1LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50417.5	10000	41.6313	93.9985	-958	QW	2.2	1	4.2	-2	0.9	-1	0.531	2	2.477	1	4.665	-1	1636	43	2.3
50417.4	10000	41.6313	93.9977	-957	QW	2.3	1	4.2	-2	0.9	-2	0.537	2	2.556	1	4.761	-1	1633	37	2.3
50417.3	10000	41.6313	93.9970	-955	QW	2.0	0	4.4	-1	0.9	-1	0.460	1	2.244	1	4.883	0	1631	39	2.3
50417.2	10000	41.6313	93.9962	-953	QW	2.3	1	4.1	-2	0.9	-2	0.566	2	2.563	1	4.531	-1	1620	40	2.3
50417.1	10000	41.6313	93.9954	-951	QW	1.9	0	4.1	-2	0.9	-2	0.455	1	2.107	0	4.625	-1	1613	36	2.2
50417.0	10000	41.6314	93.9946	-950	QW	1.6	-1	4.2	-2	0.9	-2	0.376	0	1.835	0	4.875	-1	1591	37	2.2
50416.9	10000	41.6314	93.9938	-948	QW	1.5	-1	4.3	-1	0.9	-1	0.343	0	1.705	0	4.966	0	1586	32	2.2
50416.8	10000	41.6314	93.9930	-946	QW	1.6	-1	4.7	-1	0.9	-2	0.344	0	1.866	0	5.420	0	1601	45	2.2
50416.7	10000	41.6314	93.9922	-945	QW	1.8	0	4.9	-1	0.9	-2	0.372	0	2.065	0	5.548	1	1626	39	2.2
50416.6	10000	41.6314	93.9914	-943	QW	2.0	0	5.0	-1	0.8	-2	0.402	0	2.401	1	5.971	1	1655	48	2.2
50416.5	10000	41.6315	93.9906	-942	QW	1.9	0	5.6	0	0.9	-2	0.344	0	2.208	1	6.410	2	1700	51	2.2
50416.4	10000	41.6315	93.9899	-940	QW	2.3	1	6.0	1	0.9	-1	0.394	0	2.590	1	6.581	2	1748	42	2.2
50416.3	10000	41.6315	93.9891	-938	QW	2.5	1	6.1	1	0.9	-1	0.406	0	2.608	1	6.428	2	1807	41	2.2
50416.2	10000	41.6315	93.9883	-937	QW	2.5	1	6.2	1	1.0	-1	0.410	0	2.639	2	6.434	2	1841	48	2.1
50416.1	10000	41.6316	93.9875	-935	QW	2.6	2	6.1	1	1.0	0	0.429	1	2.549	1	5.946	1	1871	46	2.1
50416.0	10000	41.6316	93.9867	-933	QW	2.4	1	5.9	1	1.1	0	0.408	0	2.225	1	5.445	0	1893	45	2.1
50415.9	10000	41.6316	93.9859	-932	QW	2.4	1	6.0	1	1.1	1	0.391	0	2.127	0	5.436	0	1904	43	2.1
50415.8	10000	41.6316	93.9851	-930	QW	2.2	0	6.2	1	1.1	0	0.347	0	1.973	0	5.685	1	1912	44	2.1
50415.7	10000	41.6316	93.9843	-928	QW	2.1	0	6.3	1	1.1	1	0.331	0	1.852	0	5.589	1	1907	51	2.1
50415.6	10000	41.6317	93.9836	-927	QW	2.0	0	6.4	1	1.1	0	0.308	-1	1.797	0	5.831	1	1879	38	2.1
50415.5	10000	41.6317	93.9828	-926	QW	2.0	0	6.3	1	1.1	0	0.319	-1	1.840	0	5.765	1	1862	33	2.1
50415.4	10000	41.6317	93.9820	-924	QW	1.8	-1	6.1	1	1.0	0	0.288	-1	1.715	0	5.956	1	1843	47	2.1
50415.3	10000	41.6317	93.9812	-922	QW	1.7	-1	6.4	1	1.0	0	0.274	-1	1.727	0	6.296	2	1828	40	2.1
50415.2	10000	41.6317	93.9804	-921	QW	1.8	0	6.0	1	1.1	0	0.296	-1	1.685	0	5.702	1	1819	51	2.0
50415.1	10000	41.6318	93.9796	-921	QW	1.6	-1	5.9	1	1.1	0	0.266	-1	1.459	-1	5.481	0	1795	55	2.0
50415.0	10000	41.6318	93.9788	-921	QW	1.3	-2	5.8	1	1.0	0	0.229	-2	1.306	-1	5.699	1	1774	47	2.0
50414.9	10000	41.6318	93.9780	-920	QW	1.8	0	5.5	1	1.0	0	0.326	-1	1.717	0	5.269	0	1782	47	2.0
50414.8	10000	41.6318	93.9772	-920	QW	1.8	0	5.5	1	1.0	0	0.330	-1	1.752	0	5.301	0	1789	48	2.0
50414.7	10000	41.6318	93.9765	-919	QW	2.2	1	5.4	1	1.0	0	0.407	-1	2.039	0	5.016	0	1795	38	2.0
50414.6	10000	41.6319	93.9757	-918	QW	2.2	1	5.5	1	1.0	0	0.396	-1	2.094	0	5.294	0	1807	43	2.0
50414.5	10000	41.6319	93.9749	-918	QW	2.2	1	5.7	1	1.0	0	0.386	-1	2.173	1	5.634	1	1812	34	2.0
50414.4	10000	41.6319	93.9741	-917	QW	2.5	1	5.5	1	1.0	0	0.446	-1	2.515	1	5.640	1	1830	44	2.0
50414.3	10000	41.6319	93.9733	-917	QW	2.7	2	5.5	1	1.1	0	0.496	-1	2.749	1	5.543	1	1850	53	2.0
50414.2	10000	41.6319	93.9725	-916	QW	2.6	2	5.7	1	1.1	0	0.463	-1	2.474	1	5.338	0	1857	43	1.9
50414.1	10000	41.6320	93.9717	-916	QW	2.4	2	5.7	1	1.1	0	0.422	-1	2.243	1	5.321	0	1863	54	1.9
50414.0	10000	41.6320	93.9709	-915	QW	2.2	1	6.0	1	1.1	0	0.361	-1	2.008	1	5.563	1	1863	40	1.9
50413.9	10000	41.6320	93.9702	-914	QW	1.9	1	6.0	1	1.1	0	0.325	-1	1.773	1	5.448	0	1845	47	1.9
50413.8	10000	41.6320	93.9694	-914	QW	1.9	1	6.2	1	1.1	0	0.303	-1	1.638	1	5.396	0	1843	49	1.9
50413.7	10000	41.6320	93.9686	-913	QW	1.8	1	6.5	1	1.1	0	0.271	-1	1.491	1	5.493	0	1836	35	1.9
50413.6	10000	41.6321	93.9678	-912	QW	1.7	1	6.3	1	1.1	0	0.261	-1	1.358	1	5.207	0	1837	53	1.9
50413.5	10000	41.6321	93.9670	-911	QW	1.6	1	6.6	1	1.1	0	0.239	-1	1.333	1	5.571	1	1828	46	1.9
50413.4	10000	41.6321	93.9662	-911	QW	1.5	1	6.7	1	1.1	0	0.230	-1	1.303	1	5.660	1	1820	48	1.9
50413.3	10000	41.6321	93.9654	-911	QW	1.5	1	6.9	1	1.1	0	0.217	-2	1.342	1	5.654	1	1812	37	1.9
50413.2	10000	41.6322	93.9646	-911	QW	1.7	1	6.8	1	1.2	0	0.261	-1	1.274	1	5.723	1	1802	50	1.9
50413.1	10000	41.6322	93.9638	-910	QW	1.8	1	6.4	1	1.2	0	0.285	-1	1.449	1	5.549	1	1784	40	1.9
50413.0	10000	41.6322	93.9631	-909	QW	1.9	1	6.3	1	1.2	0	0.298	-1	1.507	1	5.284	1	1782	49	1.9
50412.9	10000	41.6322	93.9623	-908	QW	1.7	1	6.2	1	1.3	0	0.269	-1	1.554	1	5.217	0	1771	53	1.9
50412.8	10000	41.6322	93.9615	-907	QW	1.9	1	6.2	1	1.3	0	0.325	-1	1.305	1	4.852	-1	1774	42	1.9
50412.7	10000	41.6323	93.9607	-907	QW	2.0	1	6.2	1	1.3	0	0.325	-1	1.540	-1	4.744	-1	1778	42	1.9
50412.6	10000	41.6323	93.9599	-907	QW	2.3	1	6.2	1	1.2	0	0.363	-1	1.648	0	5.067	0	1780	42	1.9
50412.5	10000	41.6323	93.9591	-907	QW	2.0	1	6.0	1	1.2	1	0.341	0	1.875	0	5.162	0	1781	36	1.9
50412.4	10000	41.6323	93.9583	-906	QW	2.0	0	6.0	1	1.2	1	0.341	0	1.704	0	5.001	0	1777	42	1.9

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50412.3	10000	41.6323	93.9575	-902	QW	2.2	1	5.8	1	1.2	1	0.379	0	1.874	0	4.939	0	1775	46	1.9
50412.2	10000	41.6324	93.9567	-901	QW	2.1	0	5.8	1	1.2	1	0.366	0	1.832	0	5.007	0	1782	45	1.9
50412.1	10000	41.6324	93.9560	-902	QW	2.4	1	6.1	1	1.1	1	0.388	0	2.141	0	5.522	1	1771	37	1.9
50412.0	10000	41.6324	93.9552	-903	QW	2.3	1	6.2	1	1.1	0	0.381	0	2.191	1	5.757	1	1777	43	1.9
50411.9	10000	41.6324	93.9544	-903	QW	2.3	1	5.8	0	1.1	0	0.400	0	2.137	0	5.347	0	1781	46	1.9
50411.8	10000	41.6324	93.9536	-903	QW	2.6	2	5.9	1	1.1	0	0.442	1	2.361	1	5.341	0	1800	41	1.9
50411.7	10000	41.6325	93.9528	-902	QW	2.9	2	6.2	1	1.0	0	0.473	1	2.895	2	6.120	2	1819	54	1.9
50411.6	10000	41.6325	93.9520	-902	QW	2.8	2	6.5	2	1.0	0	0.425	1	2.724	2	6.407	2	1823	60	1.9
50411.5	10000	41.6325	93.9512	-901	QW	3.1	3	6.5	2	1.0	0	0.473	1	3.064	2	6.476	2	1831	44	1.9
50411.4	10000	41.6325	93.9504	-900	QW	3.0	3	6.1	1	1.0	0	0.498	1	2.908	2	5.842	1	1842	49	1.9
50411.3	10000	41.6325	93.9496	-900	QW	2.8	2	6.1	1	1.1	0	0.462	1	2.681	2	5.799	1	1834	48	1.9
50411.2	10000	41.6326	93.9489	-899	QW	2.9	2	6.4	1	1.0	0	0.448	1	2.754	2	6.148	2	1826	37	1.9
50411.1	10000	41.6326	93.9481	-898	QW	2.4	1	6.0	1	1.1	0	0.401	0	2.259	1	5.634	1	1824	55	1.9
50411.0	10000	41.6326	93.9473	-898	QW	1.9	0	6.1	1	1.1	1	0.316	-1	1.725	0	5.451	0	1845	37	1.9
50410.9	10000	41.6326	93.9465	-897	QW	1.7	-1	6.4	1	1.1	1	0.272	-1	1.525	-1	5.598	1	1866	42	1.9
50410.8	10000	41.6327	93.9457	-896	QW	1.6	-1	6.7	2	1.2	1	0.236	-1	1.312	-1	5.561	1	1878	37	1.9
50410.7	10000	41.6327	93.9449	-896	QW	1.4	-1	6.8	2	1.2	1	0.212	-2	1.217	-1	5.730	1	1886	40	1.9
50410.6	10000	41.6327	93.9441	-895	QW	1.7	-1	6.7	2	1.2	2	0.250	-1	1.376	-1	5.509	1	1896	38	1.9
50410.5	10000	41.6327	93.9433	-894	QW	1.5	-1	6.3	1	1.2	2	0.245	-1	1.262	-1	5.143	0	1915	36	1.9
50410.4	10000	41.6327	93.9426	-894	QW	2.1	0	6.2	1	1.2	2	0.334	0	1.702	0	5.104	0	1928	47	1.9
50410.3	10000	41.6327	93.9418	-893	QW	2.6	2	6.0	1	1.2	2	0.438	1	2.177	1	4.965	0	1925	46	1.9
50410.2	10000	41.6328	93.9410	-893	QW	2.9	2	5.5	0	1.2	1	0.533	2	2.465	1	4.627	-1	1912	42	1.9
50410.1	10000	41.6328	93.9402	-892	QW	2.9	2	5.6	0	1.1	1	0.512	2	2.564	1	5.004	0	1899	40	1.9
50410.0	10000	41.6328	93.9394	-891	QW	3.0	3	5.5	0	1.1	0	0.554	2	2.854	2	5.156	0	1880	45	1.9
50409.9	10000	41.6328	93.9386	-891	QW	3.0	3	5.6	0	1.1	0	0.544	2	2.878	2	5.288	0	1888	54	1.9
50409.8	10000	41.6328	93.9378	-891	QW	3.1	3	5.7	0	1.0	0	0.545	2	2.975	2	5.457	0	1872	40	1.9
50409.7	10000	41.6329	93.9370	-890	QW	2.8	2	5.7	0	1.0	0	0.494	1	2.681	2	5.433	0	1853	54	1.9
50409.6	10000	41.6329	93.9362	-889	QW	2.5	1	5.9	1	1.1	0	0.433	1	2.315	1	5.342	0	1848	51	1.9
50409.5	10000	41.6329	93.9355	-889	QW	2.2	1	5.8	1	1.1	0	0.383	1	1.988	1	5.191	0	1842	51	1.9
50409.4	10000	41.6329	93.9347	-889	QW	2.2	1	5.7	1	1.2	0	0.381	1	1.878	1	4.932	0	1835	46	1.9
50409.3	10000	41.6329	93.9339	-888	QW	2.2	1	5.9	1	1.2	0	0.366	1	1.821	1	4.976	0	1856	48	1.9
50409.2	10000	41.6330	93.9331	-888	QW	2.1	1	5.8	1	1.2	0	0.370	1	1.840	1	4.968	0	1854	43	1.9
50409.1	10000	41.6330	93.9323	-887	QW	2.2	1	5.7	1	1.2	0	0.394	1	1.834	1	4.659	-1	1873	52	1.9
50409.0	10000	41.6330	93.9315	-887	QW	2.2	1	5.9	1	1.2	0	0.358	1	1.836	1	5.126	0	1882	62	1.9
50408.9	10000	41.6330	93.9307	-886	QW	2.5	1	6.2	1	1.2	0	0.367	1	1.971	1	5.377	0	1872	36	1.9
50408.8	10000	41.6331	93.9299	-886	QW	2.5	1	6.2	1	1.2	0	0.394	1	2.199	1	5.587	1	1879	49	1.9
50408.7	10000	41.6331	93.9292	-885	QW	2.3	1	6.4	1	1.2	0	0.354	1	2.052	1	5.798	1	1878	64	1.9
50408.6	10000	41.6331	93.9284	-885	QW	2.3	1	6.6	1	1.2	0	0.353	1	1.943	1	5.504	1	1867	39	2.0
50408.5	10000	41.6331	93.9276	-884	QW	2.1	1	6.5	1	1.2	0	0.328	1	1.752	1	5.336	0	1854	39	2.0
50408.4	10000	41.6331	93.9268	-884	QW	1.8	0	6.5	1	1.2	0	0.314	1	1.757	1	5.588	1	1844	46	2.0
50408.3	10000	41.6332	93.9260	-883	QW	1.8	0	6.6	1	1.2	0	0.290	1	1.475	1	5.092	0	1842	37	2.0
50408.2	10000	41.6332	93.9252	-883	QW	1.6	-1	6.5	1	1.2	0	0.277	1	1.270	1	4.583	-1	1836	31	2.0
50408.1	10000	41.6332	93.9244	-882	QW	1.6	-1	6.6	1	1.2	0	0.239	1	1.180	1	4.938	0	1833	32	2.0
50408.0	10000	41.6332	93.9236	-881	QW	1.8	-1	6.6	1	1.2	0	0.286	1	1.400	1	4.889	0	1844	42	2.0
50407.9	10000	41.6332	93.9228	-880	QW	2.1	0	6.6	1	1.2	1	0.342	1	1.732	1	5.058	0	1853	39	2.0
50407.8	10000	41.6332	93.9220	-879	QW	2.4	1	6.6	1	1.2	1	0.388	1	1.991	1	5.127	0	1860	62	2.0
50407.7	10000	41.6333	93.9212	-878	QW	2.6	2	6.6	1	1.2	1	0.416	1	2.180	1	5.234	0	1865	42	2.0
50407.6	10000	41.6333	93.9204	-877	QW	2.8	2	6.6	1	1.2	1	0.480	1	2.653	2	5.532	0	1858	49	2.0
50407.5	10000	41.6333	93.9196	-876	QW	2.9	2	6.6	1	1.2	1	0.497	1	2.872	2	5.776	0	1868	54	2.0
50407.4	10000	41.6333	93.9188	-875	QW	2.9	2	6.6	1	1.2	1	0.554	2	2.945	2	5.315	0	1865	49	2.0
50407.3	10000	41.6333	93.9180	-873	QW	2.9	2	6.6	1	1.2	1	0.572	2	2.935	2	5.129	0	1854	49	2.0
50407.2	10000	41.6333	93.9172	-872	QW	2.7	2	6.6	1	1.2	1	0.513	2	2.621	2	5.104	0	1833	34	2.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50407.1	10000	41.6334	93.9164	-872	QW	2.5	1	5.4	0	1.1	0	0.454	1	2.330	1	5.134	0	1834	49	2.0
50407.0	10000	41.6334	93.9156	-873	QW	2.2	1	5.2	0	1.1	0	0.428	1	2.019	0	4.724	-1	1835	32	2.0
50406.9	10000	41.6334	93.9147	-871	QW	2.1	0	5.8	0	1.1	1	0.369	0	1.885	0	5.108	0	1850	51	2.0
50406.8	10000	41.6334	93.9140	-870	QW	2.2	1	5.8	0	1.1	0	0.380	0	1.994	0	5.253	0	1849	42	2.0
50406.7	10000	41.6334	93.9131	-869	QW	2.3	1	6.1	1	1.1	1	0.376	0	2.047	0	5.451	0	1859	52	2.0
50406.6	10000	41.6335	93.9124	-868	QW	2.1	0	6.4	1	1.2	1	0.329	0	1.772	0	5.394	0	1881	37	2.0
50406.5	10000	41.6335	93.9115	-867	QW	2.1	0	6.5	2	1.2	1	0.328	0	1.788	0	5.445	0	1899	39	2.0
50406.4	10000	41.6335	93.9108	-866	QW	2.1	0	6.8	2	1.2	2	0.301	-1	1.661	-1	5.518	1	1894	33	2.0
50406.3	10000	41.6335	93.9099	-864	QW	2.0	0	6.8	2	1.2	1	0.296	-1	1.719	0	5.804	1	1879	45	2.0
50406.2	10000	41.6335	93.9091	-863	QW	2.0	0	6.3	1	1.2	1	0.314	-1	1.649	-1	5.251	0	1860	38	2.0
50406.1	10000	41.6335	93.9083	-861	QW	1.8	0	6.6	2	1.3	2	0.273	-1	1.417	-1	5.194	0	1857	38	2.0
50406.0	10000	41.6336	93.9075	-859	QW	1.7	-1	6.2	1	1.3	2	0.275	-1	1.337	-1	4.854	-1	1852	48	2.0
50405.9	10000	41.6336	93.9067	-858	QW	1.9	0	6.1	1	1.2	2	0.317	-1	1.563	-1	4.934	0	1838	50	2.0
50405.8	10000	41.6336	93.9059	-858	QW	1.8	0	6.2	1	1.3	2	0.299	-1	1.446	-1	4.842	-1	1840	59	2.0
50405.7	10000	41.6336	93.9051	-857	QW	2.0	0	5.8	1	1.2	1	0.346	0	1.686	0	4.867	-1	1838	48	2.0
50405.6	10000	41.6336	93.9043	-856	QW	2.0	0	6.1	1	1.2	1	0.336	0	1.694	0	5.037	0	1843	29	2.0
50405.5	10000	41.6337	93.9035	-855	QW	2.2	0	6.4	1	1.2	2	0.338	0	1.784	0	5.281	0	1858	47	2.0
50405.4	10000	41.6337	93.9027	-853	QW	2.1	0	6.1	1	1.2	1	0.344	0	1.813	0	5.275	0	1853	53	2.0
50405.3	10000	41.6337	93.9019	-852	QW	2.0	0	6.4	1	1.2	1	0.314	-1	1.718	0	5.470	0	1857	43	2.0
50405.2	10000	41.6337	93.9011	-851	QW	1.7	-1	6.5	2	1.1	1	0.258	-1	1.469	-1	5.688	1	1844	32	2.0
50405.1	10000	41.6337	93.9003	-850	QW	1.7	-1	6.4	1	1.1	0	0.270	-1	1.561	-1	5.778	1	1831	54	2.0
50405.0	10000	41.6338	93.8995	-849	QW	1.7	-1	6.3	1	1.1	1	0.263	-1	1.471	-1	5.601	1	1820	49	2.0
50404.9	10000	41.6338	93.8987	-849	QW	1.7	-1	6.1	1	1.1	1	0.275	-1	1.477	-1	5.368	0	1819	34	2.0
50404.8	10000	41.6338	93.8979	-848	QW	1.7	-1	5.9	1	1.1	0	0.287	-1	1.550	-1	5.410	0	1814	52	2.0
50404.7	10000	41.6338	93.8971	-847	QW	1.7	-1	6.0	1	1.1	0	0.283	-1	1.580	-1	5.588	1	1820	49	2.0
50404.6	10000	41.6338	93.8963	-847	QW	2.0	0	6.1	1	1.0	0	0.334	0	1.945	0	5.831	1	1802	39	2.0
50404.5	10000	41.6338	93.8955	-846	QW	2.4	1	6.0	1	1.1	0	0.397	0	2.247	1	5.653	1	1805	45	2.0
50404.4	10000	41.6339	93.8947	-846	QW	2.3	1	6.1	1	1.1	0	0.385	0	2.179	1	5.663	1	1808	56	2.0
50404.3	10000	41.6339	93.8939	-845	QW	2.4	1	5.7	0	1.1	1	0.417	0	2.153	1	5.159	0	1824	32	2.0
50404.2	10000	41.6339	93.8931	-845	QW	2.2	1	5.9	1	1.1	1	0.366	0	1.879	0	5.127	0	1824	51	2.0
50404.1	10000	41.6339	93.8923	-845	QW	2.0	1	6.0	1	1.1	1	0.343	0	1.795	0	5.238	0	1814	51	2.0
50404.0	10000	41.6339	93.8915	-845	QW	2.1	1	5.9	1	1.1	1	0.357	0	1.852	0	5.185	0	1793	59	2.0
50403.9	10000	41.6339	93.8907	-844	QW	1.9	0	5.7	1	1.1	1	0.336	0	1.677	0	4.986	0	1773	47	2.0
50403.8	10000	41.6340	93.8899	-843	QW	1.8	0	5.5	1	1.1	2	0.331	0	1.516	-1	4.587	-1	1766	48	2.0
50403.7	10000	41.6340	93.8891	-842	QW	1.9	0	5.3	1	1.1	2	0.359	0	1.620	-1	4.514	-1	1750	43	2.0
50403.6	10000	41.6340	93.8883	-842	QW	2.0	0	5.5	1	1.1	1	0.366	0	1.823	0	4.982	0	1733	39	1.9
50403.5	10000	41.6340	93.8875	-842	QW	2.3	0	5.5	1	1.1	1	0.420	0	2.175	0	5.182	0	1737	55	1.9
50403.4	10000	41.6340	93.8867	-842	QW	2.2	0	5.2	1	1.1	1	0.429	0	2.116	0	4.930	0	1728	52	1.9
50403.3	10000	41.6341	93.8859	-842	QW	2.4	0	5.9	1	1.1	1	0.482	0	2.202	-1	4.565	-1	1742	54	1.9
50403.2	10000	41.6341	93.8851	-843	QW	2.3	0	5.2	1	1.1	1	0.444	0	2.105	-1	4.747	-1	1764	44	1.9
50403.1	10000	41.6341	93.8843	-844	QW	2.2	0	5.3	1	1.1	1	0.415	0	2.079	0	5.009	0	1778	50	1.9
50403.0	10000	41.6341	93.8835	-845	QW	2.3	0	5.5	1	1.1	1	0.417	0	2.209	0	5.298	0	1791	52	1.9
50402.9	10000	41.6341	93.8827	-846	QW	1.9	0	5.7	1	1.1	1	0.343	0	1.846	0	5.382	0	1791	41	1.9
50402.8	10000	41.6342	93.8819	-847	QW	2.0	0	5.6	1	1.1	1	0.349	0	1.812	0	5.187	0	1783	40	1.9
50402.7	10000	41.6342	93.8811	-847	QW	1.8	0	5.5	1	1.1	1	0.308	-1	1.653	0	5.374	0	1796	43	1.9
50402.6	10000	41.6342	93.8803	-848	QW	1.7	-1	5.3	1	1.1	0	0.256	-1	1.510	-1	5.903	1	1791	30	1.9
50402.5	10000	41.6342	93.8795	-848	QW	1.8	-1	5.3	1	1.1	1	0.284	-1	1.717	-1	6.047	1	1784	46	1.9
50402.4	10000	41.6342	93.8787	-849	QW	1.8	-1	5.0	1	1.1	1	0.299	-1	1.727	-1	5.779	1	1774	48	1.9
50402.3	10000	41.6342	93.8779	-850	QW	1.9	-1	5.4	1	1.1	1	0.291	-1	1.655	-1	5.697	1	1782	42	1.9
50402.2	10000	41.6343	93.8771	-852	QW	2.0	0	5.5	1	1.1	1	0.295	-1	1.799	-1	6.093	1	1790	37	1.9
50402.1	10000	41.6343	93.8763	-853	QW	2.4	1	6.5	2	1.0	1	0.300	-1	1.907	-1	6.361	2	1791	54	1.9
50402.0	10000	41.6343	93.8755	-854	QW	2.4	1	6.5	2	1.0	-1	0.363	0	2.428	0	6.681	2	1783	53	1.9

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50401.9	10000	41.6343	93.8747	-855	QW	2.6	1	6.3	1	1.0	-1	0.410	0	2.686	2	6.546	2	1791	48	1.9
50401.8	10000	41.6343	93.8739	-857	QW	2.6	2	6.0	1	1.0	-1	0.430	1	2.682	2	6.232	2	1792	43	1.9
50401.7	10000	41.6343	93.8731	-858	QW	2.5	1	6.3	1	0.9	-1	0.403	1	2.682	2	6.663	2	1780	42	1.9
50401.6	10000	41.6344	93.8723	-859	QW	2.2	1	5.8	1	1.0	-1	0.384	0	2.327	1	6.059	1	1737	47	1.9
50401.5	10000	41.6344	93.8715	-858	QW	2.3	1	5.2	0	1.0	-1	0.436	1	2.337	1	5.360	0	1698	38	1.9
50401.4	10000	41.6344	93.8707	-853	QW	2.2	0	5.2	0	1.0	0	0.416	0	2.116	0	5.089	0	1679	44	1.9
50401.3	10000	41.6344	93.8699	-852	QW	1.7	-1	4.9	-1	1.0	0	0.356	0	1.702	0	4.785	-1	1667	50	1.9
50401.2	10000	41.6344	93.8691	-860	QW	1.8	-1	4.8	-1	1.0	0	0.368	0	1.709	0	4.640	-1	1650	28	1.9
50401.1	10000	41.6345	93.8683	-863	QW	1.8	0	4.9	-1	1.0	0	0.365	0	1.759	0	4.813	-1	1640	52	1.9
50401.0	10000	41.6345	93.8675	-864	QW	2.0	1	4.9	-1	1.0	0	0.410	0	1.944	0	4.739	-1	1659	50	1.9
50400.9	10000	41.6345	93.8667	-865	QW	2.1	0	5.0	-1	1.0	0	0.419	1	1.998	0	4.771	-1	1677	48	1.9
50400.8	10000	41.6345	93.8659	-867	QW	2.0	0	5.3	0	1.0	0	0.372	0	1.881	0	5.052	0	1702	37	1.9
50400.7	10000	41.6345	93.8651	-867	QW	1.9	0	5.4	0	1.0	0	0.363	0	1.881	0	5.179	0	1716	40	1.9
50400.6	10000	41.6345	93.8643	-867	QW	2.2	1	5.6	1	1.1	1	0.392	0	1.984	0	5.060	0	1737	52	1.9
50400.5	10000	41.6346	93.8635	-867	QW	2.2	1	5.7	1	1.1	1	0.396	0	1.982	0	5.007	0	1761	47	1.9
50400.4	10000	41.6346	93.8627	-867	QW	2.1	1	5.7	1	1.2	1	0.365	0	1.774	0	4.864	-1	1776	57	1.9
50400.3	10000	41.6346	93.8619	-867	QW	2.2	1	5.4	0	1.2	1	0.408	0	1.868	0	4.580	-1	1777	55	1.9
50400.2	10000	41.6346	93.8611	-866	QW	2.2	1	5.8	1	1.2	1	0.386	0	1.935	0	5.008	0	1781	25	1.9
50400.1	10000	41.6346	93.8603	-865	QW	2.4	1	6.1	1	1.2	1	0.387	0	2.029	0	5.249	0	1800	45	1.9
50400.0	10000	41.6347	93.8595	-864	QW	2.4	1	6.0	1	1.2	2	0.392	0	1.949	0	4.975	0	1800	38	1.9
50399.9	10000	41.6347	93.8587	-863	QW	2.3	1	6.0	1	1.2	2	0.391	0	1.897	0	4.854	-1	1801	54	1.9
50399.8	10000	41.6347	93.8578	-863	QW	2.1	1	6.3	1	1.2	2	0.339	0	1.712	0	5.047	0	1795	51	1.9
50399.7	10000	41.6347	93.8571	-862	QW	2.1	1	6.7	2	1.2	2	0.31[illegible]	0	[illegible]29	0	5.484	0	1797	40	1.9
50399.6	10000	41.6347	93.8562	-862	QW	2.1	1	6.8	2	1.2	1	0.31[illegible]	0	[illegible]30	0	5.714	1	1793	37	1.8
50399.5	10000	41.6348	93.8555	-861	QW	2.3	1	6.6	2	1.2	1	0.3[illegible]	0	[illegible].938	0	5.648	1	1804	43	1.8
50399.4	10000	41.6348	93.8546	-860	QW	2.3	1	6.[illegible]	2	1.2	1	0.3[illegible]9	0	1.918	0	5.346	0	1802	36	1.8
50399.3	10000	41.6348	93.8539	-860	QW	2.3	1	6.[illegible]	2	1.2	1	0.[illegible]7	0	2.034	1	5.550	1	1807	43	1.8
50399.2	10000	41.6348	93.8530	-859	QW	2.5	1	6.3	2	1.1	1	0.[illegible]5	0	2.212	1	5.603	1	1794	33	1.8
50399.1	10000	41.6348	93.8522	-858	QW	2.4	1	6.2	1	1.2	1	0.[illegible]80	0	2.128	1	5.596	1	1783	45	1.8
50399.0	10000	41.6348	93.8514	-857	QW	2.3	1	6.1	1	1.2	1	0.[illegible]72	0	1.981	0	5.326	0	1781	39	1.8
50398.9	10000	41.6349	93.8506	-855	QW	2.1	0	6.0	1	1.2	1	0.[illegible]49	0	1.791	0	5.125	0	1766	52	1.8
50398.8	10000	41.6349	93.8498	-854	QW	1.9	0	5.9	1	1.2	1	0.328	0	1.600	-1	4.872	-1	1752	38	1.8
50398.7	10000	41.6349	93.8490	-855	QW	2.2	1	5.8	1	1.2	1	0.369	0	1.764	0	4.782	-1	1735	43	1.8
50398.6	10000	41.6349	93.8482	-855	QW	2.0	1	5.6	1	1.2	1	0.357	0	1.639	-1	4.584	-1	1730	57	1.8
50398.5	10000	41.6349	93.8474	-854	QW	1.7	-1	5.7	1	1.2	1	0.291	0	1.343	-1	4.622	-1	1740	54	1.8
50398.4	10000	41.6349	93.8466	-854	QW	1.7	-1	5.5	1	1.2	1	0.317	0	1.416	-1	4.461	-1	1756	42	1.8
50398.3	10000	41.6350	93.8458	-854	QW	1.8	-1	5.5	1	1.2	1	0.336	0	1.473	-1	4.381	-1	1774	54	1.8
50398.2	10000	41.6350	93.8450	-852	QW	1.7	-1	5.8	1	1.2	1	0.302	0	1.425	-1	4.714	-1	1797	46	1.8
50398.1	10000	41.6350	93.8442	-851	QW	1.9	-1	5.9	1	1.3	1	0.320	0	1.509	-1	4.722	-1	1828	52	1.8
50398.0	10000	41.6350	93.8434	-849	QW	1.6	-1	6.0	1	1.2	1	0.274	0	1.320	-1	4.820	-1	1847	44	1.8
50397.9	10000	41.6350	93.8426	-848	QW	1.6	-1	6.0	1	1.2	1	0.266	0	1.339	-1	5.032	0	1859	55	1.8
50397.8	10000	41.6350	93.8418	-847	QW	2.1	0	6.1	1	1.2	1	0.356	0	1.822	0	5.122	0	1859	47	1.8
50397.7	10000	41.6351	93.8410	-847	QW	2.4	1	6.1	1	1.1	1	0.401	0	2.135	0	5.318	0	1841	37	1.8
50397.6	10000	41.6351	93.8402	-846	QW	2.5	1	5.8	1	1.1	1	0.432	1	2.280	1	5.280	0	1806	45	1.8
50397.5	10000	41.6351	93.8394	-847	QW	2.4	1	5.4	1	1.1	1	0.447	1	2.229	1	4.983	0	1786	45	1.8
50397.4	10000	41.6351	93.8386	-847	QW	2.4	1	5.5	1	1.1	0	0.443	1	2.370	1	5.353	0	1764	41	1.8
50397.3	10000	41.6351	93.8378	-847	QW	2.5	1	5.5	1	1.1	0	0.484	1	2.510	1	5.188	0	1753	45	1.8
50397.2	10000	41.6352	93.8370	-847	QW	2.6	1	5.3	1	1.1	0	0.486	1	2.478	1	5.098	0	1751	50	1.8
50397.1	10000	41.6352	93.8362	-846	QW	2.6	1	5.4	1	1.1	0	0.478	1	2.486	1	5.199	0	1750	49	1.8
50397.0	10000	41.6352	93.8354	-845	QW	2.3	1	5.3	1	1.1	0	0.412	1	2.196	1	5.332	0	1766	32	1.8
50396.9	10000	41.6352	93.8346	-846	QW	2.3	1	5.6	1	1.1	0	0.407	1	2.149	1	5.286	0	1787	53	1.8
50396.8	10000	41.6352	93.8338	-845	QW	2.5	1	5.8	1	1.1	0	0.430	1	2.296	1	5.338	0	1793	37	1.8

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50396.7	10000	41.6352	93.8330	-845	QW	2.5	1	5.2	0	1.1	0	0.486	1	2.361	1	4.860	-1	1784	45	1.8
50396.6	10000	41.6353	93.8322	-843	QW	2.7	2	5.4	0	1.1	0	0.504	1	2.469	1	4.901	0	1787	46	1.7
50396.5	10000	41.6353	93.8314	-843	QW	2.7	2	5.6	0	1.1	0	0.472	1	2.498	1	5.295	0	1758	46	1.7
50396.4	10000	41.6353	93.8306	-843	QW	2.4	1	5.6	0	1.1	0	0.425	1	2.223	1	5.228	0	1759	52	1.7
50396.3	10000	41.6353	93.8298	-843	QW	2.7	2	5.9	1	1.1	0	0.454	1	2.520	1	5.547	1	1753	51	1.7
50396.2	10000	41.6353	93.8290	-843	QW	2.5	1	5.8	0	1.0	0	0.431	1	2.383	1	5.523	1	1753	49	1.7
50396.1	10000	41.6354	93.8282	-842	QW	2.5	1	5.6	0	1.0	0	0.444	1	2.394	1	5.388	0	1753	39	1.7
50396.0	10000	41.6354	93.8274	-842	QW	2.2	1	5.7	0	1.1	0	0.386	0	2.083	0	5.396	0	1753	36	1.7
50395.9	10000	41.6354	93.8266	-842	QW	1.9	0	5.9	1	1.1	0	0.329	0	1.812	0	5.504	1	1757	43	1.7
50395.8	10000	41.6354	93.8258	-842	QW	2.0	0	5.5	1	1.1	1	0.358	0	1.733	0	4.848	-1	1787	43	1.7
50395.7	10000	41.6354	93.8250	-842	QW	2.2	1	5.3	0	1.2	1	0.421	1	1.948	0	4.630	-1	1787	49	1.7
50395.6	10000	41.6354	93.8242	-841	QW	2.0	1	4.7	-1	1.2	1	0.427	1	1.699	0	3.982	-2	1796	51	1.7
50395.5	10000	41.6355	93.8234	-841	QW	2.2	1	4.8	-1	1.2	1	0.469	1	1.866	0	3.982	-2	1786	51	1.7
50395.4	10000	41.6355	93.8226	-841	QW	2.1	0	5.0	-1	1.2	1	0.419	1	1.807	0	4.309	-1	1777	39	1.7
50395.3	10000	41.6355	93.8218	-841	QW	2.2	1	5.4	0	1.2	1	0.406	0	1.899	0	4.680	-1	1783	56	1.7
50395.2	10000	41.6355	93.8210	-841	QW	2.3	1	4.8	-1	1.1	1	0.486	1	2.087	0	4.298	-1	1764	40	1.7
50395.1	10000	41.6355	93.8202	-842	QW	2.5	1	5.1	-1	1.1	0	0.503	1	2.404	1	4.774	-1	1751	58	1.7
50395.0	10000	41.6355	93.8194	-842	QW	2.1	0	5.4	0	1.0	0	0.400	0	2.061	0	5.155	0	1752	43	1.7
50394.9	10000	41.6355	93.8185	-841	QW	2.3	1	5.5	0	1.1	0	0.419	1	2.197	1	5.245	0	1760	36	1.7
50394.8	10000	41.6355	93.8177	-841	QW	2.4	1	5.5	0	1.0	0	0.436	1	2.346	1	5.386	0	1768	53	1.6
50394.7	10000	41.6355	93.8168	-841	QW	2.4	1	5.4	0	1.0	0	0.447	1	2.384	1	5.336	0	1772	53	1.6
50394.6	10000	41.6355	93.8159	-841	QW	2.6	2	5.1	-1	1.0	0	0.515	2	2.572	1	4.993	0	1777	56	1.6
50394.5	10000	41.6355	93.8151	-840	QW	2.7	2	5.5	0	1.0	0	0.483	1	2.646	2	5.477	0	1787	36	1.6
50394.4	10000	41.6354	93.8142	-840	QW	2.5	1	5.4	0	1.0	0	0.473	1	2.478	1	5.235	0	1773	37	1.6
50394.3	10000	41.6354	93.8134	-839	QW	2.7	2	4.8	-1	1.0	0	0.547	2	2.587	1	4.729	-1	1752	40	1.6
50394.2	10000	41.6354	93.8125	-839	QW	2.6	2	4.7	-1	1.0	-1	0.557	2	2.720	2	4.886	0	1714	40	1.6
50394.1	10000	41.6354	93.8116	-838	QW	2.7	2	4.4	-1	1.0	-1	0.602	2	2.763	2	4.588	-1	1700	47	1.6
50394.0	10000	41.6354	93.8108	-839	QW	2.9	2	4.4	-2	1.0	-1	0.651	2	2.900	2	4.455	-1	1696	45	1.6
50393.9	10000	41.6354	93.8099	-838	QW	2.9	2	4.3	-2	1.0	-1	0.667	2	2.962	2	4.443	-1	1689	44	1.6
50393.8	10000	41.6354	93.8091	-838	QW	2.7	2	4.1	-2	1.0	-1	0.653	2	2.779	2	4.253	-2	1688	45	1.6
50393.7	10000	41.6353	93.8082	-838	QW	3.0	2	4.4	-1	1.0	-1	0.677	2	3.063	2	4.524	-1	1716	38	1.6
50393.6	10000	41.6353	93.8073	-838	QW	2.9	2	4.7	-1	1.0	-1	0.628	2	3.089	2	4.916	0	1733	40	1.6
50393.5	10000	41.6353	93.8065	-838	QW	2.7	2	5.1	-1	1.0	0	0.563	2	2.747	2	4.877	-1	1764	47	1.6
50393.4	10000	41.6353	93.8056	-838	QW	2.4	1	5.6	0	1.0	0	0.476	1	2.568	1	5.392	0	1778	39	1.6
50393.3	10000	41.6353	93.8047	-839	QW	2.3	1	5.8	0	1.1	0	0.423	1	2.220	1	5.252	0	1786	38	1.6
50393.2	10000	41.6353	93.8039	-840	QW	2.4	1	5.9	1	1.1	0	0.390	0	2.096	0	5.371	0	1778	51	1.6
50393.1	10000	41.6352	93.8030	-840	QW	2.2	1	6.0	1	1.1	0	0.396	0	2.172	0	5.489	0	1746	52	1.6
50393.0	10000	41.6352	93.8022	-841	QW	2.1	1	5.7	1	1.1	0	0.379	0	2.038	0	5.380	0	1701	47	1.6
50392.9	10000	41.6352	93.8013	-842	QW	2.2	1	5.6	1	1.0	-1	0.379	0	2.115	0	5.586	1	1665	41	1.5
50392.8	10000	41.6352	93.8004	-842	QW	2.1	1	5.1	0	0.9	-1	0.424	0	2.375	0	5.602	1	1620	53	1.5
50392.7	10000	41.6352	93.7996	-842	QW	2.2	1	4.9	-1	0.9	-1	0.447	0	2.385	0	5.336	0	1604	52	1.5
50392.6	10000	41.6352	93.7987	-842	QW	2.3	1	4.8	-1	0.9	-1	0.473	0	2.471	1	5.225	0	1610	54	1.5
50392.5	10000	41.6351	93.7979	-842	QW	2.2	1	5.1	-1	0.9	-1	0.436	0	2.408	1	5.519	1	1620	45	1.5
50392.4	10000	41.6351	93.7970	-843	QW	2.3	1	5.2	0	1.0	-1	0.440	0	2.373	1	5.391	0	1662	39	1.5
50392.3	10000	41.6351	93.7961	-843	QW	2.5	1	5.0	0	1.1	-1	0.492	1	2.530	1	5.145	0	1688	54	1.5
50392.2	10000	41.6351	93.7953	-844	QW	2.4	1	5.1	0	1.1	0	0.472	1	2.288	1	4.849	-1	1727	49	1.5
50392.1	10000	41.6351	93.7944	-844	QW	2.3	1	5.4	0	1.1	0	0.414	0	2.021	1	4.877	-1	1752	56	1.5
50392.0	10000	41.6351	93.7935	-844	QW	2.4	1	5.4	0	1.2	1	0.466	1	2.173	1	4.661	-1	1779	46	1.5
50391.9	10000	41.6350	93.7927	-844	QW	2.7	2	5.3	0	1.1	1	0.521	1	2.490	1	4.778	-1	1788	50	1.5
50391.8	10000	41.6350	93.7918	-845	QW	2.9	2	5.2	0	1.1	1	0.573	2	2.630	2	4.594	-1	1809	44	1.5
50391.7	10000	41.6350	93.7910	-845	QW	3.0	2	5.5	0	1.1	1	0.631	2	2.882	2	4.569	-1	1814	44	1.5
50391.6	10000	41.6350	93.7901	-845	QW	3.1	3	5.7	0	1.1	1	0.539	2	2.769	2	5.133	0	1826	42	1.5

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50391.5	10000	41.6350	93.7892	-845	QW	3.2	3	5.6	0	1.1	1	0.572	2	2.885	2	5.048	0	1841	57	1.5
50391.4	10000	41.6350	93.7884	-846	QW	3.7	4	5.6	0	1.1	0	0.659	3	3.500	3	5.313	0	1869	47	1.5
50391.3	10000	41.6349	93.7875	-847	QW	3.7	4	5.6	0	1.0	0	0.669	3	3.649	4	5.455	0	1866	56	1.5
50391.2	10000	41.6349	93.7866	-848	QW	3.5	4	5.8	1	1.1	0	0.598	2	3.287	3	5.493	0	1862	57	1.5
50391.1	10000	41.6349	93.7858	-849	QW	3.2	3	5.9	1	1.0	0	0.547	2	3.141	3	5.740	1	1836	47	1.5
50391.0	10000	41.6349	93.7849	-850	QW	2.9	3	5.9	1	1.0	0	0.496	1	2.871	2	5.790	1	1838	45	1.5
50390.9	10000	41.6349	93.7841	-850	QW	3.2	3	6.0	1	1.1	0	0.528	2	2.992	2	5.668	1	1829	64	1.5
50390.8	10000	41.6349	93.7832	-852	QW	3.3	3	6.0	1	1.0	-1	0.543	2	3.410	3	6.278	2	1821	58	1.5
50390.7	10000	41.6349	93.7823	-852	QW	3.1	3	6.0	1	1.0	0	0.514	2	2.969	2	5.773	1	1799	57	1.5
50390.6	10000	41.6348	93.7815	-853	QW	2.9	2	6.6	2	1.1	0	0.436	1	2.641	2	6.055	1	1783	49	1.4
50390.5	10000	41.6348	93.7806	-854	QW	3.0	3	6.4	1	1.1	0	0.462	1	2.763	2	5.982	1	1780	43	1.4
50390.4	10000	41.6348	93.7797	-855	QW	3.0	3	6.2	1	1.1	0	0.494	1	2.841	2	5.757	1	1780	32	1.4
50390.3	10000	41.6348	93.7789	-856	QW	3.1	3	6.3	1	1.1	0	0.490	1	2.877	2	5.868	1	1771	40	1.5
50390.2	10000	41.6348	93.7780	-856	QW	2.9	3	6.0	1	1.1	0	0.494	1	2.773	2	5.617	1	1786	36	1.5
50390.1	10000	41.6348	93.7772	-858	QW	2.8	2	5.9	1	1.1	1	0.468	1	2.469	1	5.276	0	1797	37	1.5
50390.0	10000	41.6347	93.7763	-858	QW	2.8	2	6.2	1	1.1	0	0.460	1	2.602	1	5.661	1	1805	44	1.5
50389.9	10000	41.6347	93.7754	-859	QW	3.0	3	5.7	0	1.0	0	0.521	2	2.891	2	5.548	1	1820	37	1.5
50389.8	10000	41.6347	93.7746	-860	QW	3.1	3	5.6	0	1.0	-1	0.525	2	3.059	2	5.832	1	1808	34	1.4
50389.7	10000	41.6347	93.7737	-859	QW	3.2	3	6.0	1	1.0	-1	0.507	1	3.080	2	6.076	1	1803	54	1.4
50389.6	10000	41.6347	93.7729	-854	QW	3.2	3	5.9	1	1.0	-1	0.537	2	3.176	3	5.910	1	1797	34	1.4
50389.5	10000	41.6347	93.7720	-841	QW	2.9	3	5.7	0	1.0	0	0.513	2	2.869	2	5.587	1	1787	40	1.4
50389.4	10000	41.6346	93.7711	-825	QW	3.1	3	5.8	1	1.1	1	0.543	2	2.792	2	5.138	0	1789	40	1.4
50389.3	10000	41.6346	93.7703	-805	QW	2.9	3	5.3	0	1.1	1	0.545	2	2.537	1	4.652	-1	1792	45	1.4
50389.2	10000	41.6346	93.7694	-790	QW	3.1	3	5.1	-1	1.1	0	0.614	3	2.831	2	4.613	-1	1769	43	1.4
50389.1	10000	41.6346	93.7685	-796	QW	3.2	3	5.1	0	1.1	0	0.621	3	3.033	2	4.886	0	1757	35	1.4
50389.0	10000	41.6346	93.7677	-812	QW	3.4	4	4.6	-1	1.0	-1	0.739	4	3.550	3	4.807	-1	1731	34	1.4
50388.9	10000	41.6346	93.7668	-820	QW	3.5	4	4.4	-1	0.9	-1	0.795	5	3.904	3	4.912	0	1691	41	1.4
50388.8	10000	41.6345	93.7660	-791	QW	3.7	4	4.1	-2	0.8	-1	0.889	6	4.396	4	4.947	0	1645	42	1.4
50388.7	10000	41.6345	93.7651	-730	QW	3.5	4	3.9	-2	0.7	-1	0.902	6	4.758	5	5.275	0	1584	38	1.4
50388.6	10000	41.6345	93.7642	-697	QW	3.7	4	4.0	-2	0.7	-1	0.910	6	5.202	6	5.715	1	1547	49	1.4
50388.5	10000	41.6345	93.7634	-713	QW	3.4	4	3.9	-2	0.7	-1	0.875	5	4.595	6	5.250	0	1554	63	1.4
50388.4	10000	41.6345	93.7625	-757	QW	3.5	4	3.6	-2	0.7	-1	0.966	6	4.058	5	4.201	-2	1592	38	1.4
50388.3	10000	41.6344	93.7616	-821	QW	3.4	4	3.7	-2	0.9	-1	0.903	6	3.697	4	4.096	-2	1645	49	1.4
50388.2	10000	41.6344	93.7608	-866	QW	3.3	4	4.3	-2	0.9	-1	0.743	4	3.459	3	4.654	-1	1715	39	1.4
50388.1	10000	41.6344	93.7599	-882	QW	3.3	4	5.3	-2	0.9	-1	0.625	3	3.629	4	5.809	1	1779	46	1.5
50388.0	10000	41.6344	93.7591	-885	QW	3.8	4	5.8	-2	0.9	-1	0.660	4	4.038	4	6.122	2	1847	48	1.5
50387.9	10000	41.6344	93.7582	-886	QW	3.8	4	5.8	-2	0.9	-1	0.661	4	4.055	4	6.133	2	1906	39	1.5
50387.8	10000	41.6344	93.7573	-886	QW	4.0	4	6.0	-2	0.9	-1	0.659	4	3.996	4	6.068	1	1939	34	1.5
50387.7	10000	41.6344	93.7565	-884	QW	4.2	4	6.5	-2	0.9	-1	0.655	4	4.639	5	7.081	3	1942	37	1.5
50387.6	10000	41.6343	93.7556	-882	QW	4.1	4	6.6	-2	1.0	-1	0.617	4	4.272	5	6.919	3	1968	43	1.5
50387.5	10000	41.6343	93.7548	-880	QW	4.3	4	6.5	-2	1.0	-1	0.667	4	4.487	5	6.728	2	1995	52	1.5
50387.4	10000	41.6343	93.7539	-878	QW	4.2	4	6.2	-1	1.0	-1	0.681	4	4.262	5	6.255	2	2006	42	1.5
50387.3	10000	41.6343	93.7530	-877	QW	4.2	4	6.1	-1	1.0	-1	0.601	3	3.531	4	5.873	1	2037	39	1.5
50387.2	10000	41.6343	93.7522	-877	QW	4.1	4	5.9	-1	1.0	-1	0.581	3	3.296	4	5.672	1	2061	46	1.5
50387.1	10000	41.6343	93.7513	-877	QW	4.1	4	5.8	-1	1.0	-1	0.516	3	3.331	4	6.450	2	2062	47	1.5
50387.0	10000	41.6342	93.7504	-877	QW	4.2	4	5.7	-1	1.0	-1	0.548	3	3.448	4	6.288	2	2058	40	1.5
50386.9	10000	41.6342	93.7496	-877	QW	4.2	4	5.5	-1	1.0	-1	0.629	3	3.139	4	6.580	2	2042	47	1.5
50386.8	11000	41.6342	93.7487	-877	QW	4.2	4	5.5	-1	1.0	-1	0.598	3	3.708	4	6.200	2	2018	51	1.5
50386.7	11000	41.6342	93.7479	-876	QW	4.2	4	5.5	-1	1.0	-1	0.651	3	3.752	4	6.767	1	2014	59	1.5
50386.6	11000	41.6342	93.7470	-876	QW	4.4	4	5.5	-1	1.0	-1	0.679	3	4.128	5	6.083	1	1989	40	1.5
50386.5	11000	41.6342	93.7461	-877	QW	4.2	4	5.5	-1	1.0	-1	0.702	4	4.114	5	5.859	1	1969	51	1.5
50386.4	11000	41.6342	93.7453	-878	QW	4.0	4	5.4	0	1.0	0	0.740	4	3.838	4	5.187	0	1976	43	1.5

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50386.3	11000	41.6341	93.7444	-879	QW	3.4	3	5.5	0	1.1	0	0.622	3	3.123	3	5.018	0	1984	57	1.5
50386.2	11000	41.6341	93.7435	-879	QW	3.2	3	5.6	0	1.2	1	0.567	2	2.652	2	4.677	-1	2006	55	1.5
50386.1	11000	41.6341	93.7427	-880	QW	2.9	2	5.4	0	1.1	1	0.533	2	2.581	1	4.843	-1	2007	37	1.5
50386.0	11000	41.6341	93.7418	-881	QW	2.8	2	5.1	-1	1.1	1	0.559	2	2.469	1	4.416	-1	2015	34	1.5
50385.9	11000	41.6341	93.7410	-882	QW	2.6	2	5.2	0	1.2	2	0.504	1	2.164	1	4.290	-1	2011	48	1.5
50385.8	11000	41.6340	93.7401	-882	QW	2.9	2	5.1	0	1.2	1	0.558	2	2.426	1	4.348	-1	1996	48	1.5
50385.7	11000	41.6340	93.7392	-883	QW	2.9	2	5.1	-1	1.2	1	0.577	2	2.506	1	4.345	-1	1979	55	1.5
50385.6	11000	41.6340	93.7384	-884	QW	2.4	1	5.2	0	1.1	1	0.475	1	2.152	1	4.531	-1	1980	45	1.5
50385.5	11000	41.6340	93.7375	-884	QW	2.5	1	5.0	-1	1.1	1	0.507	1	2.288	1	4.514	-1	1943	44	1.5
50385.4	11000	41.6340	93.7367	-885	QW	2.8	2	4.9	-1	1.1	1	0.576	2	2.442	1	4.237	-2	1930	50	1.5
50385.3	11000	41.6340	93.7358	-884	QW	2.9	2	4.6	-1	1.1	1	0.634	3	2.653	2	4.183	-2	1915	47	1.5
50385.2	11000	41.6339	93.7349	-883	QW	3.0	2	4.3	-2	1.0	0	0.691	3	2.912	2	4.212	-2	1895	46	1.5
50385.1	11000	41.6339	93.7341	-882	QW	3.0	2	4.7	-1	1.0	0	0.634	3	2.866	2	4.519	-1	1876	49	1.5
50385.0	11000	41.6339	93.7332	-881	CULTRL	2.9	999	4.6	999	1.1	999	0.635	999	2.795	999	4.399	999	1864	59	1.5
50384.9	11000	41.6339	93.7323	-881	CULTRL	2.4	999	4.2	999	1.1	999	0.826	999	3.173	999	3.841	999	1845	45	1.5
50384.8	11000	41.6339	93.7315	-881	CULTRL	3.1	999	4.2	999	1.1	999	0.751	999	2.947	999	3.925	999	1858	48	1.5
50384.7	11000	41.6339	93.7306	-882	CULTRL	3.0	999	3.9	999	1.1	999	0.768	999	2.790	999	3.633	999	1858	45	1.5
50384.6	11000	41.6339	93.7298	-882	CULTRL	2.8	999	4.8	999	1.1	999	0.585	999	2.640	999	4.509	999	1847	48	1.5
50384.5	11000	41.6338	93.7289	-882	CULTRL	3.0	999	4.7	999	1.0	999	0.643	999	2.887	999	4.487	999	1852	51	1.6
50384.4	11000	41.6338	93.7280	-883	CULTRL	3.0	999	4.5	999	1.0	999	0.680	999	3.040	999	4.467	999	1865	48	1.6
50384.3	11000	41.6338	93.7272	-884	CULTRL	3.2	999	4.5	999	1.0	999	0.718	999	3.190	999	4.445	999	1881	37	1.6
50384.2	11000	41.6338	93.7263	-885	CULTRL	3.6	999	5.3	999	1.0	999	0.688	999	3.634	999	5.281	999	1924	55	1.6
50384.1	11000	41.6338	93.7254	-886	CULTRL	3.6	999	5.3	999	0.9	999	0.676	999	3.805	999	5.627	999	1921	43	1.6
50384.0	11000	41.6337	93.7246	-886	CULTRL	4.1	999	6.0	999	0.9	999	0.692	999	4.565	999	6.594	999	1928	50	1.6
50383.9	11000	41.6337	93.7237	-887	CULTRL	4.7	999	6.2	999	1.0	999	0.756	999	4.687	999	6.200	999	1962	61	1.6
50383.8	11000	41.6337	93.7229	-887	CULTRL	4.5	999	6.5	999	1.0	999	0.685	999	4.532	999	6.617	999	1969	44	1.6
50383.7	11000	41.6337	93.7220	-887	CULTRL	4.6	999	6.9	999	1.0	999	0.660	999	4.506	999	6.829	999	1973	44	1.6
50383.6	11000	41.6337	93.7211	-887	CULTRL	5.0	999	7.4	999	1.0	999	0.675	999	4.922	999	7.287	999	1985	40	1.6
50383.5	11000	41.6337	93.7203	-887	CULTRL	4.5	999	6.9	999	0.9	999	0.661	999	4.940	999	7.469	999	1940	51	1.6
50383.4	11000	41.6336	93.7194	-887	CULTRL	4.4	999	7.0	999	0.9	999	0.623	999	4.779	999	7.665	999	1936	40	1.6
50383.3	11000	41.6336	93.7186	-887	CULTRL	4.1	999	6.8	999	0.9	999	0.608	999	4.421	999	7.269	999	1945	43	1.6
50383.2	11000	41.6336	93.7177	-887	CULTRL	3.8	999	6.2	999	0.8	999	0.607	999	4.671	999	7.695	999	1916	39	1.6
50383.1	11000	41.6336	93.7168	-887	CULTRL	4.0	999	6.4	999	0.8	999	0.631	999	5.144	999	8.147	999	1913	56	1.6
50383.0	11000	41.6336	93.7160	-887	CULTRL	3.5	999	6.8	999	0.7	999	0.523	999	4.831	999	9.231	999	1918	46	1.6
50382.9	11000	41.6336	93.7151	-886	CULTRL	2.9	999	6.3	999	0.7	999	0.456	999	4.360	999	9.566	999	1893	48	1.6
50382.8	11000	41.6335	93.7142	-885	CULTRL	2.7	999	6.6	999	0.7	999	0.407	999	3.621	999	8.895	999	1889	50	1.6
50382.7	11000	41.6335	93.7134	-885	CULTRL	2.8	999	6.6	999	0.8	999	0.419	999	3.482	999	8.311	999	1897	47	1.6
50382.6	11000	41.6335	93.7125	-886	CULTRL	2.9	999	6.1	999	0.8	999	0.475	999	3.644	999	7.665	999	1873	40	1.6
50382.5	11000	41.6335	93.7117	-887	CULTRL	3.0	999	5.8	999	0.8	999	0.513	999	3.659	999	7.134	999	1877	54	1.6
50382.4	11000	41.6335	93.7108	-888	CULTRL	2.9	999	5.3	999	0.8	999	0.540	999	3.518	999	6.516	999	1882	43	1.6
50382.3	11000	41.6335	93.7099	-890	CULTRL	2.7	999	4.9	999	0.9	999	0.557	999	3.083	999	5.532	999	1874	46	1.6
50382.2	11000	41.6334	93.7091	-891	CULTRL	3.1	999	5.0	999	0.9	999	0.614	999	3.330	999	5.427	999	1873	32	1.6
50382.1	11000	41.6334	93.7082	-891	CULTRL	3.1	999	4.7	999	0.9	999	0.673	999	3.403	999	5.057	999	1891	53	1.6
50382.0	11000	41.6334	93.7074	-892	CULTRL	3.2	999	4.8	999	0.9	999	0.661	999	3.501	999	5.300	999	1892	48	1.7
50381.9	11000	41.6334	93.7065	-892	CULTRL	3.1	999	5.0	999	0.8	999	0.623	999	3.785	999	6.080	999	1896	39	1.7
50381.8	11000	41.6334	93.7056	-893	CULTRL	3.0	999	5.2	999	0.9	999	0.574	999	3.316	999	5.780	999	1899	38	1.7
50381.7	11000	41.6334	93.7048	-894	CULTRL	2.8	999	5.0	999	0.9	999	0.560	999	2.967	999	5.302	999	1874	55	1.7
50381.6	11000	41.6333	93.7039	-894	CULTRL	3.3	999	4.7	999	0.9	999	0.707	999	3.748	999	5.304	999	1861	45	1.7
50381.5	11000	41.6333	93.7030	-895	CULTRL	3.1	999	4.5	999	0.9	999	0.685	999	3.515	999	5.134	999	1852	49	1.7
50381.4	11000	41.6333	93.7022	-895	CULTRL	3.3	999	4.4	999	0.8	999	0.748	999	4.168	999	5.575	999	1820	50	1.7
50381.3	11000	41.6333	93.7013	-895	CULTRL	3.5	999	3.9	999	0.8	999	0.906	999	4.499	999	4.964	999	1794	51	1.7
50381.2	11000	41.6333	93.7005	-895	CULTRL	3.4	999	4.0	999	0.7	999	0.835	999	4.602	999	5.510	999	1741	51	1.7

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50381.1	11000	41.6333	93.6996	-894	CULTRL	3.5	999	3.8	999	0.6	999	0.910	999	5.436	999	5.973	999	1694	56	1.7
50381.0	11000	41.6332	93.6987	-891	CULTRL	3.7	999	3.6	999	0.6	999	1.028	999	6.300	999	6.130	999	1679	45	1.7
50380.9	11000	41.6332	93.6979	-886	CULTRL	4.0	999	3.6	999	0.6	999	1.114	999	7.024	999	6.304	999	1665	51	1.7
50380.8	11000	41.6332	93.6970	-879	CULTRL	4.2	999	3.3	999	0.6	999	1.299	999	7.333	999	5.651	999	1661	44	1.7
50380.7	11000	41.6332	93.6962	-872	CULTRL	3.4	999	3.6	999	0.7	999	0.958	999	5.145	999	5.369	999	1672	39	1.7
50380.6	11000	41.6332	93.6953	-866	CULTRL	3.6	999	3.8	999	0.6	999	0.933	999	5.636	999	6.040	999	1682	48	1.7
50380.5	11000	41.6332	93.6945	-869	CULTRL	3.4	999	4.1	999	0.7	999	0.827	999	4.838	999	5.853	999	1725	52	1.7
50380.4	11000	41.6332	93.6936	-878	CULTRL	3.0	999	3.7	999	0.8	999	0.796	999	3.938	999	4.947	999	1770	38	1.7
50380.3	11000	41.6332	93.6928	-888	CULTRL	3.0	999	4.4	999	0.8	999	0.698	999	3.736	999	5.352	999	1796	46	1.7
50380.2	11000	41.6332	93.6920	-892	CULTRL	2.4	999	4.8	999	0.9	999	0.492	999	2.674	999	5.433	999	1839	55	1.7
50380.1	11000	41.6333	93.6912	-895	CULTRL	1.9	999	5.4	999	0.9	999	0.359	999	2.094	999	5.835	999	1883	46	1.7
50380.0	11000	41.6333	93.6903	-896	CULTRL	2.0	999	5.0	999	1.0	999	0.397	999	2.045	999	5.148	999	1901	48	1.8
50379.9	11010	41.6333	93.6895	-896	CULTRL	1.5	999	4.6	999	1.1	999	0.333	999	1.407	999	4.219	999	1922	46	1.8
50379.8	11010	41.6333	93.6887	-896	CULTRL	1.3	999	4.3	999	1.2	999	0.299	999	1.093	999	3.657	999	1949	50	1.8
50379.7	11010	41.6333	93.6879	-896	CULTRL	1.3	999	5.1	999	1.3	999	0.245	999	1.003	999	4.096	999	1936	42	1.8
50379.6	11010	41.6334	93.6870	-896	CULTRL	1.1	999	5.1	999	1.2	999	0.213	999	0.873	999	4.106	999	1956	54	1.8
50379.5	11000	41.6334	93.6862	-895	CULTRL	2.0	999	4.7	999	1.3	999	0.426	999	1.535	999	3.607	999	1959	45	1.8
50379.4	11000	41.6334	93.6854	-896	CULTRL	2.1	999	4.4	999	1.2	999	0.466	999	1.742	999	3.738	999	1934	42	1.8
50379.3	11000	41.6334	93.6846	-896	CULTRL	2.3	999	5.0	999	1.1	999	0.452	999	2.145	999	4.742	999	1915	48	1.8
50379.2	11000	41.6334	93.6837	-896	CULTRL	2.5	999	5.0	999	1.0	999	0.502	999	2.461	999	4.903	999	1918	38	1.8
50379.1	11000	41.6334	93.6829	-896	CULTRL	2.4	999	4.4	999	0.9	999	0.543	999	2.561	999	4.712	999	1881	42	1.8
50379.0	11000	41.6334	93.6821	-895	CULTRL	2.5	999	3.9	999	0.9	999	0.639	999	2.703	999	4.227	999	1909	47	1.8
50378.9	11000	41.6335	93.6813	-894	CULTRL	2.2	999	3.4	999	1.0	999	0.644	999	2.294	999	3.551	999	1884	55	1.8
50378.8	11010	41.6335	93.6804	-892	CULTRL	1.3	999	3.3	999	0.9	999	0.390	999	1.393	999	3.572	999	1854	58	1.8
50378.7	11000	41.6335	93.6796	-890	CULTRL	1.8	999	3.3	999	1.0	999	0.523	999	1.753	999	3.351	999	1864	47	1.8
50378.6	11000	41.6335	93.6788	-890	CULTRL	2.1	999	3.0	999	1.0	999	0.673	999	2.040	999	3.031	999	1852	46	1.8
50378.5	11000	41.6335	93.6780	-892	CULTRL	1.9	999	3.5	999	0.9	999	0.524	999	2.128	999	4.060	999	1838	47	1.8
50378.4	11000	41.6335	93.6771	-893	CULTRL	2.2	999	3.8	999	0.9	999	0.566	999	2.461	999	4.350	999	1874	52	1.8
50378.3	11000	41.6336	93.6763	-895	CULTRL	2.1	999	3.8	999	0.8	999	0.561	999	2.770	999	4.936	999	1830	46	1.9
50378.2	11000	41.6336	93.6755	-897	CULTRL	2.1	999	4.1	999	0.7	999	0.505	999	2.966	999	5.870	999	1847	42	1.9
50378.1	11000	41.6336	93.6747	-898	CULTRL	2.3	999	4.3	999	0.7	999	0.540	999	3.249	999	6.018	999	1874	47	1.9
50378.0	11000	41.6336	93.6738	-899	CULTRL	1.8	999	4.2	999	0.7	999	0.440	999	2.494	999	5.674	999	1862	31	1.9
50377.9	11000	41.6336	93.6730	-899	CULTRL	2.2	999	3.9	999	0.8	999	0.564	999	2.619	999	4.545	999	1914	45	1.9
50377.8	11000	41.6336	93.6722	-899	CULTRL	2.3	999	3.4	999	1.0	999	0.684	999	2.341	999	3.423	999	1918	47	1.9
50377.7	11000	41.6337	93.6714	-899	CULTRL	2.5	999	3.7	999	1.0	999	0.690	999	2.441	999	3.539	999	1914	50	1.9
50377.6	11000	41.6337	93.6705	-899	CULTRL	2.7	999	3.7	999	1.1	999	0.736	999	2.457	999	3.338	999	1942	59	1.9
50377.5	11000	41.6337	93.6697	-899	CULTRL	2.7	999	3.8	999	1.1	999	0.702	999	2.479	999	3.533	999	1932	56	1.9
50377.4	11000	41.6337	93.6689	-899	CULTRL	2.2	999	4.5	999	1.0	999	0.502	999	2.340	999	4.657	999	1892	45	1.9
50377.3	11000	41.6337	93.6680	-899	CULTRL	1.9	999	5.0	999	0.9	999	0.382	999	2.043	999	5.348	999	1887	45	1.9
50377.2	11010	41.6337	93.6672	-900	CULTRL	1.4	999	5.7	999	0.9	999	0.252	999	1.546	999	6.139	999	1866	53	1.9
50377.1	11010	41.6338	93.6664	-900	CULTRL	1.0	999	6.2	999	0.9	999	0.156	999	1.033	999	6.631	999	1849	46	1.9
50377.0	11010	41.6338	93.6656	-900	CULTRL	0.4	999	6.3	999	0.9	999	0.064	999	0.426	999	6.625	999	1831	50	1.9
50376.9	11010	41.6338	93.6647	-900	CULTRL	0.1	999	6.2	999	1.0	999	0.014	999	0.085	999	6.169	999	1827	48	1.9
50376.8	11010	41.6338	93.6639	-900	CULTRL	0.1	999	5.6	999	1.1	999	0.009	999	0.047	999	5.091	999	1839	47	1.9
50376.7	11010	41.6338	93.6631	-899	CULTRL	0.4	999	5.4	999	1.2	999	0.072	999	0.325	999	4.529	999	1842	41	1.9
50376.6	11010	41.6338	93.6623	-899	CULTRL	0.7	999	5.5	999	1.2	999	0.129	999	0.599	999	4.630	999	1848	34	1.9
50376.5	11010	41.6339	93.6614	-899	CULTRL	1.0	999	4.9	999	1.1	999	0.213	999	0.907	999	4.252	999	1856	53	1.9
50376.4	11010	41.6339	93.6606	-899	CULTRL	1.2	999	4.9	999	1.2	999	0.257	999	1.061	999	4.120	999	1872	51	1.9
50376.3	11010	41.6339	93.6598	-900	CULTRL	1.4	999	4.4	999	1.2	999	0.314	999	1.181	999	3.759	999	1883	38	1.9
50376.2	11010	41.6339	93.6590	-900	CULTRL	1.6	999	4.6	999	1.1	999	0.351	999	1.503	999	4.287	999	1891	54	1.9
50376.1	11010	41.6339	93.6581	-901	CULTRL	1.5	999	4.9	999	1.1	999	0.309	999	1.400	999	4.534	999	1888	52	1.9
50376.0	11010	41.6339	93.6573	-901	CULTRL	1.5	999	4.8	999	1.1	999	0.307	999	1.366	999	4.444	999	1916	54	2.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50375.9	11010	41.6340	93.6565	-901	CULTRL	1.6	999	4.2	999	1.0	999	0.388	999	1.577	999	4.066	999	1925	51	2.0
50375.8	11010	41.6340	93.6557	-902	CULTRL	1.4	999	4.3	999	1.0	999	0.336	999	1.428	999	4.247	999	1932	45	2.0
50375.7	11000	41.6340	93.6548	-902	CULTRL	2.0	999	4.2	999	1.0	999	0.466	999	1.951	999	4.184	999	1935	51	2.0
50375.6	11000	41.6340	93.6540	-902	CULTRL	2.3	999	4.6	999	1.0	999	0.512	999	2.355	999	4.601	999	1953	43	2.0
50375.5	11000	41.6340	93.6532	-902	CULTRL	2.6	999	4.3	999	0.9	999	0.591	999	2.715	999	4.595	999	1959	48	2.0
50375.4	11000	41.6340	93.6524	-902	CULTRL	2.5	999	4.9	999	0.9	999	0.516	999	2.877	999	5.577	999	1982	53	2.0
50375.3	11000	41.6341	93.6515	-902	CULTRL	3.3	999	4.4	999	0.8	999	0.745	999	3.912	999	5.249	999	2003	47	2.0
50375.2	11000	41.6341	93.6507	-902	CULTRL	3.0	999	5.0	999	0.9	999	0.606	999	3.539	999	5.835	999	2051	47	2.0
50375.1	11000	41.6341	93.6499	-903	CULTRL	3.3	999	5.3	999	1.0	999	0.618	999	3.404	999	5.505	999	2117	44	2.0
50375.0	11000	41.6341	93.6491	-904	QO	2.7	1	5.7	0	1.0	0	0.475	1	2.852	1	6.007	1	2156	45	2.0
50374.9	11000	41.6341	93.6482	-906	QO	2.4	1	6.4	1	1.0	-1	0.378	0	2.553	1	6.750	2	2208	41	2.0
50374.8	11010	41.6341	93.6474	-906	QO	2.3	0	6.3	1	1.1	0	0.358	0	2.074	0	5.798	1	2262	52	2.0
50374.7	11000	41.6342	93.6466	-907	QO	3.1	2	5.9	0	1.1	0	0.522	1	2.878	1	5.513	0	2305	47	2.0
50374.6	11000	41.6342	93.6458	-908	QO	2.5	1	7.5	2	1.1	1	0.337	0	2.250	0	6.673	2	2349	46	2.0
50374.5	11000	41.6342	93.6449	-908	QO	3.1	2	7.7	2	1.2	1	0.400	0	2.529	1	6.324	1	2349	43	2.0
50374.4	11000	41.6342	93.6441	-908	QO	2.9	2	7.3	2	1.1	0	0.395	0	2.654	1	6.712	2	2334	56	2.0
50374.3	11000	41.6342	93.6433	-908	QO	3.0	2	6.5	1	1.0	0	0.457	1	2.994	1	6.558	1	2327	53	2.0
50374.2	11000	41.6342	93.6425	-907	QO	2.8	1	5.3	0	1.0	0	0.518	1	2.708	1	5.232	0	2264	51	1.9
50374.1	11000	41.6343	93.6416	-907	QO	2.8	1	5.5	0	1.0	0	0.504	1	2.763	1	5.480	0	2224	41	1.9
50374.0	11000	41.6343	93.6408	-907	QO	2.8	1	5.6	0	1.0	0	0.494	1	2.730	1	5.531	0	2210	46	1.9
50373.9	11010	41.6343	93.6400	-907	QO	2.1	0	4.4	-1	0.9	-1	0.485	1	2.264	0	4.671	-1	2197	43	1.9
50373.8	11010	41.6343	93.6392	-906	QO	2.2	0	4.8	-1	0.9	-1	0.466	1	2.601	1	5.581	0	2209	58	1.9
50373.7	11010	41.6343	93.6383	-905	QO	1.5	-1	4.9	0	0.9	-1	0.315	-1	1.640	-1	5.213	0	2181	49	1.9
50373.6	11010	41.6343	93.6375	-904	QO	1.4	-1	4.9	-1	0.9	-1	0.287	-1	1.551	-1	5.325	0	2179	39	1.9
50373.5	11010	41.6344	93.6367	-902	QO	1.4	-1	4.9	0	0.9	-1	0.285	-1	1.596	-1	5.596	0	2179	51	1.9
50373.4	11010	41.6344	93.6358	-901	CULTRL	1.3	999	4.9	999	0.8	999	0.275	999	1.707	999	6.209	999	2160	52	1.9
50373.3	11010	41.6344	93.6350	-901	CULTRL	1.3	999	5.0	999	0.8	999	0.269	999	1.673	999	6.212	999	2128	48	1.9
50373.2	11010	41.6344	93.6342	-901	CULTRL	1.5	999	4.8	999	0.7	999	0.301	999	2.057	999	6.834	999	2077	49	1.9
50373.1	11010	41.6344	93.6334	-902	CULTRL	0.8	999	4.4	999	0.7	999	0.178	999	1.073	999	6.014	999	2027	50	1.9
50373.0	11010	41.6344	93.6326	-902	CULTRL	1.1	999	5.5	999	0.7	999	0.206	999	1.601	999	7.783	999	2016	50	1.9
50372.9	11010	41.6345	93.6317	-902	CULTRL	1.4	999	5.0	999	0.8	999	0.271	999	1.693	999	6.258	999	1991	56	1.9
50372.8	11010	41.6345	93.6309	-902	CULTRL	1.6	999	5.8	999	0.7	999	0.279	999	2.407	999	8.640	999	1998	52	1.9
50372.7	11010	41.6345	93.6301	-901	CULTRL	1.8	999	5.4	999	0.8	999	0.331	999	2.360	999	7.138	999	2021	46	1.9
50372.6	11010	41.6345	93.6292	-901	CULTRL	1.6	999	5.4	999	0.8	999	0.302	999	2.048	999	6.770	999	2059	53	1.9
50372.5	11010	41.6345	93.6284	-901	CULTRL	2.0	999	5.3	999	0.8	999	0.387	999	2.416	999	6.248	999	2063	41	1.9
50372.4	11010	41.6345	93.6276	-901	CULTRL	2.2	999	4.9	999	0.9	999	0.440	999	2.372	999	5.397	999	2075	54	1.9
50372.3	11000	41.6346	93.6268	-901	CULTRL	2.7	999	4.2	999	0.8	999	0.647	999	3.203	999	4.954	999	2054	52	1.9
50372.2	11000	41.6346	93.6259	-901	CULTRL	2.7	999	5.3	999	0.8	999	0.512	999	3.426	999	6.696	999	2049	43	1.9
50372.1	11000	41.6346	93.6251	-901	CULTRL	2.9	999	4.9	999	0.9	999	0.594	999	3.152	999	5.302	999	2062	52	1.9
50372.0	11000	41.6346	93.6243	-900	CULTRL	3.2	999	5.5	999	0.8	999	0.579	999	4.030	999	6.958	999	2059	45	1.9
50371.9	11000	41.6346	93.6235	-900	CULTRL	3.3	999	5.4	999	0.6	999	0.613	999	5.105	999	8.335	999	2025	50	1.8
50371.8	11000	41.6346	93.6226	-900	CULTRL	3.5	999	5.4	999	0.7	999	0.649	999	5.328	999	8.206	999	2047	49	1.8
50371.7	11000	41.6347	93.6218	-900	CULTRL	4.1	999	4.9	999	0.6	999	0.843	999	7.410	999	8.787	999	2075	58	1.8
50371.6	11000	41.6347	93.6210	-900	CULTRL	3.6	999	4.7	999	0.7	999	0.763	999	5.399	999	7.079	999	2100	56	1.8
50371.5	11000	41.6347	93.6202	-900	CULTRL	4.3	999	4.1	999	0.7	999	1.057	999	6.525	999	6.175	999	2127	43	1.8
50371.4	11000	41.6347	93.6193	-899	CULTRL	4.0	999	3.9	999	0.6	999	1.029	999	6.582	999	6.398	999	2107	45	1.8
50371.3	11000	41.6347	93.6185	-900	CULTRL	3.5	999	4.1	999	0.7	999	0.864	999	4.954	999	5.736	999	2101	55	1.8
50371.2	11000	41.6347	93.6177	-900	CULTRL	2.8	999	3.7	999	0.7	999	0.758	999	3.832	999	5.053	999	2106	42	1.8
50371.1	11010	41.6348	93.6169	-900	CULTRL	2.5	999	3.8	999	0.8	999	0.656	999	3.085	999	4.705	999	2095	37	1.8
50371.0	11010	41.6348	93.6160	-901	CULTRL	2.0	999	4.2	999	1.0	999	0.477	999	1.948	999	4.079	999	2073	55	1.8
50370.9	11010	41.6348	93.6152	-901	CULTRL	2.6	999	4.4	999	0.9	999	0.587	999	3.037	999	5.173	999	2063	43	1.8
50370.8	11010	41.6348	93.6144	-901	CULTRL	2.3	999	4.3	999	0.8	999	0.523	999	2.818	999	5.389	999	2057	52	1.8

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50370.7	11010	41.6348	93.6136	-902	CULTRL	2.0	999	4.1	999	0.8	999	0.488	999	2.567	999	5.263	999	2069	64	1.8
50370.6	11010	41.6348	93.6127	-902	CULTRL	2.2	999	3.4	999	0.8	999	0.661	999	2.631	999	3.980	999	2083	46	1.8
50370.5	11000	41.6349	93.6119	-902	CULTRL	3.0	999	3.1	999	0.9	999	0.941	999	3.274	999	3.478	999	2084	43	1.7
50370.4	11010	41.6349	93.6111	-903	CULTRL	2.7	999	3.3	999	1.0	999	0.829	999	2.822	999	3.402	999	2095	51	1.7
50370.3	11000	41.6349	93.6103	-903	CULTRL	3.3	999	3.1	999	0.8	999	1.060	999	4.305	999	4.062	999	2091	56	1.7
50370.2	11001	41.6349	93.6094	-903	CULTRL	3.0	999	2.6	999	0.8	999	1.148	999	3.717	999	0.000	999	2090	49	1.7
50370.1	11001	41.6349	93.6086	-903	CULTRL	3.6	999	2.6	999	0.7	999	1.416	999	4.948	999	0.000	999	2071	59	1.7
50370.0	11001	41.6349	93.6078	-903	CULTRL	4.0	999	2.6	999	0.7	999	1.530	999	6.061	999	0.000	999	2075	45	1.7
50369.9	11100	41.6349	93.6069	-903	CULTRL	4.5	999	3.3	999	0.6	999	1.383	999	7.685	999	0.000	999	2020	47	1.7
50369.8	11100	41.6350	93.6061	-903	CULTRL	4.2	999	3.5	999	0.5	999	1.183	999	7.665	999	0.000	999	1995	55	1.7
50369.7	11100	41.6350	93.6053	-904	CULTRL	4.1	999	3.0	999	0.5	999	1.361	999	8.478	999	0.000	999	1981	47	1.7
50369.6	11101	41.6350	93.6045	-904	CULTRL	4.6	999	2.8	999	0.5	999	1.607	999	9.086	999	0.000	999	1942	45	1.7
50369.5	11100	41.6350	93.6037	-904	CULTRL	4.0	999	3.2	999	0.5	999	1.266	999	7.757	999	0.000	999	1945	38	1.7
50369.4	11000	41.6350	93.6028	-904	CULTRL	3.0	999	3.3	999	0.6	999	0.918	999	4.882	999	5.319	999	1957	52	1.7
50369.3	11000	41.6351	93.6020	-903	CULTRL	2.9	999	3.4	999	0.7	999	0.867	999	3.984	999	4.597	999	1950	60	1.7
50369.2	11010	41.6351	93.6012	-903	CULTRL	2.1	999	3.5	999	0.7	999	0.599	999	2.861	999	4.778	999	1969	43	1.7
50369.1	11010	41.6351	93.6004	-902	CULTRL	2.2	999	3.7	999	0.8	999	0.592	999	2.567	999	4.334	999	1995	40	1.7
50369.0	11010	41.6351	93.5995	-900	CULTRL	2.0	999	3.3	999	0.8	999	0.603	999	2.476	999	4.108	999	2006	43	1.7
50368.9	11010	41.6351	93.5987	-899	CULTRL	2.3	999	4.0	999	0.7	999	0.562	999	3.103	999	5.525	999	2033	60	1.7
50368.8	11000	41.6351	93.5979	-898	CULTRL	2.9	999	3.8	999	0.7	999	0.755	999	4.110	999	5.441	999	2015	53	1.7
50368.7	11010	41.6351	93.5970	-897	CULTRL	2.8	999	4.0	999	0.7	999	0.692	999	3.722	999	5.381	999	2025	41	1.7
50368.6	11000	41.6352	93.5962	-897	CULTRL	3.4	999	3.7	999	0.7	999	0.924	999	5.079	999	5.499	999	1998	48	1.7
50368.5	11000	41.6352	93.5954	-897	CULTRL	4.2	999	3.2	999	0.7	999	1.341	999	5.657	999	4.217	999	1999	55	1.7
50368.4	11100	41.6352	93.5946	-897	CULTRL	4.5	999	3.4	999	0.6	999	1.345	999	7.583	999	0.000	999	1996	49	1.7
50368.3	11100	41.6352	93.5938	-897	CULTRL	5.1	999	3.4	999	0.5	999	1.526	999	9.572	999	0.000	999	1959	46	1.7
50368.2	11001	41.6352	93.5929	-896	CULTRL	4.7	999	2.8	999	0.7	999	1.684	999	7.128	999	0.000	999	1971	48	1.6
50368.1	11001	41.6352	93.5921	-896	CULTRL	4.9	999	2.2	999	0.9	999	2.209	999	5.471	999	0.000	999	1989	53	1.6
50368.0	11001	41.6353	93.5913	-895	CULTRL	5.3	999	2.8	999	0.8	999	1.[illegible]	999	6.911	999	0.000	999	1960	44	1.6
50367.9	11000	41.6353	93.5904	-895	CULTRL	4.9	999	3.2	999	0.9	999	1.525	999	5.398	999	3.540	999	1989	42	1.6
50367.8	11000	41.6353	93.5896	-894	CULTRL	4.6	999	3.0	999	0.8	999	1.541	999	5.422	999	3.517	999	2001	45	1.6
50367.7	11001	41.6353	93.5888	-894	CULTRL	4.4	999	2.1	999	1.0	999	2.062	999	4.591	999	0.000	999	1980	61	1.6
50367.6	11001	41.6353	93.5880	-893	CULTRL	4.5	999	2.7	999	1.0	999	1.674	999	4.586	999	0.000	999	2005	55	1.6
50367.5	11000	41.6353	93.5871	-893	CULTRL	3.4	999	2.9	999	0.9	999	1.182	999	3.773	999	3.192	999	1962	58	1.6
50367.4	11000	41.6354	93.5863	-893	CULTRL	3.1	999	3.1	999	0.7	999	0.998	999	4.421	999	4.429	999	1957	40	1.6
50367.3	11011	41.6354	93.5855	-893	CULTRL	2.6	999	2.5	999	0.8	999	1.064	999	3.287	999	0.000	999	1971	48	1.6
50367.2	11001	41.6354	93.5847	-895	CULTRL	2.9	999	2.2	999	0.7	999	1.323	999	3.893	999	0.000	999	1969	51	1.6
50367.1	11010	41.6354	93.5838	-897	CULTRL	2.6	999	2.9	999	0.7	999	0.870	999	3.629	999	4.173	999	1971	45	1.6
50367.0	11000	41.6354	93.5830	-893	CULTRL	2.8	999	3.3	999	0.6	999	0.850	999	4.641	999	5.459	999	2000	39	1.6
50366.9	11010	41.6354	93.5822	-900	CULTRL	2.3	999	3.2	999	0.7	999	0.716	999	3.059	999	4.270	999	2005	45	1.6
50366.8	11010	41.6355	93.5814	-900	CULTRL	2.7	999	3.6	999	0.8	999	0.761	999	3.188	999	4.191	999	2071	56	1.6
50366.7	11010	41.6355	93.5805	-900	CULTRL	2.6	999	3.8	999	0.9	999	0.681	999	2.814	999	4.130	999	2090	54	1.6
50366.6	11000	41.6355	93.5797	-899	CULTRL	3.5	999	3.8	999	1.1	999	0.915	999	3.192	999	3.487	999	2125	39	1.6
50366.5	11000	41.6355	93.5789	-898	CULTRL	3.4	999	4.5	999	1.0	999	0.750	999	3.382	999	4.508	999	2115	35	1.6
50366.4	11000	41.6355	93.5781	-898	CULTRL	3.8	999	5.0	999	1.0	999	0.752	999	3.791	999	5.043	999	2119	49	1.6
50366.3	11000	41.6355	93.5772	-898	CULTRL	3.5	999	5.4	999	1.2	999	0.644	999	2.984	999	4.632	999	2091	45	1.7
50366.2	11000	41.6355	93.5764	-899	CULTRL	4.0	999	5.4	999	1.1	999	0.742	999	3.713	999	5.003	999	2097	40	1.7
50366.1	11000	41.6356	93.5756	-899	CULTRL	4.1	999	5.2	999	1.0	999	0.778	999	4.169	999	5.363	999	2057	49	1.7
50366.0	11000	41.6356	93.5748	-899	CULTRL	4.5	999	5.9	999	1.0	999	0.771	999	4.569	999	5.929	999	2051	48	1.7
50365.9	11000	41.6356	93.5739	-900	CULTRL	4.3	999	5.6	999	0.9	999	0.749	999	4.833	999	6.450	999	2034	51	1.7
50365.8	11000	41.6356	93.5731	-899	CULTRL	3.9	999	5.9	999	0.9	999	0.668	999	4.247	999	6.358	999	2014	50	1.7
50365.7	11000	41.6356	93.5723	-899	CULTRL	4.0	999	5.2	999	1.0	999	0.768	999	3.856	999	5.019	999	2008	55	1.7
50365.6	11000	41.6356	93.5715	-898	CULTRL	4.1	999	5.0	999	0.9	999	0.816	999	4.537	999	5.559	999	2008	48	1.7

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50365.5	11000	41.6356	93.5708	-897	CULTRL	3.8	999	5.4	999	0.9	999	0.704	999	4.230	999	6.006	999	1985	50	1.7
50365.4	11000	41.6356	93.5701	-896	CULTRL	3.9	999	5.7	999	1.0	999	0.681	999	3.792	999	5.567	999	1978	49	1.7
50365.3	11000	41.6356	93.5694	-895	CULTRL	3.1	999	5.6	999	0.9	999	0.563	999	3.485	999	6.190	999	1965	41	1.7
50365.2	11000	41.6356	93.5687	-895	CULTRL	2.4	999	6.4	999	1.0	999	0.379	999	2.456	999	6.481	999	1964	58	1.7
50365.1	11000	41.6356	93.5680	-895	CULTRL	2.4	999	5.8	999	0.9	999	0.415	999	2.526	999	6.087	999	1976	62	1.7
50365.0	11000	41.6356	93.5673	-895	CULTRL	2.4	999	6.4	999	0.8	999	0.377	999	2.963	999	7.870	999	1975	55	1.7
50364.9	11010	41.6356	93.5666	-895	CULTRL	1.8	999	6.0	999	0.9	999	0.295	999	1.913	999	6.489	999	2000	56	1.7
50364.8	11010	41.6356	93.5659	-896	CULTRL	1.6	999	6.1	999	1.0	999	0.263	999	1.626	999	6.178	999	2020	55	1.7
50364.7	11010	41.6355	93.5652	-896	CULTRL	1.3	999	6.2	999	1.0	999	0.219	999	1.418	999	6.482	999	2057	53	1.7
50364.6	11010	41.6355	93.5645	-896	CULTRL	1.5	999	5.4	999	1.2	999	0.269	999	1.197	999	4.456	999	2052	43	1.7
50364.5	11010	41.6355	93.5638	-897	CULTRL	1.7	999	4.7	999	1.1	999	0.369	999	1.561	999	4.230	999	2051	51	1.7
50364.4	11000	41.6355	93.5631	-897	CULTRL	2.6	999	4.2	999	1.1	999	0.601	999	2.349	999	3.910	999	2057	63	1.7
50364.3	11010	41.6355	93.5624	-897	CULTRL	1.9	999	3.6	999	1.1	999	0.529	999	1.689	999	3.190	999	2068	46	1.8
50364.2	11000	41.6355	93.5617	-897	CULTRL	2.5	999	4.2	999	1.1	999	0.595	999	2.243	999	3.770	999	2054	44	1.8
50364.1	11000	41.6355	93.5610	-897	CULTRL	2.6	999	4.0	999	1.0	999	0.658	999	2.584	999	3.928	999	2039	41	1.8
50364.0	11000	41.6355	93.5603	-897	CULTRL	3.0	999	3.9	999	1.0	999	0.766	999	2.861	999	3.733	999	2019	54	1.8
50363.9	11000	41.6355	93.5596	-897	CULTRL	3.6	999	4.5	999	0.9	999	0.790	999	4.153	999	5.259	999	2015	45	1.8
50363.8	11000	41.6354	93.5589	-897	CULTRL	3.8	999	4.5	999	0.8	999	0.863	999	4.883	999	5.655	999	2012	38	1.8
50363.7	11000	41.6354	93.5582	-897	CULTRL	3.8	999	4.5	999	0.9	999	0.854	999	4.054	999	4.748	999	2006	58	1.8
50363.6	11000	41.6354	93.5575	-898	CULTRL	4.1	999	4.2	999	0.9	999	0.976	999	4.473	999	4.585	999	1999	55	1.8
50363.5	11000	41.6354	93.5568	-898	CULTRL	4.3	999	3.6	999	0.9	999	1.221	999	4.751	999	3.891	999	2029	44	1.8
50363.4	11000	41.6354	93.5561	-898	CULTRL	4.6	999	3.3	999	1.0	999	1.384	999	4.563	999	3.298	999	2061	55	1.8
50363.3	11000	41.6354	93.5554	-898	CULTRL	4.0	999	3.7	999	1.0	999	1.072	999	4.143	999	3.865	999	2071	45	1.8
50363.2	11000	41.6354	93.5547	-898	CULTRL	3.1	999	3.2	999	0.9	999	0.964	999	3.340	999	3.465	999	2108	44	1.8
50363.1	11010	41.6354	93.5540	-899	CULTRL	2.6	999	3.7	999	1.0	999	0.701	999	2.546	999	3.633	999	2135	50	1.8
50363.0	11010	41.6354	93.5533	-899	CULTRL	2.0	999	5.3	999	0.9	999	0.377	999	2.334	999	6.198	999	2154	37	1.8
50362.9	11010	41.6353	93.5527	-899	CULTRL	2.6	999	5.7	999	1.0	999	0.451	999	2.641	999	5.860	999	2175	42	1.8
50362.8	11010	41.6353	93.5520	-899	CULTRL	1.[illegible]	999	5.7	999	1.1	999	0.297	999	1.566	999	5.269	999	2155	50	1.8
50362.7	11010	41.6353	93.5513	-899	CULTRL	1.[illegible]	999	5.9	999	1.0	999	0.203	999	1.155	999	5.683	999	2163	40	1.9
50362.6	11010	41.6353	93.5506	-900	CULTRL	1.6	999	5.9	999	1.1	999	0.265	999	1.428	999	5.388	999	2181	40	1.9
50362.5	11010	41.6353	93.5499	-900	CULTRL	1.8	999	6.5	999	1.1	999	0.273	999	1.590	999	5.823	999	2191	65	1.9
50362.4	11000	41.6353	93.5492	-900	CULTRL	3.1	999	5.7	999	1.1	999	0.543	999	2.719	999	5.009	999	2202	42	1.9
50362.3	11010	41.6353	93.5485	-900	CULTRL	2.4	999	4.8	999	1.3	999	0.508	999	1.895	999	3.728	999	2208	52	1.9
50362.2	11010	41.6352	93.5478	-900	CULTRL	1.5	999	4.5	999	1.3	999	0.341	999	1.188	999	3.483	999	2228	45	1.9
50362.1	11010	41.6352	93.5471	-900	CULTRL	2.1	999	5.1	999	1.0	999	0.411	999	2.008	999	4.880	999	2237	65	1.9
50362.0	11010	41.6352	93.5464	-901	CULTRL	2.2	999	5.3	999	1.3	999	0.414	999	1.718	999	4.150	999	2262	40	1.9
50361.9	11010	41.6352	93.5457	-901	CULTRL	1.9	999	5.1	999	1.3	999	0.368	999	1.474	999	4.003	999	2257	48	1.9
50361.8	11010	41.6352	93.5450	-901	CULTRL	1.6	999	5.0	999	1.3	999	0.316	999	1.210	999	3.834	999	2247	36	1.9
50361.7	11010	41.6352	93.5443	-902	CULTRL	0.6	999	5.4	999	1.3	999	0.117	999	0.475	999	4.060	999	2202	48	1.9
50361.6	11010	41.6352	93.5436	-902	CULTRL	1.4	999	5.4	999	1.3	999	0.255	999	1.071	999	4.197	999	2199	46	1.9
50361.5	11010	41.6352	93.5429	-903	CULTRL	1.9	999	5.6	999	1.1	999	0.334	999	1.649	999	4.936	999	2157	56	1.9
50361.4	11010	41.6352	93.5422	-903	CULTRL	2.4	999	5.8	999	1.2	999	0.414	999	2.002	999	4.831	999	2131	59	1.9
50361.3	11010	41.6351	93.5415	-904	CULTRL	2.4	999	5.4	999	1.0	999	0.442	999	2.315	999	5.242	999	2087	47	1.9
50361.2	11000	41.6351	93.5408	-904	CULTRL	2.4	999	5.[illegible]	999	1.2	999	0.412	999	2.054	999	4.988	999	2082	48	1.9
50361.1	11000	41.6351	93.5401	-904	CULTRL	2.5	999	5.6	999	1.2	999	0.445	999	2.027	999	4.557	999	2054	45	1.9
50361.0	11000	41.6351	93.5394	-904	CULTRL	2.9	999	6.3	999	1.2	999	0.457	999	2.448	999	5.352	999	2048	55	1.9
50360.9	11000	41.6351	93.5387	-904	CULTRL	3.0	999	6.4	999	1.1	999	0.472	999	2.743	999	5.807	999	2021	49	1.9
50360.8	11000	41.6351	93.5380	-904	CULTRL	3.8	999	6.2	999	1.1	999	0.605	999	3.412	999	5.642	999	2007	46	1.9
50360.7	11000	41.6351	93.5373	-904	CULTRL	3.2	999	6.2	999	1.1	999	0.522	999	3.043	999	5.836	999	2009	49	1.9
50360.6	11000	41.6351	93.5366	-905	CULTRL	3.3	999	6.3	999	0.9	999	0.531	999	3.518	999	6.624	999	1987	46	1.9
50360.5	11000	41.6351	93.5359	-905	CULTRL	3.4	999	5.9	999	0.7	999	0.580	999	4.720	999	8.133	999	1963	53	1.9
50360.4	11000	41.6350	93.5352	-905	CULTRL	3.9	999	5.9	999	0.7	999	0.665	999	5.925	999	8.909	999	1958	49	1.9

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50360.3	11000	41.6350	93.5345	-905	CULTRL	3.9	999	5.2	999	0.7	999	0.753	999	5.706	999	7.578	999	1963	51	1.9
50360.2	11000	41.6350	93.5338	-905	CULTRL	3.7	999	5.3	999	0.7	999	0.694	999	5.605	999	8.078	999	1931	40	1.9
50360.1	11000	41.6350	93.5332	-905	CULTRL	2.7	999	5.2	999	0.7	999	0.526	999	3.669	999	6.980	999	1908	51	1.9
50360.0	11000	41.6350	93.5325	-905	CULTRL	2.3	999	5.2	999	0.9	999	0.445	999	2.716	999	6.102	999	1869	44	1.9
50359.9	11000	41.6350	93.5318	-904	CULTRL	2.2	999	5.1	999	1.0	999	0.428	999	2.272	999	5.310	999	1859	41	1.9
50359.8	11000	41.6350	93.5311	-904	CULTRL	2.1	999	5.0	999	1.0	999	0.408	999	1.975	999	4.838	999	1828	39	1.9
50359.7	11000	41.6350	93.5304	-904	CULTRL	1.7	999	4.9	999	1.0	999	0.344	999	1.622	999	4.716	999	1818	48	1.9
50359.6	11000	41.6349	93.5297	-904	CULTRL	1.7	999	5.1	999	1.1	999	0.326	999	1.549	999	4.752	999	1799	46	1.9
50359.5	11000	41.6349	93.5290	-904	CULTRL	1.4	999	4.9	999	1.2	999	0.288	999	1.216	999	4.221	999	1796	44	1.9
50359.4	11010	41.6349	93.5283	-904	CULTRL	1.2	999	5.1	999	1.1	999	0.231	999	1.064	999	4.610	999	1775	50	1.9
50359.3	11000	41.6349	93.5276	-904	CULTRL	1.7	999	4.6	999	1.0	999	0.362	999	1.670	999	4.617	999	1778	48	1.9
50359.2	11000	41.6349	93.5269	-905	CULTRL	1.9	999	4.8	999	0.9	999	0.401	999	2.130	999	5.316	999	1767	47	1.9
50359.1	11000	41.6349	93.5262	-905	CULTRL	2.2	999	4.3	999	0.9	999	0.510	999	2.450	999	4.799	999	1776	41	1.9
50359.0	11000	41.6349	93.5255	-905	CULTRL	2.3	999	4.3	999	0.9	999	0.534	999	2.565	999	4.802	999	1765	50	1.9
50358.9	11000	41.6349	93.5248	-905	CULTRL	2.2	999	4.1	999	0.8	999	0.547	999	2.909	999	5.318	999	1741	47	1.9
50358.8	11000	41.6348	93.5241	-905	CULTRL	2.1	999	4.1	999	0.8	999	0.515	999	2.775	999	5.392	999	1739	41	1.9
50358.7	10000	41.6348	93.5234	-905	CULTRL	2.3	999	4.1	999	0.8	999	0.563	999	2.964	999	5.083	999	1768	47	1.9
50358.6	10000	41.6348	93.5227	-906	CULTRL	2.0	999	4.6	999	0.9	999	0.436	999	2.339	999	5.366	999	1764	39	1.9
50358.5	10000	41.6348	93.5220	-906	CULTRL	2.1	999	4.5	999	1.0	999	0.465	999	2.148	999	4.617	999	1764	39	1.9
50358.4	10000	41.6348	93.5213	-907	CULTRL	2.1	999	4.9	999	0.9	999	0.433	999	2.308	999	5.327	999	1766	51	1.9
50358.3	10000	41.6348	93.5206	-907	CULTRL	2.2	999	4.9	999	0.9	999	0.458	999	2.448	999	5.347	999	1764	42	1.9
50358.2	10000	41.6348	93.5199	-907	CULTRL	2.3	999	4.9	999	1.0	999	0.474	999	2.356	999	4.975	999	1770	44	1.9
50358.1	10000	41.6348	93.5192	-908	CULTRL	2.6	999	4.8	999	1.0	999	0.536	999	2.664	999	4.969	999	1772	48	1.9
50358.0	10000	41.6348	93.5185	-908	CULTRL	2.6	999	4.8	999	0.9	999	0.541	999	2.832	999	5.234	999	1744	44	1.9
50357.9	10000	41.6347	93.5178	-908	CULTRL	2.9	999	4.7	999	0.9	999	0.619	999	3.236	999	5.232	999	1759	54	1.9
50357.8	10000	41.6347	93.5171	-909	CULTRL	2.9	999	4.6	999	0.9	999	0.622	999	3.311	999	5.320	999	1757	51	1.9
50357.7	10000	41.6347	93.5164	-908	CULTRL	2.8	999	4.5	999	0.9	999	0.637	999	3.072	999	4.821	999	1749	37	1.9
50357.6	10000	41.6347	93.5157	-909	QW	2.8	2	4.5	1	1.0	-1	0.627	3	2.984	2	4.761	-1	1760	41	1.8
50357.5	10000	41.6347	93.5150	-909	QW	2.7	2	5.1	1	1.0	-1	0.533	2	2.724	2	5.108	0	1769	47	1.8
50357.4	10000	41.6347	93.5144	-909	QW	2.7	2	4.9	1	1.0	-1	0.548	2	2.721	2	4.969	0	1769	34	1.8
50357.3	10000	41.6347	93.5137	-909	QW	2.6	2	4.9	1	1.0	-1	0.529	2	2.567	2	4.849	-1	1803	41	1.8
50357.2	10000	41.6347	93.5130	-910	QW	2.6	2	5.0	1	1.0	-1	0.527	2	2.574	2	4.885	0	1815	49	1.8
50357.1	10000	41.6347	93.5123	-910	QW	2.7	2	5.4	1	1.1	0	0.504	2	2.541	2	5.038	0	1838	56	1.8
50357.0	10000	41.6346	93.5116	-911	QW	2.5	1	5.7	1	1.1	1	0.442	1	2.309	1	5.229	0	1846	44	1.8
50356.9	10000	41.6346	93.5109	-911	QW	2.3	1	5.8	1	1.1	1	0.392	1	2.046	1	5.224	0	1858	46	1.8
50356.8	10000	41.6346	93.5102	-911	QW	2.4	1	6.0	1	1.2	1	0.395	1	1.975	1	4.996	0	1890	47	1.8
50356.7	10000	41.6346	93.5095	-911	QW	2.3	1	6.3	1	1.2	1	0.368	1	1.904	1	5.168	0	1898	44	1.8
50356.6	10000	41.6346	93.5088	-911	QW	2.3	1	6.4	1	1.2	1	0.367	1	1.894	1	5.156	0	1876	42	1.8
50356.5	10000	41.6346	93.5081	-911	QW	1.9	1	6.5	1	1.3	1	0.294	-1	1.518	-1	5.157	0	1860	37	1.8
50356.4	10000	41.6346	93.5074	-911	QW	1.7	-1	6.5	1	1.3	1	0.254	-1	1.328	-1	5.227	0	1838	48	1.8
50356.3	10000	41.6345	93.5067	-912	QW	1.5	-1	6.4	1	1.3	1	0.239	-1	1.208	-1	5.066	0	1835	43	1.8
50356.2	10000	41.6345	93.5060	-911	QW	1.6	-1	6.4	1	1.3	1	0.247	-1	1.300	-1	5.264	0	1822	56	1.8
50356.1	10000	41.6345	93.5053	-912	QW	1.6	-1	6.5	1	1.2	1	0.250	-1	1.385	-1	5.541	0	1793	43	1.8
50356.0	10000	41.6345	93.5046	-912	QW	1.6	-1	6.4	1	1.2	1	0.254	-1	1.359	-1	5.345	0	1790	47	1.8
50355.9	10000	41.6345	93.5039	-912	QW	1.7	-1	6.3	1	1.2	1	0.278	-1	1.476	-1	5.303	0	1786	44	1.8
50355.8	10000	41.6345	93.5032	-912	QW	1.9	-1	6.3	1	1.2	1	0.315	-1	1.603	-1	5.094	0	1773	47	1.8
50355.7	10000	41.6345	93.5025	-912	QW	2.2	0	6.3	1	1.2	1	0.373	0	1.931	0	5.176	0	1762	48	1.8
50355.6	10000	41.6345	93.5018	-912	QW	2.3	0	6.3	1	1.1	1	0.394	0	2.093	0	5.311	0	1747	42	1.8
50355.5	10000	41.6345	93.5011	-912	QW	2.1	0	6.3	1	1.1	1	0.371	0	1.887	0	5.086	0	1740	48	1.8
50355.4	10000	41.6344	93.5004	-913	QW	2.2	0	6.3	1	1.1	1	0.398	0	1.943	0	5.088	0	1749	46	1.8
50355.3	10000	41.6344	93.4996	-913	QW	2.0	0	6.3	1	1.1	1	0.338	0	1.969	0	5.818	1	1741	47	1.7
50355.2	10000	41.6345	93.4988	-914	QW	2.0	0	6.2	1	1.0	1	0.323	-1	1.994	0	6.177	2	1740	44	1.7

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50355.1	10000	41.6345	93.4980	-913	QW	2.2	1	6.5	2	1.0	0	0.338	0	2.141	0	6.329	2	1757	57	1.7
50355.0	10000	41.6345	93.4973	-913	QW	2.1	0	6.7	2	1.1	0	0.318	-1	1.925	0	6.061	1	1791	47	1.7
50354.9	10000	41.6345	93.4965	-912	QW	2.3	1	6.6	2	1.1	0	0.355	0	2.068	0	5.827	1	1824	44	1.7
50354.8	10000	41.6345	93.4957	-913	QW	2.8	1	6.7	2	1.2	1	0.417	0	2.434	1	5.840	1	1843	46	1.7
50354.7	10000	41.6345	93.4949	-913	QW	2.7	1	6.8	2	1.2	1	0.392	0	2.295	1	5.854	1	1856	42	1.7
50354.6	10000	41.6345	93.4941	-913	QW	3.1	1	6.3	2	1.2	2	0.490	1	2.510	1	5.122	0	1880	40	1.7
50354.5	10000	41.6345	93.4933	-912	QW	3.0	1	5.9	1	1.2	2	0.512	2	2.464	1	4.812	-1	1895	56	1.7
50354.4	10000	41.6345	93.4925	-913	QW	3.1	1	5.8	1	1.2	1	0.541	2	2.674	2	4.871	-1	1901	49	1.7
50354.3	10000	41.6346	93.4917	-913	QW	3.0	1	5.9	1	1.1	1	0.515	2	2.700	2	5.245	0	1887	46	1.7
50354.2	10000	41.6346	93.4909	-913	QW	3.0	1	5.9	1	1.1	1	0.513	2	2.786	2	5.425	0	1883	40	1.7
50354.1	10000	41.6346	93.4901	-915	QW	2.6	1	5.8	1	1.1	0	0.444	1	2.436	1	5.482	0	1873	34	1.7
50354.0	10000	41.6346	93.4893	-916	QW	2.6	2	5.8	1	1.1	0	0.452	1	2.513	1	5.554	1	1858	34	1.7
50353.9	10000	41.6346	93.4885	-916	QW	2.5	2	6.0	1	1.1	0	0.375	0	2.003	0	5.349	0	1831	48	1.7
50353.8	10000	41.6346	93.4877	-915	QW	2.5	2	6.1	1	1.1	0	0.373	0	2.007	0	5.378	0	1823	29	1.7
50353.7	10000	41.6346	93.4870	-915	QW	1.9	1	6.0	1	1.2	1	0.313	-1	1.662	-1	5.312	0	1817	53	1.7
50353.6	10000	41.6346	93.4862	-914	QW	1.9	1	6.0	1	1.2	1	0.318	-1	1.613	-1	5.066	0	1815	39	1.7
50353.5	10000	41.6346	93.4854	-913	QW	1.7	1	6.5	1	1.2	1	0.264	-1	1.460	-1	5.526	1	1810	47	1.7
50353.4	10000	41.6346	93.4846	-913	QW	2.0	1	6.5	2	1.2	1	0.309	-1	1.735	0	5.610	1	1806	49	1.7
50353.3	10000	41.6347	93.4838	-914	QW	1.8	1	6.4	2	1.2	1	0.282	-1	1.564	-1	5.547	1	1797	34	1.7
50353.2	10000	41.6347	93.4830	-914	QW	2.0	1	6.3	1	1.1	1	0.310	-1	1.750	0	5.653	1	1794	39	1.7
50353.1	10000	41.6347	93.4822	-913	QW	2.0	1	6.3	1	1.1	1	0.314	-1	1.751	0	5.576	1	1798	57	1.7
50353.0	10000	41.6347	93.4814	-913	QW	1.8	1	6.4	1	1.1	1	0.289	-1	1.636	-1	5.661	1	1790	45	1.7
50352.9	10000	41.6347	93.4806	-912	QW	1.9	1	6.6	2	1.2	1	0.285	-1	1.621	-1	5.676	1	1807	43	1.7
50352.8	10000	41.6347	93.4798	-912	QW	2.0	1	6.0	1	1.2	1	0.333	0	1.714	0	5.144	0	1798	41	1.7
50352.7	10000	41.6347	93.4790	-912	QW	1.9	1	5.9	1	1.2	1	0.323	-1	1.629	-1	5.039	0	1790	48	1.7
50352.6	10000	41.6347	93.4782	-913	QW	2.0	1	6.1	1	1.2	1	0.330	0	1.727	0	5.226	0	1801	38	1.7
50352.5	10000	41.6347	93.4774	-912	QW	2.3	1	6.7	2	1.2	1	0.337	0	1.955	1	5.807	1	1809	39	1.7
50352.4	10000	41.6348	93.4766	-913	QW	2.4	1	6.7	2	1.2	1	0.364	0	2.110	1	5.798	1	1814	44	1.7
50352.3	10000	41.6348	93.4758	-912	QW	2.5	1	6.5	2	1.1	1	0.380	0	2.222	1	5.845	1	1810	49	1.7
50352.2	10000	41.6348	93.4751	-912	QW	2.5	1	6.2	1	1.1	1	0.398	0	2.206	1	5.537	1	1791	48	1.7
50352.1	10000	41.6348	93.4743	-912	QW	2.3	1	6.4	2	1.1	1	0.368	0	2.116	1	5.750	1	1784	48	1.7
50352.0	10000	41.6348	93.4735	-910	QW	2.3	1	6.2	1	1.1	1	0.341	0	2.002	1	5.877	1	1789	45	1.7
50351.9	10000	41.6348	93.4727	-906	QW	2.4	1	6.2	1	1.2	1	0.384	0	2.079	1	5.417	1	1775	43	1.7
50351.8	10000	41.6348	93.4719	-904	QW	2.0	1	6.0	1	1.2	1	0.342	0	1.735	1	5.079	1	1772	43	1.7
50351.7	10000	41.6348	93.4711	-907	QW	1.8	1	6.4	1	1.2	1	0.286	-1	1.589	-1	5.553	1	1765	48	1.7
50351.6	10000	41.6349	93.4703	-910	QW	2.0	1	6.1	1	1.2	1	0.334	-1	1.668	-1	5.987	1	1764	50	1.7
50351.5	10000	41.6348	93.4695	-911	QW	2.0	1	6.4	1	1.2	1	0.319	-1	1.733	-1	5.425	1	1765	43	1.7
50351.4	10000	41.6349	93.4687	-911	QW	2.0	1	6.2	1	1.2	1	0.316	-1	1.650	-1	5.221	1	1763	43	1.7
50351.3	10000	41.6349	93.4679	-911	QW	1.8	1	6.0	1	1.1	1	0.329	-1	1.739	-1	5.292	1	1756	50	1.7
50351.2	10000	41.6349	93.4671	-910	QW	2.1	1	6.0	1	1.1	1	0.302	-1	1.679	-1	5.560	1	1757	59	1.7
50351.1	10000	41.6349	93.4663	-910	QW	2.2	1	5.7	1	1.1	1	0.376	0	1.998	0	5.315	1	1749	30	1.7
50351.0	10000	41.6349	93.4655	-909	QW	2.2	1	5.6	1	1.1	1	0.390	0	2.005	0	5.142	1	1736	47	1.7
50350.9	10000	41.6349	93.4648	-908	QW	2.2	1	5.7	1	1.1	1	0.390	0	2.127	1	5.453	1	1715	44	1.7
50350.8	10000	41.6349	93.4640	-907	QW	2.2	1	5.7	1	1.1	1	0.385	0	2.077	1	5.402	1	1705	38	1.7
50350.7	10000	41.6349	93.4632	-906	QW	2.4	1	5.9	1	1.1	1	0.416	0	2.391	1	5.746	1	1709	34	1.7
50350.6	10000	41.6349	93.4624	-905	QW	2.4	1	5.9	1	1.1	1	0.399	0	2.223	1	5.571	1	1699	34	1.7
50350.5	10000	41.6349	93.4616	-903	QW	2.3	1	6.2	2	1.1	1	0.369	0	2.054	1	5.563	1	1714	47	1.8
50350.4	10000	41.6350	93.4608	-903	QW	2.1	1	5.8	1	1.1	1	0.306	-1	1.677	-1	5.475	1	1712	51	1.8
50350.3	10000	41.6350	93.4600	-904	QW	1.9	1	5.8	1	1.1	1	0.309	-1	1.602	-1	5.184	1	1709	38	1.8
50350.2	10000	41.6350	93.4592	-904	QW	1.6	1	5.5	1	1.1	1	0.271	-1	1.429	-1	5.275	1	1705	41	1.8
50350.1	10000	41.6350	93.4584	-904	QW	1.4	1	5.5	1	1.1	1	0.229	-2	1.247	-1	5.436	1	1703	53	1.8
50350.0	10000	41.6350	93.4576	-904	QW	1.2	-2	5.7	0	1.1	1	0.203	-2	1.042	-2	5.136	0	1679	39	1.8

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50349.9	10000	41.6350	93.4568	-904		1.3	-2	5.8	0	1.1	0	0.220	-2	1.163	-2	5.290	0	1664	45	1.8
50349.8	10000	41.6350	93.4560	-903		1.5	-1	5.4	0	1.1	0	0.270	-1	1.352	-1	5.000	0	1651	39	1.8
50349.7	10000	41.6350	93.4552	-903		1.5	-1	5.7	0	1.1	0	0.262	-1	1.426	-1	5.435	0	1648	49	1.8
50349.6	10000	41.6350	93.4544	-902		1.6	-1	6.0	1	1.1	0	0.269	-1	1.540	-1	5.723	1	1653	38	1.8
50349.5	10000	41.6350	93.4536	-901		1.8	-1	6.2	1	1.0	0	0.282	-1	1.692	0	5.988	1	1666	42	1.8
50349.4	10000	41.6351	93.4529	-901		2.0	0	5.8	1	1.0	0	0.348	0	1.949	0	5.606	1	1679	44	1.8
50349.3	10000	41.6351	93.4521	-900		1.9	0	6.1	1	1.0	0	0.307	-1	1.778	0	5.784	1	1701	38	1.8
50349.2	10000	41.6351	93.4513	-899		1.8	-1	6.1	1	1.1	0	0.291	-1	1.663	-1	5.705	1	1733	52	1.8
50349.1	10000	41.6351	93.4505	-899		1.5	-1	6.7	2	1.1	0	0.227	-2	1.395	-1	6.138	2	1745	36	1.8
50349.0	10000	41.6351	93.4497	-89[illegible]		1.6	-1	6.5	2	1.1	0	0.252	-1	1.479	-1	5.879	1	1757	49	1.8
50348.9	10000	41.6351	93.4489	-899		1.4	-1	6.6	2	1.1	1	0.218	-2	1.267	-1	5.824	1	1767	54	1.7
50348.8	10000	41.6351	93.4481	-899		1.5	-1	6.5	2	1.1	1	0.231	-1	1.303	-1	5.646	1	1769	53	1.7
50348.7	10000	41.6351	93.4473	-898		1.4	-1	6.6	2	1.1	1	0.211	-2	1.216	-1	5.769	1	1759	39	1.7
50348.6	10000	41.6351	93.4465	-898		1.6	-1	6.3	1	1.1	1	0.255	-1	1.425	-1	5.581	1	1749	47	1.7
50348.5	10000	41.6352	93.4457	-898		1.5	-1	6.1	1	1.1	1	0.244	-1	1.306	-1	5.363	0	1735	52	1.7
50348.4	10000	41.6352	93.4449	-898		1.7	-1	5.8	1	1.1	0	0.295	-1	1.576	-1	5.338	0	1711	34	1.7
50348.3	10000	41.6352	93.4441	-898		1.7	-1	5.5	0	1.1	1	0.303	-1	1.503	-1	4.960	0	1708	51	1.7
50348.2	10000	41.6352	93.4433	-897		1.7	-1	5.5	0	1.1	1	0.315	-1	1.554	-1	4.929	0	1699	41	1.7
50348.1	10000	41.6352	93.4426	-894		1.6	-1	5.5	0	1.1	1	0.291	-1	1.400	-1	4.812	-1	1702	54	1.7
50348.0	10000	41.6352	93.4418	-896		1.7	-1	5.3	0	1.2	1	0.310	-1	1.416	-1	4.561	-1	1702	44	1.7
50347.9	10000	41.6352	93.4410	-898		1.7	-1	5.4	0	1.2	1	0.307	-1	1.409	-1	4.596	-1	1717	43	1.7
50347.8	10000	41.6352	93.4402	-899		1.9	0	5.7	0	1.2	1	0.339	0	1.677	0	4.946	0	1719	43	1.7
50347.7	10000	41.6352	93.4394	-900		1.9	0	5.7	0	1.2	1	0.343	0	1.655	-1	4.826	-1	1742	45	1.7
50347.6	10000	41.6352	93.4386	-900		1.8	0	6.0	1	1.1	1	0.30[illegible]	-1	1.594	-1	5.247	0	1746	47	1.7
50347.5	10000	41.6353	93.4378	-900		2.0	0	5.7	0	1.1	1	0.346	0	1.761	0	5.085	0	1762	43	1.7
50347.4	10000	41.6353	93.4370	-900		2.1	0	6.0	1	1.1	1	0.349	0	1.854	0	5.316	0	1775	38	1.7
50347.3	10000	41.6353	93.4362	-900		1.9	0	6.3	1	1.1	1	0.302	-1	1.670	0	5.530	1	1793	41	1.7
50347.2	10000	41.6353	93.4354	-901		1.8	-1	6.4	1	1.1	1	0.276	-1	1.576	-1	5.715	1	1777	31	1.7
50347.1	10000	41.6353	93.4346	-902		1.8	-1	6.1	1	1.1	1	0.290	-1	1.560	-1	5.376	0	1786	39	1.7
50347.0	10000	41.6353	93.4338	-902		1.8	0	6.2	1	1.1	1	0.292	-1	1.632	-1	5.592	1	1782	26	1.7
50346.9	10000	41.6353	93.4330	-903		2.2	0	6.3	1	1.1	1	0.352	0	1.961	0	5.574	1	1795	56	1.7
50346.8	10000	41.6353	93.4322	-904		2.0	0	6.4	1	1.1	1	0.306	-1	1.734	0	5.658	1	1792	41	1.7
50346.7	10000	41.6353	93.4314	-904		1.9	0	5.8	1	1.1	1	0.322	-1	1.657	-1	5.151	0	1796	52	1.7
50346.6	10000	41.6354	93.4306	-905		2.2	0	6.1	1	1.1	1	0.358	0	1.962	0	5.474	0	1806	40	1.7
50346.5	10000	41.6354	93.4299	-906		2.3	0	6.0	1	1.1	1	0.386	0	2.047	0	5.296	0	1809	52	1.7
50346.4	10000	41.6354	93.4291	-907		2.4	1	6.1	1	1.2	1	0.384	0	2.018	0	5.256	0	1811	51	1.7
50346.3	10000	41.6354	93.4283	-909		2.3	1	5.9	1	1.2	1	0.391	0	1.940	0	4.959	0	1825	45	1.7
50346.2	10000	41.6354	93.4275	-910		2.3	1	5.7	1	1.2	1	0.403	0	1.927	0	4.782	-1	1824	41	1.7
50346.1	10000	41.6354	93.4267	-911		2.1	0	5.8	1	1.2	1	0.373	0	1.821	0	4.884	0	1812	51	1.7
50346.0	10000	41.6354	93.4259	-912		2.0	0	6.5	2	1.2	1	0.311	-1	1.741	0	5.600	1	1799	40	1.7
50345.9	10000	41.6354	93.4251	-912		1.9	0	6.1	1	1.2	1	0.315	-1	1.615	-1	5.129	0	1789	50	1.7
50345.8	10000	41.6354	93.4243	-912		2.1	0	6.0	1	1.2	1	0.344	0	1.775	0	5.167	0	1805	52	1.6
50345.7	10000	41.6354	93.4235	-913		2.1	0	5.9	1	1.2	1	0.364	0	1.911	0	5.250	0	1803	38	1.6
50345.6	10000	41.6355	93.4227	-915		2.2	0	5.8	1	1.2	1	0.381	0	1.992	0	5.230	0	1796	32	1.6
50345.5	10000	41.6355	93.4219	-918		2.1	0	5.8	1	1.2	1	0.355	0	1.796	0	5.058	0	1799	56	1.6
50345.4	10000	41.6355	93.4211	-920		2.4	1	5.9	1	1.2	1	0.393	0	2.094	1	5.323	0	1816	45	1.6
50345.3	10000	41.6355	93.4203	-921		2.5	1	5.9	1	1.2	1	0.436	1	2.231	1	5.119	0	1818	41	1.6
50345.2	10000	41.6355	93.4196	-923		2.6	1	6.1	1	1.2	1	0.449	1	2.436	1	5.431	0	1815	51	1.6
50345.1	10000	41.6355	93.4188	-925		2.3	0	6.4	1	1.2	1	0.407	1	2.230	1	5.481	0	1809	46	1.6
50345.0	10000	41.6355	93.4180	-927		2.0	0	6.7	2	1.2	1	0.349	0	1.994	0	5.707	1	1815	55	1.6
50344.9	10000	41.6355	93.4172	-929		1.7	-1	7.1	2	1.1	1	0.294	-1	1.690	0	5.756	1	1800	33	1.6
50344.8	10000	41.6355	93.4164	-930		1.7	-1	7.1	2	1.1	1	0.247	-1	1.559	-1	6.302	2	1785	38	1.6

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50344.7	10000	41.6355	93.4156	-932	QW	1.9	0	6.5	2	1.1	1	0.283	-1	1.629	-1	5.755	1	1778	54	1.6
50344.6	10000	41.6355	93.4148	-933	QW	1.9	0	6.2	1	1.1	1	0.313	-1	1.706	0	5.446	0	1777	34	1.6
50344.5	10000	41.6356	93.4140	-934	QW	2.0	0	5.8	1	1.2	1	0.341	0	1.705	0	5.001	0	1777	55	1.6
50344.4	10000	41.6356	93.4132	-935	QW	1.9	0	5.9	1	1.2	1	0.326	0	1.664	-1	5.099	0	1750	45	1.6
50344.3	10000	41.6356	93.4124	-937	QW	2.0	0	5.5	0	1.1	1	0.359	0	1.744	0	4.851	-1	1727	65	1.6
50344.2	10000	41.6356	93.4116	-938	QW	2.2	0	5.5	0	1.1	1	0.397	0	1.929	0	4.856	-1	1738	30	1.6
50344.1	10000	41.6356	93.4108	-940	QW	2.2	-1	5.3	0	1.2	1	0.421	1	1.914	0	4.548	-1	1739	70	1.6
50344.0	10000	41.6356	93.4100	-941	QW	2.1	0	5.3	0	1.1	1	0.394	0	1.847	0	4.685	-1	1731	39	1.6
50343.9	10000	41.6356	93.409[illegible]	-942	QW	2.0	0	5.6	0	1.1	1	0.359	0	1.751	0	4.875	-1	1717	47	1.6
50343.8	10000	41.6356	93.4084	-943	QW	1.8	0	5.8	0	1.1	1	0.320	-1	1.657	-1	5.176	0	1702	32	1.6
50343.7	10000	41.6356	93.4077	-944	QW	2.0	0	5.4	0	1.1	0	0.363	0	1.803	0	4.963	0	1706	46	1.6
50343.6	10000	41.6356	93.4069	-944	QW	2.2	0	5.5	0	1.2	1	0.394	0	1.879	0	4.772	-1	1716	38	1.6
50343.5	10000	41.6357	93.4061	-944	QW	2.1	0	5.3	0	1.1	1	0.403	0	1.893	0	4.697	-1	1691	58	1.6
50343.4	10000	41.6357	93.4053	-945	QW	2.4	1	5.2	0	1.1	0	0.458	1	2.212	1	4.829	-1	1694	36	1.6
50343.3	10000	41.6357	93.4045	-948	QW	2.2	1	5.4	0	1.1	0	0.419	1	2.116	0	5.052	0	1690	36	1.6
50343.2	10000	41.6357	93.4037	-949	QW	2.3	1	5.3	0	1.0	0	0.444	1	2.248	1	5.063	0	1702	47	1.6
50343.1	10000	41.6357	93.4029	-950	QW	2.2	1	5.5	0	1.1	0	0.403	0	2.009	0	4.986	0	1705	39	1.6
50343.0	10000	41.6357	93.4021	-951	QL	2.0	-1	5.7	-2	1.1	-1	0.343	-1	1.791	-1	5.224	-2	1699	37	1.6
50342.9	10000	41.6357	93.4013	-952	QL	1.9	-2	5.8	-2	1.1	-1	0.326	0	1.775	-1	5.443	-1	1706	42	1.6
50342.8	10000	41.6357	93.4005	-953	QL	2.2	-1	6.1	-2	1.1	-1	0.362	0	1.996	-1	5.508	-1	1735	44	1.6
50342.7	10000	41.6357	93.3997	-954	QL	2.0	-1	6.1	-2	1.1	-1	0.323	-1	1.817	-1	5.628	-1	1724	51	1.6
50342.6	10000	41.6357	93.3989	-955	QL	2.0	-1	6.1	-2	1.1	0	0.325	0	1.763	-1	5.418	-1	1728	47	1.6
50342.5	10000	41.6358	93.3981	-956	QL	1.8	-2	6.3	-2	1.2	0	0.294	-1	1.577	-1	5.363	-1	1735	40	1.6
50342.4	10000	41.6358	93.3973	-956	QL	1.9	-1	6.1	-2	1.2	0	0.318	-1	1.634	-1	5.142	-2	1757	45	1.6
50342.3	10000	41.6358	93.3965	-957	QL	1.9	-1	6.0	-2	1.2	0	0.321	-1	1.580	-1	4.918	-2	1776	48	1.6
50342.2	10000	41.6358	93.3958	-958	QL	1.9	-2	6.1	-2	1.2	1	0.308	-1	1.518	-2	4.933	-2	1785	43	1.6
50342.1	10000	41.6358	93.3950	-959	QL	1.7	-2	6.0	-2	1.3	1	0.275	-1	1.313	-2	4.778	-2	1794	35	1.6
50342.0	10000	41.6358	93.3942	-960	QL	1.9	-1	6.1	-2	1.3	1	0.317	-1	1.509	-2	4.766	-2	1821	40	1.6
50341.9	10000	41.6358	93.3934	-961	QL	2.2	-1	6.2	-2	1.3	1	0.347	0	1.671	-1	4.814	-2	1855	40	1.6
50341.8	10000	41.6358	93.3926	-962	QL	2.2	-1	6.1	-2	1.3	1	0.367	0	1.753	-1	4.784	-2	1881	43	1.6
50341.7	10000	41.6358	93.3918	-964	QL	2.5	0	6.1	-2	1.3	2	0.406	1	1.874	-1	4.612	-3	1908	44	1.6
50341.6	10000	41.6358	93.3910	-965	QL	2.7	0	6.3	-1	1.3	2	0.421	1	1.989	-1	4.721	-2	1953	55	1.6
50341.5	10000	41.6359	93.3902	-966	QL	2.7	0	6.8	-1	1.3	1	0.400	1	2.048	0	5.127	-2	1980	52	1.6
50341.4	10000	41.6359	93.3894	-968	QL	2.6	0	7.0	0	1.3	1	0.376	0	2.031	0	5.405	-1	1998	49	1.6
50341.3	10000	41.6359	93.3886	-969	QL	2.5	0	7.3	0	1.3	1	0.349	0	1.948	-1	5.583	-1	2002	43	1.6
50341.2	10000	41.6359	93.3878	-969	QL	2.2	-1	7.6	0	1.3	1	0.296	-1	1.751	-1	5.913	0	1990	44	1.6
50341.1	10000	41.6359	93.3870	-970	QL	2.4	0	7.7	1	1.3	1	0.314	-1	1.899	-1	6.050	0	1964	54	1.6
50341.0	10000	41.6359	93.3862	-971	QL	2.2	-1	8.0	1	1.2	0	0.270	-1	1.804	-1	6.677	1	1942	48	1.6
50340.9	10000	41.6359	93.3855	-971	QL	2.2	-1	7.5	0	1.2	0	0.287	-1	1.853	-1	6.446	0	1898	38	1.6
50340.8	10000	41.6359	93.3847	-971	QL	2.2	-1	6.9	-1	1.2	0	0.325	0	1.894	-1	5.833	-1	1869	28	1.6
50340.7	10000	41.6359	93.3839	-971	QL	2.2	-1	6.7	-1	1.1	-1	0.333	0	1.998	0	6.009	0	1834	39	1.6
50340.6	10000	41.6359	93.3831	-971	QL	2.1	-1	6.3	-1	1.2	0	0.339	-1	1.850	-1	5.449	-1	1813	48	1.7
50340.5	10000	41.6360	93.3823	-971	QL	2.3	-1	5.8	-2	1.2	0	0.388	-1	1.930	-1	4.980	-2	1804	54	1.7
50340.4	10000	41.6360	93.3815	-973	QL	2.0	-1	5.6	-2	1.2	0	0.362	-1	1.741	-1	4.809	-2	1798	42	1.7
50340.3	10000	41.6360	93.3807	-975	QL	2.0	-1	5.7	-2	1.2	0	0.359	-1	1.735	-1	4.832	-2	1792	43	1.7
50340.2	10000	41.6360	93.3799	-976	QL	2.0	-1	6.2	-2	1.2	0	0.316	-1	1.637	-1	5.175	-2	1799	44	1.7
50340.1	10000	41.6360	93.3791	-978	QL	1.7	-2	6.3	-1	1.2	0	0.276	-1	1.420	-2	5.149	-2	1804	46	1.7
50340.0	10000	41.6360	93.3783	-979	QL	1.6	-2	6.3	-1	1.2	0	0.249	-2	1.271	-2	5.113	-2	1804	58	1.7
50339.9	10000	41.6360	93.3775	-979	QL	1.7	-2	6.1	-2	1.2	0	0.273	-1	1.399	-2	5.118	-2	1802	40	1.7
50339.8	10000	41.6360	93.3767	-979	QL	1.6	-2	6.4	-1	1.2	0	0.243	-2	1.277	-2	5.246	-2	1796	41	1.7
50339.7	10000	41.6360	93.3759	-980	QL	1.6	-2	6.4	-1	1.2	0	0.255	-2	1.364	-2	5.358	-1	1807	42	1.7
50339.6	10000	41.6360	93.3751	-980	QL	1.9	-2	6.3	-2	1.2	0	0.300	-1	1.560	-2	5.197	-2	1814	49	1.7

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50339.5	10000	41.6360	93.3743	-981	QL	1.7	-2	6.1	-2	1.2	0	0.285	-1	1.480	-2	5.203	-2	1816	39	1.7
50339.4	10000	41.6361	93.3736	-982	QL	1.6	-2	6.2	-2	1.2	0	0.262	-1	1.387	-2	5.300	-2	1812	31	1.7
50339.3	10000	41.6361	93.3728	-983	QL	1.7	-2	6.0	-2	1.2	1	0.282	-1	1.349	-2	4.785	-2	1826	56	1.7
50339.2	10000	41.6361	93.3720	-983	QL	1.6	-2	6.0	-2	1.3	1	0.268	-1	1.239	-2	4.616	-3	1839	33	1.7
50339.1	10000	41.6361	93.3712	-984	QL	1.9	-1	5.8	-2	1.3	1	0.328	0	1.527	-2	4.657	-3	1848	43	1.7
50339.0	10000	41.6361	93.3704	-986	QL	1.8	-2	5.7	-2	1.2	1	0.323	-1	1.495	-2	4.626	-3	1854	47	1.7
50338.9	10000	41.6361	93.3696	-987	QL	1.7	-2	5.6	-3	1.2	0	0.297	-1	1.367	-2	4.597	-3	1855	31	1.8
50338.8	10000	41.6361	93.3688	-989	QL	1.8	-2	5.8	-2	1.2	1	0.311	-1	1.454	-2	4.682	-3	1866	38	1.8
50338.7	10000	41.6361	93.3680	-990	QL	2.2	-1	5.9	-2	1.2	0	0.375	0	1.797	-1	4.793	-2	1878	44	1.8
50338.6	10000	41.6361	93.3672	-992	QL	2.1	-1	6.3	-2	1.2	0	0.341	0	1.822	-1	5.348	-1	1877	48	1.8
50338.5	10000	41.6361	93.3664	-992	QL	2.1	-1	6.7	-1	1.1	0	0.314	-1	1.833	-1	5.832	-1	1901	38	1.8
50338.4	10000	41.6361	93.3656	-994	QL	2.1	-1	6.7	-1	1.2	0	0.311	-1	1.799	-1	5.787	-1	1951	45	1.8
50338.3	10000	41.6361	93.3648	-995	QL	2.3	-1	7.1	0	1.2	0	0.327	0	1.983	-1	6.073	0	1996	36	1.8
50338.2	10000	41.6362	93.3640	-996	QL	2.6	0	7.4	0	1.2	0	0.349	0	2.219	0	6.358	0	2034	42	1.8
50338.1	10000	41.6362	93.3632	-997	QL	2.8	0	8.0	1	1.1	-1	0.347	0	2.509	1	7.230	2	2067	52	1.8
50338.0	10000	41.6362	93.3624	-998	QL	2.9	1	8.0	1	1.1	-1	0.367	0	2.760	1	7.519	2	2084	42	1.8
50337.9	10000	41.6362	93.3616	-999	QL	3.2	1	8.3	2	1.1	0	0.381	0	2.779	1	7.287	2	2120	46	1.8
50337.8	10000	41.6362	93.3609	-1001	QL	3.3	1	8.4	2	1.1	-1	0.378	0	2.978	2	7.880	3	2122	43	1.8
50337.7	10000	41.6362	93.3601	-1003	QL	3.3	2	8.0	1	1.1	-1	0.419	1	3.122	2	7.449	2	2103	43	1.8
50337.6	10000	41.6362	93.3593	-1004	QL	3.2	1	8.2	1	1.1	0	0.391	0	2.775	1	7.093	1	2101	43	1.8
50337.5	10000	41.6362	93.3585	-1005	QL	3.1	1	8.3	2	1.1	0	0.379	0	2.772	1	7.307	2	2083	53	1.8
50337.4	10000	41.6362	93.3577	-1006	QL	3.0	1	7.6	1	1.2	0	0.391	0	2.475	1	6.336	0	2082	37	1.8
50337.3	10000	41.6362	93.3569	-1007	QL	2.7	0	7.9	1	1.2	1	0.347	0	2.210	0	6.365	0	2090	49	1.8
50337.2	10000	41.6362	93.3561	-1010	QL	2.8	0	7.4	0	1.2	1	0.376	0	2.255	0	5.994	0	2091	35	1.8
50337.1	10000	41.6363	93.3553	-1011	QL	2.9	1	7.2	0	1.3	1	0.398	1	2.217	0	5.574	-1	2091	46	1.8
50337.0	10000	41.6363	93.3545	-1013	QL	2.7	0	7.3	0	1.3	1	0.363	0	2.063	0	5.682	-1	2095	55	1.8
50336.9	10000	41.6363	93.3537	-1015	QL	2.8	0	7.0	0	1.3	1	0.399	1	2.163	0	5.416	-1	2094	38	1.8
50336.8	10000	41.6363	93.3529	-1017	QL	2.6	0	6.6	-1	1.3	2	0.394	1	1.946	-1	4.940	-2	2094	34	1.8
50336.7	10000	41.6363	93.3521	-1019	QL	2.8	1	6.8	-1	1.3	2	0.416	1	2.131	0	5.122	-2	2089	31	1.8
50336.6	10000	41.6363	93.3513	-1021	QL	2.7	0	6.6	-1	1.3	2	0.419	1	2.131	0	5.084	-2	2075	38	1.8
50336.5	10000	41.6363	93.3505	-1022	QL	2.7	0	7.0	0	1.2	1	0.384	0	2.245	0	5.846	-1	2069	47	1.8
50336.4	10000	41.6363	93.3497	-1024	QL	2.8	0	7.2	0	1.2	1	0.387	0	2.285	0	5.898	-1	2084	44	1.8
50336.3	10000	41.6363	93.3489	-1026	QL	2.9	1	7.6	0	1.2	1	0.386	0	2.394	0	6.207	0	2087	42	1.8
50336.2	10000	41.6363	93.3481	-1027	QL	2.9	1	7.7	0	1.2	1	0.380	0	2.433	1	6.396	0	2083	40	1.8
50336.1	10000	41.6363	93.3474	-1029	QL	3.0	1	7.5	0	1.1	1	0.408	1	2.745	1	6.725	1	2094	53	1.8
50336.0	10000	41.6363	93.3466	-1031	QL	3.1	1	7.6	0	1.1	1	0.403	1	2.776	1	6.883	1	2106	40	1.8
50335.9	10000	41.6364	93.3458	-1033	QL	3.3	2	7.5	0	1.2	1	0.439	1	2.794	1	6.358	0	2129	40	1.8
50335.8	10000	41.6364	93.3450	-1035	QL	3.3	1	7.2	0	1.3	1	0.463	2	2.627	1	5.671	-1	2134	43	1.8
50335.7	10000	41.6364	93.3442	-1038	QL	3.2	1	7.0	0	1.3	1	0.448	1	2.451	1	5.469	-1	2133	46	1.8
50335.6	10000	41.6364	93.3434	-1040	QL	3.1	1	7.1	0	1.3	1	0.439	1	2.502	1	5.701	-1	2114	53	1.8
50335.5	10000	41.6364	93.3426	-1042	QL	2.9	1	7.1	0	1.3	1	0.414	1	2.422	1	5.845	-1	2106	45	1.8
50335.4	10000	41.6364	93.3418	-1044	QL	3.1	1	7.4	0	1.3	1	0.415	1	2.390	1	5.763	-1	2111	44	1.8
50335.3	10000	41.6364	93.3410	-1045	QL	2.9	1	7.4	0	1.3	1	0.390	0	2.201	1	5.645	-1	2102	49	1.8
50335.2	10000	41.6364	93.3402	-1047	QL	2.5	1	7.6	0	1.3	1	0.333	0	2.019	1	6.058	0	2075	36	1.8
50335.1	10000	41.6364	93.3394	-1049	QL	2.4	1	7.5	0	1.2	1	0.316	-1	1.967	-1	6.219	0	2061	43	1.8
50335.0	10000	41.6364	93.3386	-1051	QL	2.5	1	8.0	1	1.2	1	0.318	-1	2.181	0	6.849	1	2047	35	1.8
50334.9	10000	41.6364	93.3378	-1053	QL	2.5	1	7.7	0	1.2	1	0.327	-1	2.183	0	6.685	1	2062	48	1.8
50334.8	10000	41.6364	93.3370	-1054	QL	2.7	1	8.0	1	1.2	1	0.333	-1	2.371	0	7.116	2	2048	39	1.8
50334.7	10000	41.6364	93.3362	-1056	QL	2.4	1	7.1	0	1.2	1	0.300	-1	2.055	0	6.847	1	2031	46	1.8
50334.6	10000	41.6365	93.3354	-1058	QL	2.5	1	7.6	0	1.2	1	0.327	-1	2.083	0	6.362	0	2024	50	1.8
50334.5	10000	41.6365	93.3347	-1059	QL	2.7	1	7.7	0	1.2	1	0.358	0	2.246	0	6.272	0	2037	34	1.8
50334.4	10000	41.6365	93.3339	-1060	QL	2.9	1	8.0	1	1.3	1	0.367	0	2.342	0	6.388	0	2050	45	1.8

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50334.3	10000	41.6365	93.3331	-1062	QL	3.0	1	7.5	0	1.3	1	0.402	1	2.406	0	5.981	0	2043	39	1.8
50334.2	10000	41.6365	93.3323	-1064	QL	2.9	1	7.6	1	1.3	1	0.379	0	2.262	0	5.972	0	2041	41	1.8
50334.1	10000	41.6365	93.3315	-1065	QL	2.9	1	7.2	0	1.3	2	0.399	1	2.159	0	5.416	-1	2033	42	1.8
50334.0	10000	41.6365	93.3307	-1067	QL	2.9	1	7.1	0	1.3	1	0.412	1	2.250	0	5.465	-1	2022	47	1.8
50333.9	10000	41.6365	93.3299	-1067	QL	2.8	0	7.6	1	1.2	1	0.363	0	2.215	0	6.097	0	2014	44	1.8
50333.8	10000	41.6365	93.3291	-1070	QL	2.6	0	7.3	0	1.3	1	0.348	0	2.006	0	5.756	-1	2017	44	1.8
50333.7	10000	41.6365	93.3283	-1071	QL	2.3	-1	7.3	0	1.3	1	0.317	-1	1.772	-1	5.597	-1	2004	41	1.8
50333.6	10000	41.6365	93.3275	-1072	QL	1.8	-2	7.5	0	1.3	2	0.245	-2	1.387	-2	5.657	-1	2010	38	1.8
50333.5	10000	41.6365	93.3267	-1075	QL	1.9	-1	7.3	0	1.3	2	0.264	-1	1.442	-2	5.456	-1	1996	45	1.8
50333.4	10000	41.6366	93.3259	-1076	QL	1.8	-2	7.2	0	1.3	1	0.246	-2	1.342	-2	5.459	-1	2000	60	1.7
50333.3	10000	41.6366	93.3251	-1078	QL	1.8	-2	7.2	0	1.3	2	0.253	-2	1.357	-2	5.371	-1	2018	35	1.7
50333.2	10000	41.6366	93.3243	-1080	QL	1.8	-2	7.2	0	1.4	2	0.252	-2	1.307	-2	5.188	-2	2020	28	1.7
50333.1	10000	41.6366	93.3235	-1081	QL	1.8	-2	7.4	0	1.3	2	0.240	-2	1.316	-2	5.476	-1	1992	41	1.7
50333.0	10000	41.6366	93.3227	-1082	QL	1.9	-2	7.1	0	1.3	1	0.263	-1	1.457	-2	5.543	-1	1974	49	1.7
50332.9	10000	41.6366	93.3219	-1083	QL	2.1	-1	6.5	-1	1.3	1	0.321	-1	1.654	-1	5.144	-2	1961	40	1.7
50332.8	10000	41.6366	93.3212	-1084	QL	2.1	-1	6.6	-1	1.3	1	0.318	-1	1.629	-1	5.125	-2	1958	48	1.7
50332.7	10000	41.6366	93.3204	-1085	QL	2.0	-1	7.0	0	1.3	1	0.287	-1	1.547	-2	5.385	-1	1955	38	1.7
50332.6	10000	41.6366	93.3196	-1087	QL	2.2	-1	7.0	0	1.2	1	0.317	-1	1.787	-1	5.643	-1	1938	33	1.7
50332.5	10000	41.6366	93.3188	-1088	QL	2.3	-1	6.7	-1	1.2	0	0.347	0	1.953	-1	5.635	-1	1929	47	1.7
50332.4	10000	41.6366	93.3180	-1090	QL	2.5	0	6.5	-1	1.2	0	0.382	0	2.075	0	5.434	-1	1953	52	1.7
50332.3	10000	41.6366	93.3172	-1091	QL	2.5	0	6.6	-1	1.2	1	0.380	0	2.004	0	5.276	-2	1972	34	1.7
50332.2	10000	41.6366	93.3164	-1092	QL	2.5	0	7.2	0	1.2	1	0.351	0	2.013	0	5.742	-1	1971	47	1.7
50332.1	10000	41.6367	93.3156	-1094	QL	2.4	0	7.1	0	1.2	1	0.341	0	1.969	-1	5.767	-1	1982	50	1.7
50332.0	10000	41.6367	93.3148	-1095	QL	2.8	0	7.2	0	1.3	1	0.383	0	2.207	0	5.758	-1	1992	51	1.7
50331.9	10000	41.6367	93.3140	-1096	QL	2.7	0	7.4	0	1.2	1	0.357	0	2.132	0	5.973	0	1983	57	1.7
50331.8	10000	41.6367	93.3132	-1098	QL	2.5	0	7.4	0	1.3	1	0.340	0	2.021	0	5.937	0	1986	45	1.7
50331.7	10000	41.6367	93.3124	-1099	QL	2.4	0	7.5	0	1.3	1	0.320	-1	1.885	-1	5.891	-1	1966	45	1.7
50331.6	10000	41.6367	93.3116	-1102	QL	2.1	-1	7.4	0	1.2	1	0.291	-1	1.722	-1	5.918	0	1961	45	1.6
50331.5	10000	41.6367	93.3108	-1103	QL	2.0	-1	7.4	0	1.2	1	0.274	-1	1.625	-1	5.939	0	1956	54	1.6
50331.4	10000	41.6367	93.3100	-1102	QL	1.9	-2	7.6	1	1.2	1	0.247	-2	1.522	-2	6.171	0	1953	40	1.6
50331.3	10000	41.6367	93.3092	-1100	QL	1.6	-2	7.2	0	1.2	1	0.217	-2	1.256	-2	5.796	-1	1941	45	1.6
50331.2	10000	41.6367	93.3085	-1102	QL	1.4	-3	7.0	0	1.3	1	0.201	-3	1.099	-3	5.472	-1	1962	32	1.6
50331.1	10000	41.6367	93.3077	-1103	QL	1.7	-2	7.3	0	1.3	1	0.236	-2	1.305	-2	5.537	-1	1972	60	1.6
50331.0	10000	41.6367	93.3069	-1105	QL	1.8	-2	7.2	0	1.3	1	0.254	-2	1.391	-2	5.479	-1	1976	47	1.6
50330.9	10000	41.6367	93.3061	-1107	QL	1.9	-1	7.2	0	1.3	1	0.269	-1	1.498	-2	5.567	-1	1975	49	1.6
50330.8	10000	41.6368	93.3053	-1109	QL	1.9	-2	7.5	0	1.4	2	0.251	-2	1.359	-2	5.412	-1	1974	41	1.6
50330.7	10000	41.6368	93.3045	-1111	QL	2.0	-1	7.5	0	1.4	2	0.264	-1	1.404	-2	5.326	-1	1972	54	1.6
50330.6	10000	41.6368	93.3037	-1112	QL	1.9	-1	7.8	1	1.4	2	0.250	-2	1.410	-2	5.648	-1	1994	40	1.6
50330.5	10000	41.6368	93.3029	-1113	QL	1.8	-2	7.9	1	1.3	2	0.234	-2	1.367	-2	5.831	-1	1986	54	1.6
50330.4	10000	41.6368	93.3021	-1114	QL	1.8	-2	7.7	1	1.3	2	0.235	-2	1.339	-2	5.703	-1	1975	26	1.6
50330.3	10000	41.6368	93.3013	-1115	QL	1.8	-2	7.9	1	1.3	1	0.235	-2	1.407	-2	5.976	0	1992	36	1.6
50330.2	10000	41.6368	93.3005	-1116	QL	1.8	-2	8.1	1	1.3	1	0.226	-2	1.403	-2	6.209	0	1981	35	1.6
50330.1	10000	41.6368	93.2997	-1116	QL	2.0	-1	7.7	1	1.2	1	0.262	-1	1.676	-1	6.401	0	1982	37	1.6
50330.0	10000	41.6368	93.2989	-1116	QL	2.2	-1	7.6	1	1.2	1	0.285	-1	1.759	-1	6.176	0	1994	48	1.6
50329.9	10000	41.6368	93.2981	-1116	QL	2.5	0	7.2	1	1.3	1	0.345	0	1.984	-1	5.752	-1	1991	50	1.6
50329.8	10000	41.6368	93.2973	-1116	QL	2.8	0	7.0	1	1.3	1	0.400	1	2.238	0	5.591	-1	1997	45	1.6
50329.7	10000	41.6368	93.2965	-1117	QL	2.8	0	7.1	1	1.3	1	0.401	1	2.293	0	5.723	-1	2025	47	1.6
50329.6	10000	41.6368	93.2957	-1118	QL	2.8	0	7.1	1	1.3	1	0.394	1	2.217	0	5.632	-1	2012	57	1.6
50329.5	10000	41.6369	93.2950	-1119	QL	3.1	1	6.9	-1	1.2	1	0.451	1	2.487	1	5.518	-1	2028	48	1.6
50329.4	10000	41.6369	93.2942	-1120	QL	3.0	1	6.8	-1	1.3	1	0.442	1	2.326	0	5.258	-2	2046	44	1.6
50329.3	10000	41.6369	93.2934	-1121	QL	3.0	1	6.9	-1	1.3	1	0.437	1	2.328	0	5.331	-1	2038	48	1.6
50329.2	10000	41.6369	93.2926	-1121	QL	3.0	1	7.2	0	1.3	1	0.414	1	2.328	0	5.626	-1	2024	28	1.6

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50329.1	10000	41.6369	93.2918	-1122	QL	2.6	0	7.3	0	1.3	1	0.381	0	2.152	0	5.648	-1	2035	49	1.6
50329.0	10000	41.6369	93.2910	-1123	QL	2.8	0	7.3	0	1.3	1	0.378	0	2.133	0	5.642	-1	2014	46	1.6
50328.9	10000	41.6369	93.2902	-1124	QL	2.7	0	7.8	1	1.3	1	0.350	0	2.105	0	6.007	0	2017	33	1.6
50328.8	10000	41.6369	93.2894	-1125	QL	2.4	0	7.8	1	1.3	2	0.305	-1	1.808	-1	5.928	0	2020	54	1.6
50328.7	10000	41.6369	93.2886	-1126	QL	2.5	0	7.7	1	1.3	1	0.319	-1	1.960	-1	6.140	0	2012	36	1.6
50328.6	10000	41.6369	93.2878	-1125	QL	2.3	-1	8.0	1	1.2	1	0.284	-1	1.846	-1	6.496	0	2012	39	1.6
50328.5	10000	41.6369	93.2870	-1125	QL	2.3	-1	8.1	1	1.2	1	0.281	-1	1.853	-1	6.596	1	2018	41	1.6
50328.4	10000	41.6369	93.2862	-1125	QL	2.0	-1	8.3	2	1.2	0	0.240	-2	1.621	-1	6.765	1	2003	53	1.6
50328.3	10000	41.6369	93.2854	-1126	QL	1.9	-2	8.5	2	1.2	1	0.221	-2	1.500	-2	6.803	1	2011	45	1.6
50328.2	10000	41.6370	93.2846	-1126	QL	1.9	-2	7.9	1	1.2	0	0.239	-2	1.565	-2	6.560	1	1995	41	1.6
50328.1	10000	41.6370	93.2838	-1127	QL	2.0	-1	7.8	1	1.1	0	0.261	-1	1.785	-1	6.832	1	1971	42	1.6
50328.0	10000	41.6370	93.2831	-1127	QL	2.0	-1	7.8	1	1.2	0	0.259	-1	1.703	-1	6.581	1	1960	43	1.6
50327.9	10000	41.6370	93.2823	-1127	QL	2.1	-1	7.4	0	1.2	0	0.288	-1	1.839	-1	6.391	0	1943	39	1.7
50327.8	10000	41.6370	93.2815	-1127	QL	1.9	-1	7.2	0	1.2	0	0.270	-1	1.675	-1	6.214	0	1940	40	1.7
50327.7	10000	41.6370	93.2807	-1127	QL	2.4	0	7.0	0	1.2	0	0.345	0	2.021	0	5.852	-1	1941	40	1.7
50327.6	10000	41.6370	93.2799	-1128	QL	2.4	0	7.0	0	1.2	0	0.348	0	2.082	0	5.981	0	1924	43	1.7
50327.5	10000	41.6370	93.2791	-1127	QL	2.4	0	7.0	0	1.2	1	0.338	0	1.931	-1	5.706	-1	1938	42	1.7
50327.4	10000	41.6370	93.2783	-1127	QL	2.5	-1	6.8	-1	1.3	1	0.370	0	1.924	-1	5.198	-2	1965	34	1.7
50327.3	10000	41.6370	93.2775	-1127	QL	2.5	0	7.2	0	1.3	1	0.347	0	1.914	-1	5.523	-1	1982	39	1.7
50327.2	10000	41.6370	93.2767	-1128	QL	2.4	0	7.3	0	1.3	1	0.323	-1	1.816	-1	5.615	-1	1998	45	1.7
50327.1	10000	41.6370	93.2759	-1128	QL	2.2	-1	7.8	1	1.3	2	0.286	-1	1.677	-1	5.865	-1	1987	52	1.7
50327.0	10000	41.6371	93.2751	-1129	QL	2.0	-1	8.2	1	1.3	1	0.246	-2	1.541	-2	6.270	0	1997	37	1.7
50326.9	10000	41.6371	93.2743	-1128	QL	1.9	-2	8.3	2	1.3	1	0.230	-2	1.460	-2	6.344	0	2013	60	1.7
50326.8	10000	41.6371	93.2735	-1129	QL	2.0	-1	8.4	2	1.3	1	0.234	-2	1.561	-2	6.659	1	2008	48	1.7
50326.7	10000	41.6371	93.2727	-1129	QL	1.8	-2	8.9	3	1.3	1	0.203	-2	1.434	-2	7.062	1	2006	51	1.7
50326.6	10000	41.6371	93.2719	-1129	QL	1.8	-2	9.1	3	1.2	1	0.201	-2	1.462	-2	7.289	2	2009	50	1.7
50326.5	10000	41.6371	93.2711	-1130	QL	1.8	-2	8.7	2	1.2	1	0.209	-2	1.476	-2	7.062	1	2024	54	1.7
50326.4	10000	41.6371	93.2704	-1130	QL	2.1	-1	8.4	2	1.2	0	0.247	-2	1.754	-1	7.101	2	2035	41	1.7
50326.3	10000	41.6371	93.2695	-1130	QL	2.1	-1	8.1	1	1.1	-1	0.265	-1	1.933	-1	7.297	2	2023	48	1.7
50326.2	10000	41.6371	93.2688	-1131	QL	2.3	-1	7.7	1	1.1	0	0.300	-1	2.040	0	6.790	1	2021	47	1.7
50326.1	10000	41.6371	93.2680	-1131	QL	2.3	-1	7.4	1	1.2	-1	0.310	-1	1.949	-1	6.292	0	2030	49	1.8
50326.0	10000	41.6371	93.2672	-1132	QL	2.7	0	7.3	0	1.2	0	0.369	0	2.296	0	6.226	0	2039	34	1.8
50325.9	10000	41.6371	93.2664	-1131	QL	2.6	0	6.7	-1	1.2	0	0.388	0	2.198	0	5.658	-1	2009	44	1.8
50325.8	10000	41.6371	93.2656	-1132	QL	2.6	0	7.0	0	1.2	0	0.369	0	2.205	0	5.972	0	1994	44	1.8
50325.7	10000	41.6372	93.2648	-1132	QL	2.7	0	6.8	-1	1.2	0	0.396	1	2.280	0	5.755	-1	1993	44	1.8
50325.6	10000	41.6372	93.2640	-1132	QL	2.7	0	7.0	0	1.2	0	0.395	1	2.212	0	5.600	-1	2006	35	1.8
50325.5	10000	41.6372	93.2632	-1132	QL	2.7	0	6.7	-1	1.2	0	0.404	1	2.158	0	5.335	-1	2012	36	1.8
50325.4	10000	41.6372	93.2624	-1132	QL	2.9	0	6.9	-1	1.3	1	0.416	1	2.241	0	5.388	-1	2026	46	1.8
50325.3	10000	41.6372	93.2616	-1132	QL	2.4	0	6.9	-1	1.2	0	0.355	0	1.979	-1	5.573	-1	2011	43	1.8
50325.2	10000	41.6372	93.2608	-1133	QL	2.6	0	7.6	0	1.2	0	0.341	0	2.135	0	6.259	0	2044	43	1.8
50325.1	10000	41.6372	93.2600	-1132	QL	2.6	0	7.5	0	1.2	0	0.340	0	2.111	0	6.202	0	2048	30	1.8
50325.0	10000	41.6372	93.2592	-1133	QL	2.3	-1	7.7	1	1.2	0	0.296	-1	1.845	-1	6.224	0	2063	45	1.8
50324.9	10000	41.6372	93.2584	-1134	QL	2.3	-1	7.9	1	1.3	0	0.293	-1	1.819	-1	6.216	0	2055	45	1.8
50324.8	10000	41.6372	93.2576	-1134	QL	2.5	0	8.1	1	1.2	1	0.314	-1	2.066	0	6.582	1	2056	44	1.8
50324.7	10000	41.6372	93.2569	-1134	QL	2.2	-1	8.0	1	1.2	0	0.278	-1	1.935	-1	6.965	1	2036	50	1.8
50324.6	10000	41.6372	93.2561	-1135	QL	2.4	-1	8.1	1	1.2	0	0.292	-1	1.976	-1	6.774	1	2052	37	1.8
50324.5	10000	41.6372	93.2553	-1136	QL	2.4	0	7.8	1	1.2	1	0.309	-1	1.944	-1	6.290	0	2050	42	1.8
50324.4	10000	41.6373	93.2545	-1136	QL	2.5	0	8.0	1	1.2	1	0.309	-1	1.986	-1	6.428	0	2051	44	1.8
50324.3	10000	41.6373	93.2537	-1136	QL	2.9	1	7.8	1	1.2	1	0.368	0	2.325	0	6.322	0	2051	52	1.8
50324.2	10000	41.6373	93.2529	-1137	QL	2.7	0	7.5	0	1.2	1	0.356	0	2.215	0	6.230	0	2067	51	1.8
50324.1	10000	41.6373	93.2521	-1137	QL	2.5	0	7.2	0	1.3	0	0.353	0	1.988	-1	5.628	-1	2078	38	1.8
50324.0	10000	41.6373	93.2513	-1136	QL	2.6	0	7.0	0	1.4	2	0.376	0	1.952	-1	5.198	-2	2117	42	1.8

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50323.9	10000	41.6373	93.2505	-1135	QL	2.9	1	7.1	0	1.4	2	0.404	1	2.112	0	5.223	-2	2133	36	1.8
50323.8	10000	41.6373	93.2497	-1137	QL	2.7	0	7.0	0	1.3	2	0.390	0	2.067	0	5.297	-2	2143	38	1.8
50323.7	10000	41.6373	93.2490	-1139	QL	2.7	0	6.9	-1	1.3	2	0.392	0	2.007	0	5.125	-2	2144	38	1.8
50323.6	10000	41.6372	93.2482	-1140	QL	2.6	0	7.0	0	1.4	2	0.368	0	1.883	-1	5.118	-2	2158	47	1.8
50323.5	10000	41.6372	93.2475	-1141	QL	2.7	0	6.7	-1	1.3	2	0.397	1	2.000	0	5.043	-2	2157	42	1.8
50323.4	10000	41.6372	93.2467	-1141	QL	2.8	0	7.3	0	1.3	2	0.380	0	2.101	0	5.529	-1	2159	32	1.8
50323.3	10000	41.6372	93.2459	-1142	QL	3.1	1	8.0	1	1.3	1	0.386	0	2.410	0	6.247	0	2151	41	1.8
50323.2	10000	41.6372	93.2452	-1143	QL	3.0	1	8.0	1	1.2	1	0.375	0	2.408	0	6.427	0	2155	36	1.8
50323.1	10000	41.6372	93.2444	-1144	QL	3.0	1	7.9	1	1.2	1	0.376	0	2.473	1	6.585	1	2164	38	1.8
50323.0	10000	41.6372	93.2437	-1144	QL	3.0	1	8.0	1	1.2	1	0.376	0	2.463	1	6.544	1	2178	46	1.8
50322.9	10000	41.6371	93.2429	-1145	QL	2.8	1	7.9	1	1.2	1	0.360	0	2.319	0	6.439	0	2170	45	1.8
50322.8	10000	41.6371	93.2421	-1145	QL	3.1	1	7.9	1	1.3	1	0.389	0	2.435	1	6.264	0	2172	34	1.8
50322.7	10000	41.6371	93.2414	-1146	QL	3.0	1	7.6	1	1.2	1	0.388	0	2.414	0	6.216	0	2165	38	1.8
50322.6	10000	41.6371	93.2406	-1146	QL	2.9	1	7.1	0	1.2	1	0.409	1	2.391	0	5.849	-1	2156	40	1.8
50322.5	10000	41.6371	93.2399	-1146	QL	3.1	1	6.7	-1	1.2	1	0.457	1	2.522	1	5.513	-1	2137	42	1.8
50322.4	10000	41.6371	93.2391	-1147	QL	3.3	2	6.6	-1	1.3	1	0.504	2	2.656	1	5.268	-2	2134	39	1.8
50322.3	10000	41.6371	93.2383	-1148	QL	3.2	1	6.5	-1	1.2	1	0.500	2	2.614	1	5.224	-2	2118	41	1.8
50322.2	10000	41.6370	93.2376	-1148	QL	3.4	2	6.8	-1	1.2	1	0.499	2	2.793	1	5.599	-1	2107	34	1.8
50322.1	10000	41.6370	93.2368	-1148	QL	3.0	1	7.3	0	1.2	0	0.402	1	2.485	1	6.176	0	2082	43	1.8
50322.0	10000	41.6370	93.2361	-1149	QL	2.9	1	7.3	0	1.2	0	0.390	0	2.460	1	6.312	0	2065	45	1.8
50321.9	10000	41.6370	93.2353	-1150	QL	2.5	0	7.3	0	1.2	0	0.345	0	2.194	0	6.350	0	2043	45	1.8
50321.8	10000	41.6370	93.2346	-1151	QL	2.1	-1	7.6	1	1.1	0	0.280	-1	1.868	-1	6.661	1	2019	41	1.8
50321.7	10000	41.6370	93.2338	-1150	QL	1.8	-2	7.4	0	1.2	0	0.251	-2	1.591	-1	6.343	0	1995	50	1.8
50321.6	10000	41.6370	93.2330	-1149	QL	2.2	-1	7.4	0	1.1	0	0.302	-1	1.964	-1	6.513	1	1982	45	1.8
50321.5	10000	41.6369	93.2323	-1148	QL	2.0	-1	7.0	0	1.1	0	0.289	-1	1.766	-1	6.104	0	1976	61	1.8
50321.4	10000	41.6369	93.2315	-1150	QL	2.3	-1	6.4	-1	1.1	-1	0.353	-1	2.092	0	5.923	0	1978	58	1.8
50321.3	10000	41.6369	93.2308	-1152	QL	2.2	-1	6.6	-1	1.1	-1	0.335	-1	2.021	0	6.026	0	1967	43	1.8
50321.2	10000	41.6369	93.2300	-1153	QL	2.5	0	6.9	-1	1.1	-1	0.357	-1	2.191	0	6.129	0	1978	39	1.8
50321.1	10000	41.6369	93.2292	-1154	QL	2.5	0	6.8	-1	1.1	-1	0.365	-1	2.153	0	5.892	-1	1994	47	1.8
50321.0	10000	41.6369	93.2285	-1154	QL	2.5	0	7.2	0	1.2	0	0.351	0	2.138	0	6.098	0	1999	49	1.8
50320.9	10000	41.6369	93.2277	-1154	QL	2.5	0	7.0	0	1.2	0	0.351	0	1.996	-1	5.687	-1	2017	56	1.8
50320.8	10000	41.6368	93.2270	-1154	QL	2.5	0	7.2	0	1.2	0	0.355	0	2.069	0	5.829	-1	2015	49	1.8
50320.7	10000	41.6368	93.2262	-1155	QL	2.5	0	7.1	0	1.3	0	0.360	0	1.965	-1	5.459	-1	2009	43	1.8
50320.6	10000	41.6368	93.2254	-1155	QL	2.6	0	7.2	0	1.3	0	0.357	0	1.993	-1	5.583	-1	2012	44	1.8
50320.5	10000	41.6368	93.2247	-1155	QL	2.3	-1	7.2	0	1.3	0	0.321	-1	1.812	-1	5.638	-1	2006	46	1.8
50320.4	10000	41.6368	93.2239	-1155	QL	2.3	-1	7.3	0	1.3	0	0.318	-1	1.748	-1	5.499	-1	1989	38	1.8
50320.3	10000	41.6368	93.2232	-1155	QL	2.3	-1	7.1	0	1.3	0	0.328	-1	1.871	-1	5.695	-1	1993	53	1.8
50320.2	10000	41.6367	93.2224	-1155	QL	2.1	-1	7.3	0	1.2	0	0.284	-1	1.665	-1	5.864	-1	1992	48	1.8
50320.1	10000	41.6367	93.2216	-1155	QL	2.1	-1	7.6	1	1.3	0	0.269	-1	1.599	-1	5.938	0	1995	43	1.8
50320.0	10000	41.6367	93.2209	-1156	QL	1.9	-2	7.8	1	1.3	0	0.245	-2	1.482	-2	6.059	0	1996	40	1.8
50319.9	10000	41.6367	93.2201	-1156	QL	1.9	-2	7.9	1	1.3	0	0.238	-2	1.485	-2	6.241	0	2019	41	1.8
50319.8	10000	41.6367	93.2194	-1156	QL	2.3	-1	8.0	1	1.3	0	0.283	-1	1.757	-1	6.202	0	2031	41	1.8
50319.7	10000	41.6367	93.2186	-1157	QL	2.6	0	7.9	1	1.2	0	0.328	0	2.145	1	6.549	1	2044	42	1.8
50319.6	10000	41.6367	93.2178	-1157	QL	2.5	0	8.1	1	1.2	0	0.311	0	2.041	1	6.570	1	2056	40	1.8
50319.5	10000	41.6367	93.2171	-1158	QL	2.6	0	8.0	1	1.2	0	0.326	0	2.186	1	6.709	1	2063	53	1.8
50319.4	10000	41.6366	93.2163	-1159	QL	2.9	1	7.9	1	1.2	0	0.366	0	2.388	1	6.516	1	2062	47	1.8
50319.3	10000	41.6366	93.2156	-1159	QL	3.1	1	7.7	1	1.2	0	0.404	1	2.588	1	6.410	1	2073	43	1.8
50319.2	10000	41.6366	93.2148	-1160	QL	3.3	2	7.5	1	1.2	0	0.440	1	2.740	1	6.229	1	2060	38	1.8
50319.1	10000	41.6366	93.2141	-1161	QL	3.2	1	7.5	1	1.2	0	0.421	1	2.622	1	6.235	1	2062	67	1.8
50319.0	10000	41.6366	93.2133	-1161	QL	2.7	0	7.6	1	1.3	0	0.351	0	2.112	0	6.009	0	2067	56	1.8
50318.9	10000	41.6366	93.2125	-1162	QL	2.4	0	7.2	0	1.3	0	0.338	0	1.886	-1	5.573	-1	2048	46	1.8
50318.8	10000	41.6366	93.2118	-1163	QL	2.7	0	7.0	0	1.3	2	0.380	1	1.988	-1	5.232	-2	2057	43	1.8

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50318.7	10000	41.6365	93.2110	-1163	QL	2.6	0	6.9	-1	1.3	2	0.385	0	1.985	-1	5.151	-2	2057	49	1.8
50318.6	10000	41.6365	93.2103	-1163	QL	2.8	0	7.0	0	1.3	2	0.397	1	2.113	0	5.328	-1	2057	46	1.8
50318.5	10000	41.6365	93.2095	-1164	QL	2.7	0	6.7	-1	1.3	1	0.399	1	2.056	0	5.156	-2	2047	36	1.8
50318.4	10000	41.6365	93.2087	-1164	QL	2.7	0	6.4	-1	1.3	1	0.422	1	2.095	0	4.959	-2	2031	52	1.8
50318.3	10000	41.6365	93.2080	-1165	QL	2.9	1	6.2	-2	1.2	1	0.459	1	2.293	0	5.001	-2	2001	39	1.8
50318.2	10000	41.6365	93.2072	-1165	QL	3.3	2	6.6	-1	1.2	0	0.504	2	2.812	1	5.575	-1	2015	48	1.8
50318.1	10000	41.6364	93.2065	-1166	QL	3.4	2	6.8	-1	1.2	0	0.497	2	2.950	2	5.933	0	2000	53	1.8
50318.0	10000	41.6364	93.2057	-1167	QL	3.4	2	6.9	-1	1.1	0	0.490	2	2.993	2	6.103	0	2006	45	1.8
50317.9	10000	41.6364	93.2049	-1168	QL	2.9	1	7.1	0	1.2	0	0.416	1	2.544	1	6.114	0	2007	34	1.8
50317.8	10000	41.6364	93.2042	-1168	QL	2.9	1	7.6	0	1.2	1	0.382	0	2.342	0	6.135	0	2019	42	1.8
50317.7	10000	41.6364	93.2034	-1169	QL	2.8	1	7.7	1	1.3	1	0.366	0	2.199	0	6.006	0	2024	32	1.8
50317.6	10000	41.6364	93.2027	-1170	QL	2.8	0	8.2	1	1.3	1	0.341	0	2.134	0	6.257	0	2047	42	1.8
50317.5	10000	41.6364	93.2019	-1171	QL	2.8	0	8.1	1	1.4	2	0.341	0	2.040	0	5.975	0	2042	41	1.8
50317.4	10000	41.6363	93.2011	-1172	QL	2.4	0	7.9	1	1.4	2	0.303	-1	1.755	-1	5.794	-1	2037	42	1.8
50317.3	10000	41.6363	93.2004	-1173	QL	2.3	-1	8.3	2	1.4	2	0.278	-1	1.698	-1	6.119	0	2031	36	1.8
50317.2	10000	41.6363	93.1996	-1174	QL	2.6	0	8.0	1	1.3	1	0.324	-1	2.002	0	6.185	0	2026	50	1.8
50317.1	10000	41.6363	93.1989	-1175	QL	2.8	0	7.5	0	1.3	1	0.367	0	2.140	0	5.834	-1	2025	41	1.8
50317.0	10000	41.6363	93.1981	-1176	QL	2.7	0	7.6	0	1.3	1	0.353	0	2.121	0	6.007	0	2022	49	1.8
50316.9	10000	41.6363	93.1973	-1176	QL	2.6	0	7.1	0	1.3	1	0.371	0	2.098	0	5.658	-1	2029	31	1.8
50316.8	10000	41.6362	93.1966	-1177	QL	2.3	-1	7.3	0	1.2	1	0.309	-1	1.821	-1	5.890	-1	2037	38	1.8
50316.7	10000	41.6362	93.1958	-1178	QL	2.5	0	7.4	0	1.2	0	0.334	0	2.035	0	6.099	0	2038	40	1.8
50316.6	10000	41.6362	93.1951	-1179	QL	2.4	-1	7.3	0	1.2	1	0.325	0	1.897	-1	5.844	-1	2039	38	1.8
50316.5	10000	41.6362	93.1943	-1180	QL	2.2	-1	7.6	1	1.3	1	0.296	-1	1.728	-1	5.829	-1	2039	44	1.8
50316.4	10000	41.6362	93.1935	-1181	QL	2.3	-1	7.7	1	1.3	1	0.297	-1	1.810	-1	6.089	0	2046	39	1.8
50316.3	10000	41.6362	93.1928	-1181	QL	2.4	0	7.9	1	1.3	1	0.300	-1	1.795	-1	5.978	0	2067	35	1.8
50316.2	10000	41.6362	93.1920	-1182	QL	2.4	0	7.9	1	1.3	1	0.302	-1	1.836	-1	6.073	0	2069	53	1.8
50316.1	10000	41.6361	93.1913	-1182	QL	2.5	0	7.5	1	1.3	1	0.340	0	1.950	-1	5.738	-1	2070	35	1.8
50316.0	10000	41.6361	93.1905	-1183	QL	2.5	0	7.4	1	1.3	1	0.343	0	1.908	-1	5.561	-1	2086	42	1.8
50315.9	10000	41.6361	93.1897	-1184	QL	2.6	0	7.2	1	1.3	1	0.356	0	2.008	0	5.640	-1	2089	39	1.8
50315.8	10000	41.6361	93.1890	-1185	QL	2.6	0	7.5	1	1.3	1	0.353	0	2.099	0	5.943	0	2098	34	1.8
50315.7	10000	41.6361	93.1882	-1186	QL	2.5	0	8.0	1	1.3	1	0.308	-1	1.942	-1	6.302	0	2106	38	1.8
50315.6	10000	41.6361	93.1875	-1185	QL	2.4	0	7.8	1	1.2	1	0.305	-1	1.950	-1	6.389	0	2101	43	1.8
50315.5	10000	41.6361	93.1867	-1188	QL	2.7	0	7.8	1	1.2	1	0.352	0	2.248	0	6.384	0	2101	44	1.8
50315.4	10000	41.6360	93.1859	-1189	QL	2.9	0	8.1	1	1.2	1	0.358	0	2.406	1	6.722	1	2089	51	1.8
50315.3	10000	41.6360	93.1852	-1189	QL	3.0	1	8.3	1	1.2	1	0.362	0	2.542	1	7.022	1	2072	51	1.8
50315.2	10000	41.6360	93.1844	-1190	QL	2.9	1	8.0	1	1.2	1	0.353	0	2.423	1	6.873	1	2083	41	1.8
50315.1	10000	41.6360	93.1837	-1190	QK	3.0	2	7.4	1	1.1	1	0.378	0	2.564	1	6.774	0	2073	39	1.8
50315.0	10000	41.6360	93.1829	-1191	QK	3.2	3	7.6	1	1.1	1	0.429	1	2.804	1	6.542	0	2052	48	1.8
50314.9	10000	41.6360	93.1821	-1191	QK	3.0	3	7.5	1	1.1	1	0.433	1	2.948	1	6.815	0	2037	42	1.8
50314.8	10000	41.6360	93.1814	-1192	QK	3.0	3	7.5	1	1.1	1	0.393	1	2.646	1	6.738	0	2023	51	1.8
50314.7	10000	41.6359	93.1806	-1194	QK	3.0	3	7.5	1	1.0	1	0.397	1	2.768	1	6.979	1	2026	45	1.8
50314.6	10000	41.6359	93.1799	-1195	QK	2.9	2	7.5	1	1.0	1	0.391	1	2.932	1	7.497	1	2023	50	1.8
50314.5	10000	41.6359	93.1791	-1196	QK	2.7	2	7.2	1	1.0	1	0.443	1	3.311	2	7.466	1	2001	40	1.8
50314.4	10000	41.6359	93.1784	-1197	QK	2.8	2	7.2	1	1.0	1	0.430	1	3.099	2	7.213	1	2000	42	1.8
50314.3	10000	41.6359	93.1776	-1198	QK	2.8	2	7.1	1	1.0	1	0.394	1	2.767	1	7.015	1	2008	38	1.8
50314.2	10000	41.6359	93.1768	-1198	QK	2.9	2	7.2	1	1.0	1	0.404	1	2.842	1	7.033	1	2016	43	1.8
50314.1	10000	41.6358	93.1761	-1198	QK	3.1	2	7.0	1	1.0	1	0.448	1	3.132	2	6.990	1	2021	38	1.8
50314.0	10000	41.6358	93.1753	-1199	QK	3.2	2	6.7	0	1.0	1	0.476	2	3.110	2	6.530	0	2020	45	1.8
50313.9	10000	41.6358	93.1746	-1200	QK	3.3	2	6.6	-1	1.1	1	0.503	2	2.900	2	5.771	-1	2045	40	1.8
50313.8	10000	41.6358	93.1738	-1200	QK	3.1	2	6.9	0	1.2	1	0.458	1	2.676	1	5.846	-1	2057	37	1.8
50313.7	10000	41.6358	93.1730	-1201	QK	3.0	2	7.0	0	1.3	1	0.432	1	2.374	1	5.501	-1	2082	35	1.8
50313.6	10000	41.6358	93.1723	-1202	QK	3.2	2	7.3	0	1.3	2	0.442	1	2.483	0	5.614	-1	2083	39	1.8

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-6 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50313.5	10000	41.6358	93.1715	-1201	QK	3.3	2	7.3	0	1.3	2	0.449	1	2.470	0	5.506	-1	2082	55	1.8
50313.4	10000	41.6357	93.1708	-1202	QK	3.2	1	7.7	1	1.3	2	0.417	1	2.378	0	5.697	-1	2086	46	1.8
50313.3	10000	41.6357	93.1700	-1201	QK	3.1	1	7.8	1	1.4	2	0.402	1	2.290	0	5.701	-1	2088	41	1.8
51790.2	10000	41.6345	93.1690	-1184	QK	2.8	1	7.5	0	1.2	1	0.380	0	2.283	0	6.001	-1	1874	48	0.6
51790.1	10000	41.6345	93.1682	-1184	QK	2.8	1	7.9	1	1.2	1	0.354	0	2.290	0	6.468	0	1870	43	0.6
51790.0	10000	41.6346	93.1674	-1185	QK	2.8	1	7.8	1	1.2	1	0.361	0	2.285	0	6.336	0	1861	42	0.6
51789.9	10000	41.6346	93.1666	-1184	QK	2.7	0	7.6	1	1.2	1	0.361	0	2.268	0	6.286	0	1854	40	0.6
51789.8	10000	41.6346	93.1658	-1184	QK	2.7	0	8.0	1	1.2	1	0.343	0	2.334	0	6.796	0	1848	49	0.6
51789.7	10000	41.6346	93.1650	-1184	QK	2.9	1	8.4	2	1.2	1	0.342	0	2.442	0	7.142	1	1845	46	0.6
51789.6	10000	41.6347	93.1642	-1183	QK	2.8	1	8.4	2	1.2	1	0.336	0	2.426	0	7.213	1	1838	34	0.6
51789.5	10000	41.6347	93.1634	-1182	QK	2.6	1	8.2	1	1.2	1	0.320	0	2.209	0	6.895	1	1835	40	0.6
51789.4	10000	41.6347	93.1626	-1181	QK	2.5	1	7.6	1	1.2	1	0.335	0	2.068	0	6.179	0	1822	48	0.6
51789.3	10000	41.6348	93.1618	-1181	QK	2.7	1	7.4	1	1.3	1	0.359	0	2.126	0	5.923	-1	1827	52	0.7
51789.2	10000	41.6348	93.1610	-1182	QK	2.7	1	7.7	1	1.3	1	0.347	0	2.073	0	5.980	-1	1838	45	0.7
51789.1	10000	41.6348	93.1602	-1182	QK	2.6	1	7.0	0	1.3	2	0.365	-1	1.944	-1	5.332	-2	1832	39	0.7
51789.0	10000	41.6349	93.1594	-1182	QK	2.6	0	6.8	-1	1.4	2	0.377	-1	1.893	-1	5.026	-2	1831	44	0.7
51788.9	10000	41.6349	93.1586	-1181	QK	2.7	0	6.7	-1	1.3	2	0.396	1	1.983	-1	5.003	-2	1829	52	0.7
51788.8	10000	41.6349	93.1578	-1180	QK	2.9	1	7.0	0	1.3	2	0.416	1	2.230	0	5.354	-2	1833	49	0.7
51788.7	10000	41.6349	93.1570	-1180	QK	3.1	1	7.1	0	1.3	2	0.435	1	2.370	0	5.448	-1	1856	42	0.7
51788.6	10000	41.6350	93.1562	-1179	QK	3.0	1	7.3	0	1.3	2	0.413	1	2.379	0	5.756	-1	1851	39	0.7
51788.5	10000	41.6350	93.1554	-1178	QK	3.4	2	7.0	0	1.2	1	0.485	2	2.836	1	5.843	-1	1848	38	0.8
51788.4	10000	41.6350	93.1546	-1177	QK	3.4	2	7.3	0	1.2	1	0.460	2	2.901	1	6.307	0	1845	45	0.8
51788.3	10000	41.6351	93.1538	-1176	QK	3.6	2	7.5	0	1.1	0	0.474	2	3.158	2	6.659	0	1835	54	0.8
51788.2	10000	41.6351	93.1530	-1174	QK	3.6	2	7.8	0	1.1	0	0.462	2	3.215	2	6.959	1	1841	43	0.8
51788.1	10000	41.6351	93.1522	-1173	QK	3.5	2	7.6	0	1.1	0	0.466	2	3.114	2	6.684	0	1840	45	0.8
51788.0	10000	41.6352	93.1514	-1172	QK	3.4	2	7.9	1	1.1	0	0.434	1	3.105	2	7.154	1	1832	42	0.8
51787.9	10000	41.6352	93.1506	-1171	QK	3.4	2	8.0	1	1.1	0	0.428	1	3.136	2	7.334	1	1832	38	0.8
51787.8	10000	41.6352	93.1498	-1170	QK	3.4	2	8.4	1	1.1	0	0.404	1	2.666	1	7.435	1	1830	40	0.9
51787.7	10000	41.6352	93.1490	-1168	QK	3.7	2	8.4	1	1.2	1	0.440	1	2.643	1	7.190	1	1831	33	0.9
51787.6	10000	41.6353	93.1482	-1167	QK	3.8	2	8.3	1	1.2	1	0.459	1	2.264	1	6.932	1	1840	58	0.9
51787.5	10000	41.6353	93.1474	-1167	QK	3.7	2	8.8	1	1.2	1	0.420	1	2.234	1	6.760	1	1837	41	0.9
51787.4	10000	41.6353	93.1467	-1166	QK	3.8	2	8.8	1	1.2	1	0.432	1	2.324	1	6.703	1	1839	48	0.9
51787.3	10000	41.6354	93.1458	-1165	QK	3.8	2	8.7	1	1.2	1	0.437	1	2.569	1	6.557	1	1840	40	0.9
51787.2	10000	41.6354	93.1451	-1163	QK	3.8	2	7.5	0	1.2	1	0.504	1	2.527	1	6.252	1	1842	36	0.9
51787.1	10000	41.6354	93.1443	-1161	QK	3.8	2	7.5	0	1.2	1	0.504	1	2.670	1	6.369	1	1830	34	0.9
51787.0	10000	41.6355	93.1435	-1159	QK	3.8	2	7.4	0	1.2	1	0.513	1	2.704	1	6.466	1	1813	44	0.9
51786.9	10000	41.6355	93.1427	-1157	QK	3.8	2	7.4	0	1.1	1	0.513	1	3.035	2	6.914	1	1788	48	0.9
51786.8	10000	41.6355	93.1419	-1155	QK	3.8	2	7.5	0	1.1	1	0.504	1	3.047	2	7.153	1	1784	49	0.9
51786.7	10000	41.6355	93.1411	-1153	QK	3.8	2	7.7	0	1.1	1	0.494	1	2.845	2	6.966	1	1781	58	0.9
51786.6	10000	41.6356	93.1403	-1151	QK	3.8	2	7.8	0	1.1	1	0.487	1	2.817	2	7.148	1	1781	36	1.0
51786.5	10000	41.6356	93.1395	-1149	QK	3.9	2	8.0	1	1.2	1	0.483	1	2.494	2	6.972	1	1791	46	1.0
51786.4	10000	41.6356	93.1387	-1147	QK	3.9	2	8.2	1	1.2	1	0.472	1	2.278	2	6.564	0	1805	45	1.0
51786.3	10000	41.6357	93.1379	-1144	QK	3.9	2	8.3	1	1.2	1	0.472	1	2.357	2	6.668	0	1832	47	1.0
51786.2	10000	41.6357	93.1371	-1141	QK	3.9	2	8.3	1	1.2	1	0.472	1	2.368	2	6.688	0	1862	45	1.0
51786.1	10000	41.6357	93.1363	-1138	QK	3.9	2	8.2	1	1.3	1	0.472	1	2.410	2	6.310	0	1875	47	1.0
51786.0	10000	41.6357	93.1355	-1135	QK	3.9	2	7.9	1	1.3	1	0.472	1	2.440	2	6.445	0	1893	43	1.0
51785.9	10000	41.6358	93.1347	-1131	QK	3.9	2	7.6	1	1.3	1	0.472	1	2.250	2	6.229	0	1910	42	1.0
51785.8	10000	41.6358	93.1339	-1128	QK	3.9	2	7.3	1	1.3	1	0.472	1	2.448	2	6.340	0	1921	48	1.0
51785.7	10000	41.6358	93.1330	-1126	QK	3.9	2	7.2	1	1.3	1	0.472	1	2.605	2	6.316	0	1936	46	1.0
51785.6	10000	41.6358	93.1321	-1123	QK	3.9	2	7.6	1	1.3	1	0.472	1	2.515	2	6.035	-1	1931	32	1.0
51785.5	10000	41.6358	93.1312	-1119	QK	3.9	2	7.3	1	1.3	1	0.472	1	2.534	2	6.644	-1	1920	42	1.0
51785.4	10000	41.6358	93.1304	-1116	QK	3.1	2	7.1	0	1.2	1	0.435	1	2.519	1	5.794	-1	1909	37	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51785.3	10000	41.6358	93.1295	-1113	QK	3.1	1	7.0	0	1.2	1	0.445	1	2.554	1	5.736	-1	1898	48	1.0
51785.2	10000	41.6358	93.1286	-1110	QK	3.1	1	6.7	-1	1.2	1	0.470	2	2.624	1	5.585	-1	1876	43	1.0
51785.1	10000	41.6358	93.1277	-1107	QAL	3.2	1	6.8	0	1.2	1	0.462	1	2.730	1	5.909	0	1849	43	1.0
51785.0	10000	41.6358	93.1268	-1103	QAL	3.1	1	6.8	0	1.2	1	0.456	1	2.667	1	5.844	0	1820	51	1.0
51784.9	10000	41.6358	93.1259	-1100	QAL	3.0	1	7.1	1	1.2	1	0.421	0	2.584	0	6.144	0	1804	38	1.0
51784.8	10000	41.6358	93.1250	-1097	QAL	2.9	1	7.3	1	1.2	1	0.400	0	2.522	0	6.299	0	1814	35	1.0
51784.7	10000	41.6358	93.1242	-1094	QAL	3.0	1	7.5	1	1.2	1	0.403	0	2.491	0	6.184	0	1819	43	1.0
51784.6	10000	41.6358	93.1233	-1092	QAL	3.1	1	7.6	1	1.2	1	0.410	0	2.598	1	6.343	0	1822	41	1.0
51784.5	10000	41.6359	93.1224	-1089	QAL	3.0	1	7.4	1	1.2	1	0.405	0	2.470	0	6.096	0	1814	35	1.0
51784.4	10000	41.6359	93.1215	-1086	QAL	2.8	1	7.0	0	1.3	1	0.405	0	2.211	0	5.460	-1	1811	48	1.1
51784.3	10000	41.6359	93.1206	-1083	QAL	2.6	0	7.3	1	1.3	2	0.360	0	1.983	-1	5.511	-1	1813	54	1.1
51784.2	10000	41.6359	93.1198	-1080	QAL	2.6	0	6.7	0	1.3	2	0.386	0	1.997	-1	5.169	-1	1787	48	1.1
51784.1	10000	41.6359	93.1189	-1077	QAL	2.3	0	6.5	0	1.3	1	0.358	0	1.821	-1	5.093	-1	1751	49	1.0
51784.0	10000	41.6359	93.1180	-1074	QAL	2.4	0	6.4	0	1.3	1	0.370	0	1.884	-1	5.090	-1	1705	43	1.1
51783.9	10000	41.6359	93.1171	-1071	QAL	2.1	-1	5.9	-1	1.2	1	0.348	0	1.701	-1	4.891	-2	1641	51	1.1
51783.8	10000	41.6359	93.1162	-1068	QAL	2.1	-1	6.1	0	1.1	0	0.341	0	1.811	-1	5.315	-1	1582	50	1.1
51783.7	10000	41.6359	93.1153	-1065	QAL	2.1	-1	5.9	-1	1.0	0	0.349	0	1.978	-1	5.661	-1	1532	44	1.1
51783.6	10000	41.6359	93.1144	-1062	QAL	2.3	0	5.5	-1	0.9	-1	0.422	0	2.489	0	5.903	0	1471	45	1.1
51783.5	10000	41.6359	93.1136	-1059	QAL	2.1	-1	5.5	-1	0.9	-1	0.382	0	2.360	0	6.173	0	1426	47	1.0
51783.4	10000	41.6359	93.1127	-1056	QAL	1.9	-1	5.2	-1	0.9	-1	0.370	0	2.237	0	6.041	0	1367	46	1.0
51783.3	10000	41.6359	93.1118	-1053	QAL	1.7	-1	5.0	-1	0.8	-2	0.338	0	2.013	-1	5.957	0	1318	58	1.0
51783.2	10000	41.6359	93.1109	-1051	QAL	1.6	-1	5.0	-1	0.8	-2	0.325	-1	1.949	-1	5.997	0	1281	44	1.0
51783.1	10000	41.6359	93.1100	-1047	QAL	1.7	-1	5.0	-2	0.8	-2	0.341	0	2.050	0	6.019	0	1268	46	1.0
51783.0	10000	41.6359	93.1091	-1044	QAL	1.6	-2	5.1	-1	0.8	-2	0.308	-1	1.840	-1	5.963	0	1257	42	1.0
51782.9	10000	41.6359	93.1082	-1040	QAL	1.4	-2	4.9	-2	0.9	-1	0.289	-1	1.558	-1	5.387	-1	1258	44	1.0
51782.8	10000	41.6359	93.1074	-1037	QAL	1.6	-2	5.2	-1	0.9	-1	0.307	-1	1.736	-1	5.647	-1	1283	48	1.0
51782.7	10000	41.6359	93.1065	-1033	QAL	1.6	-2	5.3	-1	1.0	-1	0.303	-1	1.666	-1	5.506	-1	1314	50	1.0
51782.6	10000	41.6359	93.1056	-1031	QAL	1.6	-2	5.7	-1	1.0	-1	0.280	-1	1.635	-1	5.844	-1	1346	47	1.0
51782.5	10000	41.6359	93.1047	-1028	QAL	1.7	-1	5.8	-1	1.0	-1	0.299	-1	1.778	-1	5.954	0	1374	51	1.0
51782.4	10000	41.6359	93.1038	-1026	QAL	1.8	-1	6.0	-1	1.0	-1	0.296	-1	1.828	-1	6.183	0	1393	51	1.0
51782.3	10000	41.6359	93.1030	-1023	QAL	1.9	-1	6.0	0	1.0	-1	0.321	-1	2.060	0	6.418	0	1420	54	1.0
51782.2	10000	41.6359	93.1021	-1021	QAL	1.9	-1	6.5	0	1.0	-1	0.297	-1	2.029	-1	6.831	1	1445	52	1.0
51782.1	10000	41.6360	93.1012	-1018	QAL	1.8	-1	6.2	0	1.0	-1	0.295	-1	1.810	-1	6.143	0	1462	40	1.0
51782.0	10000	41.6360	93.1003	-1016	QAL	2.0	-1	6.3	0	1.0	-1	0.318	-1	2.050	0	6.447	0	1481	52	1.0
51781.9	10000	41.6360	93.0994	-1013	QAL	2.3	0	6.2	0	1.0	-1	0.362	0	2.310	0	6.377	0	1500	44	1.0
51781.8	10000	41.6360	93.0985	-1011	QAL	2.2	0	6.6	0	1.0	0	0.339	0	2.187	0	6.452	0	1531	47	1.0
51781.7	10000	41.6360	93.0976	-1008	QAL	2.0	-1	6.4	0	1.1	-1	0.317	-1	1.907	-1	6.024	0	1559	36	1.0
51781.6	10000	41.6360	93.0968	-1006	QAL	2.0	-1	6.6	0	1.1	-1	0.301	-1	1.786	-1	5.927	0	1580	46	1.0
51781.5	10000	41.6360	93.0959	-1004	QAL	2.0	-1	6.7	0	1.1	-1	0.302	-1	1.807	-1	5.992	0	1593	36	1.0
51781.4	10000	41.6360	93.0950	-1001	QAL	2.3	0	7.0	0	1.1	0	0.336	0	2.233	0	6.638	1	1607	42	1.0
51781.3	10000	41.6360	93.0941	-999	QAL	2.4	0	7.4	0	1.1	0	0.329	-1	2.420	0	7.364	2	1629	52	1.0
51781.2	10000	41.6360	93.0932	-998	QAL	2.4	0	7.4	1	1.1	0	0.324	-1	2.351	0	7.250	1	1650	41	1.0
51781.1	10000	41.6360	93.0923	-997	QAL	2.6	0	7.5	1	1.1	0	0.340	0	2.544	0	7.480	2	1665	43	1.0
51781.0	10000	41.6360	93.0915	-995	QAL	2.6	0	7.6	1	1.1	0	0.337	0	2.524	0	7.497	2	1678	47	1.0
51780.9	10000	41.6360	93.0906	-994	QAL	2.8	1	7.4	1	1.1	0	0.380	1	2.827	1	7.444	2	1691	34	1.0
51780.8	10000	41.6360	93.0897	-993	QAL	2.9	1	7.3	1	1.1	0	0.399	1	2.916	1	7.309	2	1701	36	1.0
51780.7	10000	41.6360	93.0888	-992	QAL	2.9	1	7.0	1	1.1	0	0.423	1	2.834	1	6.702	1	1712	43	1.0
51780.6	10000	41.6360	93.0879	-991	QAL	2.9	1	6.5	1	1.1	1	0.448	1	2.746	1	6.124	0	1704	50	1.0
51780.5	10000	41.6360	93.0870	-991	QAL	2.9	1	6.7	1	1.1	1	0.433	1	2.660	1	6.146	0	1711	51	1.0
51780.4	10000	41.6360	93.0862	-990	QAL	3.0	1	6.8	1	1.1	1	0.437	1	2.668	1	6.110	0	1709	49	1.0
51780.3	10000	41.6360	93.0853	-989	QAL	3.2	1	6.9	1	1.1	1	0.469	1	2.947	1	6.283	0	1711	43	1.0
51780.2	10000	41.6360	93.0844	-988	QAL	2.9	1	7.0	0	1.1	0	0.407	0	2.646	1	6.495	0	1710	40	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51780.1	10000	41.6360	93.0835	-988	QAL	2.7	1	7.2	1	1.1	0	0.379	0	2.475	0	6.536	1	1713	49	1.1
51780.0	10000	41.6360	93.0826	-987	QAL	2.5	0	7.5	1	1.1	0	0.336	-1	2.329	0	6.929	1	1701	51	1.1
51779.9	10000	41.6360	93.0817	-987	QAL	2.4	0	7.5	1	1.1	0	0.326	-1	2.242	0	6.866	1	1710	41	1.1
51779.8	10000	41.6360	93.0808	-987	QAL	2.3	0	7.4	1	1.1	0	0.312	-1	2.082	0	6.670	1	1700	46	1.1
51779.7	10000	41.6360	93.0800	-986	QAL	2.0	-1	7.4	1	1.1	0	0.273	-1	1.77[illegible]	[illegible]	6.499	0	1693	50	1.1
51779.6	10000	41.6360	93.0791	-985	QAL	2.0	-1	7.5	1	1.2	1	0.265	-1	1.695	-1	6.406	0	1704	33	1.1
51779.5	10000	41.6360	93.0782	-983	QAL	2.0	-1	7.5	1	1.2	1	0.274	-1	1.770	-1	6.469	0	1691	34	1.1
51779.4	10000	41.6361	93.0773	-983	QAL	2.1	-1	7.4	1	1.1	0	0.291	-1	1.882	-1	6.462	0	1684	44	1.1
51779.3	10000	41.6361	93.0764	-986	QAL	2.0	-1	7.3	1	1.2	1	0.266	-1	1.628	-1	6.116	0	1691	41	1.1
51779.2	10000	41.6361	93.0755	-986	QAL	1.9	-1	7.5	1	1.2	1	0.248	-2	1.498	-1	6.043	0	1693	32	1.1
51779.1	10000	41.6361	93.0747	-986	QAL	1.9	-1	7.8	1	1.3	1	0.239	-2	1.470	-2	6.148	0	1709	42	1.1
51779.0	10000	41.6361	93.0738	-986	QAL	2.1	-1	7.6	1	1.3	1	0.271	-1	1.643	-1	6.062	0	1727	43	1.1
51778.9	10000	41.6361	93.0729	-985	QAL	1.9	-1	7.7	1	1.3	1	0.249	-1	1.540	-1	6.183	0	1721	39	1.1
51778.8	10000	41.6361	93.0720	-985	QAL	2.1	-1	7.8	1	1.3	2	0.271	-1	1.622	-1	5.988	0	1739	43	1.1
51778.7	10000	41.6361	93.0711	-985	QAL	2.1	-1	7.9	1	1.3	2	0.271	-1	1.610	-1	5.950	0	1760	52	1.1
51778.6	10000	41.6361	93.0702	-984	QAL	2.3	0	7.9	1	1.3	1	0.285	-1	1.755	-1	6.154	0	1770	34	1.1
51778.5	10000	41.6361	93.0694	-984	QAL	2.3	0	7.7	1	1.3	1	0.297	-1	1.809	-1	6.087	0	1774	46	1.1
51778.4	10000	41.6361	93.0685	-983	QAL	2.3	0	7.5	1	1.2	1	0.306	-1	1.896	-1	6.199	0	1763	40	1.1
51778.3	10000	41.6361	93.0676	-983	QAL	2.4	0	7.6	1	1.2	1	0.311	-1	1.936	-1	6.226	0	1772	41	1.1
51778.2	10000	41.6361	93.0667	-982	QAL	2.5	0	7.2	1	1.2	1	0.342	0	1.989	-1	5.809	0	1782	49	1.1
51778.1	10000	41.6361	93.0658	-982	QAL	2.5	0	6.9	1	1.2	1	0.363	0	2.030	-1	5.598	-1	1778	43	1.1
51778.0	10000	41.6361	93.0649	-981	QAL	2.6	0	6.8	1	1.2	1	0.381	0	2.105	0	5.519	-1	1779	41	1.1
51777.9	10000	41.6361	93.0641	-980	QAL	2.6	0	6.8	1	1.2	1	0.390	0	2.187	0	5.616	-1	1784	45	1.1
51777.8	10000	41.6361	93.0632	-979	QAL	2.6	0	7.4	1	1.3	1	0.346	0	2.070	0	5.977	0	1800	39	1.1
51777.7	10000	41.6361	93.0623	-978	QAL	2.7	0	7.7	1	1.3	2	0.346	0	1.993	-1	5.753	0	1840	48	1.1
51777.6	10000	41.6361	93.0614	-977	QK	2.5	0	7.6	0	1.3	1	0.329	0	1.931	-1	5.864	-1	1834	43	1.1
51777.5	10000	41.6361	93.0605	-977	QK	2.4	0	7.9	1	1.3	2	0.308	-1	1.868	-1	6.064	-1	1821	56	1.1
51777.4	10000	41.6361	93.0596	-976	QK	2.2	-1	8.1	1	1.3	1	0.278	-1	1.770	-1	6.364	0	1816	39	1.1
51777.3	10000	41.6361	93.0587	-975	QK	2.3	-1	8.3	1	1.3	1	0.272	-1	1.792	-1	6.578	0	1815	37	1.1
51777.2	10000	41.6361	93.0579	-975	QK	2.4	0	8.3	1	1.3	1	0.285	-1	1.889	-1	6.619	0	1812	46	1.1
51777.1	10000	41.6361	93.0570	-974	QK	2.5	0	8.1	1	1.2	1	0.310	-1	2.061	0	6.651	0	1814	45	1.1
51777.0	10000	41.6361	93.0561	-973	QK	2.5	0	7.8	1	1.1	0	0.321	0	2.253	0	7.017	1	1798	36	1.1
51776.9	10000	41.6361	93.0552	-971	QK	2.8	1	7.9	1	1.2	1	0.343	0	2.367	0	6.906	1	1822	40	1.2
51776.8	10000	41.6361	93.0543	-972	QK	2.9	1	8.1	1	1.2	1	0.367	0	2.509	0	6.836	1	1850	36	1.2
51776.7	10000	41.6361	93.0535	-973	QK	2.9	1	8.1	1	1.2	1	0.357	0	2.471	0	6.928	1	1856	41	1.2
51776.6	10000	41.6361	93.0526	-973	QK	2.8	1	8.1	1	1.2	1	0.348	0	2.376	0	6.835	1	1865	51	1.2
51776.5	10000	41.6361	93.0517	-973	QK	2.8	1	8.0	1	1.2	1	0.344	0	2.323	0	6.746	0	1879	37	1.2
51776.4	10000	41.6361	93.0509	-974	QK	2.8	1	7.9	1	1.2	1	0.353	0	2.324	0	6.577	0	1876	39	1.2
51776.3	10000	41.6361	93.0500	-975	QK	2.8	1	8.0	1	1.2	1	0.354	0	2.313	0	6.532	0	1867	47	1.2
51776.2	10000	41.6361	93.0491	-975	QK	2.6	1	7.8	1	1.2	1	0.338	0	2.190	0	6.489	0	1851	64	1.2
51776.1	10000	41.6361	93.0483	-976	QK	2.4	1	8.1	1	1.2	1	0.298	-1	2.001	-1	6.704	0	1832	38	1.2
51776.0	10000	41.6361	93.0474	-977	QK	2.5	1	8.0	1	1.2	1	0.310	-1	2.011	-1	6.486	0	1845	39	1.2
51775.9	10000	41.6361	93.0465	-979	QK	2.3	1	8.1	1	1.2	1	0.289	-1	1.925	-1	6.672	0	1852	49	1.2
51775.8	10000	41.6361	93.0457	-980	QK	2.3	1	8.1	1	1.3	2	0.283	-1	1.762	-1	6.231	0	1857	36	1.2
51775.7	10000	41.6361	93.0448	-983	QK	2.2	1	8.1	1	1.3	2	0.271	-1	1.681	-1	6.214	0	1863	39	1.2
51775.6	10000	41.6361	93.0439	-985	QK	2.1	1	8.1	1	1.3	2	0.260	-1	1.580	-1	6.083	-1	1887	58	1.2
51775.5	10000	41.6361	93.0431	-988	QK	2.2	1	8.1	1	1.4	2	0.259	-1	1.506	-2	5.811	-1	1884	44	1.2
51775.4	10000	41.6361	93.0422	-990	QK	2.1	1	8.2	1	1.4	2	0.271	-1	1.603	-1	5.913	-1	1903	47	1.2
51775.3	10000	41.6361	93.0414	-993	QK	2.2	1	8.2	1	1.4	2	0.253	-1	1.540	-2	6.086	-1	1910	46	1.2
51775.2	10000	41.6361	93.0405	-997	QK	2.3	1	8.4	1	1.4	2	0.294	-1	1.643	-1	5.592	-1	1912	41	1.2
51775.1	10000	41.6361	93.0396	-1000	QK	2.4	1	8.4	1	1.3	2	0.286	-1	1.784	-1	6.233	0	1909	57	1.2
51775.0	10000	41.6360	93.0387	-1004	QK	2.5	0	8.2	1	1.4	2	0.308	-1	1.842	-1	5.973	-1	1912	42	1.2

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51774.9	10000	41.6360	93.0379	-1008	QK	2.7	0	8.2	1	1.4	2	0.331	0	1.963	-1	5.932	-1	1906	39	1.2
51774.8	10000	41.6360	93.0370	-1012	QK	2.8	1	8.2	1	1.3	2	0.346	0	2.113	0	6.105	-1	1897	56	1.2
51774.7	10000	41.6360	93.0361	-1018	QK	2.7	0	8.2	1	1.4	2	0.331	0	1.951	-1	5.895	-1	1888	47	1.2
51774.6	10000	41.6360	93.0353	-1022	QK	2.8	1	8.2	1	1.4	2	0.339	0	2.036	0	6.011	-1	1879	45	1.2
51774.5	10000	41.6360	93.0344	-1027	QK	2.6	0	8.7	2	1.4	2	0.295	-1	1.896	-1	6.420	0	1880	38	1.2
51774.4	10000	41.6360	93.0336	-1030	QK	2.5	0	8.1	1	1.4	2	0.304	-1	1.808	-1	5.950	-1	1869	43	1.2
51774.3	10000	41.6360	93.0327	-1034	QK	2.4	0	8.5	2	1.4	2	0.285	-1	1.784	-1	6.252	0	1878	48	1.2
51774.2	10000	41.6360	93.0318	-1038	QK	2.3	-1	8.4	2	1.4	2	0.269	-1	1.682	-1	6.242	0	1876	54	1.2
51774.1	10000	41.6360	93.0310	-1042	QK	2.2	-1	8.8	2	1.4	2	0.248	-1	1.557	-1	6.289	0	1895	61	1.2
51774.0	10000	41.6360	93.0301	-1047	QK	2.3	-1	8.8	2	1.4	2	0.258	-1	1.672	-1	6.491	0	1893	36	1.2
51773.9	10000	41.6360	93.0292	-1051	QK	2.1	-1	8.5	2	1.4	2	0.248	-1	1.532	-2	6.186	0	1882	49	1.2
51773.8	10000	41.6360	93.0284	-1056	QK	2.4	0	8.3	1	1.4	2	0.293	-1	1.771	-1	6.047	-1	1870	51	1.2
51773.7	10000	41.6360	93.0275	-1061	QK	2.6	0	8.3	1	1.3	2	0.311	-1	1.939	-1	6.232	0	1870	48	1.2
51773.6	10000	41.6360	93.0266	-1065	QK	2.5	0	8.2	1	1.3	1	0.307	-1	1.940	-1	6.320	0	1853	41	1.2
51773.5	10000	41.6360	93.0258	-1070	QK	2.4	0	7.8	1	1.2	1	0.310	-1	1.946	-1	6.274	0	1843	40	1.2
51773.4	10000	41.6360	93.0249	-1075	QK	2.6	0	7.5	0	1.2	1	0.345	0	2.131	0	6.171	0	1829	61	1.2
51773.3	10000	41.6360	93.0240	-1079	QK	2.6	0	7.2	0	1.2	1	0.365	0	2.140	0	5.865	-1	1825	35	1.2
51773.2	10000	41.6360	93.0232	-1083	QK	2.8	1	7.1	0	1.2	1	0.401	1	2.399	0	5.988	-1	1814	24	1.2
51773.1	10000	41.6359	93.0223	-1087	QK	2.5	0	7.1	0	1.1	0	0.355	0	2.271	0	6.401	0	1780	66	1.2
51773.0	10000	41.6359	93.0214	-1090	QK	2.4	0	7.0	0	1.1	0	0.342	0	2.181	0	6.379	0	1736	43	1.2
51772.9	10000	41.6359	93.0206	-1094	QK	2.2	-1	6.7	-1	1.1	0	0.333	0	2.070	0	6.209	0	1706	53	1.2
51772.8	10000	41.6359	93.0197	-1096	QK	2.5	0	6.9	0	1.1	0	0.356	0	2.304	0	6.476	0	1683	44	1.2
51772.7	10000	41.6359	93.0188	-1099	QK	2.3	0	7.0	0	1.0	-1	0.326	0	2.197	0	6.737	0	1664	44	1.2
51772.6	10000	41.6359	93.0180	-1101	QK	2.3	0	6.9	-1	1.0	-1	0.338	0	2.298	0	6.804	0	1676	40	1.2
51772.5	10000	41.6359	93.0171	-1102	QK	2.5	0	7.3	0	1.0	-1	0.343	0	2.479	0	7.237	1	1685	37	1.2
51772.4	10000	41.6359	93.0163	-1104	QK	2.4	0	7.1	0	1.1	-1	0.343	0	2.288	0	6.668	0	1716	44	1.2
51772.3	10000	41.6359	93.0154	-1105	QK	2.4	0	7.4	0	1.1	0	0.325	0	2.124	0	6.531	0	1758	42	1.2
51772.2	10000	41.6359	93.0145	-1106	QK	2.7	0	7.4	0	1.1	1	0.366	0	2.468	0	6.735	0	1777	42	1.2
51772.1	10000	41.6359	93.0137	-1106	QK	2.7	0	7.6	0	1.1	1	0.352	0	2.398	0	6.807	0	1780	41	1.2
51772.0	10000	41.6359	93.0128	-1106	QK	2.7	0	7.4	0	1.1	1	0.366	0	2.413	0	6.594	0	1770	46	1.2
51771.9	10000	41.6359	93.0119	-1106	QK	2.7	0	7.6	0	1.1	1	0.351	0	2.446	0	6.965	1	1730	34	1.2
51771.8	10000	41.6359	93.0111	-1106	QK	2.3	0	7.3	0	1.1	0	0.314	-1	2.109	0	6.722	0	1709	44	1.2
51771.7	10000	41.6359	93.0102	-1106	QK	2.5	0	7.2	0	1.1	1	0.341	0	2.350	0	6.900	1	1685	47	1.2
51771.6	10000	41.6359	93.0093	-1105	QK	2.2	-1	7.3	-1	1.0	-1	0.297	-1	2.209	0	7.429	1	1658	42	1.2
51771.5	10000	41.6359	93.0085	-1105	QK	2.3	-1	7.5	-1	1.0	-1	0.301	-1	2.200	0	7.319	1	1654	38	1.2
51771.4	10000	41.6359	93.0076	-1104	QK	2.0	-1	7.5	-1	1.0	-1	0.271	-1	1.986	-1	7.319	1	1659	48	1.2
51771.3	10000	41.6358	93.0067	-1103	QK	2.1	-1	7.6	-1	1.1	0	0.280	-1	2.060	0	7.368	1	1692	56	1.2
51771.2	10000	41.6358	93.0059	-1101	QK	2.1	-1	7.6	0	1.1	-1	0.279	-1	1.963	-1	7.032	1	1711	40	1.2
51771.1	10000	41.6358	93.0050	-1100	QK	2.3	-1	7.4	0	1.1	-1	0.309	-1	2.058	0	6.655	0	1744	41	1.2
51771.0	10000	41.6358	93.0041	-1099	QK	2.5	0	7.6	0	1.1	0	0.325	0	2.215	0	6.822	0	1757	36	1.2
51770.9	10000	41.6358	93.0033	-1098	QK	2.8	0	7.0	0	1.2	1	0.406	1	2.472	0	6.087	-1	1780	42	1.2
51770.8	10000	41.6358	93.0024	-1096	QK	2.7	0	7.0	0	1.2	1	0.391	1	2.343	0	5.998	-1	1788	35	1.2
51770.7	10000	41.6358	93.0015	-1095	QK	3.0	1	6.8	-1	1.2	1	0.438	1	2.474	0	5.650	-1	1801	41	1.2
51770.6	10000	41.6358	93.0007	-1093	QK	2.8	0	7.0	0	1.2	1	0.398	1	2.251	0	5.654	-1	1802	44	1.2
51770.5	10000	41.6358	92.9998	-1092	QK	2.7	0	6.9	0	1.3	1	0.397	1	2.169	0	5.457	-1	1819	46	1.2
51770.4	10000	41.6358	92.9989	-1090	QK	2.6	0	7.0	0	1.3	1	0.370	0	2.077	0	5.616	-1	1818	48	1.2
51770.3	10000	41.6358	92.9981	-1089	QK	2.3	-1	7.2	0	1.3	1	0.338	0	1.774	-1	5.255	-2	1826	39	1.2
51770.2	10000	41.6358	92.9972	-1087	QK	2.2	-1	7.1	0	1.4	1	0.305	-1	1.607	-1	5.273	-2	1831	49	1.2
51770.1	10000	41.6358	92.9963	-1084	QK	2.0	-1	7.3	0	1.4	1	0.280	-1	1.423	-2	5.082	-2	1838	47	1.2
51770.0	10000	41.6358	92.9955	-1083	QK	1.8	-1	7.2	0	1.4	1	0.254	-1	1.323	-2	5.203	-2	1845	50	1.2
51769.9	10000	41.6358	92.9946	-1081	QK	2.0	-1	7.4	0	1.4	1	0.281	-1	1.461	-2	5.196	-2	1840	47	1.2
51769.8	10000	41.6358	92.9937	-1079	QK	2.1	-1	7.5	0	1.4	2	0.279	-1	1.533	-2	5.493	-1	1825	48	1.2

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51769.7	10000	41.6358	92.9929	-1077	QK	2.1	-1	7.3	0	1.4	2	0.284	-1	1.503	-2	5.295	-2	1825	40	1.2
51769.6	10000	41.6357	92.9920	-1076	QK	2.2	-1	7.4	0	1.4	2	0.290	-1	1.579	-1	5.44[illegible]	-1	1835	56	1.2
51769.5	10000	41.6357	92.9911	-1073	QK	2.2	-1	7.8	1	1.3	2	0.279	-1	1.624	-1	5.82[illegible]	-1	1833	49	1.2
51769.4	10000	41.6357	92.9903	-1072	QK	2.2	-1	7.9	1	1.3	2	0.285	-1	1.674	-1	5.867	-1	1846	42	1.2
51769.3	10000	41.6357	92.9894	-1071	QK	2.1	-1	8.1	1	1.3	2	0.265	-1	1.599	-1	6.044	-1	1842	41	1.2
51769.2	10000	41.6357	92.9886	-1069	QK	2.1	-1	7.9	1	1.3	2	0.261	-1	1.547	-2	5.933	-1	1843	44	1.2
51769.1	10000	41.6357	92.9877	-1067	QK	2.0	-1	7.8	1	1.3	2	0.254	-1	1.477	-2	5.809	-1	1862	50	1.2
51769.0	10000	41.6357	92.9868	-1065	QK	2.1	-1	8.0	1	1.3	2	0.260	-1	1.547	-2	5.944	-1	1861	54	1.2
51768.9	10000	41.6357	92.9860	-1063	QK	2.0	-1	8.0	1	1.3	2	0.254	-1	1.546	-2	6.074	-1	1851	51	1.2
51768.8	10000	41.6357	92.9851	-1061	QK	2.0	-1	7.8	1	1.3	1	0.262	-1	1.612	-1	6.158	0	1857	46	1.2
51768.7	10000	41.6357	92.9842	-1059	QK	2.1	-1	7.7	1	1.3	1	0.279	-1	1.710	-1	6.126	-1	1841	44	1.2
51768.6	10000	41.6357	92.9834	-1058	QK	2.1	-1	7.5	0	1.3	1	0.278	-1	1.641	-1	5.908	-1	1837	41	1.2
51768.5	10000	41.6357	92.9825	-1055	QK	2.1	-1	7.5	0	1.3	1	0.283	-1	1.644	-1	5.816	-1	1829	53	1.2
51768.4	10000	41.6357	92.9816	-1054	QK	2.3	0	7.5	0	1.3	1	0.306	-1	1.821	-1	5.943	-1	1821	46	1.2
51768.3	10000	41.6357	92.9808	-1052	QK	2.3	0	7.2	0	1.3	1	0.318	0	1.809	-1	5.684	-1	1828	45	1.2
51768.2	10000	41.6357	92.9799	-1050	QK	2.5	0	7.1	0	1.3	1	0.344	0	1.941	-1	5.643	-1	1818	48	1.2
51768.1	10000	41.6357	92.9790	-1048	QK	2.2	-1	7.2	0	1.3	2	0.308	-1	1.675	-1	5.439	-1	1813	47	1.2
51768.0	10000	41.6357	92.9782	-1046	QK	2.2	-1	7.5	0	1.3	1	0.297	-1	1.713	-1	5.774	-1	1808	42	1.2
51767.9	10000	41.6357	92.9773	-1044	QK	2.4	0	7.6	0	1.3	1	0.314	-1	1.877	-1	5.981	-1	1811	44	1.2
51767.8	10000	41.6357	92.9764	-1042	QK	2.5	0	7.6	0	1.2	1	0.330	0	2.057	0	6.238	0	1816	49	1.3
51767.7	10000	41.6357	92.9756	-1040	QK	2.4	0	7.7	1	1.2	1	0.316	0	1.968	-1	6.222	0	1813	44	1.3
51767.6	10000	41.6356	92.9747	-1037	QK	2.4	0	7.8	1	1.2	1	0.307	-1	1.977	-1	6.451	0	1805	35	1.3
51767.5	10000	41.6356	92.9738	-1033	QK	2.3	-1	7.5	0	1.2	1	0.302	-1	1.877	-1	6.214	0	1815	44	1.3
51767.4	10000	41.6356	92.9730	-1027	QK	2.6	0	7.4	0	1.2	1	0.348	0	2.136	0	6.140	0	1817	39	1.3
51767.3	10000	41.6356	92.9721	-1027	QK	2.6	0	7.2	0	1.2	1	0.362	0	2.131	0	5.895	-1	1829	47	1.3
51767.2	10000	41.6356	92.9713	-1029	QK	2.7	0	7.1	0	1.2	1	0.371	0	2.174	0	5.862	-1	1850	49	1.3
51767.1	10000	41.6356	92.9704	-1028	QK	2.5	0	7.6	1	1.3	1	0.327	0	1.975	-1	6.047	-1	1872	39	1.3
51767.0	10000	41.6356	92.9695	-1026	QK	2.7	0	7.4	0	1.2	1	0.367	0	2.193	0	5.982	-1	1881	48	1.3
51766.9	10000	41.6356	92.9686	-1024	QK	2.8	1	7.7	1	1.2	1	0.371	0	2.344	0	6.326	0	1887	42	1.3
51766.8	10000	41.6356	92.9678	-1022	QK	3.0	1	7.7	1	1.3	1	0.389	0	2.397	0	6.161	0	1890	60	1.3
51766.7	10000	41.6356	92.9669	-1019	QK	3.0	1	7.5	1	1.3	1	0.399	0	2.408	0	6.031	-1	1899	39	1.3
51766.6	10000	41.6356	92.9660	-1017	QK	2.9	1	7.9	1	1.3	1	0.367	0	2.273	0	6.189	0	1907	49	1.3
51766.5	10000	41.6356	92.9652	-1015	QK	2.8	1	7.7	1	1.3	1	0.363	0	2.156	0	5.933	-1	1889	47	1.3
51766.4	10000	41.6356	92.9643	-1014	QK	3.0	1	7.2	1	1.3	2	0.412	0	2.256	0	5.474	-1	1872	51	1.3
51766.3	10000	41.6356	92.9635	-1012	QK	2.7	0	7.3	1	1.3	1	0.374	0	2.118	0	5.669	-1	1869	50	1.3
51766.2	10000	41.6356	92.9626	-1010	QK	2.6	0	7.2	1	1.3	1	0.358	0	1.926	-1	5.388	-2	1870	54	1.3
51766.1	10000	41.6356	92.9617	-1008	QK	2.3	0	7.2	1	1.3	1	0.325	0	1.832	-1	5.646	-1	1873	39	1.4
51766.0	10000	41.6355	92.9609	-1007	QK	2.3	0	7.4	1	1.3	1	0.315	0	1.796	-1	5.705	-1	1869	32	1.4
51765.9	10000	41.6355	92.9600	-1005	QK	2.5	0	7.1	1	1.3	1	0.350	0	1.969	-1	5.624	-1	1861	44	1.4
51765.8	10000	41.6355	92.9591	-1003	QK	2.8	0	7.3	1	1.3	1	0.378	0	2.219	0	5.872	-1	1865	43	1.4
51765.7	10000	41.6355	92.9583	-1001	QK	2.5	0	7.1	1	1.3	1	0.349	0	2.110	0	6.038	-1	1857	58	1.4
51765.6	10000	41.6355	92.9574	-999	QK	2.4	0	7.0	1	1.2	1	0.349	0	2.099	0	6.019	-1	1855	44	1.4
51765.5	10000	41.6355	92.9565	-998	QK	2.5	0	7.1	1	1.2	1	0.359	0	2.252	0	6.275	0	1834	35	1.4
51765.4	10000	41.6355	92.9557	-996	QK	2.5	0	7.0	1	1.2	1	0.354	0	2.261	0	6.384	0	1810	52	1.4
51765.3	10000	41.6355	92.9548	-993	QK	2.3	0	7.1	1	1.1	1	0.325	0	2.218	0	6.818	0	1795	46	1.4
51765.2	10000	41.6355	92.9539	-991	QK	2.1	-1	7.1	1	1.0	1	0.292	-1	1.992	-1	6.815	0	1764	39	1.4
51765.1	10000	41.6355	92.9531	-990	QK	1.7	-2	6.7	1	1.0	1	0.253	-1	1.682	-1	6.659	0	1721	44	1.4
51765.0	10000	41.6355	92.9522	-988	QK	1.8	-1	6.9	1	1.1	1	0.263	-1	1.735	-1	6.591	0	1695	50	1.4
51764.9	10000	41.6355	92.9513	-986	QAL	1.6	-2	6.4	1	1.1	1	0.246	-2	1.473	-2	5.988	0	1666	46	1.4
51764.8	10000	41.6355	92.9505	-984	QAL	1.5	-2	6.2	1	1.1	1	0.239	-2	1.385	-2	5.786	0	1666	68	1.4
51764.7	10000	41.6355	92.9496	-982	QAL	1.6	-2	6.5	1	1.1	1	0.249	-1	1.381	-2	5.541	-1	1665	46	1.4
51764.6	10000	41.6355	92.9487	-980	QAL	1.6	-2	6.0	-1	1.1	1	0.264	-1	1.384	-2	5.243	-1	1666	50	1.4

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51764.5	10000	41.6355	92.9479	-978	QAL	1.9	-1	6.2	0	1.2	1	0.301	-1	1.562	-1	5.187	-1	1688	41	1.4
51764.4	10000	41.6355	92.9470	-976	QAL	2.0	-1	6.3	0	1.2	1	0.324	-1	1.627	-1	5.027	-1	1724	47	1.4
51764.3	10000	41.6354	92.9462	-973	QAL	2.0	-1	6.5	0	1.3	1	0.311	-1	1.600	-1	5.143	-1	1765	51	1.4
51764.2	10000	41.6354	92.9453	-971	QAL	2.1	-1	7.1	1	1.3	1	0.300	-1	1.666	-1	5.547	-1	1792	36	1.4
51764.1	10000	41.6354	92.9444	-968	QAL	2.6	0	7.5	1	1.3	2	0.364	0	1.992	-1	5.797	0	1820	39	1.4
51764.0	10000	41.6354	92.9436	-965	QAL	2.5	0	7.7	1	1.3	1	0.327	-1	1.962	-1	5.993	0	1837	38	1.4
51763.9	10000	41.6354	92.9427	-962	QAL	2.6	0	8.3	2	1.3	1	0.316	-1	2.082	0	6.580	1	1846	53	1.4
51763.8	10000	41.6354	92.9418	-958	QAL	2.6	0	8.2	2	1.2	1	0.324	-1	2.179	0	6.730	1	1854	52	1.4
51763.7	10000	41.6354	92.9410	-955	QAL	2.8	1	8.3	2	1.2	1	0.334	-1	2.385	0	7.140	1	1849	41	1.4
51763.6	10000	41.6354	92.9401	-952	QAL	2.7	0	8.2	2	1.2	1	0.331	-1	2.290	0	6.925	1	1848	48	1.4
51763.5	10000	41.6354	92.9392	-949	QAL	2.8	1	7.9	1	1.2	1	0.349	0	2.353	0	6.751	1	1863	46	1.4
51763.4	10000	41.6354	92.9384	-946	QK	2.7	0	7.6	1	1.2	1	0.332	0	2.204	0	6.631	0	1845	42	1.4
51763.3	10000	41.6354	92.9375	-942	QK	2.7	0	7.5	0	1.1	0	0.360	0	2.424	0	6.723	0	1828	54	1.4
51763.2	10000	41.6354	92.9366	-939	QK	2.8	1	6.7	-1	1.1	0	0.423	1	2.476	0	5.855	-1	1818	48	1.4
51763.1	10000	41.6354	92.9358	-936	QK	2.8	1	6.4	-1	1.2	0	0.438	1	2.448	0	5.591	-1	1809	40	1.4
51763.0	10000	41.6354	92.9349	-932	QK	2.7	0	6.9	0	1.1	0	0.384	0	2.401	0	6.250	0	1800	40	1.4
51762.9	10000	41.6354	92.9341	-929	QK	2.9	1	7.0	0	1.1	-1	0.416	1	2.773	1	6.671	0	1784	46	1.4
51762.8	10000	41.6354	92.9332	-925	QK	2.9	1	7.0	0	1.0	-1	0.413	1	2.946	1	7.140	1	1742	48	1.4
51762.7	10000	41.6354	92.9324	-922	QK	2.6	0	7.4	0	1.0	-1	0.356	0	2.650	1	7.443	1	1730	33	1.4
51762.6	10000	41.6353	92.9315	-918	QK	2.6	0	7.2	0	1.0	-1	0.363	0	2.691	1	7.402	1	1736	52	1.4
51762.5	10000	41.6353	92.9307	-915	QK	2.2	0	7.5	0	0.9	-2	0.325	0	2.608	1	8.015	2	1736	34	1.4
51762.4	10000	41.6353	92.9298	-911	QK	2.2	-1	7.7	1	0.9	-2	0.286	-1	2.342	0	8.174	2	1722	49	1.4
51762.3	10000	41.6353	92.9290	-908	QK	2.2	-1	6.9	0	1.0	-1	0.312	-1	2.212	0	7.084	1	1703	47	1.4
51762.2	10000	41.6353	92.9281	-904	QK	2.1	-1	6.9	0	1.0	-1	0.307	-1	2.218	0	7.232	1	1675	44	1.4
51762.1	10000	41.6353	92.9273	-901	QK	2.2	-1	6.9	0	1.0	-1	0.323	0	2.295	0	7.104	1	1671	47	1.4
51762.0	10000	41.6353	92.9264	-898	QK	2.2	-1	6.5	-1	1.0	-1	0.348	0	2.321	0	6.672	0	1641	37	1.4
51761.9	10000	41.6353	92.9256	-894	QK	2.5	0	6.5	-1	1.0	-1	0.380	0	2.431	0	6.405	0	1634	48	1.4
51761.8	10000	41.6353	92.9247	-890	QK	2.5	0	6.5	-1	1.0	-1	0.376	0	2.545	0	6.763	0	1610	38	1.4
51761.7	10000	41.6353	92.9239	-887	QK	2.6	0	6.4	-1	1.0	-1	0.412	1	2.763	1	6.705	0	1609	34	1.4
51761.6	10000	41.6353	92.9230	-884	QK	2.7	0	6.9	-1	0.9	-1	0.394	1	2.908	1	7.380	1	1626	34	1.4
51761.5	10000	41.6353	92.9222	-881	QK	2.6	0	6.7	-1	0.9	-1	0.385	1	2.786	1	7.232	1	1643	48	1.4
51761.4	10000	41.6352	92.9213	-878	QK	2.5	0	7.0	-1	0.9	-1	0.358	1	2.810	2	7.856	2	1643	47	1.4
51761.3	10000	41.6352	92.9205	-875	QK	2.6	0	7.2	-2	0.9	-1	0.364	2	2.986	2	8.194	2	1660	47	1.4
51761.2	10000	41.6352	92.9196	-872	QK	2.5	0	7.1	-2	0.9	-1	0.349	1	2.790	1	7.993	2	1662	41	1.4
51761.1	10000	41.6352	92.9188	-869	QK	2.5	0	6.6	-2	0.9	-1	0.385	1	2.737	1	7.108	1	1677	60	1.4
51761.0	10000	41.6352	92.9179	-866	QK	2.6	0	6.9	-2	0.9	-1	0.372	1	2.802	1	7.535	1	1685	41	1.4
51760.9	10000	41.6352	92.9171	-863	QK	2.3	0	6.8	-2	0.9	-1	0.342	0	2.502	1	7.317	1	1681	37	1.4
51760.8	10000	41.6352	92.9162	-861	QK	2.5	0	7.1	-1	1.0	0	0.349	0	2.577	1	7.381	1	1688	59	1.4
51760.7	10000	41.6352	92.9154	-858	QK	2.5	0	7.0	-1	1.0	0	0.359	0	2.440	1	6.801	0	1712	44	1.4
51760.6	10000	41.6352	92.9145	-855	QK	2.4	0	7.1	-1	1.0	0	0.337	0	2.264	0	6.719	0	1741	44	1.4
51760.5	10000	41.6352	92.9137	-852	QK	2.4	0	7.5	-1	1.1	0	0.319	0	2.272	0	7.126	1	1767	43	1.4
51760.4	10000	41.6352	92.9128	-849	QK	2.3	0	8.0	-1	1.1	0	0.283	0	2.157	0	7.628	1	1791	50	1.4
51760.3	10000	41.6352	92.9120	-847	QK	2.3	1	8.1	-1	1.2	0	0.281	0	2.022	-1	7.197	1	1811	46	1.4
51760.2	10000	41.6352	92.9111	-844	QK	2.6	1	7.8	-1	1.2	1	0.333	0	2.167	0	6.504	0	1837	44	1.4
51760.1	10000	41.6352	92.9103	-841	QK	2.4	0	7.5	-1	1.3	1	0.325	0	1.984	-1	6.097	-1	1851	49	1.4
51760.0	10000	41.6351	92.9094	-839	QK	2.5	0	7.4	-1	1.4	1	0.332	0	1.892	-1	5.703	-1	1857	45	1.4
51759.9	10000	41.6351	92.9086	-836	QK	2.5	0	7.7	-1	1.4	1	0.336	0	1.834	-1	5.463	-1	1870	42	1.4
51759.8	10000	41.6351	92.9077	-833	QK	2.4	0	7.5	-1	1.4	1	0.306	-1	1.690	-1	5.529	-1	1886	52	1.4
51759.7	10000	41.6351	92.9069	-831	QK	2.5	0	7.7	-1	1.4	1	0.341	-1	1.778	-1	5.208	-2	1891	43	1.3
51759.6	10000	41.6351	92.9061	-828	QK	2.5	0	7.4	-1	1.4	1	0.343	-1	1.810	-1	5.281	-2	1892	36	1.3
51759.5	10000	41.6351	92.9052	-825	QK	2.7	0	7.7	-1	1.4	1	0.348	-1	1.893	-1	5.434	-1	1885	43	1.3
51759.4	10000	41.6351	92.9044	-823	QK	2.7	0	7.8	1	1.4	2	0.344	0	1.903	-1	5.541	-1	1878	55	1.3

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51759.3	10000	41.6351	92.9035	-820	QK	2.6	0	7.7	1	1.4	2	0.334	0	1.891	-1	5.654	-1	1874	49	1.3
51759.2	10000	41.6351	92.9027	-817	QK	2.7	0	7.6	1	1.3	2	0.355	0	2.016	-1	5.671	-1	1851	55	1.3
51759.1	10000	41.6351	92.9018	-814	QK	2.7	0	7.1	0	1.3	2	0.376	0	2.026	-1	5.385	-2	1822	44	1.3
51759.0	10000	41.6351	92.9010	-812	QK	2.6	0	7.2	1	1.3	2	0.363	0	2.029	-1	5.588	-1	1805	42	1.3
51758.9	10000	41.6351	92.9001	-810	QK	2.7	0	6.9	0	1.3	2	0.397	1	2.098	0	5.282	-2	1796	57	1.3
51758.8	10000	41.6351	92.8993	-808	QK	2.4	0	6.7	-1	1.3	2	0.355	0	1.815	-1	5.113	-2	1799	33	1.3
51758.7	10000	41.6350	92.8984	-805	QK	2.3	0	6.9	0	1.3	2	0.331	0	1.738	-1	5.247	-2	1794	35	1.3
51758.6	10000	41.6350	92.8976	-802	QK	2.1	-1	6.9	0	1.3	2	0.306	-1	1.607	-1	5.258	-2	1782	53	1.3
51758.5	10000	41.6350	92.8967	-798	QK	2.0	-1	7.2	0	1.4	2	0.275	-1	1.463	-2	5.316	-2	1789	44	1.3
51758.4	10000	41.6350	92.8959	-796	QK	2.0	-1	7.0	0	1.3	1	0.290	-1	1.580	-1	5.446	-1	1774	50	1.3
51758.3	10000	41.6350	92.8950	-793	QK	1.9	-1	7.3	0	1.3	2	0.265	-1	1.473	-2	5.548	-1	1767	48	1.3
51758.2	10000	41.6350	92.8942	-790	QK	1.9	-1	7.7	1	1.3	2	0.250	-1	1.503	-2	6.009	-1	1767	35	1.3
51758.1	10000	41.6350	92.8933	-787	QK	2.1	-1	7.5	0	1.2	1	0.276	-1	1.769	-1	6.409	0	1756	49	1.3
51758.0	10000	41.6350	92.8925	-784	QK	2.2	-1	7.4	0	1.1	0	0.297	-1	1.914	-1	6.444	0	1777	52	1.3
51757.9	10000	41.6350	92.8916	-781	QK	2.6	0	7.7	1	1.1	0	0.333	0	2.342	0	6.990	1	1790	44	1.3
51757.8	10000	41.6350	92.8908	-779	QK	2.7	0	7.5	0	1.1	0	0.362	0	2.523	1	6.963	1	1796	51	1.3
51757.7	10000	41.6350	92.8899	-777	QK	2.7	0	7.8	1	1.1	0	0.350	0	2.415	0	6.909	1	1814	39	1.3
51757.6	10000	41.6350	92.8891	-775	QK	3.1	1	7.5	0	1.1	0	0.404	1	2.677	1	6.620	0	1827	50	1.3
51757.5	10000	41.6350	92.8882	-772	QK	2.9	1	7.6	0	1.2	0	0.387	0	2.512	1	6.496	0	1824	38	1.3
51757.4	10000	41.6349	92.8874	-770	QK	2.8	1	7.5	0	1.2	1	0.378	0	2.374	0	6.282	0	1838	39	1.3
51757.3	10000	41.6349	92.8865	-768	QK	2.8	1	7.4	0	1.3	1	0.383	0	2.288	0	5.969	-1	1837	53	1.3
51757.2	10000	41.6349	92.8857	-765	QK	2.8	1	7.3	0	1.3	1	0.382	0	2.208	0	5.775	-1	1839	49	1.3
51757.1	10000	41.6349	92.8848	-763	QK	2.7	0	7.3	0	1.2	1	0.365	0	2.138	0	5.852	-1	1832	47	1.3
51757.0	10000	41.6349	92.8840	-761	QK	2.8	1	7.3	0	1.3	1	0.375	0	2.195	0	5.859	-1	1836	39	1.3
51756.9	10000	41.6349	92.8831	-759	QK	2.6	0	7.5	0	1.3	1	0.344	-1	1.993	-1	5.803	-1	1833	54	1.3
51756.8	10000	41.6349	92.8823	-757	QK	2.5	0	7.0	0	1.3	2	0.363	-1	1.933	-1	5.333	-2	1837	52	1.3
51756.7	10000	41.6349	92.8814	-754	QK	2.8	1	7.6	1	1.3	2	0.366	0	2.073	0	5.667	-1	1857	47	1.2
51756.6	10000	41.6349	92.8806	-752	QK	2.8	1	7.9	1	1.3	2	0.352	0	2.098	0	5.963	-1	1859	50	1.2
51756.5	10000	41.6349	92.8797	-750	QK	2.6	0	7.9	1	1.3	2	0.332	0	1.997	-1	6.009	-1	1865	45	1.2
51756.4	10000	41.6349	92.8789	-748	QK	2.7	0	7.8	1	1.3	2	0.341	0	2.016	-1	5.918	-1	1880	39	1.2
51756.3	10000	41.6349	92.8781	-746	QK	2.6	0	7.5	0	1.3	2	0.349	0	1.998	-1	5.723	-1	1873	50	1.2
51756.2	10000	41.6348	92.8772	-744	QK	2.5	0	7.5	0	1.3	2	0.334	0	1.974	-1	5.915	-1	1871	51	1.2
51756.1	10000	41.6348	92.8764	-742	QK	2.6	0	7.5	0	1.2	2	0.349	0	2.108	-1	6.034	-1	1858	52	1.2
51756.0	10000	41.6348	92.8755	-740	QK	2.4	0	7.4	0	1.2	2	0.319	0	1.920	-1	6.020	-1	1824	49	1.2
51755.9	10000	41.6348	92.8747	-738	QK	2.4	0	7.3	0	1.2	2	0.325	0	2.007	-1	6.175	0	1791	51	1.2
51755.8	10000	41.6348	92.8738	-736	QK	2.4	0	7.0	0	1.2	2	0.346	0	2.102	0	6.068	-1	1754	59	1.2
51755.7	10000	41.6348	92.8730	-734	QK	2.4	0	7.2	0	1.2	2	0.335	0	2.086	0	6.231	0	1743	48	1.2
51755.6	10000	41.6348	92.8721	-732	QK	2.3	0	7.3	0	1.1	2	0.320	0	2.131	0	6.659	0	1735	47	1.2
51755.5	10000	41.6348	92.8713	-730	QK	2.4	0	7.4	0	1.1	2	0.319	0	2.171	0	6.813	0	1728	48	1.2
51755.4	10000	41.6348	92.8704	-728	QK	2.3	-1	7.9	1	1.1	1	0.289	-1	2.143	1	7.421	1	1741	31	1.2
51755.3	10000	41.6348	92.8696	-727	QK	2.4	0	7.6	1	1.0	1	0.314	-1	2.346	1	7.467	1	1752	48	1.2
51755.2	10000	41.6348	92.8687	-725	QK	2.7	0	8.0	1	1.0	1	0.334	0	2.621	2	7.854	2	1786	45	1.2
51755.1	10000	41.6348	92.8679	-723	QK	2.6	0	8.0	1	1.1	1	0.324	0	2.452	2	7.569	2	1814	33	1.2
51755.0	10000	41.6348	92.8670	-721	QK	2.8	0	8.2	1	1.1	1	0.340	0	2.606	2	7.668	2	1815	48	1.2
51754.9	10000	41.6348	92.8662	-720	QK	2.8	0	8.0	1	1.1	1	0.347	0	2.457	1	7.088	1	1830	49	1.2
51754.8	10000	41.6347	92.8653	-718	QK	2.9	1	7.9	1	1.2	1	0.368	0	2.470	1	6.704	0	1853	53	1.2
51754.7	10000	41.6347	92.8645	-716	QK	2.9	1	7.8	1	1.2	1	0.372	0	2.413	1	6.479	0	1865	44	1.2
51754.6	10000	41.6347	92.8636	-714	QK	2.8	1	7.6	1	1.2	1	0.371	0	2.284	1	6.158	0	1860	50	1.2
51754.5	10000	41.6347	92.8628	-710	QK	2.7	0	7.5	1	1.3	1	0.355	0	2.033	0	5.725	-1	1851	49	1.2
51754.4	10000	41.6347	92.8619	-702	QK	3.0	1	7.4	1	1.3	1	0.413	0	2.343	1	5.673	-1	1867	47	1.2
51754.3	10000	41.6347	92.8611	-702	QK	3.0	1	6.9	0	1.3	1	0.430	1	2.296	0	5.333	-2	1870	44	1.2
51754.2	10000	41.6347	92.8602	-708	QK	3.0	1	7.5	0	1.2	1	0.402	1	2.415	0	6.003	-1	1877	47	1.2

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51754.1	10000	41.6347	92.8594	-709	QK	2.8	1	7.5	0	1.2	1	0.375	0	2.332	0	6.218	0	1872	34	1.2
51754.0	10000	41.6347	92.8585	-708	QK	2.6	0	7.6	1	1.2	1	0.346	0	2.181	0	6.302	0	1866	41	1.2
51753.9	10000	41.6347	92.8577	-706	QK	2.7	0	8.0	1	1.2	1	0.334	0	2.207	0	6.616	0	1877	43	1.2
51753.8	10000	41.6347	92.8568	-705	QK	2.5	0	8.0	1	1.3	1	0.317	0	2.011	-1	6.341	0	1886	53	1.2
51753.7	10000	41.6346	92.8560	-705	QK	2.2	-1	8.1	1	1.3	1	0.268	-1	1.674	-1	6.236	0	1882	36	1.2
51753.6	10000	41.6346	92.8551	-704	QK	2.0	-1	8.3	2	1.3	2	0.241	-2	1.537	-2	6.384	0	1880	47	1.2
51753.5	10000	41.6346	92.8543	-704	QK	2.0	-1	7.9	1	1.3	2	0.252	-1	1.475	-2	5.857	-1	1885	46	1.2
51753.4	10000	41.6346	92.8534	-703	QK	2.1	-1	8.1	1	1.4	2	0.256	-1	1.507	-2	5.895	-1	1885	39	1.2
51753.3	10000	41.6346	92.8526	-703	QK	2.1	-1	7.8	1	1.4	2	0.272	-1	1.570	-1	5.767	-1	1888	48	1.2
51753.2	10000	41.6346	92.8517	-703	QK	2.2	-1	7.4	0	1.4	2	0.303	-1	1.650	-1	5.455	-1	1884	36	1.2
51753.1	10000	41.6346	92.8509	-703	QK	2.3	0	7.2	0	1.3	2	0.322	0	1.754	-1	5.444	-1	1873	49	1.2
51753.0	10000	41.6346	92.8501	-703	QK	2.4	0	7.4	0	1.3	2	0.321	0	1.800	-1	5.603	-1	1871	42	1.2
51752.9	10000	41.6346	92.8492	-703	QK	2.5	0	7.3	0	1.3	2	0.335	0	1.857	-1	5.546	-1	1865	41	1.2
51752.8	10000	41.6346	92.8484	-704	QK	2.5	0	7.3	0	1.4	2	0.345	0	1.854	-1	5.373	-2	1853	50	1.2
51752.7	10000	41.6346	92.8475	-704	QK	2.5	0	7.0	0	1.3	2	0.357	0	1.842	-1	5.160	-2	1849	32	1.2
51752.6	10000	41.6346	92.8467	-704	QK	2.6	0	7.0	0	1.4	2	0.370	0	1.915	-1	5.173	-2	1845	32	1.2
51752.5	10000	41.6346	92.8458	-704	QK	2.4	0	7.4	0	1.4	2	0.328	0	1.740	-1	5.305	-2	1852	54	1.2
51752.4	10000	41.6345	92.8450	-704	QK	2.3	-1	7.6	1	1.4	2	0.299	-1	1.639	-1	5.474	-1	1851	49	1.2
51752.3	10000	41.6345	92.8441	-704	QK	2.2	-1	7.7	1	1.4	2	0.290	-1	1.629	-1	5.611	-1	1840	42	1.2
51752.2	10000	41.6345	92.8433	-704	QK	2.4	0	7.7	1	1.3	2	0.309	-1	1.790	-1	5.794	-1	1835	45	1.2
51752.1	10000	41.6345	92.8424	-704	QK	2.4	0	7.9	1	1.3	1	0.301	-1	1.848	-1	6.140	0	1828	48	1.2
51752.0	10000	41.6345	92.8416	-704	QK	2.4	0	8.1	1	1.3	1	0.300	-1	1.962	-1	6.537	0	1799	51	1.2
51751.9	10000	41.6345	92.8407	-705	QK	2.3	-1	8.0	1	1.2	1	0.280	-1	1.836	-1	6.553	0	1778	47	1.2
51751.8	10000	41.6345	92.8399	-705	QK	2.5	0	7.8	1	1.2	1	0.317	0	2.080	0	6.568	0	1769	42	1.2
51751.7	10000	41.6345	92.8390	-705	QK	2.7	0	7.3	0	1.1	0	0.370	0	2.399	0	6.479	0	1770	41	1.2
51751.6	10000	41.6345	92.8382	-704	QK	2.7	0	7.4	0	1.1	0	0.371	0	2.478	0	6.688	0	1773	42	1.2
51751.5	10000	41.6345	92.8373	-703	QK	2.6	0	7.5	0	1.1	0	0.349	0	2.301	0	6.597	0	1768	42	1.2
51751.4	10000	41.6345	92.8365	-703	QK	2.6	0	7.7	1	1.1	0	0.338	0	2.312	0	6.833	0	1769	44	1.2
51751.3	10000	41.6345	92.8356	-703	QK	2.6	0	7.4	0	1.1	0	0.344	0	2.276	0	6.613	0	1789	30	1.2
51751.2	10000	41.6344	92.8348	-702	QK	2.8	1	7.5	0	1.1	0	0.370	0	2.485	0	6.715	0	1799	47	1.2
51751.1	10000	41.6344	92.8339	-702	QK	2.8	1	8.0	1	1.1	0	0.346	0	2.446	0	7.075	1	1789	45	1.2
51751.0	10000	41.6344	92.8331	-701	QK	2.6	0	8.3	2	1.1	0	0.315	0	2.352	0	7.467	1	1764	35	1.2
51750.9	10000	41.6344	92.8322	-701	QK	2.6	0	8.0	1	1.1	0	0.320	0	2.331	0	7.287	1	1742	43	1.2
51750.8	10000	41.6344	92.8314	-700	QK	2.5	0	7.9	1	1.1	0	0.315	0	2.357	0	7.480	1	1733	43	1.2
51750.7	10000	41.6344	92.8305	-700	QK	2.3	-1	7.9	1	1.0	0	0.296	-1	2.259	0	7.633	2	1704	41	1.2
51750.6	10000	41.6344	92.8297	-699	QK	2.4	-1	7.9	1	1.0	0	0.305	-1	2.358	0	7.720	2	1701	49	1.2
51750.5	10000	41.6344	92.8288	-698	QK	2.6	-1	7.8	1	1.0	0	0.333	-1	2.525	1	7.578	2	1715	47	1.2
51750.4	10000	41.6344	92.8280	-697	QK	2.7	-1	7.6	1	1.0	0	0.359	-1	2.679	1	7.473	1	1731	42	1.2
51750.3	10000	41.6344	92.8271	-695	QK	2.7	-1	7.6	1	1.0	0	0.359	-1	2.617	1	7.297	1	1765	46	1.2
51750.2	10000	41.6344	92.8263	-694	QK	2.8	-1	7.9	1	1.1	0	0.355	-1	2.661	1	7.486	1	1790	43	1.2
51750.1	10000	41.6344	92.8254	-693	QK	2.9	0	8.3	1	1.1	0	0.355	0	2.732	1	7.689	2	1815	43	1.2
51750.0	10000	41.6344	92.8246	-692	QK	3.1	1	8.0	1	1.1	0	0.390	1	2.722	1	6.989	1	1847	46	1.2
51749.9	10000	41.6343	92.8237	-691	QK	3.1	1	7.8	1	1.2	0	0.399	1	2.680	1	6.717	0	1852	38	1.2
51749.8	10000	41.6343	92.8229	-691	QK	2.8	1	7.8	1	1.2	0	0.353	0	2.287	1	6.476	0	1855	41	1.2
51749.7	10000	41.6343	92.8221	-690	QK	2.7	0	7.9	1	1.2	0	0.340	0	2.193	1	6.441	0	1844	51	1.2
51749.6	10000	41.6343	92.8212	-690	QK	2.7	0	7.8	1	1.2	0	0.339	0	2.167	1	6.401	0	1819	50	1.2
51749.5	10000	41.6343	92.8204	-689	QK	2.6	0	7.9	1	1.2	0	0.326	0	2.111	0	6.466	0	1800	53	1.2
51749.4	10000	41.6343	92.8195	-688	QK	2.5	0	7.5	1	1.2	0	0.333	0	2.039	0	6.119	-1	1780	46	1.2
51749.3	10000	41.6343	92.8187	-688	QK	2.2	-1	7.4	0	1.2	0	0.299	-1	1.862	-1	6.233	0	1750	38	1.2
51749.2	10000	41.6343	92.8178	-687	QAL	2.1	-1	7.6	1	1.2	1	0.278	-1	1.813	-1	6.525	1	1724	40	1.2
51749.1	10000	41.6343	92.8170	-687	QAL	2.1	-1	7.5	1	1.1	0	0.278	-1	1.868	-1	6.725	1	1661	41	1.2
51749.0	10000	41.6343	92.8161	-686	QAL	1.6	-2	7.0	0	1.0	0	0.232	-2	1.556	-1	6.701	1	1598	59	1.2

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51748.9	10000	41.6343	92.8153	-686	QAL	1.8	-1	6.7	0	1.1	0	0.272	-1	1.713	-1	6.288	0	1562	44	1.2
51748.8	10000	41.6343	92.8144	-686	QAL	1.7	-1	6.2	0	1.0	0	0.270	-1	1.597	-1	5.917	0	1537	42	1.2
51748.7	10000	41.6342	92.8136	-685	QAL	1.9	-1	6.1	0	1.0	0	0.305	-1	1.794	-1	5.889	0	1529	56	1.2
51748.6	10000	41.6342	92.8127	-685	QK	1.9	-1	6.2	-1	1.0	-1	0.312	-1	1.854	-1	5.940	-1	1537	36	1.2
51748.5	10000	41.6342	92.8119	-685	QK	2.0	-1	6.2	-1	1.1	0	0.322	0	1.836	-1	5.700	-1	1567	43	1.2
51748.4	10000	41.6342	92.8110	-685	QK	2.2	-1	6.5	-1	1.1	0	0.333	0	1.949	-1	5.851	-1	1609	53	1.2
51748.3	10000	41.6342	92.8102	-685	QK	2.6	0	6.5	-1	1.1	0	0.405	1	2.329	0	5.748	-1	1664	36	1.2
51748.2	10000	41.6342	92.8093	-685	QK	2.3	0	7.0	0	1.1	0	0.328	0	2.029	-1	6.186	0	1717	41	1.2
51748.1	10000	41.6342	92.8085	-685	QK	2.5	0	7.1	0	1.2	1	0.350	0	2.067	0	5.899	-1	1757	40	1.2
51748.0	10000	41.6342	92.8076	-685	QK	2.3	0	7.6	0	1.2	1	0.305	-1	1.873	-1	6.143	0	1773	51	1.2
51747.9	10000	41.6342	92.8068	-685	QK	2.3	0	7.4	0	1.2	1	0.316	0	1.889	-1	5.968	-1	1792	50	1.2
51747.8	10000	41.6342	92.8059	-685	QK	2.4	0	7.3	0	1.2	1	0.327	0	1.948	-1	5.963	-1	1794	32	1.2
51747.7	10000	41.6342	92.8051	-684	QK	2.3	0	7.6	0	1.2	1	0.305	-1	1.913	-1	6.263	0	1803	68	1.2
51747.6	10000	41.6341	92.8042	-684	QK	2.3	-1	7.8	1	1.2	1	0.290	-1	1.820	-1	6.275	0	1809	37	1.2
51747.5	10000	41.6341	92.8034	-684	QK	2.9	1	7.4	0	1.2	1	0.385	0	2.336	0	6.069	-1	1807	40	1.2
51747.4	10000	41.6341	92.8025	-684	QK	2.9	1	7.2	0	1.2	0	0.400	1	2.448	0	6.127	-1	1798	53	1.2
51747.3	10000	41.6341	92.8017	-684	QK	2.8	1	6.7	-1	1.2	0	0.422	1	2.439	0	5.778	-1	1802	52	1.2
51747.2	10000	41.6341	92.8008	-684	QK	2.8	1	6.7	-1	1.2	0	0.424	1	2.437	0	5.753	-1	1795	46	1.2
51747.1	10000	41.6341	92.8000	-683	QK	2.9	1	6.9	0	1.2	0	0.411	1	2.479	0	6.027	-1	1793	40	1.2
51747.0	10000	41.6341	92.7991	-683	QK	2.9	1	6.6	-1	1.1	0	0.443	1	2.596	1	5.862	-1	1786	34	1.2
51746.9	10000	41.6341	92.7983	-683	QK	2.8	1	6.9	0	1.2	0	0.405	1	2.402	0	5.934	-1	1780	41	1.2
51746.8	10000	41.6341	92.7974	-683	QK	2.4	0	6.8	-1	1.2	0	0.349	0	2.006	-1	5.755	-1	1770	38	1.2
51746.7	10000	41.6341	92.7966	-683	QK	2.4	0	6.9	0	1.2	1	0.343	0	1.908	-1	5.569	-1	1778	42	1.2
51746.6	10000	41.6341	92.7957	-683	QK	2.7	0	7.0	0	1.3	1	0.383	1	2.109	0	5.512	-1	1789	43	1.2
51746.5	10000	41.6341	92.7949	-683	QK	2.6	0	7.1	0	1.3	1	0.370	0	2.045	0	5.534	-1	1795	43	1.2
51746.4	10000	41.6340	92.7941	-682	QK	2.5	0	7.1	0	1.3	1	0.349	0	1.907	-1	5.468	-1	1810	38	1.2
51746.3	10000	41.6340	92.7932	-682	QK	2.6	0	7.1	0	1.4	1	0.360	0	1.885	-1	5.237	-2	1823	43	1.2
51746.2	10000	41.6340	92.7924	-682	QK	2.6	0	7.0	0	1.4	1	0.370	0	1.866	-1	5.040	-2	1837	48	1.2
51746.1	10000	41.6340	92.7915	-681	QK	2.6	0	7.1	0	1.4	1	0.375	0	1.949	-1	5.197	-2	1841	58	1.2
51746.0	10000	41.6340	92.7907	-680	QK	2.9	0	7.1	0	1.3	1	0.407	1	2.230	-1	5.484	-1	1844	48	1.2
51745.9	10000	41.6340	92.7898	-679	QK	2.8	1	7.4	0	1.3	1	0.373	0	2.186	-1	5.868	-1	1849	48	1.2
51745.8	10000	41.6340	92.7889	-680	QK	2.9	1	7.5	0	1.2	1	0.389	1	2.398	0	6.159	0	1850	51	1.2
51745.7	10000	41.6340	92.7881	-680	QK	3.0	1	7.5	0	1.2	1	0.398	1	2.500	0	6.289	0	1825	47	1.2
51745.6	10000	41.6340	92.7872	-681	QK	2.9	1	7.6	0	1.2	1	0.377	0	2.43;	0	6.468	0	1807	50	1.2
51745.5	10000	41.6340	92.7863	-681	QK	2.8	1	7.7	0	1.1	1	0.371	0	2.598	1	6.998	1	1792	43	1.2
51745.4	10000	41.6341	92.7854	-681	QK	2.8	1	7.9	0	1.0	0	0.356	0	2.681	1	7.527	1	1782	39	1.2
51745.3	10000	41.6341	92.7846	-681	QK	2.5	1	7.9	0	1.0	0	0.317	0	2.414	2	7.626	2	1764	41	1.2
51745.2	10000	41.6341	92.7837	-681	QK	2.4	0	7.9	0	1.0	0	0.304	-1	2.370	2	7.796	2	1733	50	1.2
51745.1	10000	41.6341	92.7828	-681	QK	2.2	0	7.7	0	1.0	0	0.289	-1	2.120	1	7.346	1	1705	51	1.2
51745.0	10000	41.6341	92.7820	-681	QK	2.1	-1	7.7	0	1.1	0	0.268	-1	1.933	1	7.221	1	1699	46	1.2
51744.9	10000	41.6341	92.7811	-681	QK	2.2	-1	7.4	0	1.0	0	0.302	-1	2.196	1	7.261	1	1690	45	1.2
51744.8	10000	41.6341	92.7802	-680	QK	2.3	-1	7.5	0	1.0	0	0.300	-1	2.229	1	7.439	1	1691	51	1.2
51744.7	10000	41.6341	92.7793	-680	QK	2.4	-1	7.2	0	1.0	0	0.325	-1	2.259	1	6.942	1	1682	45	1.2
51744.6	10000	41.6341	92.7785	-680	QK	2.4	-1	7.3	0	1.1	0	0.324	-1	2.239	1	6.919	1	1697	46	1.2
51744.5	10000	41.6342	92.7776	-679	QK	2.4	-1	7.3	0	1.1	0	0.331	-1	2.254	1	6.812	1	1717	29	1.2
51744.4	10000	41.6342	92.7767	-680	QK	2.5	-1	7.6	0	1.1	0	0.330	-1	2.411	1	7.305	1	1729	33	1.2
51744.3	10000	41.6342	92.7758	-680	QK	2.5	-1	7.6	0	1.1	0	0.335	-1	2.412	1	7.193	1	1736	49	1.2
51744.2	10000	41.6342	92.7750	-680	QK	2.5	-1	7.6	0	1.1	0	0.326	-1	2.369	1	7.266	1	1727	49	1.2
51744.1	10000	41.6342	92.7741	-680	QK	2.4	-1	7.4	0	1.1	0	0.332	-1	2.314	1	6.973	1	1716	42	1.2
51744.0	10000	41.6342	92.7732	-680	QAL	2.3	-1	7.6	0	1.1	0	0.305	-1	2.186	1	7.176	1	1717	50	1.2
51743.9	10000	41.6342	92.7724	-679	QAL	2.3	-1	7.9	0	1.0	0	0.291	-1	2.297	1	7.899	2	1693	54	1.2
51743.8	10000	41.6342	92.7715	-679	QAL	2.5	0	7.5	1	1.0	-1	0.325	-1	2.448	0	7.524	2	1673	36	1.2

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51743.7	10000	41.6342	92.7706	-679	QAL	2.3	0	7.7	1	1.0	-1	0.300	-1	2.381	0	7.924	2	1669	42	1.2
51743.6	10000	41.6343	92.7697	-679	QAL	2.5	0	7.6	1	1.0	-1	0.326	-1	2.605	0	7.999	2	1670	45	1.2
51743.5	10000	41.6343	92.7689	-679	QAL	2.3	0	8.1	1	1.0	0	0.290	-1	2.313	0	7.983	2	1697	39	1.2
51743.4	10000	41.6343	92.7680	-678	QK	2.4	0	8.0	1	1.0	-1	0.299	-1	2.279	0	7.619	2	1714	42	1.2
51743.3	10000	41.6343	92.7671	-678	QK	2.5	0	8.3	2	1.1	0	0.299	-1	2.288	0	7.639	2	1728	45	1.2
51743.2	10000	41.6343	92.7663	-678	QK	2.6	0	7.8	1	1.2	0	0.334	0	2.261	0	6.768	0	1750	50	1.2
51743.1	10000	41.6343	92.7654	-678	QK	2.4	0	7.6	0	1.2	1	0.323	0	2.068	0	6.399	0	1758	42	1.2
51743.0	10000	41.6343	92.7645	-677	QK	2.7	0	7.1	0	1.3	1	0.385	0	2.188	0	5.680	-1	1772	45	1.2
51742.9	10000	41.6343	92.7636	-678	QK	2.7	0	7.6	0	1.3	1	0.352	0	2.072	0	5.892	-1	1776	40	1.2
51742.8	10000	41.6343	92.7628	-679	QK	2.6	0	7.3	0	1.2	1	0.352	0	2.071	0	5.889	-1	1787	40	1.2
51742.7	10000	41.6344	92.7619	-680	QK	2.7	0	7.4	0	1.3	1	0.362	0	2.122	0	5.862	-1	1789	54	1.2
51742.6	10000	41.6344	92.7610	-679	QK	2.6	0	7.1	0	1.3	1	0.365	0	2.063	0	5.650	-1	1805	45	1.2
51742.5	10000	41.6344	92.7601	-679	QK	2.6	0	7.4	0	1.2	1	0.352	0	2.093	0	5.952	-1	1802	43	1.2
51742.4	10000	41.6344	92.7593	-679	QK	2.5	0	7.5	0	1.2	1	0.339	0	2.080	0	6.137	0	1797	45	1.2
51742.3	10000	41.6344	92.7584	-680	QK	2.6	0	7.7	1	1.2	0	0.336	0	2.215	0	6.582	0	1792	45	1.2
51742.2	10000	41.6344	92.7575	-680	QK	2.6	0	7.6	1	1.2	0	0.341	0	2.247	0	6.595	0	1798	42	1.2
51742.1	10000	41.6344	92.7567	-679	QK	2.8	1	7.4	0	1.2	0	0.373	0	2.358	0	6.326	0	1783	61	1.2
51742.0	10000	41.6344	92.7558	-679	QK	2.6	0	7.3	0	1.1	0	0.361	0	2.330	0	6.451	0	1768	42	1.2
51741.9	10000	41.6344	92.7549	-679	QK	2.7	0	7.2	0	1.1	0	0.373	0	2.382	0	6.385	0	1763	54	1.2
51741.8	10000	41.6344	92.7540	-679	QK	2.7	0	7.3	0	1.2	0	0.374	0	2.373	0	6.349	0	1768	45	1.2
51741.7	10000	41.6345	92.7532	-678	QK	2.6	0	7.6	1	1.2	1	0.343	0	2.205	0	6.435	0	1782	48	1.1
51741.6	10000	41.6345	92.7523	-678	QK	2.6	0	7.7	1	1.2	1	0.335	0	2.137	0	6.376	0	1794	35	1.1
51741.5	10000	41.6345	92.7514	-678	QK	2.5	0	7.4	0	1.2	1	0.337	0	2.014	-1	5.973	-1	1789	35	1.1
51741.4	10000	41.6345	92.7505	-677	QK	2.4	0	7.5	0	1.3	1	0.322	0	1.908	-1	5.926	-1	1792	40	1.1
51741.3	10000	41.6345	92.7497	-677	QK	2.2	-1	7.5	0	1.2	1	0.297	-1	1.814	-1	6.100	-1	1771	46	1.1
51741.2	10000	41.6345	92.7488	-676	QK	2.4	0	7.5	0	1.2	1	0.321	0	2.089	-1	6.510	0	1738	47	1.1
51741.1	10000	41.6345	92.7479	-676	QK	2.2	-1	7.2	0	1.1	1	0.306	-1	2.018	-1	6.596	0	1695	41	1.1
51741.0	10000	41.6345	92.7471	-676	QK	2.2	-1	7.2	0	1.1	1	0.308	-1	2.031	-1	6.591	0	1650	67	1.1
51740.9	10000	41.6345	92.7462	-675	QK	2.1	-1	6.9	0	1.0	1	0.299	-1	1.972	-1	6.590	0	1610	51	1.1
51740.8	10000	41.6346	92.7453	-675	QK	2.1	-1	6.7	0	1.0	1	0.316	0	2.141	0	6.765	0	1593	53	1.1
51740.7	10000	41.6346	92.7444	-674	QK	2.2	-1	6.5	0	1.0	1	0.342	0	2.294	0	6.716	0	1588	48	1.1
51740.6	10000	41.6346	92.7436	-674	QK	2.6	-1	6.5	0	1.0	1	0.398	0	2.510	0	6.304	0	1621	52	1.1
51740.5	10000	41.6346	92.7427	-673	QK	2.4	-1	6.6	0	1.1	1	0.362	0	2.191	0	6.046	-1	1647	43	1.1
51740.4	10000	41.6346	92.7418	-672	QK	2.6	-1	6.8	0	1.1	1	0.377	0	2.230	0	5.911	-1	1677	39	1.1
51740.3	10000	41.6346	92.7410	-670	QK	2.7	-1	6.9	0	1.1	1	0.390	0	2.435	0	6.240	0	1695	44	1.0
51740.2	10000	41.6346	92.7401	-670	QK	2.8	-1	7.0	0	1.1	1	0.400	0	2.590	0	6.479	0	1706	42	1.0
51740.1	10000	41.6346	92.7392	-668	QK	2.7	-1	7.1	0	1.1	1	0.382	0	2.505	0	6.553	0	1686	47	1.0
51740.0	10000	41.6346	92.7383	-667	QK	2.5	-1	7.3	0	1.0	1	0.343	0	2.479	0	7.222	1	1660	59	1.0
51739.9	10000	41.6346	92.7375	-667	QK	2.5	-1	7.4	0	0.9	1	0.335	0	2.649	0	7.911	2	1642	51	1.0
51739.8	10000	41.6347	92.7366	-666	QK	2.3	-1	7.2	0	0.9	1	0.325	0	2.674	0	8.226	2	1608	43	1.0
51739.7	10000	41.6347	92.7357	-665	QK	2.5	-1	7.3	0	0.8	1	0.342	0	2.939	0	8.599	3	1591	42	1.0
51739.6	10000	41.6347	92.7348	-665	QK	2.4	-1	7.3	0	0.8	1	0.330	0	2.865	0	8.676	3	1580	55	1.0
51739.5	10000	41.6347	92.7340	-664	QK	2.1	-1	7.3	0	0.9	-1	0.293	-1	2.420	0	8.261	3	1583	40	1.0
51739.4	10000	41.6347	92.7331	-663	QK	2.4	-1	7.3	0	0.9	-1	0.320	-1	2.664	0	8.316	3	1600	39	1.0
51739.3	10000	41.6347	92.7322	-662	QK	2.3	-1	7.6	0	0.9	-1	0.308	-1	2.485	0	8.080	2	1607	42	1.0
51739.2	10000	41.6347	92.7314	-660	QK	2.2	-1	7.6	0	1.0	-1	0.296	-1	2.254	0	7.609	2	1616	36	1.0
51739.1	10000	41.6347	92.7305	-660	QK	2.2	-1	7.5	0	1.0	-1	0.297	-1	2.142	0	7.201	2	1634	42	1.0
51739.0	10000	41.6348	92.7296	-659	QK	2.2	-1	7.4	0	1.1	-1	0.300	-1	2.038	0	6.803	1	1661	44	1.0
51738.9	10000	41.6348	92.7287	-658	QK	2.3	-1	7.4	0	1.1	-1	0.302	-1	2.001	-1	6.623	1	1696	36	1.0
51738.8	10000	41.6348	92.7279	-658	QK	2.1	-1	8.0	0	1.2	-1	0.288	-1	1.995	-1	6.923	1	1723	52	1.0
51738.7	10000	41.6348	92.7270	-657	QK	2.3	-1	8.3	0	1.2	-1	0.254	-1	1.732	-1	6.810	0	1751	62	1.0
51738.6	10000	41.6348	92.7261	-656	QK	2.3	-1	8.1	0	1.2	1	0.260	-1	1.839	-1	6.567	0	1779	40	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51738.5	10000	41.6348	92.7253	-655	QK	2.3	-1	8.3	1	1.2	1	0.272	-1	1.817	-1	6.676	0	1791	43	1.0
51738.4	10000	41.6348	92.7244	-654	QK	2.6	0	8.4	2	1.2	1	0.306	-1	2.067	0	6.759	0	1823	50	1.0
51738.3	10000	41.6348	92.7235	-653	QK	2.5	0	8.6	2	1.3	1	0.295	-1	1.964	-1	6.666	0	1827	55	1.0
51738.2	10000	41.6348	92.7226	-652	QK	2.6	0	8.5	2	1.3	1	0.301	-1	2.019	-1	6.703	0	1834	43	1.0
51738.1	10000	41.6348	92.7218	-651	QK	2.6	0	8.3	1	1.2	1	0.317	0	2.131	0	6.716	0	1817	40	1.0
51738.0	10000	41.6348	92.7209	-649	QK	2.9	1	8.0	1	1.2	0	0.363	0	2.471	0	6.813	0	1793	44	1.0
51737.9	10000	41.6349	92.7200	-649	QK	3.0	1	8.1	1	1.2	0	0.371	0	2.589	1	6.970	1	1768	52	1.0
51737.8	10000	41.6349	92.7191	-647	QK	3.0	1	7.8	1	1.1	0	0.380	0	2.667	1	7.017	1	1741	39	1.0
51737.7	10000	41.6349	92.7183	-646	QK	2.8	1	7.4	0	1.1	0	0.376	0	2.597	1	6.909	1	1695	51	1.0
51737.6	10000	41.6349	92.7174	-645	QK	2.7	0	7.0	0	1.0	-1	0.384	0	2.643	1	6.883	1	1665	32	1.0
51737.5	10000	41.6349	92.7165	-644	QK	2.7	0	6.9	-1	1.0	-1	0.398	1	2.691	1	6.768	0	1613	45	1.0
51737.4	10000	41.6349	92.7157	-642	QK	2.9	1	6.3	-1	1.0	-1	0.458	1	2.981	2	6.502	0	1602	57	1.0
51737.3	10000	41.6349	92.7148	-641	QK	2.7	0	6.4	-1	1.0	-1	0.428	1	2.727	1	6.372	0	1611	35	1.0
51737.2	10000	41.6349	92.7139	-639	QK	2.8	1	6.4	-1	1.1	-1	0.446	1	2.702	1	6.055	-1	1648	47	1.0
51737.1	10000	41.6349	92.7130	-637	QK	3.0	1	6.3	-1	1.1	0	0.476	2	2.628	1	5.522	-1	1680	45	1.0
51737.0	10000	41.6350	92.7122	-635	QK	2.8	1	6.6	-1	1.2	1	0.421	1	2.310	0	5.486	-1	1725	48	1.0
51736.9	10000	41.6350	92.7113	-634	QK	2.8	1	7.0	0	1.2	1	0.401	1	2.300	0	5.740	-1	1763	52	1.0
51736.8	10000	41.6350	92.7104	-632	QK	2.8	1	7.3	0	1.3	1	0.383	0	2.166	0	5.656	-1	1811	37	1.0
51736.7	10000	41.6350	92.7095	-631	QK	2.7	0	7.6	1	1.3	2	0.352	0	1.989	-1	5.650	-1	1843	48	1.0
51736.6	10000	41.6350	92.7087	-631	QK	2.9	1	7.6	1	1.4	2	0.384	0	2.113	0	5.499	-1	1865	53	1.0
51736.5	10000	41.6350	92.7078	-629	QK	2.7	0	7.7	1	1.4	2	0.348	0	1.914	-1	5.502	-1	1873	51	1.0
51736.4	10000	41.6350	92.7069	-629	QK	2.7	0	7.7	1	1.4	2	0.347	0	1.897	-1	5.473	-1	1883	43	1.0
51736.3	10000	41.6350	92.7061	-627	QK	2.7	0	7.6	1	1.4	3	0.359	0	1.913	-1	5.332	-2	1879	42	1.0
51736.2	10000	41.6350	92.7052	-626	QK	2.6	0	7.7	1	1.4	3	0.342	0	1.820	-1	5.315	-2	1866	44	1.0
51736.1	10000	41.6350	92.7043	-625	QK	2.6	0	7.9	1	1.4	2	0.333	0	1.885	-1	5.670	-1	1847	37	1.0
51736.0	10000	41.6350	92.7034	-624	QK	2.6	0	7.8	1	1.4	2	0.328	0	1.887	-1	5.755	-1	1818	50	1.0
51735.9	10000	41.6351	92.7026	-623	QK	2.3	0	7.7	1	1.3	2	0.304	-1	1.796	-1	5.902	-1	1778	55	1.0
51735.8	10000	41.6351	92.7017	-622	QK	2.4	0	7.4	0	1.2	1	0.322	0	1.906	-1	5.918	-1	1732	37	1.0
51735.7	10000	41.6351	92.7008	-621	QK	2.1	-1	7.3	0	1.2	0	0.295	-1	1.839	-1	6.229	0	1677	46	1.0
51735.6	10000	41.6351	92.7000	-621	QK	2.0	-1	7.4	0	1.1	0	0.276	-1	1.888	-1	6.845	1	1625	37	1.0
51735.5	10000	41.6351	92.6991	-620	QK	2.1	-1	7.1	0	1.0	-1	0.302	-1	2.054	-1	6.806	0	1578	43	1.0
51735.4	10000	41.6351	92.6982	-619	QK	2.0	-1	6.4	-1	1.0	-1	0.317	0	1.950	-1	6.149	0	1533	49	1.0
51735.3	10000	41.6351	92.6973	-618	QK	1.8	-1	6.1	-2	1.0	-1	0.300	-1	1.766	-1	5.895	-1	1508	62	1.0
51735.2	10000	41.6351	92.6965	-617	QK	2.1	-1	6.2	-1	1.0	-1	0.341	0	2.048	0	6.003	-1	1502	47	1.0
51735.1	10000	41.6351	92.6956	-617	QK	2.2	-1	6.1	-1	1.0	-1	0.355	0	2.189	0	6.172	0	1490	38	1.0
51735.0	10000	41.6351	92.6947	-617	QK	2.2	0	6.1	-2	1.0	-1	0.380	0	2.248	0	5.909	-1	1500	34	1.0
51734.9	10000	41.6352	92.6938	-617	QK	2.4	0	5.8	-2	1.0	-1	0.421	1	2.400	0	5.697	-1	1518	42	1.0
51734.8	10000	41.6352	92.6930	-616	QK	2.6	0	6.1	-1	1.0	-1	0.422	1	2.543	1	6.024	-1	1554	50	1.0
51734.7	10000	41.6352	92.6921	-616	QK	2.7	0	6.6	-1	1.0	-1	0.408	1	2.598	1	6.371	0	1588	57	1.0
51734.6	10000	41.6352	92.6912	-615	QK	3.3	2	6.9	0	1.0	-1	0.476	2	3.153	2	6.627	0	1614	55	1.0
51734.5	10000	41.6352	92.6904	-616	QK	3.1	1	6.9	0	1.0	-1	0.445	1	2.968	1	6.674	0	1624	50	1.0
51734.4	10000	41.6352	92.6895	-615	QK	3.1	1	7.1	0	1.1	-1	0.442	1	2.957	1	6.686	0	1635	52	1.0
51734.3	10000	41.6352	92.6886	-613	QK	2.9	1	7.2	0	1.0	-1	0.405	1	2.839	1	7.011	1	1633	39	1.0
51734.2	10000	41.6352	92.6877	-608	QK	2.8	1	7.5	0	1.0	-1	0.382	1	2.789	1	7.297	1	1613	52	1.0
51734.1	10000	41.6352	92.6869	-611	QK	2.6	1	7.1	0	1.0	-1	0.365	0	2.566	1	7.032	1	1590	40	1.0
51734.0	10000	41.6353	92.6860	-615	QK	2.6	0	6.8	-1	1.0	-1	0.387	0	2.698	1	6.972	1	1576	41	1.0
51733.9	10000	41.6353	92.6851	-616	QK	2.1	-1	6.4	-1	0.9	-2	0.329	0	2.242	1	6.814	0	1554	40	1.1
51733.8	10000	41.6353	92.6842	-617	QK	2.0	-1	6.5	-1	1.0	-1	0.309	-1	2.110	1	6.831	0	1542	45	1.1
51733.7	10000	41.6353	92.6834	-618	QK	1.8	-1	6.7	-1	0.9	-2	0.277	-1	1.965	-1	7.097	1	1531	58	1.1
51733.6	10000	41.6353	92.6825	-618	QK	1.8	-1	6.5	-1	0.9	-2	0.276	-1	1.934	-1	7.000	1	1534	34	1.1
51733.5	10000	41.6353	92.6816	-619	QK	2.1	-1	6.1	-2	1.0	-1	0.340	0	2.182	0	6.424	0	1551	52	1.1
51733.4	10000	41.6353	92.6808	-620	QK	2.3	0	6.2	-1	1.0	-1	0.367	0	2.308	0	6.295	0	1579	40	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51733.3	10000	41.6353	92.6799	-622	QK	2.2	-1	6.4	-1	1.0	-1	0.346	0	2.147	0	6.208	0	1605	47	1.1
51733.2	10000	41.6353	92.6790	-622	QK	2.2	-1	6.8	-1	1.1	0	0.324	0	1.962	-1	6.051	-1	1638	28	1.1
51733.1	10000	41.6353	92.6781	-623	QK	2.1	-1	6.7	-1	1.2	0	0.311	-1	1.789	-1	5.760	-1	1665	63	1.1
51733.0	10000	41.6354	92.6773	-624	QK	2.1	-1	6.7	-1	1.2	1	0.317	0	1.772	-1	5.593	-1	1704	45	1.1
51732.9	10000	41.6354	92.6764	-625	QK	2.2	-1	7.3	0	1.2	1	0.303	-1	1.776	-1	5.861	-1	1725	44	1.1
51732.8	10000	41.6354	92.6755	-625	QK	2.0	-1	7.2	0	1.3	1	0.282	-1	1.614	-1	5.718	-1	1739	44	1.1
51732.7	10000	41.6354	92.6747	-626	QK	2.0	-1	7.4	0	1.2	1	0.279	-1	1.652	-1	5.928	-1	1741	39	1.1
51732.6	10000	41.6354	92.6738	-627	QK	2.1	-1	7.5	0	1.2	1	0.276	-1	1.668	-1	6.045	-1	1727	35	1.1
51732.5	10000	41.6354	92.6729	-629	QK	2.1	-1	7.2	0	1.2	1	0.287	-1	1.746	-1	6.089	-1	1717	40	1.1
51732.4	10000	41.6354	92.6721	-630	QK	2.1	-1	7.2	0	1.2	0	0.297	-1	1.852	-1	6.236	0	1712	43	1.1
51732.3	10000	41.6354	92.6712	-631	QK	2.1	-1	6.9	0	1.2	0	0.302	-1	1.795	-1	5.953	-1	1686	38	1.1
51732.2	10000	41.6354	92.6703	-632	QK	2.0	-1	6.7	-1	1.1	0	0.302	-1	1.760	-1	5.834	-1	1671	44	1.1
51732.1	10000	41.6353	92.6695	-633	QK	1.9	-1	7.0	0	1.1	0	0.277	-1	1.744	-1	6.305	0	1645	34	1.1
51732.0	10000	41.6353	92.6686	-633	QK	1.8	-1	7.0	0	1.1	-1	0.256	-1	1.700	-1	6.651	0	1618	40	1.1
51731.9	10000	41.6353	92.6678	-633	QK	1.7	-2	7.1	0	1.0	-1	0.242	-2	1.700	-1	7.040	1	1611	42	1.1
51731.8	10000	41.6353	92.6669	-634	QK	1.6	-2	7.2	0	1.0	-1	0.227	-2	1.625	-1	7.164	1	1582	52	1.1
51731.7	10000	41.6353	92.6661	-634	QK	1.5	-2	7.2	0	1.0	-1	0.202	-2	1.455	-2	7.212	1	1560	47	1.1
51731.6	10000	41.6353	92.6652	-634	QK	1.6	-2	7.2	0	1.0	-1	0.217	-2	1.607	-1	7.411	1	1547	53	1.1
51731.5	10000	41.6353	92.6643	-635	QK	1.5	-2	7.0	0	1.0	-1	0.209	-2	1.514	-2	7.254	1	1540	40	1.1
51731.4	10000	41.6353	92.6635	-635	QK	1.5	-2	7.0	0	1.0	-1	0.217	-2	1.493	-2	6.872	1	1558	43	1.1
51731.3	10000	41.6353	92.6626	-635	QK	1.7	-2	6.8	-1	1.1	0	0.253	-1	1.568	-1	6.205	0	1589	36	1.1
51731.2	10000	41.6353	92.6618	-635	QK	1.6	-2	6.9	0	1.1	0	0.235	-2	1.429	-2	6.072	-1	1599	41	1.1
51731.1	10000	41.6353	92.6609	-635	QK	1.7	-2	7.3	0	1.1	0	0.230	-2	1.493	-2	6.483	0	1630	55	1.1
51731.0	10000	41.6353	92.6600	-635	QK	1.7	-2	7.7	1	1.1	0	0.215	-2	1.451	-2	6.748	0	1651	49	1.1
51730.9	10000	41.6353	92.6592	-635	QK	1.5	-2	8.2	1	1.1	0	0.179	-2	1.274	-2	7.126	1	1663	44	1.1
51730.8	10000	41.6353	92.6583	-635	QK	1.7	-2	8.2	1	1.1	0	0.208	-2	1.564	-1	7.506	1	1666	41	1.1
51730.7	10000	41.6353	92.6575	-635	QK	1.9	-1	8.3	1	1.1	0	0.225	-2	1.748	-1	7.765	2	1665	43	1.1
51730.6	10000	41.6353	92.6566	-635	QK	1.6	-2	8.4	2	1.0	-1	0.192	-2	1.594	-1	8.317	3	1650	31	1.1
51730.5	10000	41.6353	92.6558	-635	QK	1.7	-2	8.1	1	1.0	-1	0.215	-2	1.732	-1	8.056	2	1654	79	1.1
51730.4	10000	41.6353	92.6549	-635	QK	1.8	-1	7.7	1	1.1	-1	0.234	-2	1.705	-1	7.287	1	1668	38	1.1
51730.3	10000	41.6353	92.6540	-635	QK	2.1	-1	7.5	0	1.1	0	0.280	-1	1.962	-1	7.012	1	1675	47	1.1
51730.2	10000	41.6353	92.6532	-635	QK	2.2	-1	7.6	1	1.1	-1	0.290	-1	2.084	0	7.199	1	1686	41	1.1
51730.1	10000	41.6352	92.6523	-635	QK	2.2	-1	7.3	0	1.1	0	0.306	-1	2.023	-1	6.620	0	1702	56	1.1
51730.0	10000	41.6352	92.6515	-635	QK	2.1	-1	7.3	0	1.1	0	0.294	-1	1.913	-1	6.506	0	1718	38	1.1
51729.9	10000	41.6352	92.6506	-634	QK	2.3	0	7.4	0	1.1	0	0.316	0	2.057	0	6.504	0	1729	49	1.1
51729.8	10000	41.6352	92.6497	-633	QK	2.3	-1	7.2	0	1.1	0	0.314	-1	1.982	-1	6.314	0	1728	43	1.1
51729.7	10000	41.6352	92.6489	-632	QK	2.4	0	7.7	1	1.1	0	0.311	-1	2.092	0	6.731	0	1729	34	1.1
51729.6	10000	41.6352	92.6480	-632	QK	2.3	0	7.6	0	1.1	0	0.308	-1	2.054	0	6.661	0	1730	39	1.1
51729.5	10000	41.6352	92.6472	-631	QK	2.3	-1	7.2	0	1.2	0	0.313	-1	1.939	-1	6.201	0	1740	45	1.1
51729.4	10000	41.6352	92.6463	-630	QK	2.3	0	7.6	1	1.1	0	0.300	-1	1.998	-1	6.656	0	1737	41	1.0
51729.3	10000	41.6352	92.6455	-628	QK	2.3	-1	7.5	0	1.1	0	0.301	-1	1.998	-1	6.641	0	1743	53	1.0
51729.2	10000	41.6352	92.6446	-625	QK	2.4	0	7.3	0	1.2	0	0.332	0	2.070	0	6.230	0	1758	43	1.0
51729.1	10000	41.6352	92.6437	-622	QK	2.4	0	7.6	0	1.2	0	0.319	0	2.066	0	6.478	0	1772	43	1.0
51729.0	10000	41.6352	92.6429	-620	QK	2.6	0	7.5	1	1.2	0	0.342	0	2.147	0	6.273	0	1768	42	1.0
51728.9	10000	41.6352	92.6420	-616	QK	2.6	0	7.4	1	1.2	0	0.353	0	2.161	0	6.130	-1	1766	41	1.0
51728.8	10000	41.6352	92.6412	-613	QK	2.5	0	7.3	1	1.2	0	0.339	0	2.062	0	6.083	-1	1771	40	1.0
51728.7	10000	41.6352	92.6403	-609	QK	2.5	0	7.0	1	1.2	0	0.357	0	2.032	0	5.700	-1	1777	41	1.0
51728.6	10000	41.6352	92.6395	-606	QK	2.4	0	7.0	1	1.2	0	0.347	0	1.955	-1	5.636	-1	1777	51	1.0
51728.5	10000	41.6352	92.6386	-601	QK	2.2	-1	7.0	1	1.3	0	0.311	-1	1.742	-1	5.599	-1	1772	37	1.0
51728.4	10000	41.6351	92.6377	-597	QK	2.2	-1	6.7	-1	1.2	0	0.338	0	1.807	-1	5.352	-2	1765	32	1.0
51728.3	10000	41.6351	92.6369	-593	QK	2.0	-1	6.5	-1	1.2	0	0.307	-1	1.617	-1	5.273	-2	1756	34	1.0
51728.2	10000	41.6351	92.6360	-588	QK	2.1	-1	6.7	-1	1.2	0	0.307	-1	1.642	-1	5.351	-2	1763	50	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51728.1	10000	41.6351	92.6351	-583	QK	2.3	0	7.1	0	1.3	1	0.333	0	1.871	-1	5.626	-1	1770	44	1.0
51728.0	10000	41.6351	92.6343	-578	QK	2.3	0	7.2	0	1.2	1	0.321	0	1.856	-1	5.786	-1	1780	41	1.0
51727.9	10000	41.6351	92.6334	-573	QK	2.4	0	7.3	0	1.3	1	0.334	0	1.912	-1	5.722	-1	1782	42	1.0
51727.8	10000	41.6351	92.6326	-567	QK	2.6	0	7.6	1	1.3	1	0.337	0	2.024	-1	6.004	-1	1777	38	1.0
51727.7	10000	41.6351	92.6317	-563	QK	2.6	0	7.9	1	1.3	1	0.328	0	2.017	-1	6.152	0	1785	44	1.0
51727.6	10000	41.6351	92.6309	-558	QK	2.8	1	7.9	1	1.2	1	0.351	0	2.262	0	6.440	0	1782	50	1.0
51727.5	10000	41.6351	92.6300	-553	QK	2.7	0	8.1	1	1.2	1	0.338	0	2.306	0	6.832	0	1770	57	1.0
51727.4	10000	41.6351	92.6291	-549	QK	2.7	0	7.9	1	1.1	0	0.339	0	2.347	0	6.930	1	1735	56	1.0
51727.3	10000	41.6351	92.6283	-544	QK	2.5	0	7.7	1	1.1	0	0.317	0	2.220	0	6.996	1	1699	40	1.0
51727.2	10000	41.6351	92.6274	-541	QK	2.5	0	7.5	0	1.1	0	0.329	0	2.272	0	6.914	1	1672	42	1.0
51727.1	10000	41.6351	92.6266	-538	QK	2.1	-1	7.3	0	1.1	-1	0.292	-1	2.001	-1	6.855	1	1649	46	1.0
51727.0	10000	41.6351	92.6257	-535	QK	2.3	0	7.5	0	1.0	-1	0.311	-1	2.269	0	7.296	1	1639	47	1.0
51726.9	10000	41.6351	92.6248	-532	QK	2.4	0	7.2	0	1.1	0	0.328	0	2.189	0	6.674	0	1633	41	1.0
51726.8	10000	41.6351	92.6240	-530	QK	2.3	-1	7.1	0	1.1	0	0.321	0	2.061	0	6.419	0	1625	45	1.0
51726.7	10000	41.6351	92.6231	-527	QK	2.2	-1	7.1	0	1.1	0	0.308	-1	1.953	-1	6.334	0	1631	26	1.0
51726.6	10000	41.6351	92.6223	-526	QK	2.5	0	7.2	0	1.2	1	0.345	0	2.086	0	6.044	-1	1661	37	1.0
51726.5	10000	41.6351	92.6214	-524	QK	2.4	0	7.5	0	1.2	1	0.325	0	1.979	-1	6.088	-1	1679	44	1.0
51726.4	10000	41.6350	92.6206	-523	QK	2.7	0	7.4	0	1.2	1	0.370	0	2.200	0	5.946	-1	1703	42	1.0
51726.3	10000	41.6350	92.6197	-522	QK	2.6	0	7.0	0	1.3	1	0.373	0	2.027	-1	5.429	-2	1712	65	1.0
51726.2	10000	41.6350	92.6188	-522	QK	2.6	0	7.4	0	1.3	1	0.349	0	2.021	-1	5.788	-1	1736	48	1.0
51726.1	10000	41.6350	92.6180	-522	QK	2.8	1	7.0	0	1.2	1	0.395	1	2.265	0	5.734	-1	1764	47	0.9
51726.0	10000	41.6350	92.6171	-522	QK	2.8	1	7.0	0	1.3	1	0.409	1	2.267	0	5.539	-1	1793	48	0.9
51725.9	10000	41.6350	92.6163	-523	QK	2.9	1	7.2	0	1.2	1	0.402	1	2.400	0	5.971	-1	1799	43	0.9
51725.8	10000	41.6350	92.6154	-525	QK	2.9	1	7.1	0	1.1	0	0.404	1	2.567	0	6.348	0	1805	45	0.9
51725.7	10000	41.6350	92.6145	-526	QK	2.8	1	7.1	0	1.1	0	0.402	1	2.502	0	6.224	0	1808	49	0.9
51725.6	10000	41.6350	92.6137	-527	QK	2.9	1	6.9	0	1.2	1	0.419	1	2.455	0	5.862	-1	1814	51	0.9
51725.5	10000	41.6350	92.6128	-528	QK	3.0	1	7.0	0	1.2	1	0.434	1	2.495	0	5.754	-1	1828	51	0.9
51725.4	10000	41.6350	92.6120	-528	QK	3.0	1	7.0	0	1.2	1	0.432	1	2.425	0	5.614	-1	1813	53	0.9
51725.3	10000	41.6350	92.6111	-528	QK	3.1	1	7.1	0	1.2	1	0.437	1	2.493	0	5.705	-1	1805	45	1.0
51725.2	10000	41.6350	92.6103	-529	QK	2.9	1	6.9	0	1.3	1	0.425	1	2.317	0	5.451	-1	1797	38	1.0
51725.1	10000	41.6350	92.6094	-528	QK	2.9	1	6.8	0	1.3	1	0.424	1	2.217	0	5.229	-2	1791	49	1.0
51725.0	10000	41.6350	92.6085	-528	QK	2.7	1	6.9	0	1.3	1	0.388	1	2.075	0	5.344	-2	1777	45	1.0
51724.9	10000	41.6350	92.6077	-527	QK	2.5	1	7.3	0	1.3	0	0.342	0	1.992	-1	5.819	-1	1769	39	1.0
51724.8	10000	41.6349	92.6068	-525	QK	2.4	1	7.0	0	1.3	0	0.336	0	1.883	-1	5.598	-1	1760	52	1.0
51724.7	10000	41.6349	92.6060	-524	QK	2.2	1	7.2	0	1.3	1	0.303	-1	1.673	-1	5.521	-1	1761	40	1.0
51724.6	10000	41.6349	92.6051	-521	QK	2.1	1	7.4	0	1.3	1	0.279	-1	1.596	-1	5.725	-1	1761	51	1.0
51724.5	10000	41.6349	92.6042	-518	QK	2.0	1	7.6	0	1.3	1	0.260	-1	1.521	-2	5.848	-1	1767	45	1.0
51724.4	10000	41.6349	92.6034	-515	QK	2.1	1	7.5	0	1.3	1	0.277	-1	1.647	-1	5.938	-1	1771	47	1.0
51724.3	10000	41.6349	92.6025	-511	QK	2.2	1	7.5	0	1.3	1	0.290	-1	1.684	-1	5.813	-1	1794	39	1.0
51724.2	10000	41.6349	92.6017	-508	QK	2.2	1	7.4	0	1.3	1	0.302	-1	1.737	-1	5.745	-1	1809	38	1.0
51724.1	10000	41.6349	92.6008	-503	QK	2.3	1	7.6	0	1.2	1	0.298	-1	1.821	-1	6.118	-1	1808	43	1.0
51724.0	10000	41.6349	92.5999	-499	QK	2.4	1	7.7	0	1.2	1	0.311	-1	1.962	-1	6.309	0	1809	44	1.0
51723.9	10000	41.6349	92.5991	-495	QK	2.5	1	7.3	0	1.2	1	0.337	0	2.042	0	6.051	-1	1808	38	1.0
51723.8	10000	41.6349	92.5982	-491	QK	2.7	1	7.1	0	1.2	1	0.376	0	2.223	0	5.915	-1	1799	43	1.0
51723.7	10000	41.6349	92.5974	-487	QK	2.6	1	7.0	0	1.2	1	0.364	0	2.114	0	5.802	-1	1797	47	1.0
51723.6	10000	41.6349	92.5965	-483	QK	2.7	1	6.6	-1	1.2	1	0.405	1	2.261	0	5.582	-1	1780	40	1.0
51723.5	10000	41.6349	92.5957	-479	QK	2.7	1	6.5	-1	1.2	1	0.415	1	2.290	0	5.523	-1	1755	39	1.0
51723.4	10000	41.6349	92.5948	-475	QK	2.6	1	6.4	-1	1.2	1	0.403	1	2.141	0	5.312	-2	1748	36	1.0
51723.3	10000	41.6349	92.5939	-472	QK	2.5	1	6.3	-1	1.2	1	0.402	1	2.088	0	5.200	-2	1745	47	1.0
51723.2	10000	41.6349	92.5931	-469	QK	2.5	1	6.8	-1	1.2	1	0.364	1	2.003	-1	5.496	-1	1742	45	1.0
51723.1	10000	41.6349	92.5922	-466	QK	2.4	1	6.9	0	1.2	1	0.349	1	1.939	-1	5.559	-1	1745	42	1.0
51723.0	10000	41.6348	92.5914	-463	QK	2.6	0	7.1	0	1.2	1	0.362	0	2.076	0	5.736	-1	1744	48	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51722.9	10000	41.6348	92.5905	-460	QK	2.5	0	7.3	0	1.2	1	0.340	0	2.018	-1	5.937	-1	1729	42	1.0
51722.8	10000	41.6348	92.5896	-457	QK	2.5	0	7.0	0	1.2	1	0.360	0	2.122	0	5.888	-1	1733	48	1.0
51722.7	10000	41.6348	92.5888	-455	QK	2.5	0	7.2	0	1.2	1	0.355	0	2.160	0	6.086	-1	1737	48	1.0
51722.6	10000	41.6348	92.5879	-453	QK	2.4	0	7.5	0	1.1	0	0.325	0	2.154	0	6.635	0	1718	42	1.0
51722.5	10000	41.6348	92.5871	-451	QK	2.4	0	7.0	0	1.1	0	0.346	0	2.233	0	6.457	0	1700	36	1.0
51722.4	10000	41.6348	92.5862	-448	QK	2.4	0	7.2	0	1.0	-1	0.330	0	2.280	0	6.898	1	1677	55	1.0
51722.3	10000	41.6348	92.5854	-446	QK	2.3	-1	7.5	0	1.0	-1	0.303	-1	2.161	0	7.127	1	1665	51	1.0
51722.2	10000	41.6348	92.5845	-445	QK	2.2	-1	7.8	1	1.0	-1	0.285	-1	2.126	0	7.472	1	1671	48	1.0
51722.1	10000	41.6348	92.5836	-443	QK	2.3	0	8.3	1	1.1	0	0.283	-1	2.201	0	7.787	2	1677	41	1.0
51722.0	10000	41.6348	92.5828	-442	QK	2.2	-1	8.2	1	1.1	0	0.273	-1	2.113	0	7.742	2	1674	54	1.0
51721.9	10000	41.6348	92.5819	-440	QK	2.3	0	7.7	1	1.1	0	0.305	-1	2.212	0	7.258	1	1682	47	1.0
51721.8	10000	41.6348	92.5811	-439	QK	2.5	0	7.8	1	1.1	0	0.314	-1	2.174	0	6.922	1	1698	46	1.0
51721.7	10000	41.6348	92.5802	-437	QK	2.7	0	7.4	1	1.2	0	0.359	0	2.317	0	6.449	0	1713	64	1.0
51721.6	10000	41.6348	92.5793	-436	QK	2.8	1	7.4	0	1.1	0	0.378	0	2.522	1	6.681	0	1706	44	1.0
51721.5	10000	41.6348	92.5785	-434	QK	2.8	1	7.6	0	1.1	0	0.372	0	2.586	1	6.961	1	1696	38	1.0
51721.4	10000	41.6348	92.5776	-433	QK	2.6	1	7.5	0	1.1	0	0.351	0	2.454	0	6.999	1	1668	39	1.0
51721.3	10000	41.6348	92.5768	-432	QK	2.7	0	7.3	0	1.0	-1	0.367	0	2.541	1	6.919	1	1650	41	1.0
51721.2	10000	41.6348	92.5759	-431	QK	2.7	0	7.5	0	1.1	-1	0.362	0	2.588	1	7.143	1	1640	48	1.0
51721.1	10000	41.6347	92.5751	-430	QK	2.6	0	7.5	0	1.0	-1	0.346	0	2.571	1	7.425	1	1632	43	1.0
51721.0	10000	41.6347	92.5742	-429	QK	2.4	0	7.5	0	1.0	-1	0.325	0	2.480	1	7.628	2	1616	45	1.0
51720.9	10000	41.6347	92.5733	-428	QK	2.3	-1	7.1	0	1.0	-1	0.316	0	2.279	0	7.204	1	1615	47	1.0
51720.8	10000	41.6347	92.5725	-427	QK	2.4	0	6.8	-1	1.1	-1	0.349	0	2.252	0	6.459	0	1640	36	1.0
51720.7	10000	41.6347	92.5716	-426	QK	2.5	0	6.7	-1	1.1	0	0.382	0	2.331	0	6.099	-1	1665	39	1.0
51720.6	10000	41.6347	92.5708	-426	QK	2.4	0	6.9	0	1.1	0	0.352	0	2.171	0	6.168	0	1689	47	1.0
51720.5	10000	41.6347	92.5699	-425	QK	2.5	0	6.9	0	1.1	0	0.363	0	2.190	0	6.031	-1	1722	36	1.0
51720.4	10000	41.6347	92.5690	-424	QK	2.6	0	7.1	0	1.1	0	0.365	0	2.294	0	6.285	0	1732	44	1.0
51720.3	10000	41.6347	92.5682	-423	QK	2.7	0	7.2	0	1.2	0	0.380	0	2.354	0	6.194	0	1753	51	1.0
51720.2	10000	41.6347	92.5673	-422	QK	2.7	0	7.3	0	1.2	0	0.370	0	2.250	0	6.081	-1	1774	48	1.0
51720.1	10000	41.6347	92.5665	-422	QK	2.7	0	7.8	0	1.2	0	0.340	0	2.286	0	6.727	0	1787	38	1.0
51720.0	10000	41.6348	92.5656	-420	QK	2.5	0	7.9	0	1.2	0	0.313	-1	2.059	0	6.572	0	1796	45	1.1
51719.9	10000	41.6348	92.5648	-419	QK	2.5	0	7.8	0	1.2	0	0.320	-1	2.007	-1	6.278	0	1804	42	1.1
51719.8	10000	41.6348	92.5639	-418	QK	2.4	0	7.5	0	1.3	0	0.319	-1	1.907	-1	5.987	-1	1792	43	1.1
51719.7	10000	41.6348	92.5631	-417	QK	2.3	0	7.2	0	1.3	0	0.314	-1	1.759	-1	5.597	-1	1795	48	1.1
51719.6	10000	41.6348	92.5622	-416	QK	2.0	-1	7.6	0	1.3	0	0.270	-1	1.574	-1	5.821	-1	1797	41	1.1
51719.5	10000	41.6348	92.5614	-414	QK	2.1	-1	7.7	0	1.3	0	0.277	-1	1.661	-1	5.994	-1	1794	52	1.1
51719.4	10000	41.6348	92.5605	-414	QK	2.0	-1	7.4	0	1.2	0	0.277	-1	1.643	-1	5.938	-1	1776	48	1.1
51719.3	10000	41.6349	92.5597	-412	QK	2.0	-1	7.5	0	1.2	0	0.267	-1	1.645	-1	6.158	0	1766	50	1.1
51719.2	10000	41.6349	92.5588	-411	QK	2.2	-1	7.7	0	1.1	0	0.288	-1	1.944	-1	6.746	0	1742	42	1.1
51719.1	10000	41.6349	92.5580	-410	QK	2.1	-1	8.1	0	1.1	0	0.258	-1	1.929	-1	7.474	1	1726	38	1.1
51719.0	10000	41.6349	92.5571	-409	QK	2.2	-1	8.4	0	1.1	0	0.266	-1	2.058	0	7.739	2	1710	47	1.1
51718.9	10000	41.6349	92.5563	-407	QK	2.2	-1	8.3	0	1.1	0	0.267	-1	2.039	0	7.626	2	1702	34	1.1
51718.8	10000	41.6349	92.5554	-406	QK	2.4	-1	8.2	0	1.1	0	0.290	-1	2.203	0	7.596	2	1711	33	1.1
51718.7	10000	41.6350	92.5546	-404	QK	2.6	0	7.8	0	1.1	0	0.337	0	2.393	1	7.109	1	1717	42	1.1
51718.6	10000	41.6350	92.5537	-402	QK	2.9	0	7.8	0	1.1	0	0.366	0	2.516	1	6.872	1	1737	50	1.1
51718.5	10000	41.6350	92.5529	-401	QK	2.8	0	7.6	0	1.1	0	0.372	0	2.312	0	6.209	0	1761	47	1.1
51718.4	10000	41.6350	92.5520	-399	QK	2.9	0	7.5	0	1.1	0	0.383	0	2.330	0	6.090	-1	1787	36	1.1
51718.3	10000	41.6350	92.5512	-398	QK	3.0	0	7.2	0	1.2	0	0.413	0	2.437	0	5.904	-1	1800	47	1.1
51718.2	10000	41.6350	92.5503	-397	QK	2.9	0	7.1	0	1.2	0	0.454	0	2.581	0	5.691	-1	1823	52	1.1
51718.1	10000	41.6350	92.5495	-397	QK	2.9	0	6.9	0	1.3	0	0.426	0	2.314	0	5.428	-2	1809	34	1.1
51718.0	10000	41.6351	92.5486	-396	QK	2.8	0	6.9	0	1.3	0	0.407	0	2.242	0	5.512	-1	1814	58	1.1
51717.9	10000	41.6351	92.5478	-395	QK	2.7	0	6.8	-1	1.3	0	0.391	0	2.200	0	5.631	-1	1801	38	1.1
51717.8	10000	41.6351	92.5469	-393	QK	2.7	0	6.9	0	1.2	1	0.393	1	2.227	0	5.668	-1	1798	51	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51717.7	10000	41.6351	92.5461	-392	QK	2.8	1	6.7	-1	1.2	1	0.417	1	2.223	0	5.333	-2	1784	50	1.1
51717.6	10000	41.6351	92.5452	-390	QK	2.6	0	6.8	-1	1.3	1	0.384	0	2.079	0	5.410	-2	1781	43	1.1
51717.5	10000	41.6351	92.5444	-388	QK	2.5	0	6.9	0	1.3	1	0.359	0	1.966	-1	5.479	-1	1768	42	1.1
51717.4	10000	41.6351	92.5435	-386	QK	2.7	0	7.2	0	1.3	1	0.378	0	2.124	0	5.611	-1	1769	41	1.1
51717.3	10000	41.6352	92.5427	-383	QK	2.8	0	7.4	0	1.3	1	0.373	0	2.156	0	5.777	-1	1762	45	1.1
51717.2	10000	41.6352	92.5418	-381	QK	2.8	1	7.5	0	1.2	1	0.375	0	2.253	0	6.004	-1	1767	44	1.1
51717.1	10000	41.6352	92.5410	-379	QK	2.8	0	7.7	1	1.2	1	0.359	0	2.234	0	6.230	0	1760	52	1.1
51717.0	10000	41.6352	92.5401	-377	QK	2.7	0	7.8	1	1.2	1	0.342	0	2.137	0	6.256	0	1767	34	1.1
51716.9	10000	41.6352	92.5393	-374	QK	2.6	0	7.9	1	1.2	1	0.334	0	2.104	0	6.302	0	1768	34	1.1
51716.8	10000	41.6352	92.5384	-371	QK	2.6	0	7.7	1	1.2	1	0.336	0	2.130	0	6.336	0	1753	39	1.1
51716.7	10000	41.6353	92.5376	-367	QK	2.5	0	7.6	1	1.2	1	0.321	0	2.055	0	6.395	0	1746	50	1.1
51716.6	10000	41.6353	92.5367	-363	QK	2.3	0	7.4	0	1.3	1	0.317	0	1.859	-1	5.870	-1	1738	49	1.1
51716.5	10000	41.6353	92.5359	-359	QK	2.2	0	7.4	0	1.3	1	0.309	-1	1.767	-1	5.714	-1	1732	59	1.1
51716.4	10000	41.6353	92.5350	-355	QK	2.2	-1	7.3	0	1.3	1	0.299	-1	1.743	-1	5.819	-1	1727	44	1.1
51716.3	10000	41.6353	92.5342	-350	QK	2.3	0	7.3	0	1.2	1	0.316	0	1.860	-1	5.883	-1	1735	40	1.1
51716.2	10000	41.6353	92.5333	-345	QK	2.3	0	7.2	0	1.2	1	0.315	-1	1.881	-1	5.982	-1	1737	41	1.1
51716.1	10000	41.6353	92.5325	-340	QK	2.3	0	7.4	0	1.2	1	0.314	-1	1.924	-1	6.124	-1	1758	38	1.1
51716.0	10000	41.6354	92.5316	-335	QK	2.2	-1	7.6	0	1.2	1	0.287	-1	1.787	-1	6.232	0	1773	50	1.1
51715.9	10000	41.6354	92.5308	-328	QK	2.3	-1	7.9	1	1.2	1	0.287	-1	1.881	-1	6.561	0	1794	40	1.1
51715.8	10000	41.6354	92.5299	-321	QK	2.2	-1	7.8	1	1.2	1	0.283	-1	1.846	-1	6.514	0	1808	42	1.1
51715.7	10000	41.6354	92.5291	-314	QK	2.3	0	7.8	1	1.2	1	0.296	-1	1.874	-1	6.326	0	1818	41	1.1
51715.6	10000	41.6354	92.5282	-307	QK	2.3	0	8.1	1	1.2	1	0.288	-1	1.918	-1	6.658	0	1820	50	1.1
51715.5	10000	41.6354	92.5274	-299	QK	2.2	-1	7.9	1	1.2	1	0.284	-1	1.809	-1	6.373	0	1813	53	1.1
51715.4	10000	41.6354	92.5265	-291	QK	2.5	0	7.9	1	1.3	1	0.310	-1	1.959	-1	6.317	0	1807	43	1.1
51715.3	10000	41.6355	92.5257	-282	QK	2.4	0	8.0	1	1.2	1	0.302	-1	1.941	-1	6.422	0	1787	40	1.1
51715.2	10000	41.6355	92.5248	-272	QK	2.4	0	7.8	1	1.2	1	0.301	-1	1.939	-1	6.444	0	1773	34	1.1
51715.1	10000	41.6355	92.5240	-263	QK	2.4	0	7.5	0	1.2	1	0.315	-1	1.938	-1	6.156	0	1760	48	1.1
51715.0	10000	41.6355	92.5231	-253	QK	2.3	0	7.0	0	1.2	1	0.331	0	1.949	-1	5.884	-1	1738	50	1.1
51714.9	10000	41.6355	92.5223	-241	QK	2.2	-1	6.7	-1	1.2	1	0.330	0	1.850	-1	5.605	-1	1720	42	1.1
51714.8	10000	41.6355	92.5214	-228	QK	2.3	0	6.9	0	1.2	1	0.331	0	1.954	-1	5.904	-1	1725	45	1.1
51714.7	10000	41.6356	92.5206	-214	QK	2.1	-1	7.0	1	1.2	1	0.293	-1	1.773	-1	6.062	-1	1715	41	1.1
51714.6	10000	41.6356	92.5197	-208	QK	2.1	-1	7.2	1	1.1	1	0.296	-1	1.857	-1	6.265	0	1729	34	1.1
51714.5	10000	41.6356	92.5189	-198	QK	2.1	-1	7.3	0	1.1	1	0.291	-1	1.889	-1	6.482	0	1728	45	1.1
51714.4	10000	41.6356	92.5180	-187	QK	2.1	-1	7.5	0	1.1	1	0.278	-1	1.882	-1	6.769	0	1703	42	1.1
51714.3	10000	41.6356	92.5172	-176	QK	2.0	-1	7.8	1	1.1	0	0.251	-1	1.824	-1	7.262	1	1686	42	1.1
51714.2	10000	41.6356	92.5163	-166	QK	2.1	-1	7.6	0	1.1	0	0.277	-1	1.958	-1	7.074	1	1661	42	1.1
51714.1	10000	41.6356	92.5155	-156	QK	2.1	-1	7.3	0	1.0	-1	0.291	-1	2.089	0	7.175	1	1618	51	1.1
51714.0	10000	41.6357	92.5146	-145	QK	2.3	-1	7.0	0	1.0	-1	0.325	0	2.343	0	7.201	1	1597	46	1.1
51713.9	10000	41.6357	92.5138	-134	QK	2.4	0	6.6	-1	1.0	-1	0.369	0	2.455	0	6.658	0	1586	59	1.1
51713.8	10000	41.6357	92.5129	-123	QK	2.3	0	6.0	-2	1.0	-1	0.389	1	2.330	0	5.993	-1	1580	50	1.1
51713.7	10000	41.6357	92.5121	-112	QK	2.4	0	5.8	-2	1.0	-1	0.407	1	2.388	0	5.874	-1	1586	45	1.1
51713.6	10000	41.6357	92.5112	-100	QK	2.6	0	5.8	-2	1.0	-1	0.438	1	2.468	0	5.630	-1	1597	34	1.1
51713.5	10000	41.6357	92.5104	-88	QK	2.5	0	5.8	-2	1.0	-1	0.430	1	2.459	0	5.716	-1	1598	45	1.1
51713.4	10000	41.6357	92.5095	-77	QK	2.5	0	5.8	-2	1.0	-1	0.431	1	2.443	0	5.665	-1	1604	45	1.1
51713.3	10000	41.6358	92.5087	-65	QK	2.5	0	5.6	-2	1.0	-1	0.452	1	2.466	0	5.457	-1	1602	49	1.1
51713.2	10000	41.6358	92.5078	-53	QK	2.4	0	5.5	-2	1.0	-1	0.428	1	2.305	0	5.391	-2	1601	39	1.1
51713.1	10000	41.6358	92.5070	-40	QK	2.4	0	6.0	-1	1.0	-1	0.400	1	2.366	0	5.911	-1	1596	49	1.1
51713.0	10000	41.6358	92.5061	-26	QK	2.4	0	6.1	-1	1.0	-1	0.394	1	2.363	0	5.995	-1	1588	32	1.1
51712.9	10000	41.6358	92.5053	-12	QK	2.3	-1	6.1	-2	1.0	-1	0.370	1	2.212	0	5.972	-1	1590	36	1.1
51712.8	10000	41.6358	92.5044	1	QK	2.2	-1	6.1	-2	1.0	-1	0.360	0	2.148	0	5.961	-1	1599	39	1.1
51712.7	10000	41.6358	92.5036	14	QK	2.2	-1	6.1	-2	1.0	-1	0.356	0	2.106	0	5.910	-1	1596	45	1.1
51712.6	10000	41.6359	92.5027	28	QK	2.0	-1	6.2	-1	1.0	-1	0.317	0	1.927	-1	6.083	-1	1581	48	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51712.5	10000	41.6359	92.5019	42	QK	2.0	-1	6.4	-1	1.0	-1	0.317	0	2.066	0	6.517	0	1566	36	1.1
51712.4	10000	41.6359	92.5010	56	QK	2.0	-1	6.4	-1	1.0	-1	0.316	0	2.044	0	6.467	0	1578	49	1.1
51712.3	10000	41.6359	92.5002	70	QK	2.1	-1	6.7	-1	1.0	-1	0.307	-1	2.056	0	6.686	0	1603	45	1.1
51712.2	10000	41.6359	92.4993	84	QK	2.2	-1	7.0	0	1.0	-1	0.315	0	2.198	0	6.976	1	1624	29	1.1
51712.1	10000	41.6359	92.4985	97	QK	2.1	-1	7.5	0	1.0	-1	0.283	-1	2.070	0	7.320	1	1647	52	1.1
51712.0	10000	41.6359	92.4976	111	QK	2.3	0	7.5	0	1.1	0	0.305	-1	2.110	0	6.917	1	1684	49	1.1
51711.9	10000	41.6359	92.4968	125	QK	2.3	-1	7.6	0	1.1	0	0.297	-1	1.984	-1	6.676	0	1717	47	1.1
51711.8	10000	41.6360	92.4959	138	QK	2.4	0	7.4	0	1.2	1	0.322	0	2.002	-1	6.211	0	1754	43	1.1
51711.7	10000	41.6360	92.4951	151	QK	2.6	0	7.4	0	1.2	1	0.348	0	2.091	0	6.002	-1	1770	45	1.1
51711.6	10000	41.6360	92.4942	162	QK	2.5	0	7.0	0	1.2	1	0.358	0	2.037	0	5.697	-1	1781	44	1.1
51711.5	10000	41.6360	92.4934	174	QK	2.6	0	7.1	0	1.2	1	0.371	0	2.169	0	5.845	-1	1781	40	1.1
51711.4	10000	41.6360	92.4925	184	QK	2.8	1	7.1	0	1.2	1	0.399	1	2.306	0	5.782	-1	1788	49	1.1
51711.3	10000	41.6360	92.4917	194	QK	2.5	0	7.3	0	1.2	1	0.340	0	2.023	-1	5.948	-1	1783	44	1.1
51711.2	10000	41.6361	92.4908	204	QK	2.7	0	7.9	1	1.2	1	0.336	0	2.151	0	6.407	0	1786	45	1.1
51711.1	10000	41.6361	92.4900	212	QK	2.3	0	8.2	1	1.2	1	0.284	-1	1.897	-1	6.670	0	1756	55	1.1
51711.0	10000	41.6361	92.4891	220	QK	2.0	-1	8.3	1	1.2	1	0.246	-1	1.717	-1	6.971	1	1728	58	1.1
51710.9	10000	41.6361	92.4883	227	QK	2.0	-1	8.3	2	1.2	1	0.244	-1	1.755	-1	7.199	1	1696	40	1.1
51710.8	10000	41.6361	92.4874	232	QK	1.9	-1	8.1	2	1.2	1	0.241	-2	1.639	-1	6.802	0	1685	42	1.1
51710.7	10000	41.6361	92.4866	237	QK	2.0	-1	7.9	1	1.2	1	0.255	-1	1.726	-1	6.757	0	1659	35	1.1
51710.6	10000	41.6361	92.4857	242	QK	2.2	-1	7.7	1	1.1	0	0.282	-1	1.941	-1	6.882	1	1657	55	1.1
51710.5	10000	41.6362	92.4848	246	QK	2.1	-1	7.3	0	1.1	0	0.296	-1	1.874	-1	6.339	0	1666	46	1.1
51710.4	10000	41.6362	92.4840	250	QK	2.3	0	6.8	-1	1.1	0	0.336	0	1.999	-1	5.949	-1	1681	45	1.1
51710.3	10000	41.6362	92.4832	253	QK	2.5	0	6.7	-1	1.2	1	0.375	0	2.094	0	5.580	-1	1688	41	1.1
51710.2	10000	41.6362	92.4823	255	QK	2.5	0	6.9	0	1.2	1	0.363	0	2.054	0	5.661	-1	1699	44	1.1
51710.1	10000	41.6362	92.4815	256	QK	2.5	0	6.9	0	1.2	1	0.355	0	2.023	-1	5.693	-1	1689	48	1.1
51710.0	10000	41.6362	92.4806	256	QK	2.3	0	6.9	0	1.2	1	0.336	0	1.882	-1	5.600	-1	1693	47	1.1
51709.9	10000	41.6363	92.4798	255	QK	2.4	0	6.7	-1	1.2	1	0.357	0	1.961	-1	5.497	-1	1683	49	1.1
51709.8	10000	41.6363	92.4789	255	QK	2.3	0	7.0	0	1.2	1	0.328	0	1.908	-1	5.810	-1	1667	38	1.1
51709.7	10000	41.6363	92.4781	255	QK	2.3	-1	7.0	0	1.2	1	0.321	0	1.892	-1	5.892	-1	1662	45	1.1
51709.6	10000	41.6363	92.4772	254	QK	2.0	-1	7.1	0	1.2	1	0.279	-1	1.700	-1	6.104	-1	1664	51	1.1
51709.5	10000	41.6363	92.4763	253	QK	2.2	-1	7.2	1	1.2	1	0.304	-1	1.882	-1	6.190	0	1679	42	1.1
51709.4	10000	41.6363	92.4755	251	QK	2.0	-1	7.6	1	1.1	1	0.263	-1	1.753	-1	6.677	0	1702	41	1.1
51709.3	10000	41.6363	92.4747	248	QK	2.1	-1	7.7	1	1.1	1	0.268	-1	1.842	-1	6.876	1	1686	48	1.1
51709.2	10000	41.6363	92.4738	245	QK	1.9	-1	8.1	1	1.1	1	0.232	-2	1.725	-1	7.438	1	1691	41	1.1
51709.1	10000	41.6364	92.4729	240	QK	1.9	-1	7.9	1	1.1	1	0.239	-2	1.729	-1	7.232	1	1691	55	1.1
51709.0	10000	41.6364	92.4721	236	QK	2.1	-1	8.0	1	1.1	1	0.260	-1	1.956	-1	7.517	1	1691	35	1.1
51708.9	10000	41.6364	92.4713	231	QK	2.2	-1	7.7	1	1.1	1	0.284	-1	2.005	-1	7.060	1	1700	41	1.1
51708.8	10000	41.6364	92.4704	226	QK	2.2	-1	7.9	1	1.1	1	0.275	-1	1.999	-1	7.275	1	1713	38	1.1
51708.7	10000	41.6364	92.4695	221	QK	2.4	0	7.6	1	1.1	1	0.320	0	2.107	0	6.592	1	1720	31	1.1
51708.6	10000	41.6364	92.4687	216	QK	2.4	0	7.5	1	1.2	1	0.319	0	2.005	-1	6.295	0	1750	33	1.1
51708.5	10000	41.6365	92.4678	210	QK	2.5	0	7.5	1	1.2	1	0.329	0	2.010	-1	6.103	-1	1765	46	1.1
51708.4	10000	41.6365	92.4670	205	QK	2.5	0	7.4	1	1.2	1	0.340	0	2.035	-1	5.981	-1	1792	42	1.1
51708.3	10000	41.6365	92.4661	198	QK	2.6	0	7.7	1	1.3	1	0.335	0	2.011	-1	5.995	-1	1808	44	1.1
51708.2	10000	41.6365	92.4653	192	QK	2.7	0	8.3	1	1.3	1	0.324	0	2.166	0	6.691	1	1824	41	1.1
51708.1	10000	41.6365	92.4644	185	QK	2.6	0	8.0	1	1.3	1	0.321	0	2.014	-1	6.283	0	1819	47	1.1
51708.0	10000	41.6365	92.4636	178	QK	2.5	0	8.4	1	1.2	1	0.306	-1	1.986	-1	6.483	0	1818	32	1.1
51707.9	10000	41.6365	92.4627	167	QK	2.6	0	8.1	1	1.2	1	0.309	-1	2.099	0	6.787	0	1821	50	1.1
51707.8	10000	41.6365	92.4619	161	QK	2.7	0	8.3	1	1.2	1	0.336	0	2.210	0	6.580	0	1826	41	1.1
51707.7	10000	41.6366	92.4610	151	QK	2.9	0	8.2	1	1.2	1	0.349	0	2.423	1	6.939	1	1813	33	1.1
51707.6	10000	41.6366	92.4602	142	QK	3.0	1	8.8	1	1.2	1	0.365	1	2.606	1	7.139	1	1818	55	1.1
51707.5	10000	41.6366	92.4593	131	QK	3.1	1	8.8	1	1.2	1	0.393	1	2.579	1	6.557	1	1804	41	1.1
51707.4	10000	41.6366	92.4585	121	QK	3.1	1	7.7	1	1.2	1	0.409	1	2.626	1	6.418	0	1818	47	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51707.3	10000	41.6366	92.4576	109	QK	3.4	2	7.7	1	1.2	1	0.435	1	2.779	1	6.393	0	1820	45	1.1
51707.2	10000	41.6366	92.4568	98	QK	3.2	1	7.5	0	1.2	1	0.430	1	2.693	1	6.255	0	1812	43	1.1
51707.1	10000	41.6366	92.4559	86	QK	3.1	1	7.9	1	1.2	1	0.391	1	2.574	1	6.586	0	1801	35	1.1
51707.0	10000	41.6367	92.4551	74	QK	2.9	1	7.6	1	1.2	1	0.381	1	2.388	0	6.268	0	1787	46	1.1
51706.9	10000	41.6367	92.4542	61	QK	2.7	0	7.1	0	1.2	1	0.384	1	2.219	0	5.784	-1	1785	32	1.1
51706.8	10000	41.6367	92.4534	48	QK	2.9	1	7.0	0	1.2	1	0.411	1	2.420	0	5.896	-1	1782	41	1.1
51706.7	10000	41.6366	92.4526	35	QK	3.1	1	7.2	0	1.1	0	0.425	1	2.757	1	6.487	0	1755	41	1.1
51706.6	10000	41.6366	92.4517	22	QK	2.9	1	7.1	0	1.1	0	0.412	1	2.687	1	6.514	0	1752	44	1.1
51706.5	10000	41.6366	92.4509	9	QK	2.8	1	7.2	0	1.1	0	0.387	0	2.536	1	6.552	0	1754	51	1.0
51706.4	10000	41.6366	92.4501	-3	QK	2.7	0	6.7	-1	1.1	0	0.409	1	2.485	0	6.078	-1	1761	35	1.0
51706.3	10000	41.6366	92.4492	-16	QK	2.8	1	6.9	0	1.1	0	0.413	1	2.554	1	6.191	0	1769	34	1.0
51706.2	10000	41.6366	92.4484	-27	QK	2.7	0	7.2	0	1.1	0	0.367	0	2.358	0	6.422	0	1762	34	1.0
51706.1	10000	41.6365	92.4476	-39	QK	2.5	0	7.5	0	1.2	0	0.329	0	2.151	0	6.549	0	1758	50	1.0
51706.0	10000	41.6365	92.4467	-49	QK	2.2	-1	7.2	0	1.2	0	0.303	-1	1.872	-1	6.177	0	1740	48	1.0
51705.9	10000	41.6365	92.4459	-58	QK	2.1	-1	7.3	0	1.1	0	0.290	-1	1.849	-1	6.376	0	1707	38	1.0
51705.8	10000	41.6365	92.4451	-68	QK	2.0	-1	7.3	0	1.1	0	0.274	-1	1.805	-1	6.598	0	1680	50	1.0
51705.7	10000	41.6365	92.4442	-77	QK	2.1	-1	7.0	0	1.1	0	0.303	-1	1.881	-1	6.206	0	1650	34	1.0
51705.6	10000	41.6364	92.4434	-85	QK	2.0	-1	6.8	-1	1.2	0	0.289	-1	1.693	-1	5.861	-1	1626	46	1.0
51705.5	10000	41.6364	92.4426	-93	QK	2.1	-1	6.5	-1	1.1	0	0.327	0	1.868	-1	5.722	-1	1595	45	1.0
51705.4	10000	41.6364	92.4417	-100	QK	2.2	-1	6.2	-1	1.1	0	0.357	0	1.984	-1	5.553	-1	1583	34	1.0
51705.3	10000	41.6364	92.4409	-105	QK	2.3	-1	6.3	-1	1.1	0	0.359	0	2.045	0	5.703	-1	1584	47	1.0
51705.2	10000	41.6364	92.4400	-110	QK	2.4	0	5.9	-2	1.1	0	0.400	1	2.146	0	5.368	-2	1595	39	1.0
51705.1	10000	41.6363	92.4392	-115	QK	2.8	1	5.3	-3	1.1	0	0.529	2	2.479	0	4.686	-3	1595	45	1.0
51705.0	10000	41.6363	92.4384	-118	QK	2.7	0	5.4	-2	1.0	-1	0.497	2	2.618	1	5.269	-2	1576	42	1.0
51704.9	10000	41.6363	92.4375	-120	QK	2.8	1	5.8	-2	1.0	-1	0.483	2	2.872	1	5.943	-1	1573	41	1.0
51704.8	10000	41.6363	92.4367	-121	QK	3.1	1	6.1	-2	1.0	-1	0.503	2	3.160	2	6.284	0	1575	50	1.0
51704.7	10000	41.6363	92.4359	-122	QK	2.9	1	6.4	-1	1.0	-1	0.454	2	2.996	2	6.602	0	1594	35	1.0
51704.6	10000	41.6362	92.4350	-122	QK	3.0	1	6.4	-1	1.0	-1	0.462	2	2.833	1	6.135	0	1608	31	1.0
51704.5	10000	41.6362	92.4342	-121	QK	2.9	1	6.8	-1	1.1	0	0.430	1	2.655	1	6.174	0	1622	51	1.0
51704.4	10000	41.6362	92.4334	-120	QK	2.8	1	7.3	0	1.1	1	0.380	1	2.530	1	6.656	0	1654	35	1.0
51704.3	10000	41.6362	92.4325	-119	QK	2.9	1	7.7	0	1.2	1	0.370	1	2.418	1	6.543	0	1704	49	1.0
51704.2	10000	41.6362	92.4317	-117	QK	2.8	1	7.7	0	1.2	1	0.369	1	2.395	1	6.490	0	1722	34	1.0
51704.1	10000	41.6361	92.4309	-114	QK	2.6	1	7.9	0	1.2	1	0.328	0	2.103	0	6.415	0	1749	47	1.0
51704.0	10000	41.6361	92.4300	-111	QK	2.7	1	7.7	0	1.2	1	0.349	0	2.166	0	6.202	0	1740	47	1.0
51703.9	10000	41.6361	92.4292	-108	QK	2.8	1	7.6	0	1.2	1	0.372	0	2.383	0	6.408	0	1746	46	0.9
51703.8	10000	41.6361	92.4284	-107	QK	2.7	1	7.9	0	1.2	1	0.345	0	2.343	0	6.791	0	1750	36	0.9
51703.7	10000	41.6361	92.4275	-104	QK	2.7	1	7.7	0	1.2	1	0.347	0	2.251	0	6.492	0	1737	43	0.9
51703.6	10000	41.6361	92.4267	-100	QK	2.6	1	7.3	0	1.1	1	0.359	0	2.336	0	6.514	0	1705	40	0.9
51703.5	10000	41.6360	92.4259	-97	QK	2.7	1	7.4	0	1.1	1	0.362	0	2.376	0	6.562	0	1703	51	0.9
51703.4	10000	41.6360	92.4250	-94	QK	2.7	1	7.0	0	1.1	1	0.382	0	2.451	0	6.408	0	1687	50	0.9
51703.3	10000	41.6360	92.4242	-92	QK	2.7	1	6.8	-1	1.1	1	0.390	0	2.465	0	6.312	0	1696	36	0.9
51703.2	10000	41.6360	92.4234	-90	QK	2.6	1	7.1	0	1.1	1	0.359	0	2.326	0	6.480	0	1698	51	0.9
51703.1	10000	41.6360	92.4225	-87	QK	2.7	1	6.8	-1	1.1	1	0.393	0	2.443	0	6.215	0	1698	56	0.9
51703.0	10000	41.6359	92.4217	-85	QK	2.5	1	6.0	-1	1.1	1	0.356	0	2.308	0	6.475	0	1709	46	0.9
51702.9	10000	41.6359	92.4208	-83	QK	2.5	1	7.5	0	1.1	1	0.330	0	2.233	0	6.759	0	1735	54	0.9
51702.8	10000	41.6359	92.4200	-82	QK	2.4	1	7.6	0	1.1	1	0.313	-1	2.097	0	6.689	0	1736	47	0.9
51702.7	10000	41.6359	92.4192	-81	QK	2.3	1	8.0	0	1.1	1	0.292	-1	2.017	-1	6.919	0	1760	52	0.9
51702.6	10000	41.6359	92.4183	-80	QK	2.3	1	8.0	0	1.2	1	0.289	-1	2.005	-1	6.949	0	1763	43	0.9
51702.5	10000	41.6358	92.4175	-79	QK	2.2	0	8.0	0	1.2	1	0.283	-1	1.917	-1	6.774	0	1765	43	0.9
51702.4	10000	41.6358	92.4167	-79	QK	2.2	0	7.9	0	1.2	1	0.273	-1	1.868	-1	6.832	0	1755	51	0.9
51702.3	10000	41.6358	92.4158	-78	QK	2.4	-1	7.7	0	1.2	1	0.310	-1	2.116	-1	6.814	0	1760	37	0.9
51702.2	10000	41.6358	92.4150	-79	QK	2.4	0	7.5	0	1.2	0	0.324	0	2.093	0	6.456	0	1763	50	0.9

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51702.1	10000	41.6358	92.4142	-80	QK	2.6	0	7.2	0	1.2	1	0.359	0	2.121	0	5.913	-1	1780	40	0.9
51702.0	10000	41.6357	92.4133	-81	QK	2.7	0	6.7	-1	1.2	1	0.407	1	2.189	0	5.374	-2	1768	50	0.9
51701.9	10000	41.6357	92.4125	-82	QK	2.5	0	6.8	-1	1.3	1	0.375	0	2.015	-1	5.379	-2	1760	40	0.9
51701.8	10000	41.6357	92.4117	-84	QK	2.5	0	6.7	-1	1.2	1	0.370	0	2.069	0	5.586	-1	1742	39	0.9
51701.7	10000	41.6357	92.4108	-86	QK	2.6	0	6.7	-1	1.2	1	0.393	1	2.155	0	5.480	-1	1740	48	0.9
51701.6	10000	41.6357	92.4100	-88	QK	2.5	0	6.5	-1	1.2	1	0.392	1	2.099	0	5.353	-2	1710	45	0.9
51701.5	10000	41.6356	92.4091	-91	QK	2.6	0	6.1	-2	1.1	0	0.433	1	2.297	0	5.308	-2	1689	49	0.9
51701.4	10000	41.6356	92.4083	-93	QK	2.5	0	6.1	-2	1.1	0	0.419	1	2.326	0	5.545	-1	1683	46	0.9
51701.3	10000	41.6356	92.4075	-96	QK	2.7	0	6.6	-1	1.0	-1	0.402	1	2.549	1	6.335	0	1686	43	0.9
51701.2	10000	41.6356	92.4066	-100	QK	2.8	1	6.6	-1	1.0	-1	0.427	1	2.762	1	6.469	0	1684	44	0.9
51701.1	10000	41.6356	92.4058	-104	QK	2.9	1	6.6	-1	1.0	-1	0.450	1	2.812	1	6.251	0	1684	45	0.8
51701.0	10000	41.6356	92.4050	-107	QK	2.8	1	6.4	-1	1.1	0	0.441	1	2.623	1	5.944	-1	1682	43	0.8
51700.9	10000	41.6355	92.4041	-112	QK	3.0	1	6.6	-1	1.1	0	0.453	1	2.742	1	6.050	-1	1699	46	0.8
51700.8	10000	41.6355	92.4033	-117	QK	3.1	1	6.5	-1	1.1	0	0.470	2	2.823	1	6.006	-1	1701	41	0.8
51700.7	10000	41.6355	92.4025	-123	QK	3.0	1	6.5	-1	1.1	0	0.466	2	2.753	1	5.903	-1	1688	48	0.8
51700.6	10000	41.6355	92.4016	-128	QK	2.9	1	6.2	-1	1.1	0	0.473	2	2.735	1	5.787	-1	1650	51	0.8
51700.5	10000	41.6355	92.4008	-135	QK	2.7	0	5.9	-2	1.1	-1	0.456	1	2.553	1	5.597	-1	1615	47	0.8
51700.4	10000	41.6354	92.4000	-143	QK	2.6	0	5.9	-2	1.0	-1	0.441	1	2.595	1	5.881	-1	1596	45	0.8
51700.3	10000	41.6354	92.3991	-152	QK	2.7	0	6.0	-2	0.9	-2	0.456	1	2.919	1	6.408	0	1582	40	0.8
51700.2	10000	41.6354	92.3983	-161	QK	2.6	0	6.1	-2	0.9	-2	0.431	1	2.874	1	6.662	0	1565	56	0.8
51700.1	10000	41.6354	92.3975	-172	QK	2.4	0	6.3	-1	1.0	-1	0.383	0	2.509	1	6.559	0	1558	51	0.8
51700.0	10000	41.6354	92.3966	-181	QK	2.6	0	6.2	-1	0.9	-2	0.413	1	2.740	1	6.639	0	1551	50	0.8
51699.9	10000	41.6353	92.3958	-189	QK	2.6	0	6.7	-1	1.0	-1	0.396	1	2.682	1	6.774	0	1585	45	0.8
51699.8	10000	41.6353	92.3950	-192	QK	2.9	1	6.8	-1	1.0	-1	0.430	1	2.876	1	6.695	0	1629	56	0.8
51699.7	10000	41.6353	92.3941	-210	QK	2.9	1	6.6	-1	1.1	-1	0.447	1	2.797	1	6.256	0	1645	49	0.8
51699.6	10000	41.6353	92.3933	-229	QK	3.0	1	6.7	-1	1.1	0	0.444	1	2.771	1	6.240	0	1655	49	0.8
51699.5	10000	41.6353	92.3925	-243	QK	3.0	1	6.8	-1	1.1	0	0.443	1	2.780	1	6.271	0	1658	46	0.8
51699.4	10000	41.6353	92.3916	-257	QK	2.9	1	7.0	0	1.1	-1	0.423	1	2.802	1	6.621	0	1657	43	0.8
51699.3	10000	41.6352	92.3908	-270	QK	2.9	1	6.9	0	1.0	-1	0.417	1	2.739	1	6.573	0	1634	32	0.8
51699.2	10000	41.6352	92.3900	-282	QK	2.6	0	6.3	-1	1.0	-1	0.422	1	2.588	1	6.134	0	1607	31	0.8
51699.1	10000	41.6352	92.3891	-295	QK	2.6	0	6.1	-1	1.0	-1	0.417	1	2.596	1	6.225	0	1574	45	0.8
51699.0	10000	41.6352	92.3883	-307	QK	2.7	0	6.2	-1	1.0	-1	0.428	1	2.768	1	6.465	0	1550	41	0.8
51698.9	10000	41.6352	92.3875	-318	QK	2.6	0	6.0	-2	0.9	-1	0.438	1	2.780	1	6.352	0	1520	37	0.8
51698.8	10000	41.6351	92.3866	-329	QK	2.4	0	5.6	-2	0.9	-2	0.423	1	2.588	1	6.114	-1	1495	49	0.8
51698.7	10000	41.6351	92.3858	-341	QK	2.6	0	5.5	-2	0.9	-2	0.479	2	2.926	1	6.108	-1	1478	36	0.8
51698.6	10000	41.6351	92.3849	-351	QK	2.7	0	5.4	-2	0.9	-2	0.492	2	2.945	1	5.988	-1	1502	50	0.8
51698.5	10000	41.6351	92.3841	-361	QK	2.9	1	5.5	-2	0.9	-2	0.534	3	3.169	2	5.936	-1	1519	47	0.8
51698.4	10000	41.6351	92.3833	-370	QK	2.9	1	5.8	-2	1.0	-1	0.497	2	2.948	1	5.929	-1	1567	49	0.8
51698.3	10000	41.6350	92.3824	-379	QK	2.8	1	6.1	-2	1.0	-1	0.459	1	2.701	1	5.886	-1	1623	47	0.8
51698.2	10000	41.6350	92.3816	-387	QK	2.9	1	6.2	-1	1.0	-1	0.468	2	2.804	1	5.992	-1	1665	42	0.8
51698.1	10000	41.6350	92.3808	-394	QK	3.1	1	6.4	-1	1.1	0	0.492	2	2.943	1	5.983	-1	1704	47	0.8
51698.0	10000	41.6350	92.3799	-402	QK	3.1	1	6.6	-1	1.1	0	0.474	2	2.784	1	5.874	-1	1762	44	0.8
51697.9	10000	41.6350	92.3791	-409	QK	3.2	1	7.2	0	1.1	0	0.450	1	2.866	1	6.375	0	1802	37	0.9
51697.8	10000	41.6349	92.3783	-415	QK	3.1	1	7.3	0	1.1	0	0.423	1	2.829	1	6.694	0	1820	49	0.9
51697.7	10000	41.6349	92.3774	-420	QK	3.1	1	7.4	0	1.1	0	0.425	1	2.920	1	6.878	0	1801	46	0.9
51697.6	10000	41.6349	92.3766	-425	QK	3.2	1	7.3	0	1.1	0	0.434	1	3.028	2	6.968	1	1779	47	0.9
51697.5	10000	41.6349	92.3758	-428	QK	2.9	1	6.9	0	1.0	-1	0.414	1	2.692	1	6.502	0	1756	45	0.9
51697.4	10000	41.6349	92.3749	-430	QK	2.8	1	7.1	0	1.0	-1	0.396	1	2.685	1	6.781	0	1727	35	0.9
51697.3	10000	41.6348	92.3741	-433	QK	2.5	1	6.8	-1	1.0	-1	0.372	1	2.570	1	6.902	1	1662	42	0.9
51697.2	10000	41.6348	92.3733	-436	QK	2.5	1	6.3	-1	1.0	-1	0.396	1	2.558	1	6.463	0	1589	47	0.9
51697.1	10000	41.6348	92.3724	-441	QK	2.3	1	6.2	-1	1.0	-1	0.370	1	2.376	1	6.419	0	1526	47	0.9
51697.0	10000	41.6348	92.3716	-446	QK	2.2	-1	5.8	-2	0.9	-2	0.372	0	2.340	0	6.286	0	1468	44	0.9

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51696.9	10000	41.6348	92.3708	-450	QK	2.1	-1	5.6	-2	0.9	-2	0.374	0	2.446	0	6.533	0	1441	45	0.9
51696.8	10000	41.6347	92.3699	-455	QK	2.4	0	5.7	-2	0.8	-3	0.416	1	2.917	1	7.015	1	1431	44	0.9
51696.7	10000	41.6347	92.3691	-461	QK	2.3	0	5.4	-2	0.8	-3	0.426	1	2.753	1	6.461	0	1440	35	0.9
51696.6	10000	41.6347	92.3682	-467	QK	2.2	-1	5.7	-2	0.9	-2	0.396	1	2.475	0	6.254	0	1480	40	0.9
51696.5	10000	41.6347	92.3674	-473	QK	2.2	-1	6.3	-1	1.0	-1	0.351	0	2.259	0	6.431	0	1538	56	0.9
51696.4	10000	41.6347	92.3666	-479	QK	2.3	0	6.5	-1	1.0	-1	0.356	0	2.286	0	6.414	0	1604	35	0.9
51696.3	10000	41.6347	92.3657	-485	QK	2.4	0	6.8	-1	1.1	0	0.356	0	2.208	0	6.211	0	1681	39	0.9
51696.2	10000	41.6346	92.3649	-491	QK	2.4	0	6.8	-1	1.2	1	0.356	0	2.025	-1	5.685	-1	1723	42	0.9
51696.1	10000	41.6346	92.3641	-498	QK	2.3	-1	7.0	0	1.2	1	0.326	-1	1.844	-1	5.658	-1	1745	36	0.9
51696.0	10000	41.6346	92.3632	-504	QK	2.3	0	7.2	0	1.2	1	0.322	-1	1.859	-1	5.768	-1	1745	36	0.9
51695.9	10000	41.6346	92.3624	-511	QK	2.4	0	7.2	0	1.2	1	0.342	0	2.015	-1	5.886	-1	1719	47	0.9
51695.8	10000	41.6346	92.3616	-518	QK	2.3	0	6.8	-1	1.2	0	0.335	0	1.950	-1	5.814	-1	1685	47	0.9
51695.7	10000	41.6345	92.3607	-526	QK	2.3	-1	6.5	-1	1.1	0	0.348	0	1.985	-1	5.704	-1	1639	28	0.9
51695.6	10000	41.6345	92.3599	-533	QK	2.3	-1	6.7	-1	1.1	0	0.341	0	2.086	0	6.113	-1	1592	28	0.9
51695.5	10000	41.6345	92.3591	-541	QK	2.0	-1	6.5	-1	1.0	-1	0.315	-1	2.013	-1	6.397	0	1540	42	1.0
51695.4	10000	41.6345	92.3582	-549	QK	2.0	-1	6.5	-1	1.0	-1	0.308	-1	2.041	0	6.630	0	1508	46	1.0
51695.3	10000	41.6345	92.3574	-557	QK	2.0	-1	6.5	-1	0.9	-1	0.306	-1	2.100	0	6.855	1	1477	43	1.0
51695.2	10000	41.6344	92.3566	-565	QK	1.8	-2	6.0	-2	0.9	-2	0.300	-1	1.959	-1	6.539	0	1451	36	1.0
51695.1	10000	41.6344	92.3557	-573	QK	1.8	-2	5.8	-2	0.9	-2	0.308	-1	2.080	0	6.763	0	1420	33	1.0
51695.0	10000	41.6344	92.3549	-582	QK	1.8	-1	5.5	-2	0.8	-3	0.332	0	2.220	0	6.686	0	1398	49	1.0
51694.9	10000	41.6344	92.3540	-590	QK	1.9	-1	5.2	-3	0.8	-3	0.373	0	2.475	0	6.540	0	1383	40	1.0
51694.8	10000	41.6344	92.3532	-598	QK	2.1	-1	5.1	-3	0.8	-3	0.415	1	2.756	1	6.640	0	1379	37	1.0
51694.7	10000	41.6343	92.3524	-606	QK	2.0	-1	4.7	-3	0.8	-3	0.429	1	2.640	1	6.156	0	1378	42	1.0
51694.6	10000	41.6343	92.3515	-613	QK	2.1	-1	4.6	-4	0.8	-3	0.450	1	2.561	1	5.697	-1	1401	39	1.0
51694.5	10000	41.6343	92.3507	-622	QK	2.3	-1	4.8	-3	0.8	-3	0.470	2	2.771	1	5.900	-1	1416	43	1.0
51694.4	10000	41.6343	92.3499	-629	QK	2.3	0	5.1	-3	0.9	-2	0.460	2	2.754	1	5.991	-1	1442	34	1.0
51694.3	10000	41.6343	92.3490	-637	QK	2.1	-1	5.4	-2	0.9	-2	0.383	0	2.268	0	5.927	-1	1480	52	1.0
51694.2	10000	41.6342	92.3482	-645	QK	1.9	-1	5.6	-2	1.0	-1	0.337	-1	1.981	-1	5.881	-1	1501	36	1.0
51694.1	10000	41.6342	92.3474	-652	QK	1.9	-1	6.1	-2	1.0	-1	0.308	-1	1.848	-1	6.000	-1	1542	27	1.0
51694.0	10000	41.6342	92.3465	-659	QK	2.1	-1	6.7	-1	1.1	0	0.307	-1	1.933	-1	6.289	0	1571	51	1.0
51693.9	10000	41.6342	92.3457	-666	QK	2.0	-1	7.2	0	1.1	1	0.273	-1	1.876	-1	6.859	1	1597	59	1.0
51693.8	10000	41.6342	92.3449	-673	QK	1.9	-1	7.4	0	1.1	1	0.257	-1	1.743	-1	6.782	0	1615	37	1.0
51693.7	10000	41.6341	92.3440	-680	QK	1.9	-1	7.2	0	1.1	1	0.261	-1	1.795	-1	6.885	1	1603	40	1.0
51693.6	10000	41.6341	92.3432	-685	QK	2.0	-1	7.1	0	1.1	1	0.286	-1	1.919	-1	6.706	0	1590	48	1.0
51693.5	10000	41.6341	92.3424	-692	QK	2.1	-1	7.2	0	1.1	1	0.292	-1	1.947	-1	6.671	0	1590	38	1.1
51693.4	10000	41.6341	92.3415	-698	QK	2.1	-1	7.2	0	1.1	1	0.287	-1	1.946	-1	6.773	0	1591	42	1.1
51693.3	10000	41.6341	92.3407	-704	QK	2.2	-1	7.3	0	1.1	1	0.295	-1	2.006	-1	6.801	0	1620	49	1.1
51693.2	10000	41.6340	92.3399	-709	QK	2.1	-1	6.8	-1	1.1	1	0.315	-1	1.967	-1	6.252	0	1622	36	1.1
51693.1	10000	41.6340	92.3390	-714	QK	2.4	0	6.8	-1	1.1	1	0.352	0	2.200	0	6.254	0	1640	26	1.1
51693.0	10000	41.6340	92.3382	-718	QK	2.4	0	7.1	0	1.1	1	0.341	0	2.140	0	6.279	0	1684	45	1.1
51692.9	10000	41.6340	92.3374	-723	QK	2.3	0	7.4	0	1.2	1	0.313	-1	2.016	-1	6.447	0	1712	42	1.1
51692.8	10000	41.6340	92.3365	-727	QK	2.3	-1	7.7	1	1.2	1	0.295	-1	1.951	-1	6.617	0	1742	41	1.1
51692.7	10000	41.6340	92.3356	-731	QK	2.2	-1	7.6	1	1.2	1	0.292	-1	1.940	-1	6.645	0	1750	41	1.1
51692.6	10000	41.6339	92.3348	-735	QK	2.1	-1	7.3	0	1.2	1	0.281	-1	1.786	-1	6.361	0	1737	41	1.1
51692.5	10000	41.6339	92.3339	-738	QK	2.2	-1	7.4	0	1.1	1	0.291	-1	1.878	-1	6.457	0	1737	40	1.1
51692.4	10000	41.6339	92.3330	-741	QK	2.0	-1	7.4	0	1.1	1	0.275	-1	1.811	-1	6.577	0	1723	47	1.1
51692.3	10000	41.6339	92.3322	-744	QK	2.0	-1	7.2	0	1.2	1	0.283	-1	1.751	-1	6.192	0	1715	42	1.1
51692.2	10000	41.6339	92.3313	-746	QK	2.3	-1	6.9	0	1.1	1	0.330	0	2.041	0	6.188	0	1701	46	1.1
51692.1	10000	41.6339	92.3304	-748	QK	2.4	-1	6.4	-1	1.1	1	0.368	0	2.102	0	5.708	-1	1682	49	1.1
51692.0	10000	41.6339	92.3295	-750	QK	2.6	-1	6.2	-1	1.2	1	0.425	1	2.292	0	5.396	-2	1674	42	1.1
51691.9	10000	41.6339	92.3287	-752	QK	2.7	0	6.1	-1	1.1	1	0.446	1	2.416	0	5.423	-2	1682	38	1.1
51691.8	10000	41.6339	92.3278	-753	QK	2.8	1	6.3	-1	1.1	0	0.441	1	2.485	0	5.638	-1	1670	33	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51691.7	10000	41.6339	92.3269	-754	QK	2.7	0	6.4	-1	1.1	0	0.421	1	2.409	0	5.726	-1	1661	44	1.1
51691.6	10000	41.6339	92.3260	-755	QK	2.8	1	6.2	-1	1.1	0	0.450	1	2.589	0	5.755	-1	1643	50	1.1
51691.5	10000	41.6339	92.3252	-756	QK	2.6	0	6.1	-2	1.1	-1	0.424	1	2.444	0	5.763	-1	1632	46	1.1
51691.4	10000	41.6339	92.3243	-756	QK	2.6	0	6.2	-1	1.0	-1	0.421	1	2.515	1	5.980	-1	1621	36	1.1
51691.3	10000	41.6339	92.3234	-756	QK	2.4	0	6.3	-1	1.0	-1	0.385	0	2.412	0	6.264	0	1608	57	1.1
51691.2	10000	41.6339	92.3226	-756	QK	2.3	0	6.5	-1	1.0	-1	0.360	0	2.245	0	6.243	0	1602	40	1.1
51691.1	10000	41.6339	92.3217	-757	QK	2.3	0	6.5	-1	1.1	0	0.351	0	2.127	0	6.053	-1	1611	40	1.1
51691.0	10000	41.6339	92.3208	-757	QK	2.2	-1	6.8	-1	1.1	0	0.323	0	2.042	0	6.315	0	1622	56	1.1
51690.9	10000	41.6339	92.3199	-757	QK	2.1	-1	7.2	0	1.1	0	0.297	-1	1.953	-1	6.577	0	1611	44	1.1
51690.8	10000	41.6339	92.3191	-757	QK	2.1	-1	7.3	0	1.1	0	0.290	-1	1.912	-1	6.596	0	1615	59	1.2
51690.7	10000	41.6339	92.3182	-757	QK	1.9	-1	7.3	0	1.1	0	0.265	-1	1.733	-1	6.547	0	1622	30	1.2
51690.6	10000	41.6339	92.3173	-757	QK	1.9	-1	7.0	0	1.1	0	0.272	-1	1.704	-1	6.268	0	1606	48	1.2
51690.5	10000	41.6339	92.3165	-757	QK	1.8	-2	6.9	0	1.1	0	0.256	-1	1.654	-1	6.464	0	1561	40	1.2
51690.4	10000	41.6339	92.3156	-757	QK	1.6	-2	6.7	-1	1.1	0	0.244	-1	1.534	-2	6.294	0	1523	36	1.2
51690.3	10000	41.6338	92.3147	-757	QK	1.8	-1	6.3	-1	1.1	-1	0.289	-1	1.728	-1	5.983	-1	1491	36	1.2
51690.2	10000	41.6338	92.3138	-757	QK	1.9	-1	6.0	-2	1.0	-1	0.316	0	1.856	-1	5.881	-1	1474	43	1.2
51690.1	10000	41.6338	92.3130	-757	QK	1.8	-1	6.1	-2	1.0	-1	0.297	-1	1.776	-1	5.977	-1	1451	54	1.2
51690.0	10000	41.6338	92.3121	-756	QK	1.9	-1	5.8	-2	1.0	-1	0.327	0	1.894	-1	5.800	-1	1430	42	1.2
51689.9	10000	41.6338	92.3112	-756	QK	2.0	-1	5.9	-2	1.0	-1	0.333	0	1.963	-1	5.888	-1	1443	46	1.2
51689.8	10000	41.6338	92.3103	-756	QK	2.2	-1	6.0	-2	1.0	-1	0.369	0	2.168	0	5.876	-1	1478	35	1.2
51689.7	10000	41.6338	92.3095	-756	QK	2.1	-1	5.9	-2	1.0	-1	0.360	0	2.104	0	5.845	-1	1497	35	1.2
51689.6	10000	41.6338	92.3086	-756	QK	2.0	-1	6.2	-1	1.1	0	0.317	0	1.855	-1	5.854	-1	1530	44	1.2
51689.5	10000	41.6338	92.3077	-756	QK	1.8	-1	6.1	-2	1.1	0	0.301	-1	1.675	-1	5.560	-1	1565	32	1.2
51689.4	10000	41.6338	92.3068	-756	QK	2.0	-1	6.3	-1	1.1	0	0.314	-1	1.746	-1	5.565	-1	1600	50	1.2
51689.3	10000	41.6338	92.3060	-757	QK	2.0	-1	6.6	-1	1.2	0	0.298	-1	1.682	-1	5.649	-1	1632	34	1.2
51689.2	10000	41.6338	92.3051	-757	QK	2.0	-1	6.7	-1	1.2	0	0.292	-1	1.605	-1	5.505	-1	1651	33	1.2
51689.1	10000	41.6338	92.3042	-757	QK	1.9	-1	6.6	-1	1.2	0	0.284	-1	1.533	-2	5.406	-2	1668	32	1.2
51689.0	10000	41.6338	92.3034	-757	QK	1.9	-1	6.5	-1	1.2	0	0.290	-1	1.538	-2	5.299	-2	1683	42	1.2
51688.9	10000	41.6338	92.3025	-758	QK	2.1	-1	6.1	-2	1.2	0	0.351	0	1.750	-1	4.986	-2	1685	53	1.2
51688.8	10000	41.6338	92.3016	-758	QK	2.3	0	6.4	-1	1.2	0	0.367	0	1.913	-1	5.211	-2	1696	38	1.2
51688.7	10000	41.6338	92.3007	-758	QK	2.6	0	5.9	-2	1.2	1	0.442	1	2.169	0	4.911	-2	1707	47	1.2
51688.6	10000	41.6338	92.2999	-759	QK	2.5	0	6.3	-1	1.2	1	0.400	1	2.114	0	5.280	-2	1709	44	1.2
51688.5	10000	41.6338	92.2990	-760	QK	2.3	0	6.0	-2	1.2	1	0.386	0	1.994	-1	5.164	-2	1699	41	1.2
51688.4	10000	41.6338	92.2981	-760	QK	2.4	0	6.2	-1	1.2	1	0.381	0	1.991	-1	5.227	-2	1691	48	1.2
51688.3	10000	41.6337	92.2973	-761	QK	2.6	0	6.3	-1	1.2	1	0.411	1	2.224	0	5.414	-2	1691	41	1.2
51688.2	10000	41.6337	92.2964	-763	QK	2.3	0	6.5	-1	1.2	0	0.358	0	2.004	-1	5.598	-1	1685	38	1.2
51688.1	10000	41.6337	92.2955	-764	QK	2.2	-1	6.4	-1	1.2	0	0.348	0	1.903	-1	5.475	-1	1657	51	1.2
51688.0	10000	41.6337	92.2946	-765	QK	2.1	-1	6.5	-1	1.2	0	0.329	0	1.812	-1	5.516	-1	1630	52	1.2
51687.9	10000	41.6337	92.2938	-766	QK	2.4	0	6.1	-1	1.1	0	0.382	1	2.073	0	5.421	-2	1613	35	1.2
51687.8	10000	41.6337	92.2929	-766	QK	2.6	0	6.2	-1	1.1	1	0.420	1	2.341	0	5.576	-1	1609	44	1.2
51687.7	10000	41.6337	92.2920	-765	QK	2.6	0	6.1	-2	1.1	1	0.422	1	2.403	0	5.695	-1	1590	38	1.2
51687.6	10000	41.6337	92.2911	-762	QK	2.5	0	6.0	-2	1.1	1	0.422	1	2.386	0	5.650	-1	1581	35	1.2
51687.5	10000	41.6337	92.2903	-759	QK	2.7	0	5.9	-2	1.0	1	0.455	1	2.642	1	5.803	-1	1577	34	1.2
51687.4	10000	41.6337	92.2894	-759	QK	2.7	0	6.0	-2	1.0	1	0.442	1	2.731	1	6.185	0	1582	34	1.2
51687.3	10000	41.6337	92.2885	-758	QK	2.5	0	6.4	-1	1.0	0	0.391	1	2.476	0	6.340	0	1593	38	1.2
51687.2	10000	41.6337	92.2877	-756	QAL	2.4	0	6.2	0	1.0	0	0.394	1	2.448	0	6.220	0	1585	48	1.2
51687.1	10000	41.6337	92.2868	-755	QAL	2.3	0	6.2	0	1.0	0	0.374	1	2.389	0	6.390	0	1578	44	1.2
51687.0	10000	41.6337	92.2859	-755	QAL	2.4	0	6.2	0	1.0	0	0.383	1	2.390	0	6.241	0	1591	44	1.2
51686.9	10000	41.6337	92.2850	-754	QAL	2.3	0	6.3	0	1.0	0	0.363	1	2.333	0	6.420	0	1592	51	1.2
51686.8	10000	41.6337	92.2842	-754	QAL	2.3	0	6.4	0	1.0	0	0.356	1	2.214	0	6.215	0	1593	61	1.2
51686.7	10000	41.6337	92.2833	-753	QAL	2.2	0	6.3	0	1.1	0	0.358	1	2.037	0	5.692	-1	1609	41	1.2
51686.6	10000	41.6337	92.2824	-752	QAL	2.6	0	5.9	-1	1.1	0	0.444	1	2.364	0	5.327	-1	1627	57	1.2

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51686.5	10000	41.6336	92.2815	-751	QAL	2.5	0	5.9	-1	1.1	0	0.431	1	2.211	0	5.125	-1	1650	43	1.2
51686.4	10000	41.6336	92.2807	-750	QAL	2.7	0	6.1	0	1.1	0	0.444	1	2.384	0	5.373	-1	1671	52	1.2
51686.3	10000	41.6336	92.2798	-748	QAL	2.8	1	5.9	-1	1.1	0	0.480	1	2.528	0	5.270	-1	1666	42	1.2
51686.2	10000	41.6336	92.2789	-746	QAL	2.8	1	6.1	0	1.1	0	0.454	1	2.436	0	5.371	-1	1688	43	1.2
51686.1	10000	41.6336	92.2780	-745	QAL	2.9	1	6.4	0	1.1	0	0.455	1	2.618	1	5.753	0	1711	53	1.2
51686.0	10000	41.6336	92.2772	-742	QAL	3.2	1	6.5	0	1.1	0	0.491	1	3.041	1	6.198	0	1706	41	1.2
51685.9	10000	41.6336	92.2763	-740	QAL	3.0	1	6.9	0	1.0	-1	0.438	1	3.010	1	6.871	1	1681	48	1.2
51685.8	10000	41.6336	92.2754	-738	QAL	3.1	1	7.2	1	1.0	-1	0.435	1	3.243	2	7.449	2	1678	39	1.1
51685.7	10000	41.6336	92.2746	-736	QAL	2.9	1	7.3	1	1.0	0	0.394	0	2.781	1	7.064	1	1675	47	1.1
51685.6	10000	41.6336	92.2737	-734	QAL	2.6	0	7.5	1	1.1	0	0.343	0	2.384	0	6.941	1	1688	48	1.1
51685.5	10000	41.6336	92.2728	-731	QAL	2.7	1	7.4	1	1.1	0	0.369	0	2.520	0	6.835	1	1672	48	1.1
51685.4	10000	41.6336	92.2719	-729	QAL	2.6	0	7.1	1	1.1	0	0.362	0	2.283	0	6.312	0	1650	52	1.1
51685.3	10000	41.6336	92.2711	-726	QAL	2.2	0	7.0	0	1.1	0	0.312	-1	1.949	-1	6.236	0	1632	34	1.1
51685.2	10000	41.6336	92.2702	-723	QAL	2.0	-1	6.8	0	1.1	0	0.289	-1	1.710	-1	5.913	0	1620	40	1.1
51685.1	10000	41.6336	92.2693	-720	QAL	1.8	-1	6.5	0	1.2	0	0.275	-1	1.509	-1	5.496	-1	1590	54	1.1
51685.0	10000	41.6336	92.2684	-717	QAL	1.6	-2	6.5	0	1.1	0	0.248	-2	1.464	-2	5.908	0	1570	35	1.1
51684.9	10000	41.6336	92.2676	-713	QAL	1.8	-1	6.5	0	1.1	0	0.271	-1	1.591	-1	5.863	0	1565	48	1.1
51684.8	10000	41.6336	92.2667	-709	QAL	1.6	-1	6.5	0	1.1	0	0.253	-1	1.565	-1	6.187	0	1547	46	1.1
51684.7	10000	41.6336	92.2658	-705	QAL	1.8	-1	6.7	0	1.1	0	0.268	-1	1.683	-1	6.282	0	1539	40	1.1
51684.6	10000	41.6336	92.2650	-700	QAL	2.0	-1	6.6	0	1.1	0	0.295	-1	1.828	-1	6.206	0	1552	41	1.1
51684.5	10000	41.6336	92.2641	-695	QAL	2.2	0	6.8	0	1.1	0	0.320	-1	2.042	0	6.389	0	1548	54	1.1
51684.4	10000	41.6335	92.2632	-689	QAL	2.4	0	6.6	0	1.0	0	0.359	0	2.299	0	6.409	0	1549	38	1.1
51684.3	10000	41.6335	92.2623	-683	QAL	2.7	0	6.2	0	1.0	0	0.432	0	2.638	1	6.106	0	1524	43	1.1
51684.2	10000	41.6335	92.2615	-675	QK	2.3	0	6.3	-1	1.0	-1	0.374	0	2.456	0	6.563	0	1489	44	1.1
51684.1	10000	41.6335	92.2606	-667	QK	2.3	0	5.7	-2	1.0	-1	0.414	1	2.429	0	5.873	-1	1486	39	1.1
51684.0	10000	41.6335	92.2597	-659	QK	2.4	0	5.7	-2	0.9	-2	0.423	1	2.695	1	6.372	0	1487	46	1.1
51683.9	10000	41.6335	92.2589	-650	QK	2.4	0	5.7	-2	0.9	-2	0.414	1	2.643	1	6.385	0	1471	47	1.1
51683.8	10000	41.6335	92.2580	-640	QK	2.1	-1	5.8	-2	0.9	-2	0.358	1	2.362	1	6.604	0	1470	44	1.1
51683.7	10000	41.6335	92.2571	-630	QK	1.9	-1	5.9	-2	0.9	-2	0.322	1	2.100	0	6.520	0	1477	52	1.1
51683.6	10000	41.6335	92.2562	-619	QK	1.8	-1	5.8	-2	1.0	-1	0.311	-1	1.813	-1	5.839	-1	1506	44	1.1
51683.5	10000	41.6335	92.2554	-608	QK	2.0	-1	5.9	-2	1.0	-1	0.333	-1	1.966	-1	5.911	-1	1526	47	1.1
51683.4	10000	41.6335	92.2545	-596	QK	2.0	-1	6.4	-1	1.0	-1	0.305	-1	1.897	-1	6.215	0	1556	52	1.1
51683.3	10000	41.6335	92.2536	-584	QK	2.0	-1	6.3	-1	1.1	0	0.321	-1	1.913	-1	5.956	-1	1590	46	1.1
51683.2	10000	41.6335	92.2527	-571	QK	2.1	-1	6.4	-1	1.1	0	0.328	-1	1.850	-1	5.645	-1	1634	55	1.1
51683.1	10000	41.6335	92.2519	-557	QK	2.2	-1	6.5	-1	1.2	0	0.331	-1	1.867	-1	5.635	-1	1674	38	1.1
51683.0	10000	41.6335	92.2510	-543	QK	2.5	0	6.7	-1	1.2	0	0.372	0	2.117	0	5.694	-1	1718	35	1.1
51682.9	10000	41.6335	92.2501	-528	QK	2.7	0	6.7	-1	1.1	0	0.401	0	2.366	0	5.906	-1	1740	50	1.1
51682.3	10000	41.6335	92.2493	-511	QK	2.6	0	6.8	-1	1.2	0	0.383	0	2.186	0	5.704	-1	1777	44	1.1
51682.7	10000	41.6334	92.2484	-494	QK	2.8	1	6.8	-1	1.2	0	0.406	0	2.345	0	5.776	-1	1796	42	1.1
51682.6	10000	41.6334	92.2475	-479	QK	2.5	0	7.0	0	1.2	0	0.359	0	2.091	0	5.820	-1	1811	52	1.1
51682.5	10000	41.6334	92.2466	-465	QK	2.4	0	7.2	0	1.2	0	0.335	-1	1.994	-1	5.957	-1	1807	37	1.1
51682.4	10000	41.6334	92.2458	-448	QK	2.6	0	7.0	0	1.2	0	0.364	0	2.064	0	5.664	-1	1825	48	1.1
51682.3	10000	41.6334	92.2449	-431	QK	2.4	0	7.3	0	1.2	0	0.332	-1	1.980	-1	5.972	-1	1819	36	1.1
51682.2	10000	41.6334	92.2440	-413	QK	2.4	0	7.6	1	1.2	0	0.311	-1	1.952	-1	6.280	0	1826	47	1.1
51682.1	10000	41.6334	92.2431	-395	QK	2.7	0	7.4	0	1.2	0	0.368	0	2.289	0	6.225	0	1822	49	1.1
51682.0	10000	41.6334	92.2423	-377	QK	2.7	0	7.6	1	1.2	0	0.357	0	2.277	0	6.373	0	1816	36	1.1
51681.9	10000	41.6334	92.2414	-359	QK	2.7	0	7.4	0	1.2	0	0.373	0	2.197	0	5.899	-1	1818	40	1.1
51681.8	10000	41.6334	92.2405	-341	QK	2.8	1	7.6	1	1.3	0	0.368	0	2.225	0	6.048	-1	1826	50	1.1
51681.7	10000	41.6334	92.2397	-322	QK	2.9	1	7.6	1	1.2	0	0.383	0	2.379	0	6.211	0	1803	44	1.1
51681.6	10000	41.6334	92.2388	-303	QK	2.9	1	7.3	1	1.2	0	0.400	0	2.418	0	6.044	-1	1792	46	1.1
51681.5	10000	41.6334	92.2379	-284	QK	2.8	1	7.3	0	1.2	0	0.384	0	2.244	0	5.858	-1	1765	41	1.1
51681.4	10000	41.6334	92.2370	-262	QK	2.5	0	7.5	0	1.2	1	0.341	0	2.042	0	5.991	-1	1738	44	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51681.3	10000	41.6334	92.2362	-245	QK	2.4	0	7.0	0	1.2	1	0.346	0	2.045	0	5.912	-1	1712	37	1.1
51681.2	10000	41.6334	92.2353	-235	QK	2.5	0	7.2	0	1.1	0	0.347	0	2.285	0	6.581	0	1681	39	1.1
51681.1	10000	41.6334	92.2344	-221	QK	2.7	0	7.1	0	1.0	-1	0.377	0	2.581	1	6.854	1	1647	44	1.1
51681.0	10000	41.6334	92.2336	-206	QK	2.3	0	7.2	0	1.0	-1	0.322	0	2.217	0	6.882	1	1643	50	1.1
51680.9	10000	41.6334	92.2327	-192	QK	2.2	-1	7.3	0	1.0	-1	0.301	-1	2.102	0	6.977	1	1636	42	1.1
51680.8	10000	41.6333	92.2318	-178	QK	2.3	-1	7.7	1	1.1	0	0.296	-1	2.099	0	7.100	1	1654	31	1.1
51680.7	10000	41.6333	92.2309	-167	QK	2.3	0	7.6	1	1.1	0	0.304	-1	2.124	0	6.982	1	1678	36	1.1
51680.6	10000	41.6333	92.2301	-157	QK	2.1	-1	7.7	1	1.2	0	0.274	-1	1.799	-1	6.555	0	1685	39	1.1
51680.5	10000	41.6333	92.2292	-148	QK	2.0	-1	7.3	0	1.2	0	0.279	-1	1.746	-1	6.262	0	1666	53	1.1
51680.4	10000	41.6333	92.2283	-140	QK	1.8	-1	6.9	0	1.1	0	0.266	-1	1.615	-1	6.077	-1	1649	43	1.1
51680.3	10000	41.6333	92.2274	-134	QK	2.0	-1	6.7	-1	1.1	0	0.301	-1	1.818	-1	6.035	-1	1608	43	1.1
51680.2	10000	41.6333	92.2266	-128	QK	2.0	-1	6.5	-1	1.1	0	0.316	0	1.887	-1	5.978	-1	1573	48	1.1
51680.1	10000	41.6333	92.2257	-124	QK	2.1	-1	6.1	-2	1.0	-1	0.345	0	2.077	0	6.021	-1	1530	30	1.1
51680.0	10000	41.6333	92.2248	-121	QK	2.1	-1	6.0	-2	1.0	-1	0.345	0	2.126	0	6.159	0	1480	35	1.1
51679.9	10000	41.6333	92.2240	-118	QK	2.2	-1	6.1	-2	0.9	-2	0.367	0	2.469	0	6.722	0	1459	44	1.1
51679.8	10000	41.6333	92.2231	-116	QK	2.2	-1	6.0	-2	0.9	-2	0.370	0	2.443	0	6.597	0	1465	42	1.1
51679.7	10000	41.6333	92.2222	-116	QK	2.4	0	6.1	-2	1.0	-1	0.398	1	2.507	1	6.293	0	1486	43	1.1
51679.6	10000	41.6333	92.2213	-116	QK	2.5	0	6.1	-2	1.0	-1	0.405	1	2.563	1	6.321	0	1530	50	1.1
51679.5	10000	41.6333	92.2205	-116	QK	2.5	0	6.2	-1	1.0	-1	0.399	1	2.425	0	6.076	-1	1590	48	1.1
51679.4	10000	41.6333	92.2196	-116	QK	2.5	0	6.3	-1	1.1	0	0.401	1	2.280	0	5.679	-1	1650	40	1.1
51679.3	10000	41.6333	92.2187	-117	QK	2.4	0	6.4	-1	1.1	0	0.380	0	2.129	0	5.605	-1	1700	41	1.1
51679.2	10000	41.6333	92.2178	-117	QK	2.5	0	6.8	-1	1.2	0	0.369	0	2.157	0	5.839	-1	1741	38	1.1
51679.1	10000	41.6333	92.2170	-119	QK	2.4	0	7.3	0	1.2	1	0.323	0	1.962	-1	6.071	-1	1771	41	1.1
51679.0	10000	41.6332	92.2161	-120	QK	2.4	0	7.3	0	1.2	1	0.328	0	2.035	0	6.211	0	1795	44	1.1
51678.9	10000	41.6332	92.2152	-121	QK	2.4	0	7.4	0	1.3	1	0.329	0	1.950	-1	5.920	-1	1813	49	1.1
51678.8	10000	41.6332	92.2144	-122	QK	2.6	0	7.5	0	1.2	1	0.340	0	2.047	0	6.017	-1	1799	44	1.1
51678.7	10000	41.6332	92.2135	-123	QK	2.4	0	7.4	0	1.2	1	0.323	0	2.051	0	6.359	0	1783	54	1.1
51678.6	10000	41.6332	92.2126	-123	QK	2.5	0	7.2	0	1.2	1	0.351	0	2.194	0	6.247	0	1775	52	1.1
51678.5	10000	41.6332	92.2117	-124	QK	2.5	0	7.0	0	1.2	1	0.359	0	2.109	0	5.878	-1	1761	47	1.1
51678.4	10000	41.6332	92.2109	-125	QK	2.7	0	6.7	-1	1.1	0	0.408	0	2.420	0	5.936	-1	1751	41	1.1
51678.3	10000	41.6332	92.2100	-125	QK	2.5	0	7.0	0	1.2	1	0.355	0	2.084	0	5.877	-1	1756	38	1.1
51678.2	10000	41.6332	92.2091	-125	QK	2.2	-1	7.6	1	1.2	1	0.295	-1	1.920	-1	6.499	0	1756	43	1.1
51678.1	10000	41.6332	92.2082	-124	QK	2.1	-1	7.9	1	1.2	1	0.270	-1	1.787	-1	6.609	0	1788	50	1.1
51678.0	10000	41.6332	92.2074	-124	QK	2.1	-1	8.0	1	1.2	1	0.261	-1	1.689	-1	6.461	0	1796	54	1.1
51677.9	10000	41.6332	92.2065	-123	QK	2.3	-1	8.1	1	1.3	1	0.278	-1	1.779	-1	6.389	0	1802	44	1.1
51677.8	10000	41.6332	92.2056	-123	QK	2.2	-1	8.1	1	1.3	1	0.275	-1	1.749	-1	6.373	0	1820	44	1.1
51677.7	10000	41.6332	92.2048	-122	QK	2.4	0	8.1	1	1.3	2	0.294	-1	1.773	-1	6.020	-1	1836	45	1.1
51677.6	10000	41.6332	92.2039	-122	QK	2.4	0	8.0	1	1.3	2	0.300	-1	1.798	-1	5.994	-1	1828	52	1.1
51677.5	10000	41.6332	92.2030	-121	QK	2.6	0	7.5	0	1.3	1	0.354	0	2.017	-1	5.700	-1	1805	40	1.1
51677.4	10000	41.6331	92.2021	-120	QK	2.7	0	6.9	-1	1.2	1	0.389	1	2.138	0	5.492	-1	1751	38	1.1
51677.3	10000	41.6331	92.2013	-120	QK	2.7	0	6.7	-1	1.2	1	0.409	1	2.231	0	5.462	-1	1724	47	1.1
51677.2	10000	41.6331	92.2004	-120	QK	2.7	0	6.7	-1	1.2	1	0.396	1	2.217	0	5.594	-1	1703	47	1.1
51677.1	10000	41.6331	92.1995	-119	QK	2.6	0	6.7	-1	1.2	1	0.385	0	2.204	0	5.725	-1	1682	36	1.1
51677.0	10000	41.6331	92.1987	-119	QK	2.3	0	6.7	-1	1.1	0	0.339	0	2.056	0	6.063	-1	1647	56	1.1
51676.9	10000	41.6331	92.1978	-119	QK	2.3	0	6.5	-1	1.0	-1	0.356	0	2.213	0	6.216	0	1620	36	1.1
51676.8	10000	41.6331	92.1970	-119	QK	2.2	-1	6.8	-1	1.1	0	0.317	0	2.034	0	6.414	0	1612	42	1.1
51676.7	10000	41.6331	92.1961	-119	QK	2.0	-1	6.8	-1	1.1	-1	0.290	-1	1.884	-1	6.506	0	1602	53	1.1
51676.6	10000	41.6331	92.1952	-118	QK	1.9	-1	7.0	0	1.0	-1	0.274	-1	1.959	-1	7.138	1	1579	41	1.1
51676.5	10000	41.6331	92.1944	-118	QK	1.8	-2	6.9	0	0.9	-2	0.258	-1	1.905	-1	7.384	1	1550	45	1.1
51676.4	10000	41.6331	92.1935	-118	QK	1.7	-2	6.7	-1	1.0	-1	0.257	-1	1.779	-1	6.921	1	1530	57	1.1
51676.3	10000	41.6331	92.1927	-118	QK	1.7	-2	6.4	-1	0.9	-2	0.264	-1	1.838	-1	6.974	1	1498	38	1.1
51676.2	10000	41.6331	92.1918	-118	QK	1.8	-1	6.6	-1	0.9	-2	0.274	-1	1.958	-1	7.138	1	1487	38	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51676.1	10000	41.6331	92.1909	-118	QK	1.8	-1	6.1	-2	0.9	-2	0.304	-1	2.067	0	6.798	0	1463	45	1.1
51676.0	10000	41.6330	92.1901	-118	QK	1.8	-1	6.2	-1	0.9	-2	0.296	-1	2.007	-1	6.773	0	1463	43	1.1
51675.9	10000	41.6330	92.1892	-118	QK	2.0	-1	6.1	-1	1.0	-1	0.318	0	1.971	-1	6.190	0	1485	49	1.1
51675.8	10000	41.6330	92.1884	-119	QK	1.8	-1	5.8	-2	1.0	-1	0.315	-1	1.841	-1	5.848	-1	1493	37	1.1
51675.7	10000	41.6330	92.1875	-119	QK	2.1	-1	5.9	-2	1.0	-1	0.345	0	2.048	0	5.933	-1	1500	45	1.1
51675.6	10000	41.6330	92.1867	-117	QK	2.0	-1	6.4	-1	1.1	0	0.314	-1	1.841	-1	5.869	-1	1534	42	1.1
51675.5	10000	41.6330	92.1858	-116	QK	1.6	-2	6.4	-1	1.1	0	0.259	-1	1.471	-2	5.672	-1	1548	45	1.1
51675.4	10000	41.6330	92.1850	-115	QK	1.4	-2	6.6	-1	1.2	0	0.213	-2	1.228	-2	5.768	-1	1588	53	1.1
51675.3	10000	41.6330	92.1841	-114	QK	1.6	-2	6.7	-1	1.2	0	0.237	-2	1.368	-2	5.777	-1	1622	44	1.1
51675.2	10000	41.6330	92.1832	-113	QK	1.7	-2	6.8	-1	1.2	0	0.243	-1	1.409	-2	5.802	-1	1638	57	1.1
51675.1	10000	41.6330	92.1824	-112	QK	1.9	-1	7.5	0	1.3	1	0.246	-1	1.478	-2	6.012	-1	1686	47	1.1
51675.0	10000	41.6330	92.1815	-110	QK	1.8	-2	7.6	0	1.2	1	0.232	-2	1.426	-2	6.152	0	1698	52	1.1
51674.9	10000	41.6330	92.1807	-109	QK	1.8	-2	7.5	0	1.2	1	0.235	-2	1.487	-2	6.324	0	1700	51	1.1
51674.8	10000	41.6329	92.1798	-111	QK	2.0	-1	7.3	0	1.2	1	0.278	-1	1.708	-1	6.145	0	1707	50	1.1
51674.7	10000	41.6329	92.1790	-111	QK	2.1	-1	7.2	0	1.2	0	0.290	-1	1.766	-1	6.084	-1	1690	45	1.1
51674.6	10000	41.6329	92.1781	-110	QK	2.1	-1	6.9	0	1.2	0	0.304	-1	1.786	-1	5.979	-1	1676	41	1.1
51674.5	10000	41.6329	92.1772	-110	QK	2.1	-1	6.8	-1	1.1	0	0.305	-1	1.862	-1	6.107	-1	1645	36	1.1
51674.4	10000	41.6329	92.1764	-109	QK	2.0	-1	6.2	-1	1.1	0	0.326	0	1.900	-1	5.828	-1	1589	50	1.1
51674.3	10000	41.6329	92.1755	-108	QK	2.0	-1	6.1	-2	1.0	-1	0.335	0	1.984	-1	5.926	-1	1524	39	1.1
51674.2	10000	41.6329	92.1747	-107	QK	2.1	-1	5.7	-2	1.0	-1	0.361	0	2.105	0	5.835	-1	1457	33	1.1
51674.1	10000	41.6329	92.1738	-108	QK	2.1	-1	5.3	-3	0.9	-2	0.389	1	2.242	0	5.759	-1	1381	39	1.1
51674.0	10000	41.6329	92.1730	-109	QK	2.2	-1	5.0	-3	0.9	-2	0.432	1	2.516	1	5.824	-1	1321	33	1.1
51673.9	10000	41.6329	92.1721	-109	QK	1.9	-1	4.9	-3	0.8	-3	0.389	1	2.355	0	6.061	-1	1262	47	1.1
51673.8	10000	41.6329	92.1712	-110	QK	1.7	-2	4.6	-4	0.8	-3	0.383	0	2.123	0	5.542	-1	1231	50	1.1
51673.7	10000	41.6329	92.1704	-111	QAL	1.7	-1	4.6	-2	0.8	-2	0.376	0	2.107	0	5.605	-1	1220	47	1.1
51673.6	10000	41.6329	92.1695	-111	QAL	1.8	-1	4.7	-2	0.8	-2	0.375	0	2.096	0	5.595	-1	1255	45	1.1
51673.5	10000	41.6329	92.1687	-111	QAL	1.9	-1	5.0	-1	0.9	-1	0.377	0	2.085	0	5.527	-1	1336	49	1.1
51673.4	10000	41.6328	92.1678	-112	QAL	2.0	-1	5.7	-1	1.0	-1	0.347	0	2.036	0	5.861	0	1446	31	1.1
51673.3	10000	41.6328	92.1669	-113	QAL	2.1	-1	6.1	0	1.1	0	0.347	-1	2.017	-1	5.806	0	1533	44	1.1
51673.2	10000	41.6328	92.1661	-113	QAL	2.4	0	6.6	0	1.1	0	0.360	0	2.151	0	5.972	0	1620	41	1.1
51673.1	10000	41.6328	92.1652	-115	QAL	2.5	0	7.1	0	1.2	1	0.358	0	2.161	0	6.042	0	1691	43	1.1
51673.0	10000	41.6328	92.1644	-117	QK	2.6	0	7.2	0	1.2	1	0.366	1	2.179	0	5.951	-1	1735	38	1.1
51672.9	10000	41.6328	92.1635	-119	QK	2.8	1	7.1	0	1.2	1	0.391	1	2.234	0	5.713	-1	1771	42	1.1
51672.8	10000	41.6328	92.1627	-121	QK	2.6	0	7.0	0	1.2	1	0.372	1	2.109	0	5.662	-1	1771	49	1.1
51672.7	10000	41.6328	92.1618	-124	QK	2.6	0	6.9	0	1.2	1	0.379	1	2.180	0	5.749	-1	1745	37	1.1
51672.6	10000	41.6328	92.1609	-126	QK	2.4	0	6.8	-1	1.2	1	0.349	0	2.061	0	5.909	-1	1728	49	1.1
51672.5	10000	41.6328	92.1601	-129	QK	2.3	0	6.6	-1	1.1	0	0.352	0	2.035	0	5.778	-1	1701	50	1.1
51672.4	10000	41.6328	92.1592	-132	QK	2.3	-1	6.7	-1	1.1	0	0.337	0	2.072	0	6.147	0	1673	44	1.1
51672.3	10000	41.6328	92.1584	-135	QK	2.2	-1	6.6	-1	1.0	-1	0.331	0	2.159	0	6.526	0	1639	36	1.1
51672.2	10000	41.6327	92.1575	-138	QK	2.0	-1	6.5	-1	1.0	-1	0.312	-1	2.006	-1	6.436	0	1641	60	1.1
51672.1	10000	41.6327	92.1567	-142	QK	2.4	0	6.9	0	1.0	-1	0.346	0	2.410	0	6.972	1	1650	47	1.1
51672.0	10000	41.6327	92.1558	-146	QK	2.5	0	6.8	-1	1.0	-1	0.365	0	2.409	0	6.592	0	1679	46	1.1
51671.9	10000	41.6327	92.1550	-150	QK	2.6	0	6.9	0	1.1	0	0.379	0	2.437	0	6.430	0	1698	37	1.1
51671.8	10000	41.6327	92.1541	-154	QK	2.7	0	7.1	0	1.1	0	0.381	0	2.471	0	6.479	0	1710	43	1.1
51671.7	10000	41.6327	92.1532	-159	QK	2.6	0	6.6	-1	1.1	0	0.387	1	2.410	0	6.221	0	1713	46	1.1
51671.6	10000	41.6327	92.1524	-165	QK	2.6	0	6.8	-1	1.1	0	0.383	1	2.409	0	6.290	0	1720	43	1.1
51671.5	10000	41.6327	92.1515	-171	QK	2.6	0	6.8	-1	1.1	0	0.378	1	2.411	0	6.377	0	1686	37	1.1
51671.4	10000	41.6327	92.1507	-177	QK	2.2	-1	6.4	-1	1.0	-1	0.348	0	2.151	0	6.175	0	1640	43	1.1
51671.3	10000	41.6327	92.1498	-184	QK	1.9	-1	6.4	-1	1.0	-1	0.297	-1	1.853	-1	6.251	0	1590	38	1.1
51671.2	10000	41.6327	92.1489	-191	QK	1.8	-1	6.5	-1	1.0	-1	0.277	-1	1.838	-1	6.628	0	1556	51	1.1
51671.1	10000	41.6327	92.1481	-199	QK	1.7	-2	6.5	-1	1.0	-1	0.267	-1	1.749	-1	6.545	0	1553	31	1.1
51671.0	10000	41.6327	92.1472	-207	QK	2.0	-1	6.5	-1	1.1	-1	0.308	-1	1.912	-1	6.210	0	1567	47	1.1

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51670.9	10000	41.6326	92.1464	-215	QK	2.1	-1	6.6	-1	1.1	-1	0.320	0	2.005	-1	6.274	0	1570	40	1.1
51670.8	10000	41.6326	92.1455	-225	QK	2.2	-1	6.8	-1	1.0	-1	0.315	0	2.094	0	6.647	0	1585	46	1.1
51670.7	10000	41.6326	92.1447	-234	QK	2.3	0	6.8	-1	1.1	0	0.337	0	2.085	0	6.192	0	1628	41	1.1
51670.6	10000	41.6326	92.1438	-245	QK	2.4	0	7.0	0	1.1	0	0.346	0	2.142	0	6.185	0	1665	35	1.1
51670.5	10000	41.6326	92.1429	-257	QK	2.5	0	7.2	0	1.2	0	0.345	0	2.115	0	6.123	-1	1684	52	1.1
51670.4	10000	41.6326	92.1421	-267	QK	2.7	0	7.5	0	1.1	0	0.359	0	2.394	0	6.678	0	1680	42	1.1
51670.3	10000	41.6326	92.1412	-279	QK	2.5	0	7.6	1	1.1	-1	0.325	0	2.338	0	7.202	1	1652	46	1.1
51670.2	10000	41.6326	92.1404	-293	QK	2.3	0	7.5	0	1.1	0	0.306	-1	2.097	0	6.863	1	1654	42	1.1
51670.1	10000	41.6326	92.1395	-307	QK	2.3	0	7.7	1	1.1	0	0.298	-1	2.074	0	6.960	1	1658	46	1.1
51670.0	10000	41.6326	92.1387	-323	QK	2.1	-1	7.7	1	1.1	0	0.279	-1	1.957	-1	7.004	1	1643	42	1.1
51669.9	10000	41.6326	92.1378	-339	QK	2.1	-1	7.4	0	1.0	-1	0.278	-1	2.042	0	7.351	1	1625	48	1.1
51669.8	10000	41.6325	92.1369	-356	QK	2.3	0	7.0	0	1.0	-1	0.330	0	2.280	0	6.917	1	1612	37	1.1
51669.7	10000	41.6325	92.1361	-373	QK	1.8	-1	6.9	0	1.0	-1	0.263	-1	1.752	-1	6.654	0	1586	52	1.1
51669.6	10000	41.6325	92.1352	-389	QK	2.0	-1	6.9	0	1.1	-1	0.282	-1	1.853	-1	6.563	0	1592	35	1.1
51669.5	10000	41.6325	92.1344	-407	QK	2.1	-1	7.0	0	1.0	-1	0.295	-1	2.028	-1	6.878	1	1606	43	1.0
51669.4	10000	41.6325	92.1335	-424	QK	2.1	-1	6.7	-1	1.0	-1	0.320	0	2.121	0	6.623	0	1600	43	1.0
51669.3	10000	41.6325	92.1327	-441	QK	2.2	-1	6.4	-1	1.0	-1	0.343	0	2.140	0	6.230	0	1595	53	1.0
51669.2	10000	41.6325	92.1318	-459	QK	2.2	-1	6.5	-1	1.1	0	0.331	0	1.964	-1	5.924	-1	1591	43	1.0
51669.1	10000	41.6325	92.1309	-477	QK	2.2	-1	6.7	-1	1.1	0	0.323	0	1.973	-1	6.116	-1	1601	47	1.0
51669.0	10000	41.6325	92.1301	-496	QK	2.5	0	6.4	-1	1.1	0	0.389	1	2.238	0	5.757	-1	1611	31	1.0
51668.9	10000	41.6325	92.1292	-514	QK	2.5	0	6.5	-1	1.1	0	0.386	0	2.215	0	5.741	-1	1628	26	1.0
51668.8	10000	41.6325	92.1284	-532	QK	2.3	0	6.5	-1	1.2	1	0.354	0	1.928	-1	5.449	-1	1627	46	1.0
51668.7	10000	41.6325	92.1275	-550	QK	2.3	-1	6.4	-1	1.3	1	0.357	0	1.816	-1	5.083	-2	1655	43	1.0
51668.6	10000	41.6325	92.1266	-568	QK	2.3	0	6.8	-1	1.3	1	0.343	0	1.855	-1	5.407	-2	1684	43	1.0
51668.5	10000	41.6324	92.1258	-585	QK	2.3	-1	6.8	-1	1.2	1	0.332	0	1.862	-1	5.608	-1	1701	43	1.0
51668.4	10000	41.6324	92.1249	-602	QK	2.2	-1	6.7	-1	1.2	1	0.322	0	1.777	-1	5.512	-1	1711	49	1.0
51668.3	10000	41.6324	92.1241	-620	QK	2.2	-1	6.9	-1	1.2	1	0.320	0	1.857	-1	5.811	-1	1722	38	1.0
51668.2	10000	41.6324	92.1232	-638	QK	2.1	-1	6.7	-1	1.2	1	0.318	0	1.837	-1	5.770	-1	1718	42	1.0
51668.1	10000	41.6324	92.1224	-655	QK	2.4	0	6.9	0	1.2	1	0.340	0	2.011	-1	5.907	-1	1747	43	1.0
51668.0	10000	41.6324	92.1215	-672	QK	2.3	0	7.2	0	1.1	0	0.316	0	2.036	0	6.436	0	1751	46	1.0
51667.9	10000	41.6324	92.1207	-687	QK	2.4	0	7.1	0	1.1	0	0.342	0	2.149	0	6.285	0	1759	45	1.0
51667.8	10000	41.6324	92.1198	-702	QK	2.6	0	7.2	0	1.2	0	0.359	0	2.207	0	6.157	0	1753	41	1.0
51667.7	10000	41.6324	92.1189	-717	QK	2.4	0	7.0	0	1.1	0	0.344	0	2.118	0	6.152	0	1732	48	1.0
51667.6	10000	41.6324	92.1181	-731	QK	2.2	-1	6.7	-1	1.1	0	0.330	0	1.928	-1	5.833	-1	1711	47	1.0
51667.5	10000	41.6324	92.1172	-744	QK	2.0	-1	6.8	-1	1.1	0	0.293	-1	1.775	-1	6.064	-1	1702	48	1.0
51667.4	10000	41.6324	92.1164	-757	QK	1.8	-1	6.6	-1	1.1	0	0.274	-1	1.652	-1	6.041	-1	1648	52	1.0
51667.3	10000	41.6323	92.1155	-769	QK	2.1	-1	6.4	-1	1.1	0	0.322	0	1.875	-1	5.828	-1	1624	49	1.0
51667.2	10000	41.6323	92.1147	-780	QK	1.9	-1	6.2	-1	1.1	-1	0.302	-1	1.782	-1	5.891	-1	1582	49	1.0
51667.1	10000	41.6323	92.1138	-790	QK	1.9	-1	6.2	-1	1.0	-1	0.305	-1	1.880	-1	6.175	0	1550	43	1.0
51667.0	10000	41.6323	92.1129	-800	QK	2.0	-1	6.4	-1	1.0	-1	0.320	0	2.063	0	6.446	0	1535	56	1.0
51666.9	10000	41.6323	92.1121	-809	QK	2.1	-1	6.4	-1	1.0	-1	0.327	0	2.109	0	6.447	0	1541	45	1.0
51666.8	10000	41.6323	92.1112	-818	QK	2.1	-1	6.3	-1	1.0	-1	0.342	0	2.066	0	6.046	-1	1553	25	1.0
51666.7	10000	41.6323	92.1104	-827	QK	2.3	-1	6.3	-1	1.1	0	0.358	0	2.100	0	5.866	-1	1583	57	1.0
51666.6	10000	41.6323	92.1095	-834	QK	1.9	-1	6.4	-1	1.1	-1	0.305	-1	1.784	-1	5.845	-1	1583	38	1.0
51666.5	10000	41.6323	92.1087	-840	QK	1.9	-1	6.6	-1	1.1	-1	0.288	-1	1.722	-1	5.976	-1	1582	42	1.0
51666.4	10000	41.6323	92.1078	-845	QK	2.0	-1	6.7	-1	1.1	-1	0.299	-1	1.785	-1	5.975	-1	1603	51	1.0
51666.3	10000	41.6322	92.1069	-850	QK	1.9	-1	6.5	-1	1.2	-1	0.284	-1	1.594	-1	5.612	-1	1616	35	1.0
51666.2	10000	41.6322	92.1061	-856	QK	2.0	-1	6.5	-1	1.2	-1	0.310	-1	1.708	-1	5.502	-1	1609	49	1.0
51666.1	10000	41.6322	92.1052	-862	QK	2.2	-1	6.5	-1	1.1	0	0.333	0	1.911	-1	5.746	-1	1581	40	1.0
51666.0	10000	41.6322	92.1044	-867	QK	2.1	-1	6.3	-1	1.1	0	0.339	0	1.927	-1	5.681	-1	1564	46	1.0
51665.9	10000	41.6322	92.1035	-873	QK	2.2	-1	5.9	-2	1.1	0	0.381	0	2.081	0	5.467	-1	1553	42	1.0
51665.8	10000	41.6322	92.1026	-878	QK	2.3	0	5.9	-2	1.1	0	0.398	1	2.143	0	5.387	-2	1570	41	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51665.7	10000	41.6322	92.1018	-882	QK	2.3	0	5.8	-2	1.1	0	0.399	1	2.089	0	5.232	-2	1587	49	1.0
51665.6	10000	41.6322	92.1009	-886	QK	2.5	0	5.9	-2	1.1	0	0.425	1	2.220	0	5.225	-2	1622	55	1.0
51665.5	10000	41.6322	92.1001	-890	QK	2.5	0	6.2	-1	1.1	0	0.403	1	2.200	0	5.458	-1	1656	44	1.0
51665.4	10000	41.6322	92.0992	-893	QK	2.3	-1	6.3	-1	1.2	1	0.356	0	1.870	-1	5.251	-2	1694	45	1.0
51665.3	10000	41.6322	92.0984	-896	QK	2.3	0	6.8	-1	1.2	1	0.335	0	1.852	-1	5.535	-1	1728	43	1.0
51665.2	10000	41.6322	92.0975	-901	QK	2.1	-1	7.2	0	1.3	1	0.296	-1	1.694	-1	5.724	-1	1751	41	1.0
51665.1	10000	41.6322	92.0966	-904	QK	2.1	-1	7.7	1	1.2	1	0.274	-1	1.711	-1	6.239	0	1778	52	1.0
51665.0	10000	41.6321	92.0958	-907	QK	2.1	-1	7.9	1	1.3	1	0.267	-1	1.669	-1	6.252	0	1801	34	1.0
51664.9	10000	41.6321	92.0949	-910	QK	2.2	-1	8.1	1	1.3	1	0.278	-1	1.752	-1	6.301	0	1806	40	1.0
51664.8	10000	41.6321	92.0941	-913	QK	2.0	-1	8.2	1	1.3	1	0.247	-1	1.565	-1	6.339	0	1810	42	1.0
51664.7	10000	41.6321	92.0932	-915	QK	2.2	-1	8.2	1	1.3	2	0.269	-1	1.686	-1	6.268	0	1812	49	1.0
51664.6	10000	41.6321	92.0924	-918	QK	2.4	0	7.6	1	1.3	1	0.313	-1	1.872	-1	5.978	-1	1801	45	1.0
51664.5	10000	41.6321	92.0915	-920	QK	2.7	0	8.0	1	1.3	1	0.334	0	2.070	0	6.192	0	1806	46	1.0
51664.4	10000	41.6321	92.0907	-922	QK	2.6	0	7.4	0	1.3	1	0.349	0	2.014	-1	5.778	-1	1791	43	1.0
51664.3	10000	41.6321	92.0898	-924	QK	2.6	0	7.3	0	1.3	2	0.349	0	1.947	-1	5.580	-1	1786	30	1.0
51664.2	10000	41.6321	92.0889	-925	QK	2.4	0	7.2	0	1.3	1	0.335	0	1.856	-1	5.537	-1	1773	37	1.0
51664.1	10000	41.6321	92.0881	-927	QK	2.5	0	7.1	0	1.3	1	0.353	0	1.998	-1	5.624	-1	1759	51	1.0
51664.0	10000	41.6321	92.0872	-928	QK	2.7	0	6.8	-1	1.3	1	0.394	0	2.123	0	5.393	-2	1744	40	1.0
51663.9	10000	41.6321	92.0864	-927	QK	2.4	0	7.1	0	1.2	1	0.336	0	1.912	-1	5.695	-1	1722	45	1.0
51663.8	10000	41.6320	92.0855	-927	QK	2.3	-1	6.6	-1	1.2	1	0.342	0	1.885	-1	5.511	-1	1698	43	1.0
51663.7	10000	41.6320	92.0846	-928	QK	2.4	0	6.7	-1	1.2	1	0.352	0	1.993	-1	5.665	-1	1674	53	1.0
51663.6	10000	41.6320	92.0838	-932	QK	2.3	0	6.9	0	1.1	0	0.338	0	2.127	0	6.300	0	1641	41	1.0
51663.5	10000	41.6321	92.0830	-934	QK	2.3	-1	7.1	0	1.0	-1	0.317	0	2.157	0	6.805	0	1631	55	1.0
51663.4	10000	41.6321	92.0821	-935	QK	2.4	0	6.7	-1	1.0	-1	0.359	0	2.338	0	6.510	0	1635	41	1.0
51663.3	10000	41.6321	92.0813	-936	QK	2.4	0	6.9	0	1.0	-1	0.349	0	2.336	0	6.701	0	1646	30	1.0
51663.2	10000	41.6321	92.0805	-936	QK	2.6	0	7.0	0	1.0	-1	0.367	0	2.479	0	6.747	0	1669	43	1.0
51663.1	10000	41.6321	92.0796	-937	QK	2.6	0	6.9	0	1.1	0	0.378	0	2.456	0	6.498	0	1682	40	1.0
51663.0	10000	41.6321	92.0788	-938	QK	2.6	0	7.0	0	1.1	0	0.375	0	2.401	0	6.396	0	1710	36	1.0
51662.9	10000	41.6321	92.0780	-939	QK	2.6	0	6.7	-1	1.2	1	0.394	1	2.242	0	5.692	-1	1732	40	1.0
51662.8	10000	41.6321	92.0771	-939	QK	2.7	0	6.9	0	1.2	1	0.390	1	2.217	0	5.688	-1	1750	45	1.0
51662.7	10000	41.6321	92.0763	-939	QK	2.6	0	7.0	0	1.3	1	0.369	0	2.039	0	5.531	-1	1750	36	1.0
51662.6	10000	41.6321	92.0754	-939	QK	2.3	-1	7.3	0	1.3	1	0.314	-1	1.725	-1	5.498	-1	1755	52	1.0
51662.5	10000	41.6321	92.0746	-939	QK	2.1	-1	7.5	0	1.4	1	0.280	-1	1.546	-2	5.523	-1	1744	42	1.0
51662.4	10000	41.6322	92.0738	-940	QK	1.9	-1	7.9	1	1.3	1	0.245	-1	1.448	-2	5.923	-1	1761	48	1.0
51662.3	10000	41.6322	92.0729	-940	QK	2.0	-1	7.9	1	1.4	1	0.249	-1	1.436	-2	5.768	-1	1763	43	1.0
51662.2	10000	41.6322	92.0721	-941	QK	1.9	-1	8.1	1	1.4	1	0.240	-2	1.433	-2	5.979	-1	1770	43	1.0
51662.1	10000	41.6322	92.0713	-941	QK	2.0	-1	7.9	1	1.4	1	0.257	-1	1.484	-2	5.767	-1	1785	54	1.0
51662.0	10000	41.6322	92.0704	-941	QK	2.2	-1	8.4	2	1.4	1	0.256	-1	1.593	-1	6.224	0	1787	50	1.0
51661.9	10000	41.6322	92.0696	-941	QK	2.6	0	8.2	1	1.3	1	0.316	0	1.990	-1	6.299	0	1785	41	1.0
51661.8	10000	41.6322	92.0687	-942	QK	2.7	0	7.9	1	1.3	1	0.337	0	2.088	0	6.191	0	1803	47	1.0
51661.7	10000	41.6322	92.0679	-942	QK	2.8	0	7.8	1	1.3	1	0.360	0	2.231	0	6.200	0	1786	26	1.0
51661.6	10000	41.6322	92.0671	-943	QK	2.8	0	7.7	1	1.3	1	0.368	0	2.208	0	6.005	-1	1786	42	1.0
51661.5	10000	41.6322	92.0662	-943	QK	2.6	0	7.7	1	1.3	1	0.334	0	2.012	-1	6.021	-1	1783	40	1.0
51661.4	10000	41.6322	92.0654	-943	QK	2.5	0	7.6	1	1.3	1	0.326	0	1.971	-1	6.037	-1	1781	48	1.0
51661.3	10000	41.6323	92.0646	-944	QK	2.4	0	7.5	1	1.2	1	0.318	0	1.910	-1	5.997	-1	1780	45	1.0
51661.2	10000	41.6323	92.0637	-944	QK	2.3	-1	7.8	1	1.2	1	0.302	-1	1.894	-1	6.281	0	1785	42	1.0
51661.1	10000	41.6323	92.0629	-944	QK	2.4	0	7.8	1	1.2	1	0.308	-1	1.989	-1	6.455	0	1774	50	1.0
51661.0	10000	41.6323	92.0621	-945	QK	2.2	-1	7.8	1	1.2	1	0.283	-1	1.803	-1	6.363	0	1783	43	1.0
51660.9	10000	41.6323	92.0612	-945	QK	2.3	-1	8.0	1	1.2	1	0.282	-1	1.903	-1	6.757	0	1793	40	1.0
51660.8	10000	41.6323	92.0604	-946	QK	2.6	0	8.4	1	1.2	1	0.310	-1	2.188	0	7.066	1	1807	38	1.0
51660.7	10000	41.6323	92.0595	-947	QK	2.5	0	8.5	1	1.2	1	0.295	-1	2.061	0	6.996	1	1798	42	1.0
51660.6	10000	41.6323	92.0587	-947	QK	2.5	0	8.4	2	1.2	1	0.299	-1	2.074	0	6.926	1	1802	52	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51660.5	10000	41.6323	92.0579	-948	QK	2.4	0	8.2	1	1.2	1	0.293	-1	1.964	-1	6.705	0	1791	47	1.0
51660.4	10000	41.6323	92.0570	-948	QK	2.2	-1	8.4	2	1.3	1	0.267	-1	1.78[illegible]	-[illegible]	6.683	0	1789	45	1.0
51660.3	10000	41.6324	92.0562	-948	QK	2.4	0	8.2	1	1.3	1	0.291	-1	1.867	-1	6.408	0	1782	51	1.0
51660.2	10000	41.6324	92.0554	-949	QK	2.0	-1	8.4	2	1.3	1	0.243	-1	1.603	-1	6.603	0	1768	35	1.0
51660.1	10000	41.6324	92.0545	-951	QK	2.0	-1	7.8	1	1.3	1	0.255	-1	1.578	-1	6.186	0	1760	44	1.0
51660.0	10000	41.6324	92.0537	-953	QK	2.1	-1	8.0	1	1.2	1	0.259	-1	1.708	-1	6.598	0	1764	45	1.0
51659.9	10000	41.6324	92.0528	-953	QK	2.0	-1	8.0	1	1.3	1	0.246	-1	1.572	-1	6.397	0	1774	41	1.0
51659.8	10000	41.6324	92.0520	-954	QK	1.8	-1	8.1	1	1.3	1	0.228	-2	1.475	-2	6.466	0	1777	48	1.0
51659.7	10000	41.6324	92.0512	-954	QK	2.0	-1	7.9	1	1.3	1	0.253	-1	1.579	-1	6.240	0	1793	49	0.9
51659.6	10000	41.6324	92.0503	-955	QK	2.0	-1	8.1	1	1.3	1	0.244	-1	1.537	-2	6.293	0	1808	56	0.9
51659.5	10000	41.6324	92.0495	-956	QK	2.2	-1	7.8	1	1.3	1	0.280	-1	1.722	-1	6.148	0	1810	39	0.9
51659.4	10000	41.6324	92.0487	-957	QK	2.1	-1	7.8	1	1.3	1	0.269	-1	1.650	-1	6.134	0	1812	42	0.9
51659.3	10000	41.6324	92.0478	-957	QK	2.3	-1	7.6	0	1.3	2	0.297	-1	1.728	-1	5.811	-1	1820	42	0.9
51659.2	10000	41.6325	92.0470	-957	QK	2.4	0	7.5	0	1.3	2	0.320	0	1.864	-1	5.819	-1	1821	42	0.9
51659.1	10000	41.6325	92.0461	-958	QK	2.5	0	7.6	1	1.3	2	0.329	0	1.923	-1	5.852	-1	1821	34	0.9
51659.0	10000	41.6325	92.0453	-958	QK	2.4	0	7.6	1	1.3	1	0.315	-1	1.876	-1	5.961	-1	1807	46	0.9
51658.9	10000	41.6325	92.0445	-959	QK	2.6	0	7.5	0	1.3	1	0.346	0	2.060	0	5.955	-1	1807	34	0.9
51658.8	10000	41.6325	92.0436	-959	QK	3.0	1	7.4	0	1.3	1	0.401	1	2.300	0	5.740	-1	1825	38	0.9
51658.7	10000	41.6325	92.0428	-960	QK	3.0	1	7.5	0	1.2	1	0.398	1	2.402	0	6.039	-1	1824	53	0.9
51658.6	10000	41.6325	92.0420	-961	QK	2.9	1	7.3	0	1.2	1	0.391	1	2.302	0	5.890	-1	1814	46	0.9
51658.5	10000	41.6325	92.0411	-961	QK	2.7	0	7.4	0	1.2	1	0.365	0	2.180	0	5.969	-1	1797	48	0.9
51658.4	10000	41.6325	92.0403	-962	QK	2.7	0	7.2	0	1.2	1	0.372	0	2.175	0	5.853	-1	1788	49	0.9
51658.3	10000	41.6325	92.0395	-963	QK	2.9	1	7.0	0	1.2	1	0.406	1	2.309	0	5.683	-1	1770	47	0.9
51658.2	10000	41.6326	92.0386	-963	QK	2.7	0	6.7	-1	1.2	1	0.400	1	2.219	0	5.552	-1	1732	47	0.9
51658.1	10000	41.6326	92.0378	-963	QK	2.3	0	6.9	0	1.2	0	0.338	0	1.988	-1	5.884	-1	1683	48	0.9
51658.0	10000	41.6326	92.0369	-964	QK	2.4	0	6.7	-1	1.2	0	0.353	0	2.034	0	5.754	-1	1662	43	0.9
51657.9	10000	41.6326	92.0361	-964	QK	2.5	1	6.7	-1	1.2	1	0.364	0	2.279	0	6.264	0	1641	46	0.9
51657.8	10000	41.6326	92.0353	-965	QK	2.5	1	6.7	-1	1.2	1	0.376	0	2.424	0	6.447	0	1639	42	0.9
51657.7	10000	41.6326	92.0344	-965	QK	2.7	1	6.8	-1	1.2	1	0.403	1	2.621	0	6.498	0	1647	42	0.9
51657.6	10000	41.6326	92.0336	-964	QK	2.6	1	6.8	-1	1.2	1	0.380	0	2.513	0	6.606	0	1669	45	0.9
51657.5	10000	41.6326	92.0328	-964	QK	2.8	1	7.3	0	1.2	1	0.386	0	2.743	0	7.096	0	1695	48	0.9
51657.4	10000	41.6326	92.0319	-965	QK	2.9	1	7.4	0	1.2	1	0.392	0	2.712	0	6.926	0	1716	48	0.9
51657.3	10000	41.6326	92.0311	-965	QK	3.0	1	7.5	0	1.2	1	0.399	0	2.671	0	6.692	0	1741	55	0.9
51657.2	10000	41.6326	92.0302	-965	QK	2.7	1	7.5	0	1.2	1	0.357	0	2.261	0	6.326	0	1756	41	0.9
51657.1	10000	41.6326	92.0294	-965	QK	2.8	1	7.5	0	1.2	1	0.380	0	2.366	0	6.220	0	1761	44	0.9
51657.0	10000	41.6327	92.0286	-965	QK	2.9	1	8.0	0	1.2	1	0.368	0	2.351	0	6.389	0	1765	46	0.9
51656.9	10000	41.6327	92.0277	-965	QK	3.1	1	7.9	0	1.2	1	0.395	0	2.509	0	6.356	0	1761	48	0.9
51656.8	10000	41.6327	92.0269	-964	QK	2.9	1	8.1	0	1.2	1	0.365	0	2.345	0	6.426	0	1755	46	0.9
51656.7	10000	41.6327	92.0261	-965	QK	2.8	1	8.0	0	1.2	1	0.338	0	2.274	0	6.721	0	1754	49	0.9
51656.6	10000	41.6327	92.0252	-964	QK	2.6	1	8.0	0	1.2	1	0.314	0	2.239	0	7.140	0	1752	60	0.9
51656.5	10000	41.6327	92.0244	-963	QK	2.8	1	8.0	0	1.2	1	0.332	0	2.537	0	7.650	0	1747	45	0.9
51656.4	10000	41.6327	92.0236	-962	QK	2.9	1	8.0	0	1.2	1	0.349	0	2.552	0	7.318	0	1750	39	0.9
51656.3	10000	41.6327	92.0227	-961	QK	2.7	1	7.6	0	1.2	1	0.355	0	2.467	0	6.949	0	1740	58	0.9
51656.2	10000	41.6327	92.0219	-960	QK	2.8	1	7.7	0	1.2	1	0.362	0	2.545	0	7.027	0	1738	38	0.9
51656.1	10000	41.6327	92.0210	-959	QK	2.8	1	7.7	0	1.2	1	0.369	0	2.623	0	7.113	0	1748	44	0.9
51656.0	10000	41.6327	92.0202	-958	QK	3.0	1	7.4	0	1.2	1	0.410	1	2.731	0	6.667	0	1766	50	0.9
51655.9	10000	41.6328	92.0194	-956	QK	3.1	1	7.1	0	1.2	1	0.430	1	2.759	0	6.420	0	1751	41	0.9
51655.8	10000	41.6328	92.0185	-955	QK	3.1	1	7.0	0	1.2	1	0.440	1	2.656	0	6.034	-1	1763	44	0.9
51655.7	10000	41.6328	92.0177	-954	QK	2.8	1	7.4	0	1.2	1	0.379	0	2.414	0	6.367	-1	1774	33	0.9
51655.6	10000	41.6328	92.0169	-953	QK	2.9	1	7.7	0	1.2	1	0.377	0	2.585	0	6.855	0	1786	43	0.9
51655.5	10000	41.6328	92.0160	-951	QK	2.7	1	7.7	0	1.1	1	0.348	0	2.346	0	6.742	0	1799	50	1.0
51655.4	10000	41.6328	92.0152	-950	QK	2.7	1	7.7	0	1.2	1	0.346	0	2.236	0	6.465	0	1797	52	1.0

LINE 290 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51655.3	10000	41.6328	92.0143	-948	QK	2.5	0	7.8	1	1.2	0	0.321	0	2.171	0	6.772	0	1776	46	1.0
51655.2	10000	41.6328	92.0135	-947	QK	2.5	0	8.0	1	1.1	0	0.312	-1	2.262	0	7.244	1	1767	43	1.0
51655.1	10000	41.6328	92.0127	-946	QK	2.5	0	7.9	1	1.1	0	0.314	-1	2.327	0	7.423	1	1745	38	1.0
51655.0	10000	41.6328	92.0118	-945	QK	2.6	0	7.5	0	1.0	-1	0.347	0	2.561	1	7.378	1	1719	45	1.0
51654.9	10000	41.6328	92.0110	-944	QK	2.4	0	7.7	1	1.0	-1	0.316	0	2.319	0	7.344	1	1694	34	1.0
51654.8	10000	41.6329	92.0102	-944	QK	2.3	0	7.7	1	1.0	-1	0.299	-1	2.205	0	7.373	1	1666	42	1.0
51654.7	10000	41.6329	92.0093	-944	QK	2.2	-1	7.5	0	1.0	-1	0.296	-1	2.235	0	7.554	2	1653	56	1.0
51654.6	10000	41.6329	92.0085	-943	QK	2.5	0	7.1	0	1.0	-1	0.350	0	2.548	1	7.289	1	1645	41	1.0
51654.5	10000	41.6329	92.0077	-943	QK	2.5	0	7.0	0	1.0	-1	0.361	0	2.525	1	6.989	1	1661	43	1.0
51654.4	10000	41.6329	92.0068	-942	QK	2.5	0	7.2	0	1.0	-1	0.353	0	2.453	1	6.943	1	1676	45	1.0
51654.3	10000	41.6329	92.0060	-941	QK	2.4	0	7.8	1	1.1	0	0.302	-1	2.150	0	7.109	1	1691	38	1.0
51654.2	10000	41.6329	92.0051	-941	QK	2.5	0	7.9	1	1.1	0	0.314	-1	2.246	0	7.153	1	1712	42	1.0
51654.1	10000	41.6329	92.0043	-940	QK	2.8	1	8.2	1	1.1	0	0.341	0	2.536	1	7.435	1	1734	43	1.0
51654.0	10000	41.6329	92.0035	-939	QK	2.9	1	8.3	1	1.2	1	0.353	0	2.439	0	6.914	1	1770	48	1.0
51653.9	10000	41.6329	92.0026	-939	QK	2.7	0	8.5	2	1.2	1	0.325	0	2.243	0	6.909	1	1787	39	1.0
51653.8	10000	41.6329	92.0018	-939	QK	2.7	0	8.4	2	1.3	1	0.321	0	2.153	0	6.710	0	1784	33	1.0
51653.7	10000	41.6329	92.0010	-938	QK	2.7	0	8.3	2	1.3	1	0.327	0	2.175	0	6.661	0	1783	46	1.0
51653.6	10000	41.6330	92.0001	-938	QK	2.9	1	8.0	1	1.2	1	0.359	0	2.333	0	6.490	0	1783	38	1.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50919.8	10000	41.5467	93.9991	-1056	QKA	2.5	0	9.2	3	1.3	2	0.276	-1	1.932	-1	7.007	0	2178	48	2.2
50919.9	10000	41.5467	93.9983	-1056	QKA	2.3	0	9.4	3	1.3	1	0.247	-1	1.820	-1	7.379	1	2171	41	2.2
50920.0	10000	41.5467	93.9974	-1056	QKA	2.5	0	9.5	3	1.3	2	0.261	-1	1.913	-1	7.341	1	2175	49	2.2
50920.1	10000	41.5467	93.9966	-1055	QKA	2.3	0	9.3	3	1.3	2	0.251	-1	1.796	-1	7.149	1	2155	47	2.2
50920.2	10000	41.5467	93.9957	-1054	QKA	2.2	0	8.9	2	1.3	1	0.250	-1	1.769	-1	7.077	0	2126	43	2.2
50920.3	10000	41.5467	93.9948	-1053	QKA	2.1	-1	8.6	2	1.3	1	0.248	-1	1.668	-1	6.740	0	2100	51	2.2
50920.4	10000	41.5467	93.9940	-1053	QD	2.2	0	8.8	3	1.3	2	0.255	-1	1.738	0	6.824	2	2081	53	2.2
50920.5	10000	41.5467	93.9931	-1052	QD	2.2	0	8.4	3	1.2	1	0.262	-1	1.784	0	6.805	2	2042	51	2.2
50920.6	10000	41.5467	93.9922	-1052	QD	2.5	1	7.7	2	1.2	1	0.324	-1	2.037	0	6.295	1	2005	42	2.2
50920.7	10000	41.5466	93.9914	-1051	QD	2.4	1	7.4	2	1.2	1	0.323	-1	2.024	0	6.272	1	1950	41	2.2
50920.8	10000	41.5466	93.9905	-1051	QD	2.5	1	7.1	2	1.1	1	0.344	0	2.154	0	6.262	1	1908	40	2.2
50920.9	10000	41.5466	93.9896	-1050	QD	2.3	1	6.9	1	1.1	0	0.334	0	2.141	0	6.408	1	1854	55	2.2
50921.0	10000	41.5466	93.9888	-1049	QD	2.2	0	6.8	1	1.0	0	0.323	-1	2.234	0	6.924	2	1804	38	2.2
50921.1	10000	41.5466	93.9879	-1048	QD	2.3	0	6.5	1	1.0	0	0.352	0	2.366	0	6.717	2	1770	31	2.2
50921.2	10000	41.5466	93.9870	-1048	QD	2.6	1	6.3	1	1.0	0	0.414	0	2.677	1	6.471	1	1738	42	2.2
50921.3	10000	41.5466	93.9862	-1047	QD	2.5	1	6.2	1	1.0	0	0.404	0	2.529	1	6.261	1	1720	46	2.2
50921.4	10000	41.5466	93.9853	-1046	QD	2.4	0	6.1	0	1.0	-1	0.395	0	2.414	1	6.109	2	1715	39	2.2
50921.5	10000	41.5466	93.9844	-1045	QD	2.1	0	6.0	0	1.0	-1	0.360	0	2.103	0	5.836	1	1715	37	2.2
50921.6	10000	41.5466	93.9836	-1045	QD	2.3	0	6.1	0	1.1	0	0.374	0	2.124	0	5.678	1	1723	38	2.2
50921.7	10000	41.5466	93.9827	-1044	QD	2.3	0	5.8	0	1.1	0	0.402	0	2.094	0	5.213	0	1723	52	2.2
50921.8	10000	41.5466	93.9818	-1044	QD	2.2	0	6.0	0	1.1	0	0.366	0	2.027	0	5.544	1	1729	37	2.2
50921.9	10000	41.5466	93.9810	-1044	QD	1.7	-1	6.3	1	1.1	0	0.278	-1	1.587	-1	5.710	1	1746	37	2.2
50922.0	10000	41.5466	93.9801	-1043	QD	1.7	-2	6.8	2	1.1	0	0.252	-2	1.509	-1	5.982	1	1762	48	2.1
50922.1	10000	41.5466	93.9792	-1043	QD	1.8	-1	7.1	2	1.1	0	0.251	-2	1.553	-1	6.194	2	1766	39	2.1
50922.2	10000	41.5466	93.9784	-1043	QD	2.0	-1	7.4	3	1.1	0	0.273	-2	1.775	-1	6.514	3	1805	58	2.1
50922.3	10000	41.5466	93.9775	-1041	QD	1.6	-2	7.3	3	1.2	1	0.222	-2	1.366	-2	6.162	2	1819	65	2.1
50922.4	10000	41.5466	93.9767	-1040	QD	1.5	-2	7.5	3	1.2	1	0.193	-3	1.179	-2	6.107	2	1842	51	2.1
50922.5	10000	41.5466	93.9758	-1039	QD	1.6	-2	7.5	3	1.2	1	0.212	-2	1.281	-2	6.047	2	1844	36	2.1
50922.6	10000	41.5466	93.9749	-1038	QD	1.6	-2	7.4	3	1.2	1	0.219	-2	1.308	-2	5.974	2	1843	47	2.1
50922.7	10000	41.5465	93.9741	-1037	QD	1.6	-2	6.9	2	1.2	1	0.234	-2	1.308	-2	5.602	1	1833	50	2.1
50922.8	10000	41.5465	93.9732	-1036	QD	1.7	-2	6.5	2	1.2	1	0.261	-2	1.368	-2	5.231	0	1846	50	2.1
50922.9	10000	41.5465	93.9723	-1034	QD	1.7	-2	6.3	2	1.2	2	0.269	-2	1.348	-2	5.010	-1	1822	36	2.1
50923.0	10000	41.5465	93.9715	-1033	QD	2.0	-1	6.3	2	1.2	1	0.315	-1	1.617	-1	5.131	0	1829	38	2.1
50923.1	10000	41.5465	93.9706	-1033	QD	2.0	-1	6.3	2	1.2	1	0.320	-1	1.697	-1	5.310	0	1809	47	2.1
50923.2	10000	41.5465	93.9697	-1032	QD	1.9	-1	6.6	2	1.2	1	0.285	-1	1.533	-1	5.378	0	1806	38	2.1
50923.3	10000	41.5465	93.9689	-1032	QD	2.0	-1	6.4	2	1.2	1	0.308	-1	1.613	-1	5.229	0	1806	43	2.1
50923.4	10000	41.5465	93.9680	-1032	QD	1.9	-1	6.6	2	1.2	1	0.287	-1	1.545	-1	5.380	0	1812	38	2.1
50923.5	10000	41.5465	93.9671	-1031	QD	1.8	-1	6.6	2	1.2	1	0.274	-1	1.503	-1	5.488	0	1788	41	2.1
50923.6	10000	41.5465	93.9663	-1031	QD	1.8	0	6.4	1	1.2	1	0.285	-1	1.590	-1	5.569	0	1762	42	2.1
50923.7	10000	41.5465	93.9654	-1031	QD	1.4	-1	6.5	1	1.1	1	0.217	-1	1.234	-1	5.692	0	1715	46	2.1
50923.8	10000	41.5465	93.9645	-1030	QD	1.5	-1	6.3	1	1.1	1	0.241	-1	1.351	-1	5.596	0	1716	45	2.1
50923.9	10000	41.5465	93.9637	-1030	QD	1.6	-1	6.1	1	1.1	1	0.254	-1	1.372	-1	5.391	0	1709	52	2.1
50924.0	10000	41.5465	93.9628	-1029	QD	1.4	-1	6.1	1	1.1	1	0.226	-1	1.225	-1	5.410	0	1701	45	2.1
50924.1	10000	41.5465	93.9619	-1027	QD	1.4	-1	6.4	1	1.2	1	0.226	-1	1.235	-1	5.468	0	1709	44	2.1
50924.2	10000	41.5465	93.9611	-1025	QD	1.4	-1	6.5	1	1.2	1	0.211	-2	1.175	-1	5.558	0	1734	51	2.1
50924.3	10000	41.5465	93.9602	-1023	QD	1.4	-1	6.8	1	1.2	1	0.203	-2	1.113	-1	5.492	0	1785	52	2.1
50924.4	10000	41.5465	93.9594	-1021	QD	1.8	-1	7.0	2	1.3	1	0.237	-1	1.408	-1	5.936	1	1835	57	2.0
50924.5	10000	41.5464	93.9585	-1019	QD	1.9	0	7.8	2	1.3	1	0.241	-1	1.456	-1	6.042	1	1861	49	2.0
50924.6	10000	41.5464	93.9576	-1018	QD	1.9	0	7.7	2	1.3	1	0.242	-1	1.479	-1	6.120	1	1874	44	2.0
50924.7	10000	41.5464	93.9567	-1017	QD	2.1	0	7.6	2	1.3	1	0.284	-1	1.687	-1	5.948	1	1892	42	2.0
50924.8	10000	41.5464	93.9559	-1016	QD	2.4	1	7.6	2	1.3	1	0.308	-1	1.942	0	6.3[illegible]	1	1883	48	2.0
50924.9	10000	41.5464	93.9550	-1015	QD	2.4	1	7.6	2	1.2	1	0.313	-1	1.928	0	6.158	1	1886	34	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50925.0	10000	41.5464	93.9541	-1012	QO	2.5	1	7.2	2	1.3	1	0.348	0	2.014	0	5.794	1	1878	29	2.0
50925.1	10000	41.5464	93.9533	-1011	QO	2.4	1	6.9	1	1.3	1	0.350	0	1.944	0	5.550	0	1866	35	2.0
50925.2	10000	41.5464	93.9524	-1010	QO	2.2	0	6.7	1	1.2	1	0.326	-1	1.749	0	5.367	0	1854	41	2.0
50925.3	10000	41.5464	93.9516	-1005	QKA	2.0	-1	7.1	0	1.3	1	0.281	-1	1.587	-1	5.657	-1	1843	38	2.0
50925.4	10000	41.5464	93.9507	-995	QKA	1.9	-1	7.0	0	1.2	1	0.277	-1	1.561	-1	5.643	-1	1830	34	2.0
50925.5	10000	41.5464	93.9498	-984	QKA	1.8	-1	6.6	-1	1.3	2	0.268	-1	1.327	-2	4.954	-2	1850	49	2.0
50925.6	10000	41.5464	93.9490	-993	QKA	1.7	-1	6.6	-1	1.4	2	0.260	-1	1.250	-2	4.813	-2	1859	42	2.0
50925.7	10000	41.5464	93.9481	-1003	QKA	1.5	-2	6.7	-1	1.4	2	0.220	-2	1.072	-2	4.874	-2	1882	48	1.9
50925.8	10000	41.5464	93.9472	-1004	QKA	1.6	-2	6.9	0	1.4	3	0.235	-1	1.135	-2	4.833	-2	1913	46	1.9
50925.9	10000	41.5464	93.9464	-1003	QKA	1.9	-1	7.3	0	1.5	3	0.268	-1	1.327	-2	4.959	-2	1959	34	1.9
50926.0	10000	41.5464	93.9455	-1001	QKA	2.0	-1	7.1	0	1.5	3	0.286	-1	1.375	-2	4.804	-2	1991	36	1.9
50926.1	10000	41.5464	93.9446	-1000	QKA	2.2	-1	7.4	0	1.5	3	0.292	-1	1.460	-2	4.998	-2	2029	37	1.9
50926.2	10000	41.5464	93.9438	-1000	QKA	2.3	0	7.5	0	1.4	2	0.314	0	1.676	-1	5.338	-2	2021	48	1.9
50926.3	10000	41.5463	93.9429	-998	QKA	2.5	0	7.7	1	1.4	2	0.324	0	1.823	-1	5.624	-1	2007	42	1.9
50926.4	10000	41.5463	93.9420	-998	QKA	2.8	1	8.0	1	1.3	1	0.347	0	2.214	0	6.374	0	1985	51	1.9
50926.5	10000	41.5463	93.9412	-996	QKA	2.8	1	7.7	1	1.2	1	0.366	0	2.325	0	6.349	0	1966	51	1.9
50926.6	10000	41.5463	93.9403	-995	QKA	2.4	0	7.3	0	1.2	1	0.337	0	2.086	0	6.185	-1	1934	47	1.9
50926.7	10000	41.5463	93.9394	-994	QKA	2.8	1	7.1	0	1.1	0	0.394	1	2.446	0	6.214	-1	1932	49	1.9
50926.8	10000	41.5463	93.9386	-992	QKA	2.4	0	7.0	0	1.1	0	0.347	0	2.198	0	6.338	0	1904	43	1.8
50926.9	10000	41.5463	93.9377	-991	QKA	2.7	1	7.1	0	1.1	0	0.388	1	2.460	0	6.345	0	1918	44	1.8
50927.0	10000	41.5463	93.9368	-990	QKA	2.7	1	7.0	0	1.1	0	0.382	1	2.419	0	6.329	0	1934	36	1.8
50927.1	10000	41.5463	93.9360	-989	QKA	2.5	0	6.7	-1	1.1	0	0.374	1	2.181	0	5.830	-1	1938	35	1.8
50927.2	10000	41.5463	93.9351	-989	QKA	2.4	0	6.6	-1	1.1	0	0.356	1	2.086	0	5.854	-1	1933	52	1.8
50927.3	10000	41.5463	93.9342	-987	QKA	2.7	1	6.6	-1	1.1	0	0.413	1	2.491	0	6.032	-1	1931	53	1.8
50927.4	10000	41.5463	93.9334	-986	QKA	2.6	1	6.5	-1	1.1	0	0.408	1	2.376	0	5.819	-1	1917	33	1.8
50927.5	10000	41.5463	93.9325	-985	QKA	2.9	1	6.7	-1	1.1	1	0.435	1	2.552	1	5.860	-1	1927	46	1.8
50927.6	10000	41.5463	93.9317	-985	QKA	2.6	0	6.8	0	1.2	1	0.377	1	2.228	0	5.915	-1	1926	54	1.8
50927.7	10000	41.5463	93.9308	-984	QKA	2.6	0	6.6	0	1.2	1	0.381	1	2.139	0	5.615	-1	1944	43	1.8
50927.8	10000	41.5463	93.9299	-983	QKA	2.7	1	7.3	1	1.3	1	0.374	1	2.182	0	5.829	-1	1970	42	1.8
50927.9	10000	41.5463	93.9291	-982	QKA	2.7	1	7.3	1	1.3	1	0.370	1	2.067	0	5.584	-1	1991	58	1.8
50928.0	10000	41.5463	93.9282	-981	QKA	2.5	1	7.1	1	1.4	1	0.313	0	1.809	-1	5.781	-1	2020	45	1.8
50928.1	10000	41.5462	93.9273	-980	QKA	2.5	1	7.5	1	1.4	1	0.293	-1	1.734	-1	5.919	-1	2063	40	1.8
50928.2	10000	41.5462	93.9265	-979	QKA	2.4	1	7.4	1	1.5	1	0.284	-1	1.592	-1	5.606	-1	2099	37	1.7
50928.3	10000	41.5462	93.9256	-978	QKA	2.3	1	7.8	1	1.5	1	0.256	-1	1.478	-2	5.768	-1	2119	48	1.7
50928.4	10000	41.5462	93.9247	-977	QKA	2.4	1	8.0	1	1.5	1	0.261	-1	1.574	-1	6.023	-1	2119	29	1.7
50928.5	10000	41.5462	93.9239	-976	QKA	2.4	1	7.6	1	1.5	1	0.283	-1	1.585	-1	5.599	-1	2129	34	1.7
50928.6	10000	41.5462	93.9230	-975	QKA	2.7	1	8.2	1	1.4	1	0.313	-1	1.818	-1	5.800	-1	2136	43	1.7
50928.7	10000	41.5462	93.9221	-974	QKA	2.8	1	8.1	1	1.3	1	0.339	0	2.011	0	5.928	-1	2127	38	1.7
50928.8	10000	41.5462	93.9213	-972	QKA	3.0	1	8.0	1	1.2	1	0.369	0	2.264	0	6.128	-1	2099	30	1.7
50928.9	10000	41.5462	93.9204	-971	QKA	3.1	2	7.9	1	1.2	1	0.393	1	2.517	1	6.401	0	2073	40	1.7
50929.0	10000	41.5462	93.9195	-971	QKA	3.2	2	7.9	1	1.2	1	0.416	1	2.720	1	6.543	0	2048	33	1.7
50929.1	10000	41.5462	93.9187	-970	QKA	3.1	2	7.9	1	1.2	1	0.392	1	2.591	1	6.609	0	2024	46	1.7
50929.2	10000	41.5462	93.9178	-969	QKA	3.0	2	8.2	1	1.1	1	0.348	0	2.541	1	7.297	1	1980	50	1.7
50929.3	10000	41.5462	93.9169	-967	QKA	2.8	1	8.4	1	1.2	1	0.331	0	2.482	1	7.501	1	1946	52	1.7
50929.4	10000	41.5462	93.9161	-966	QKA	2.6	1	8.3	1	1.2	1	0.312	0	2.187	0	7.009	1	1929	45	1.7
50929.5	10000	41.5462	93.9152	-965	QKA	2.5	1	8.1	1	1.2	1	0.276	-1	1.891	-1	6.843	0	1915	42	1.7
50929.6	10000	41.5462	93.9144	-965	QKA	2.5	1	8.1	1	1.3	1	0.273	-1	1.835	-1	6.731	0	1905	44	1.7
50929.7	10000	41.5462	93.9135	-965	QKA	2.5	1	8.1	1	1.3	1	0.266	-1	1.712	-1	6.431	0	1911	45	1.7
50929.8	10000	41.5462	93.9126	-963	QKA	2.4	1	8.0	1	1.3	1	0.275	-1	1.733	-1	6.298	0	1938	42	1.7
50929.9	10000	41.5462	93.9118	-961	QKA	2.4	1	7.8	1	1.3	1	0.303	-1	1.821	-1	6.017	-1	1961	43	1.7
50930.0	10000	41.5461	93.9109	-960	QKA	2.3	1	7.8	1	1.3	2	0.300	-1	1.753	-1	5.841	-1	1969	48	1.7
50930.1	10000	41.5461	93.9100	-958	QKA	2.6	1	7.5	1	1.3	2	0.351	0	2.052	0	5.850	-1	1973	38	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50930.2	10000	41.5461	93.9092	-957	QKA	2.6	0	7.6	1	1.3	2	0.347	0	1.974	-1	5.688	-1	1961	47	1.7
50930.3	10000	41.5461	93.9083	-957	QKA	2.3	0	7.5	0	1.3	2	0.310	0	1.759	-1	5.669	-1	1948	45	1.7
50930.4	10000	41.5461	93.9074	-957	QKA	2.6	0	7.3	0	1.3	1	0.350	0	2.006	0	5.732	-1	1948	35	1.7
50930.5	10000	41.5461	93.9066	-955	QKA	2.6	0	7.2	0	1.3	1	0.362	0	2.052	0	5.667	-1	1944	39	1.7
50930.6	10000	41.5461	93.9057	-953	QKA	2.3	0	7.7	1	1.2	1	0.302	-1	1.861	-1	6.166	-1	1938	37	1.7
50930.7	10000	41.5461	93.9048	-951	QKA	2.5	0	8.0	1	1.2	1	0.308	0	2.009	0	6.517	0	1964	33	1.7
50930.8	10000	41.5461	93.9040	-951	QKA	2.3	0	8.0	1	1.3	1	0.283	-1	1.818	-1	6.417	0	1982	52	1.7
50930.9	10000	41.5461	93.9031	-951	QKA	2.6	0	8.4	2	1.3	1	0.308	0	2.054	0	6.680	0	2035	45	1.7
50931.0	10000	41.5461	93.9022	-950	QKA	3.1	1	8.9	2	1.3	2	0.347	0	2.373	0	6.837	0	2072	42	1.7
50931.1	10000	41.5461	93.9014	-949	QKA	2.9	1	8.9	2	1.3	2	0.322	0	2.156	0	6.687	0	2096	43	1.7
50931.2	10000	41.5461	93.9005	-948	QKA	2.8	1	9.0	2	1.3	2	0.308	0	2.133	0	6.926	0	2097	54	1.7
50931.3	10000	41.5461	93.8996	-947	QKA	2.9	1	8.7	2	1.3	2	0.335	0	2.212	0	6.599	0	2099	38	1.7
50931.4	10000	41.5461	93.8988	-946	QKA	3.0	1	8.7	2	1.3	2	0.341	0	2.250	0	6.605	0	2111	33	1.7
50931.5	10000	41.5461	93.8979	-945	QKA	3.1	2	8.8	2	1.3	2	0.354	0	2.352	0	6.639	0	2105	55	1.7
50931.6	10000	41.5461	93.8970	-944	QKA	3.0	1	8.3	2	1.3	2	0.362	0	2.229	0	6.159	-1	2083	49	1.7
50931.7	10000	41.5460	93.8962	-943	QKA	2.5	1	7.8	1	1.4	2	0.320	0	1.804	-1	5.640	-1	2077	53	1.7
50931.8	10000	41.5460	93.8953	-942	QKA	2.6	1	7.6	1	1.4	2	0.344	0	1.875	-1	5.452	-2	2077	46	1.7
50931.9	10000	41.5460	93.8944	-941	QKA	2.7	1	7.5	0	1.4	2	0.358	0	1.899	-1	5.300	-2	2087	43	1.7
50932.0	10000	41.5460	93.8936	-939	QKA	2.7	1	7.5	0	1.4	2	0.359	0	1.888	-1	5.252	-2	2096	40	1.7
50932.1	10000	41.5460	93.8927	-938	QKA	2.6	1	7.3	0	1.5	3	0.356	0	1.744	-1	4.898	-2	2075	36	1.7
50932.2	10000	41.5460	93.8918	-937	QKA	2.2	1	7.0	0	1.5	3	0.315	0	1.465	-2	4.653	-3	2090	43	1.7
50932.3	10000	41.5460	93.8910	-936	QKA	2.3	1	7.6	1	1.5	3	0.296	-1	1.495	-2	5.059	-2	2111	47	1.7
50932.4	10000	41.5460	93.8901	-934	QKA	2.5	0	7.7	1	1.5	3	0.324	0	1.659	-1	5.116	-2	2128	42	1.7
50932.5	10000	41.5460	93.8893	-933	QKA	2.5	0	7.9	1	1.5	3	0.314	0	1.640	-1	5.228	-2	2133	36	1.8
50932.6	10000	41.5460	93.8884	-932	QKA	2.5	0	7.9	1	1.5	3	0.315	0	1.644	-1	5.228	-2	2132	43	1.8
50932.7	10000	41.5460	93.8875	-931	QKA	2.7	1	7.7	1	1.5	3	0.347	0	1.746	-1	5.034	-2	2135	47	1.8
50932.8	10000	41.5460	93.8867	-930	QKA	2.7	1	7.7	1	1.5	3	0.344	0	1.788	-1	5.202	-2	2144	43	1.8
50932.9	10000	41.5460	93.8858	-928	QKA	2.8	1	8.0	1	1.5	3	0.348	0	1.909	-1	5.491	-1	2151	51	1.8
50933.0	10000	41.5460	93.8849	-928	QKA	2.8	1	8.1	1	1.5	3	0.357	0	1.849	-2	5.186	-2	2142	57	1.8
50933.1	10000	41.5460	93.8841	-927	QKA	3.0	1	8.2	1	1.4	3	0.364	0	2.028	-1	5.566	-1	2134	40	1.8
50933.2	10000	41.5460	93.8832	-926	QKA	3.0	1	8.5	1	1.4	3	0.359	0	2.043	-1	5.683	-1	2115	49	1.8
50933.3	10000	41.5459	93.8823	-925	QKA	2.9	1	8.5	1	1.4	3	0.355	0	2.092	-1	5.899	-1	2113	42	1.8
50933.4	10000	41.5459	93.8815	-925	QKA	2.9	1	8.7	1	1.4	3	0.320	0	2.038	0	6.359	0	2111	36	1.9
50933.5	10000	41.5459	93.8806	-924	QKA	3.0	1	8.8	1	1.4	3	0.320	0	2.057	0	6.435	0	2111	45	1.9
50933.6	10000	41.5460	93.8797	-923	QKA	3.2	1	8.8	1	1.3	3	0.336	0	2.189	0	6.515	0	2106	35	1.9
50933.7	10000	41.5460	93.8788	-923	QKA	3.2	1	8.8	1	1.3	3	0.358	0	2.441	0	6.814	0	2105	53	1.9
50933.8	10000	41.5460	93.8780	-922	QKA	3.5	1	8.8	1	1.3	3	0.414	0	2.680	1	6.473	0	2108	36	1.9
50933.9	10000	41.5460	93.8771	-921	QKA	3.8	1	8.8	1	1.3	3	0.457	0	2.922	1	6.395	0	2134	39	1.9
50934.0	10000	41.5460	93.8762	-921	QKA	3.8	1	8.8	1	1.3	3	0.491	0	3.113	2	6.344	0	2148	46	1.9
50934.1	10000	41.5460	93.8753	-920	QKA	3.6	1	8.8	1	1.3	3	0.457	0	2.933	1	6.420	0	2167	51	1.9
50934.2	10000	41.5460	93.8744	-920	QKA	3.4	1	8.8	1	1.3	3	0.443	0	2.874	1	6.480	0	2176	35	1.9
50934.3	10000	41.5460	93.8736	-920	QKA	3.3	1	8.8	1	1.3	3	0.424	0	2.689	1	6.338	0	2176	44	1.9
50934.4	10000	41.5460	93.8727	-920	QKA	3.0	1	8.8	1	1.3	3	0.387	0	2.524	1	6.516	0	2181	50	1.9
50934.5	10000	41.5460	93.8718	-920	QKA	2.9	1	8.8	1	1.3	3	0.323	0	2.194	1	6.789	0	2180	38	2.0
50934.6	10000	41.5461	93.8709	-920	QKA	2.4	1	8.8	1	1.3	3	0.265	-1	1.801	0	6.805	-1	2164	41	2.0
50934.7	10000	41.5461	93.8700	-920	QKA	2.1	1	8.8	1	1.3	3	0.231	-2	1.598	-1	6.915	-1	2150	44	2.0
50934.8	10000	41.5461	93.8692	-921	QKA	2.3	1	8.8	1	1.3	3	0.248	-1	1.679	-1	6.756	-1	2140	28	2.0
50934.9	10000	41.5461	93.8683	-921	QKA	2.3	1	8.8	1	1.3	3	0.252	-1	1.586	-1	6.285	-1	2133	49	2.0
50935.0	10000	41.5461	93.8674	-922	QKA	2.3	1	8.8	1	1.3	3	0.245	-1	1.557	-1	6.359	-1	2114	39	2.0
50935.1	10000	41.5461	93.8665	-923	QKA	2.5	1	8.8	1	1.3	3	0.272	-1	1.718	-1	6.313	-1	2105	52	2.0
50935.2	10000	41.5461	93.8656	-924	QKA	2.5	1	8.8	1	1.3	3	0.288	-1	1.866	-1	6.486	-1	2091	35	2.0
50935.3	10000	41.5461	93.8647	-925	QKA	2.6	1	8.5	2	1.3	2	0.309	0	2.028	0	6.571	0	2083	36	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50935.4	10000	41.5461	93.8639	-926	QKA	2.6	0	8.3	2	1.3	1	0.310	0	2.044	0	6.590	0	2065	50	2.0
50935.5	10000	41.5461	93.8630	-927	QKA	2.6	0	8.5	2	1.2	1	0.303	-1	2.123	0	7.005	0	2052	52	2.1
50935.6	10000	41.5461	93.8621	-928	QKA	2.4	0	8.8	2	1.1	0	0.273	-1	2.123	0	7.783	1	2039	53	2.1
50935.7	10000	41.5462	93.8612	-929	QKA	2.5	0	9.0	2	1.1	0	0.281	-1	2.275	0	8.088	2	2036	43	2.1
50935.8	10000	41.5462	93.8603	-930	QKA	2.5	0	8.8	2	1.1	0	0.288	-1	2.214	0	7.688	1	2021	34	2.1
50935.9	10000	41.5462	93.8595	-931	QKA	2.5	0	8.9	2	1.2	1	0.277	-1	2.124	0	7.665	1	2018	51	2.1
50936.0	10000	41.5462	93.8586	-933	QKA	2.3	0	9.0	2	1.2	1	0.255	-1	1.978	-1	7.759	1	2011	47	2.1
50936.1	10000	41.5462	93.8577	-934	QKA	2.2	0	9.1	3	1.2	1	0.246	-1	1.831	-1	7.456	1	2015	35	2.1
50936.2	10000	41.5462	93.8568	-935	QKA	2.3	0	8.4	2	1.3	1	0.276	-1	1.806	-1	6.549	0	2023	47	2.1
50936.3	10000	41.5462	93.8559	-937	QKA	2.5	0	8.0	1	1.3	2	0.307	0	1.894	-1	6.167	-1	2032	48	2.1
50936.4	10000	41.5462	93.8551	-938	QKA	2.2	0	7.9	1	1.4	2	0.286	-1	1.663	-1	5.816	-1	2049	47	2.1
50936.5	10000	41.5462	93.8542	-938	QKA	2.2	0	8.2	1	1.4	2	0.266	-1	1.581	-1	5.954	-1	2064	44	2.1
50936.6	10000	41.5462	93.8533	-938	QKA	1.9	-1	8.2	1	1.4	2	0.226	-2	1.359	-2	6.018	-1	2056	48	2.1
50936.7	10000	41.5462	93.8524	-938	QKA	2.0	-1	8.2	1	1.3	2	0.250	-1	1.527	-1	6.097	-1	2049	46	2.1
50936.8	10000	41.5463	93.8515	-938	QKA	2.1	-1	8.1	1	1.3	1	0.253	-1	1.602	-1	6.324	0	2043	46	2.1
50936.9	10000	41.5463	93.8506	-939	QKA	2.0	-1	8.4	2	1.3	1	0.244	-1	1.624	-1	6.653	0	2051	48	2.1
50937.0	10000	41.5463	93.8498	-939	QKA	2.1	-1	8.7	2	1.2	1	0.240	-1	1.702	-1	7.084	0	2048	45	2.2
50937.1	10000	41.5463	93.8489	-938	QKA	2.2	0	8.7	2	1.2	1	0.258	-1	1.883	-1	7.310	1	2055	43	2.2
50937.2	10000	41.5463	93.8480	-938	QKA	2.1	-1	8.9	2	1.2	1	0.236	-1	1.802	-1	7.635	1	2066	47	2.2
50937.3	10000	41.5463	93.8471	-938	QKA	2.6	0	8.7	2	1.2	1	0.292	-1	2.142	0	7.334	1	2095	48	2.2
50937.4	10000	41.5463	93.8462	-937	QKA	2.4	0	8.5	2	1.2	1	0.284	-1	2.040	0	7.193	1	2098	40	2.2
50937.5	10000	41.5463	93.8454	-936	QO	2.4	1	8.3	3	1.2	1	0.289	-1	1.993	0	6.905	2	2098	38	2.2
50937.6	10000	41.5463	93.8445	-936	QO	2.3	0	8.3	3	1.2	1	0.278	-1	1.864	0	6.715	2	2071	48	2.2
50937.7	10000	41.5463	93.8436	-935	QO	2.4	1	7.7	2	1.2	1	0.307	-1	1.917	0	6.234	1	2055	33	2.2
50937.8	10000	41.5464	93.8427	-936	QO	2.6	1	7.5	2	1.2	1	0.344	0	2.109	0	6.131	1	2033	40	2.2
50937.9	10000	41.5464	93.8418	-937	QO	2.6	1	7.0	2	1.2	1	0.376	0	2.161	0	5.748	1	2003	22	2.2
50938.0	10000	41.5464	93.8410	-937	QO	2.6	1	7.2	2	1.2	1	0.355	0	2.076	0	5.840	1	2002	50	2.2
50938.1	10000	41.5464	93.8401	-938	QKA	2.7	1	7.5	2	1.3	1	0.361	0	2.121	0	5.878	-1	2020	45	2.2
50938.2	10000	41.5464	93.8392	-938	QKA	2.7	1	8.1	2	1.3	1	0.331	0	2.013	0	6.077	-1	2052	43	2.2
50938.3	10000	41.5464	93.8383	-939	QKA	2.9	1	8.2	2	1.3	1	0.356	0	2.310	0	6.486	0	2071	41	2.2
50938.4	10000	41.5464	93.8374	-940	QKA	2.8	1	8.3	3	1.3	1	0.330	0	2.043	0	6.184	-1	2091	41	2.2
50938.5	10000	41.5464	93.8365	-941	QKA	2.6	1	8.3	3	1.4	1	0.313	0	1.916	-1	6.124	-1	2093	58	2.2
50938.6	10000	41.5464	93.8357	-942	QKA	2.6	1	8.3	3	1.3	1	0.320	-1	1.962	-1	6.131	-1	2109	46	2.2
50938.7	10000	41.5464	93.8348	-943	QKA	2.5	1	8.0	3	1.4	1	0.314	-1	1.831	-1	5.833	-1	2092	42	2.2
50938.8	10000	41.5464	93.8339	-944	QKA	2.5	1	7.5	3	1.3	1	0.338	-1	1.898	-1	5.614	-1	2095	52	2.1
50938.9	10000	41.5464	93.8330	-945	QKA	2.6	1	7.1	3	1.3	1	0.371	-1	1.992	-1	5.365	-2	2079	55	2.1
50939.0	10000	41.5465	93.8322	-946	QKA	2.3	1	7.3	3	1.3	2	0.317	-1	1.764	-1	5.563	-1	2079	46	2.1
50939.1	10000	41.5465	93.8313	-948	QKA	2.4	1	7.7	3	1.3	2	0.307	-1	1.886	-1	6.134	-1	2077	39	2.1
50939.2	10000	41.5465	93.8304	-948	QKA	2.7	1	7.9	3	1.3	2	0.335	0	2.134	0	6.362	0	2079	38	2.1
50939.3	10000	41.5465	93.8295	-949	QKA	2.5	1	7.7	3	1.3	2	0.321	-1	1.950	-1	6.084	-1	2062	48	2.1
50939.4	10000	41.5465	93.8286	-946	QKA	2.6	1	7.6	3	1.3	2	0.347	0	2.178	0	6.269	-1	2053	42	2.1
50939.5	10000	41.5465	93.8277	-947	QKA	2.8	1	7.7	3	1.3	2	0.358	0	2.270	0	6.344	0	2030	36	2.1
50939.6	10000	41.5465	93.8269	-947	QKA	3.0	1	7.5	3	1.2	2	0.393	0	2.520	0	6.405	0	2011	40	2.1
50939.7	10000	41.5465	93.8260	-948	QKA	3.3	1	7.1	3	1.2	2	0.460	0	2.754	0	5.981	-1	1992	36	2.1
50948.9	10000	41.5465	93.8247	-954	QKA	2.7	1	8.4	3	1.2	2	0.318	0	2.382	0	7.479	1	2010	57	2.0
50949.0	10000	41.5465	93.8239	-954	QKA	2.6	1	8.2	3	1.2	2	0.316	0	2.274	0	7.201	1	2022	44	2.0
50949.1	10000	41.5465	93.8230	-955	QKA	2.6	1	8.0	3	1.2	2	0.315	0	2.202	0	6.995	1	2028	40	2.0
50949.2	10000	41.5465	93.8221	-954	QKA	2.8	1	8.0	3	1.2	2	0.350	0	2.351	0	6.726	1	2039	33	2.0
50949.3	10000	41.5465	93.8213	-954	QKA	2.9	1	7.9	3	1.2	2	0.330	0	2.355	0	7.131	1	2073	39	2.0
50949.4	10000	41.5465	93.8204	-954	QKA	2.7	1	7.6	3	1.3	2	0.304	0	2.068	0	6.814	0	2100	40	2.0
50949.5	10000	41.5465	93.8195	-954	QKA	2.6	1	7.4	3	1.4	2	0.307	0	1.960	-1	6.374	0	2105	44	2.0
50949.6	10000	41.5466	93.8187	-954	QKA	2.6	0	8.2	2	1.5	3	0.318	0	1.790	-1	5.636	-1	2100	50	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50949.7	10000	41.5466	93.8178	-953	QKA	2.6	0	8.3	2	1.4	3	0.316	0	1.824	-1	5.770	-1	2092	43	2.0
50949.8	10000	41.5466	93.8170	-953	QKA	2.7	0	8.3	2	1.4	3	0.323	0	1.858	-1	5.753	-1	2096	47	2.0
50949.9	10000	41.5466	93.8161	-953	QKA	2.5	1	8.2	1	1.4	2	0.307	0	1.811	-1	5.895	-1	2087	48	2.0
50950.0	10000	41.5466	93.8152	-953	QKA	2.8	1	7.6	1	1.4	2	0.366	0	2.021	0	5.518	-1	2063	35	2.0
50950.1	10000	41.5466	93.8144	-952	QKA	2.8	1	7.5	0	1.3	2	0.408	1	2.348	0	5.760	-1	2048	43	2.0
50950.2	10000	41.5466	93.8135	-952	QKA	2.7	1	7.5	0	1.3	1	0.405	1	2.407	0	5.939	-1	2028	54	2.0
50950.3	10000	41.5466	93.8127	-952	QKA	2.5	2	7.6	1	1.2	-1	0.416	1	2.666	1	6.415	0	2032	48	2.0
50950.4	10000	41.5466	93.8118	-953	QKA	2.2	2	7.4	0	1.1	0	0.437	1	2.809	1	6.434	0	2013	50	2.0
50950.5	10000	41.5466	93.8109	-953	QKA	2.4	2	7.5	0	1.1	0	0.450	2	3.023	2	6.712	0	1989	50	2.0
50950.6	10000	41.5466	93.8101	-953	QKA	2.3	2	7.6	1	1.1	0	0.427	2	3.056	2	7.158	1	1969	44	2.0
50950.7	10000	41.5466	93.8092	-953	QKA	2.0	1	8.0	1	1.0	-1	0.371	0	2.954	1	7.954	2	1971	39	2.0
50950.8	10000	41.5466	93.8083	-953	QKA	1.9	2	8.4	2	1.0	-1	0.348	0	2.902	1	8.338	2	1968	39	2.0
50950.9	10000	41.5466	93.8075	-953	QKA	2.4	2	8.4	2	1.0	0	0.407	1	3.341	2	8.203	2	1988	50	2.0
50951.0	10000	41.5466	93.8066	-953	QKA	2.2	2	8.5	2	1.0	0	0.372	0	3.123	2	8.388	2	1984	40	2.0
50951.1	10000	41.5466	93.8057	-953	QKA	2.4	2	9.0	2	1.0	0	0.372	0	3.262	2	8.771	3	2016	33	1.9
50951.2	10000	41.5466	93.8049	-952	QKA	2.1	2	8.8	2	1.0	0	0.355	0	3.070	2	8.658	2	2028	55	1.9
50951.3	10000	41.5466	93.8040	-952	QKA	2.3	2	9.0	2	1.1	0	0.363	0	2.921	1	8.049	2	2043	41	1.9
50951.4	10000	41.5466	93.8031	-952	QKA	2.3	2	9.1	3	1.2	1	0.370	0	2.836	1	7.670	1	2045	38	1.9
50951.5	10000	41.5466	93.8023	-952	QKA	2.3	2	8.8	2	1.2	1	0.405	1	2.880	1	7.119	1	2013	43	1.9
50951.6	10000	41.5466	93.8014	-952	QKA	2.3	2	8.8	2	1.1	1	0.380	1	2.815	1	7.412	1	1971	51	1.9
50951.7	10000	41.5466	93.8006	-952	QKA	2.3	2	8.7	2	1.1	1	0.403	1	3.004	2	7.452	1	1944	39	1.9
50951.8	10000	41.5466	93.7997	-952	QKA	2.0	1	7.8	2	1.1	1	0.386	1	2.823	1	7.306	1	1900	42	1.9
50951.9	10000	41.5466	93.7988	-952	QKA	2.1	1	7.8	1	1.1	1	0.392	1	2.814	1	7.174	1	1878	44	1.9
50952.0	10000	41.5466	93.7980	-951	QKA	1.9	1	8.4	2	1.0	0	0.347	0	2.856	1	8.225	2	1865	36	1.9
50952.1	10000	41.5466	93.7971	-951	QKA	1.9	1	8.4	2	1.0	0	0.346	0	2.842	1	8.215	2	1883	44	1.9
50952.2	10000	41.5466	93.7962	-951	QKA	2.2	1	8.7	2	1.1	0	0.365	0	2.908	1	7.976	2	1940	50	1.9
50952.3	10000	41.5466	93.7954	-951	QKA	2.1	2	8.8	2	1.1	0	0.348	0	2.676	1	7.693	1	1994	53	1.9
50952.4	10000	41.5466	93.7945	-952	QKA	2.2	2	8.8	2	1.2	1	0.364	0	2.711	1	7.449	1	2023	55	1.9
50952.5	10000	41.5466	93.7937	-951	QKA	2.2	2	8.7	2	1.2	1	0.371	0	2.621	1	7.062	0	2044	40	1.9
50952.6	10000	41.5466	93.7928	-951	QKA	2.2	2	8.6	2	1.3	1	0.368	0	2.478	1	6.733	0	2062	46	1.9
50952.7	10000	41.5466	93.7919	-951	QKA	2.3	2	7.8	2	1.3	1	0.424	1	2.464	1	5.814	-1	2091	47	1.9
50952.8	10000	41.5466	93.7911	-951	QKA	2.3	2	7.8	2	1.3	1	0.427	1	2.462	1	5.769	-1	2101	48	1.9
50952.9	10000	41.5466	93.7902	-950	QKA	2.2	2	8.2	2	1.3	1	0.392	1	2.460	1	6.282	-1	2113	43	1.9
50953.0	10000	41.5466	93.7894	-953	QKA	2.6	3	8.0	2	1.4	2	0.454	1	2.676	1	5.895	-1	2128	37	1.9
50953.1	10000	41.5466	93.7885	-950	QKA	2.6	3	7.9	2	1.4	2	0.459	1	2.592	1	5.644	-1	2152	43	1.9
50953.2	10000	41.5466	93.7876	-951	QKA	2.8	3	8.4	2	1.4	2	0.455	1	2.684	1	5.902	-1	2195	33	1.9
50953.3	10000	41.5466	93.7868	-950	QKA	2.8	3	8.8	2	1.3	2	0.434	1	2.839	1	6.539	0	2212	46	1.9
50953.4	10000	41.5466	93.7859	-950	QKA	2.9	3	9.0	2	1.3	2	0.434	1	2.996	1	6.902	0	2216	46	1.9
50953.5	10000	41.5466	93.7850	-950	QKA	4.3	4	8.6	2	1.3	1	0.507	2	3.394	2	6.700	0	2223	45	1.9
50953.6	10000	41.5467	93.7842	-950	QKA	4.4	4	8.0	2	1.3	1	0.548	2	3.432	2	6.262	-1	2208	53	1.9
50953.7	10000	41.5467	93.7833	-949	QKA	4.2	4	8.0	2	1.3	1	0.523	2	3.373	2	6.449	0	2186	45	1.9
50953.8	10000	41.5467	93.7824	-950	QKA	4.4	4	8.1	2	1.3	1	0.547	2	3.774	2	6.896	0	2165	32	1.9
50953.9	10000	41.5466	93.7816	-949	QKA	4.4	4	8.0	2	1.3	1	0.547	2	3.770	2	6.894	0	2147	43	1.9
50954.0	10000	41.5467	93.7807	-949	QKA	4.4	4	7.6	2	1.3	1	0.581	2	3.820	2	6.571	0	2137	48	1.9
50954.1	10000	41.5467	93.7799	-949	QKA	4.1	4	7.3	2	1.3	1	0.565	2	3.486	2	6.174	-1	2121	45	1.9
50954.2	10000	41.5467	93.7790	-949	QKA	3.7	3	7.7	2	1.3	1	0.475	2	2.881	1	6.063	-1	2101	62	1.9
50954.3	10000	41.5467	93.7781	-949	QKA	3.6	3	7.6	2	1.3	1	0.467	2	2.746	1	5.874	-1	2084	49	1.9
50954.4	10000	41.5467	93.7773	-948	QKA	3.2	3	8.1	2	1.3	1	0.391	2	2.457	1	6.285	-1	2053	47	1.9
50954.5	10000	41.5467	93.7764	-948	QKA	2.9	2	7.8	2	1.3	1	0.369	2	2.225	1	6.037	-1	2036	37	1.9
50954.6	10000	41.5467	93.7755	-948	QKA	2.7	1	7.5	2	1.3	1	0.363	2	2.060	1	5.675	-1	2026	45	1.9
50954.7	10000	41.5467	93.7747	-948	QKA	3.0	1	7.9	2	1.3	1	0.378	2	2.261	1	5.981	-1	2036	46	1.9
50954.8	10000	41.5467	93.7738	-949	QKA	5.4	2	8.1	1	1.3	2	0.414	1	2.533	1	6.125	-1	2050	54	1.9

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50954.9	10000	41.5467	93.7729	-949	QKA	3.3	2	8.1	1	1.3	2	0.409	1	2.560	1	6.255	-1	2077	42	1.9
50955.0	10000	41.5467	93.7721	-949	QKA	3.0	1	8.1	1	1.3	1	0.376	1	2.428	0	6.459	0	2081	37	1.9
50955.1	10000	41.5467	93.7712	-948	QKA	3.4	2	7.8	1	1.3	1	0.441	2	2.704	1	6.126	-1	2118	45	1.9
50955.2	10000	41.5467	93.7704	-945	QKA	3.2	2	8.4	2	1.3	2	0.381	1	2.415	0	6.347	0	2153	44	1.9
50955.3	10000	41.5467	93.7695	-945	QKA	3.5	2	8.3	2	1.3	2	0.418	1	2.640	1	6.308	0	2162	51	1.9
50955.4	10000	41.5467	93.7686	-947	QKA	3.4	2	7.9	1	1.3	2	0.430	1	2.571	1	5.977	-1	2140	44	1.9
50955.5	10000	41.5467	93.7678	-948	QKA	3.2	2	7.7	1	1.3	2	0.423	1	2.421	0	5.729	-1	2119	40	1.9
50955.6	10000	41.5467	93.7669	-948	QKA	3.4	2	7.5	0	1.3	2	0.452	2	2.550	1	5.640	-1	2105	38	1.9
50955.7	10000	41.5467	93.7661	-949	QKA	3.5	2	7.8	1	1.4	2	0.442	2	2.474	0	5.601	-1	2110	47	2.0
50955.8	10000	41.5467	93.7652	-949	QKA	3.4	2	7.9	1	1.4	2	0.431	1	2.481	0	5.752	-1	2104	64	2.0
50955.9	10000	41.5467	93.7643	-949	QKA	3.6	2	7.7	1	1.3	2	0.468	2	2.698	1	5.765	-1	2094	48	2.0
50956.0	10000	41.5467	93.7635	-949	QKA	3.4	2	8.4	2	1.3	2	0.411	1	2.606	1	6.345	0	2097	41	2.0
50956.1	10000	41.5467	93.7626	-949	QKA	3.0	1	8.8	2	1.4	2	0.345	0	2.234	0	6.478	0	2124	50	2.0
50956.2	10000	41.5467	93.7617	-949	QKA	2.9	1	9.0	2	1.4	2	0.323	0	2.121	0	6.575	0	2137	48	2.0
50956.3	10000	41.5467	93.7609	-949	QKA	2.8	1	9.2	2	1.4	2	0.299	-1	2.030	0	6.798	0	2120	41	2.0
50956.4	10000	41.5467	93.7600	-949	QKA	2.6	1	9.0	2	1.3	2	0.293	-1	1.961	-1	6.681	0	2092	39	2.0
50956.5	10000	41.5467	93.7591	-948	QKA	2.5	1	8.7	2	1.3	2	0.285	-1	1.859	-1	6.526	0	2058	43	2.0
50956.6	10000	41.5467	93.7583	-948	QKA	2.2	1	8.4	2	1.3	2	0.260	-1	1.662	-1	6.389	0	2015	37	2.0
50956.7	10000	41.5467	93.7574	-948	QKA	1.9	1	7.8	1	1.3	2	0.245	-1	1.453	-2	5.941	-1	1973	49	2.0
50956.8	10000	41.5467	93.7566	-949	QKA	2.0	1	7.3	1	1.3	1	0.279	-1	1.624	-1	5.817	-1	1937	42	2.0
50956.9	10000	41.5467	93.7557	-949	QKA	2.4	1	7.2	0	1.2	1	0.329	0	2.041	0	6.208	-1	1889	49	2.0
50957.0	10000	41.5467	93.7548	-950	QKA	2.5	1	6.8	0	1.1	0	0.367	0	2.219	0	6.042	-1	1867	43	2.0
50957.1	10000	41.5467	93.7540	-950	QKA	2.8	1	6.6	0	1.1	0	0.419	1	2.610	1	6.226	-1	1859	41	2.0
50957.2	10000	41.5467	93.7531	-949	QKA	2.9	1	6.4	-1	1.0	0	0.456	2	2.900	1	6.358	0	1866	51	2.0
50957.3	10000	41.5467	93.7522	-949	QKA	3.3	2	6.4	-1	1.0	-1	0.516	3	3.361	2	6.518	0	1875	63	2.0
50957.4	10000	41.5467	93.7514	-948	QKA	3.7	2	6.3	-1	1.0	-1	0.586	4	3.847	3	6.567	0	1901	51	2.0
50957.5	10000	41.5467	93.7505	-948	QO	3.8	2	6.2	-1	0.9	-1	0.614	2	3.996	3	6.507	1	1921	45	2.1
50957.6	10000	41.5467	93.7496	-949	QO	3.7	2	6.5	-1	1.0	0	0.569	2	3.688	2	6.486	1	1974	32	2.1
50957.7	10000	41.5467	93.7488	-948	QO	3.9	2	6.6	-1	1.0	0	0.596	2	3.759	3	6.302	1	2007	50	2.1
50957.8	10000	41.5467	93.7479	-948	QO	3.9	2	6.9	-1	1.1	0	0.559	2	3.646	2	6.521	1	2041	47	2.1
50957.9	10000	41.5467	93.7471	-948	QO	3.4	3	7.5	2	1.2	1	0.460	1	2.994	1	6.502	1	2061	58	2.1
50958.0	10000	41.5467	93.7462	-948	QO	3.4	3	7.6	2	1.2	1	0.448	1	2.889	1	6.447	1	2075	39	2.1
50958.1	10000	41.5467	93.7453	-948	QO	3.7	3	7.5	2	1.1	1	0.492	2	3.287	2	6.680	2	2057	36	2.1
50958.2	10000	41.5467	93.7445	-947	QO	3.9	4	7.4	2	1.1	0	0.518	2	3.559	2	6.865	2	2020	44	2.1
50958.3	10000	41.5467	93.7436	-947	QO	3.5	3	7.1	1	1.1	0	0.495	2	3.295	2	6.654	2	1961	38	2.1
50958.4	10000	41.5467	93.7428	-947	QO	3.3	2	6.9	1	1.0	0	0.476	2	3.260	2	6.855	2	1900	41	2.1
50958.5	10000	41.5467	93.7419	-946	QO	3.1	2	6.8	1	1.0	0	0.459	2	3.216	2	7.002	2	1860	48	2.1
50958.6	10000	41.5467	93.7410	-948	QO	3.1	2	6.2	1	1.0	-1	0.507	2	3.282	2	6.472	1	1819	40	2.1
50958.7	10000	41.5468	93.7402	-946	QO	3.0	2	5.9	0	1.0	0	0.497	2	2.987	1	6.011	1	1785	49	2.1
50958.8	10000	41.5468	93.7393	-946	QO	2.5	1	6.1	1	1.0	0	0.403	1	2.441	1	6.060	1	1737	54	2.2
50958.9	10000	41.5468	93.7384	-945	QO	2.0	1	5.7	0	1.0	0	0.343	0	1.919	0	5.595	0	1688	49	2.2
50959.0	10000	41.5467	93.7376	-946	QO	1.9	0	5.2	0	1.0	0	0.371	0	1.966	0	5.303	0	1618	45	2.2
50959.2	10000	41.5468	93.7358	-946	QO	1.8	0	4.7	-1	0.9	-1	0.393	0	2.034	0	5.175	0	1517	42	2.2
50959.3	10000	41.5468	93.7350	-946	QO	1.8	-1	3.9	-1	0.8	-2	0.451	0	2.263	0	5.013	0	1384	50	2.2
50959.4	10000	41.5468	93.7341	-946	QO	1.8	-1	3.5	-2	0.6	-2	0.516	0	2.794	1	5.418	0	1242	42	2.2
50959.5	10000	41.5468	93.7333	-946	QO	1.6	-1	2.6	-2	0.5	-4	0.604	2	3.365	2	5.570	0	1094	39	2.2
50959.6	10000	41.5468	93.7324	-946	QO	1.5	-1	1.9	-3	0.3	-4	0.788	2	4.591	4	5.827	1	961	32	2.2
50959.7	10000	41.5468	93.7315	-947	QO	1.7	-1	1.6	-3	0.2	-5	1.053	3	8.925	10	8.479	4	853	51	2.2
50959.8	10100	41.5468	93.7307	-948	QO	1.5	-1	1.4	-4	0.1	-6	1.032	5	12.691	16	0.000	-6	794	37	2.2
50959.9	10100	41.5468	93.7298	-948	QO	1.3	-2	1.7	-3	0.1	-6	0.725	3	9.499	11	0.000	-6	804	40	2.2
50960.0	10100	41.5468	93.7289	-948	QO	1.3	-1	1.6	-3	0.1	-5	0.820	3	8.980	10	0.000	-6	831	42	2.2
50960.1	10000	41.5468	93.7281	-948	QO	1.4	-1	1.8	-3	0.2	-5	0.791	3	8.539	10	10.790	6	871	37	2.2

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50960.2	10000	41.5468	93.7272	-948	QO	1.6	-1	2.0	-3	0.2	-5	0.773	3	6.734	6	8.194	3	933	49	2.2
50960.3	10000	41.5468	93.7263	-949	QO	1.7	-1	2.0	-3	0.4	-4	0.852	4	4.631	4	5.438	0	1006	37	2.3
50960.4	10000	41.5468	93.7255	-949	QO	1.6	-1	2.1	-3	0.5	-4	0.765	3	3.369	2	4.403	-1	1070	45	2.3
50960.5	10000	41.5468	93.7246	-950	QO	1.8	-1	2.1	-3	0.5	-3	0.837	4	3.516	2	4.203	-1	1101	46	2.3
50960.6	10000	41.5468	93.7238	-950	QO	2.0	0	2.1	-3	0.5	-3	0.940	4	3.814	3	4.056	-1	1127	53	2.3
50960.7	10000	41.5468	93.7229	-951	QO	1.9	0	2.4	-3	0.6	-3	0.800	3	3.200	2	4.002	-1	1183	49	2.3
50960.8	10000	41.5468	93.7220	-951	QO	1.8	0	2.6	-2	0.7	-2	0.697	2	2.773	1	3.977	-1	1241	42	2.3
50960.9	10000	41.5468	93.7212	-952	QO	1.7	-1	3.2	-2	0.7	-2	0.535	1	2.436	1	4.551	-1	1290	28	2.3
50961.0	10000	41.5468	93.7203	-953	QO	1.7	-1	3.5	-2	0.7	-2	0.495	1	2.369	0	4.790	-1	1329	43	2.3
50961.1	10000	41.5468	93.7195	-953	QO	1.8	-1	4.0	-1	0.8	-2	0.444	1	2.328	0	5.238	0	1386	42	2.3
50961.2	10000	41.5468	93.7186	-954	QO	1.7	-1	4.5	-1	0.9	-1	0.369	0	1.933	0	5.242	0	1455	50	2.3
50961.3	10000	41.5468	93.7177	-954	QK	1.6	-2	4.6	-1	0.9	-2	0.337	0	1.772	-1	5.251	-2	1483	43	2.3
50961.4	10000	41.5468	93.7169	-955	QK	1.6	-2	4.9	-1	0.9	-2	0.329	0	1.771	-1	5.378	-2	1528	52	2.3
50961.5	10000	41.5468	93.7160	-956	QK	1.8	-1	5.0	-1	0.9	-2	0.361	0	1.951	-1	5.412	-2	1571	40	2.3
50961.6	10000	41.5468	93.7151	-957	QK	2.1	-1	4.8	-1	0.9	-2	0.429	1	2.246	0	5.237	-2	1631	32	2.3
50961.7	10000	41.5468	93.7143	-958	QK	2.5	0	5.1	-1	0.9	-2	0.499	2	2.813	1	5.634	-1	1679	40	2.3
50961.8	10000	41.5468	93.7134	-959	QK	2.5	0	5.3	-1	0.9	-2	0.471	2	2.760	1	5.857	-1	1722	51	2.3
50961.9	10000	41.5468	93.7126	-960	QK	2.8	1	5.7	-1	0.8	-2	0.489	2	3.279	2	6.701	0	1750	41	2.3
50962.0	10000	41.5468	93.7117	-961	QK	3.0	1	5.8	-2	0.9	-2	0.517	2	3.404	2	6.586	0	1799	44	2.3
50962.1	10000	41.5468	93.7109	-962	QK	2.9	1	6.0	-2	0.9	-2	0.488	2	3.129	2	6.408	0	1823	40	2.3
50962.2	10000	41.5468	93.7100	-963	QK	2.7	0	6.2	-1	1.0	-1	0.431	1	2.801	1	6.507	0	1828	44	2.3
50962.3	10000	41.5469	93.7092	-964	QK	2.7	0	6.7	-1	1.0	-1	0.400	1	2.752	1	6.885	1	1826	51	2.3
50962.4	10000	41.5469	93.7083	-965	QK	2.1	-1	6.8	-1	0.9	-2	0.314	-1	2.278	0	7.251	1	1822	33	2.3
50962.5	10000	41.5469	93.7075	-965	QK	2.3	0	6.8	-1	0.9	-1	0.342	0	2.470	0	7.227	1	1814	53	2.4
50962.6	10000	41.5469	93.7066	-967	QK	2.4	0	6.5	-1	0.9	-2	0.372	0	2.595	1	6.978	1	1812	58	2.4
50962.7	10000	41.5469	93.7058	-968	QK	2.3	0	6.4	-1	0.9	-2	0.363	0	2.485	0	6.852	1	1795	48	2.4
50962.8	10000	41.5469	93.7049	-969	QK	2.4	0	6.4	-1	0.9	-2	0.379	0	2.775	1	7.329	1	1778	44	2.4
50962.9	10000	41.5469	93.7041	-969	QK	2.6	0	6.5	-1	0.9	-2	0.400	0	2.832	1	7.077	1	1790	51	2.4
50963.0	10000	41.5469	93.7032	-970	QK	2.5	0	6.5	-1	0.9	-1	0.389	0	2.671	1	6.863	1	1800	54	2.4
50963.1	10000	41.5469	93.7024	-971	QK	2.7	0	6.6	-1	1.0	-1	0.407	1	2.556	0	6.275	1	1833	53	2.4
50963.2	10000	41.5469	93.7015	-972	QK	2.7	0	6.8	-1	1.0	-1	0.403	1	2.625	0	6.508	1	1845	53	2.4
50963.3	10000	41.5469	93.7007	-973	QK	2.6	0	6.8	-1	1.1	-1	0.382	0	2.316	-1	6.068	1	1868	48	2.4
50963.4	10000	41.5469	93.6998	-974	QK	2.5	0	7.2	-1	1.2	-1	0.352	0	2.186	0	6.210	1	1904	58	2.4
50963.5	10000	41.5469	93.6990	-975	QK	2.5	0	7.0	-1	1.2	-1	0.358	0	2.157	-1	6.031	1	1909	40	2.4
50963.6	10000	41.5469	93.6981	-976	QK	2.4	0	7.2	-1	1.1	-1	0.332	0	2.120	0	6.385	1	1914	46	2.4
50963.7	10000	41.5470	93.6973	-977	QK	2.6	-1	6.8	-1	1.2	-1	0.382	0	2.246	-1	5.878	1	1911	54	2.4
50963.8	10000	41.5470	93.6964	-979	QK	2.7	-1	6.6	-1	1.1	-1	0.406	1	2.465	-1	6.072	1	1891	47	2.4
50963.9	10000	41.5470	93.6956	-979	QK	2.6	-1	6.3	-1	1.1	-1	0.408	1	2.310	-1	5.668	1	1919	37	2.4
50964.0	10000	41.5470	93.6947	-980	QK	2.4	0	6.9	-1	1.1	-1	0.340	0	2.116	0	6.223	1	1937	46	2.4
50964.1	10000	41.5470	93.6939	-981	QK	2.4	0	7.0	-1	1.1	-1	0.339	0	2.071	0	6.207	1	1978	54	2.4
50964.2	10000	41.5470	93.6930	-981	QK	2.1	0	7.4	-1	1.2	-1	0.279	-1	1.706	-1	6.121	1	2035	40	2.4
50964.3	10000	41.5470	93.6922	-982	QK	2.5	0	7.6	-1	1.2	-1	0.325	0	1.999	-1	6.157	1	2064	44	2.4
50964.4	10000	41.5470	93.6913	-982	QK	2.4	0	8.2	-1	1.2	-1	0.298	-1	1.965	-1	6.599	1	2101	43	2.4
50964.5	10000	41.5470	93.6905	-982	QK	2.4	0	8.3	-1	1.3	-1	0.285	-1	1.805	-1	6.333	1	2142	51	2.4
50964.6	10000	41.5470	93.6896	-982	QK	2.1	-1	8.5	-1	1.3	-1	0.253	-1	1.591	-1	6.291	1	2134	48	2.4
50964.7	10000	41.5470	93.6888	-982	QK	2.3	0	8.3	-1	1.4	-1	0.280	-1	1.701	-1	6.065	1	2155	55	2.4
50964.8	10000	41.5470	93.6879	-982	QK	2.5	0	8.5	-1	1.4	-1	0.289	-1	1.803	-1	6.239	1	2134	49	2.4
50964.9	10000	41.5470	93.6871	-981	QO	2.6	0	8.7	-1	1.4	-1	0.301	-1	1.913	-1	6.362	1	2130	39	2.4
50965.0	10000	41.5471	93.6862	-982	QO	2.3	0	8.7	-1	1.4	-1	0.266	-1	1.647	-1	6.195	1	2141	49	2.4
50965.1	10000	41.5471	93.6854	-982	QO	2.1	0	8.8	-1	1.4	-1	0.244	-1	1.532	-1	6.271	1	2142	46	2.4
50965.2	10000	41.5471	93.6845	-983	QO	2.0	0	8.8	-1	1.4	-1	0.227	-1	1.444	-1	6.369	1	2141	39	2.4
50965.3	10000	41.5471	93.6837	-985	QO	2.3	0	8.7	-1	1.4	-2	0.265	-1	1.706	-1	6.426	1	2144	46	2.4

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50965.4	10000	41.5471	93.6828	-986	QO	2.4	1	8.0	2	1.3	2	0.306	-1	1.847	0	6.034	1	2113	55	2.4
50965.5	10000	41.5471	93.6820	-987	QO	2.6	1	7.3	2	1.2	1	0.362	0	2.119	0	5.846	1	2087	39	2.4
50965.6	10000	41.5471	93.6811	-987	QO	2.8	1	6.6	1	1.2	1	0.422	0	2.327	0	5.509	0	2047	48	2.4
50965.7	10000	41.5471	93.6803	-987	QO	2.9	2	6.1	1	1.1	1	0.468	1	2.500	1	5.344	0	1998	48	2.4
50965.8	10000	41.5471	93.6794	-989	QK	2.8	1	5.9	-2	1.1	0	0.482	2	2.573	1	5.338	-2	1955	46	2.4
50965.9	10000	41.5471	93.6786	-991	QK	3.0	1	5.8	-2	1.1	0	0.515	2	2.785	1	5.407	-2	1921	52	2.4
50966.0	10000	41.5471	93.6777	-992	QK	2.9	1	6.0	-2	1.1	0	0.481	2	2.723	1	5.658	-1	1891	44	2.4
50966.1	10000	41.5471	93.6768	-994	QK	3.0	1	6.6	-1	1.1	0	0.453	1	2.729	1	6.018	-1	1889	48	2.4
50966.2	10000	41.5471	93.6760	-995	QK	2.7	0	7.0	0	1.1	0	0.383	0	2.362	0	6.162	0	1895	29	2.4
50966.3	10000	41.5471	93.6752	-995	QK	2.8	1	7.0	0	1.2	0	0.396	0	2.389	0	6.034	-1	1914	46	2.4
50966.4	10000	41.5471	93.6743	-996	QK	2.8	1	7.3	1	1.2	1	0.384	0	2.333	0	6.067	-1	1954	47	2.4
50966.5	10000	41.5472	93.6734	-996	QK	2.8	1	7.7	1	1.2	1	0.360	0	2.321	0	6.452	0	1982	46	2.4
50966.6	10000	41.5472	93.6726	-996	QK	2.8	1	7.7	1	1.2	1	0.367	0	2.356	0	6.426	0	2011	51	2.4
50966.7	10000	41.5472	93.6718	-996	QK	2.7	1	7.5	0	1.2	1	0.364	0	2.268	0	6.229	0	2038	42	2.4
50966.8	10000	41.5472	93.6709	-996	QK	2.4	1	7.2	0	1.3	1	0.324	-1	1.879	-1	5.790	-1	2055	50	2.4
50966.9	10000	41.5472	93.6700	-997	QK	2.7	1	7.3	0	1.2	1	0.371	0	2.165	0	5.842	-1	2073	38	2.4
50967.0	10000	41.5472	93.6692	-997	QK	2.6	0	7.3	0	1.2	1	0.351	0	2.155	0	6.132	-1	2075	53	2.4
50967.1	10000	41.5472	93.6684	-999	QK	2.7	1	7.2	0	1.3	1	0.377	0	2.240	0	5.936	-1	2062	32	2.4
50967.2	10000	41.5472	93.6675	-999	QK	3.1	1	7.2	0	1.3	1	0.430	1	2.476	0	5.755	-1	2086	40	2.4
50967.3	10000	41.5472	93.6666	-999	QK	2.9	1	7.4	0	1.2	1	0.399	1	2.386	0	5.982	-1	2087	45	2.4
50967.4	10000	41.5472	93.6658	-1000	QK	3.1	2	7.6	0	1.2	1	0.403	1	2.467	0	6.116	-1	2092	39	2.4
50967.5	10000	41.5472	93.6649	-999	QK	3.6	2	7.8	1	1.2	1	0.458	1	2.940	1	6.419	0	2102	51	2.4
50967.6	10000	41.5472	93.6641	-1000	QK	3.5	2	7.8	1	1.3	1	0.450	1	2.767	1	6.149	0	2106	48	2.4
50967.7	10000	41.5472	93.6633	-999	QK	3.7	2	7.8	1	1.2	1	0.476	2	2.977	1	6.254	0	2102	40	2.4
50967.8	10000	41.5473	93.6624	-998	QK	3.6	2	8.2	1	1.2	1	0.443	1	3.017	2	6.803	0	2114	39	2.4
50967.9	10000	41.5473	93.6615	-995	QK	3.5	2	7.8	1	1.1	1	0.444	1	3.164	2	7.118	1	2060	48	2.4
50968.0	10000	41.5473	93.6607	-994	QK	3.4	2	7.7	1	1.1	1	0.446	2	3.048	2	6.836	1	2030	41	2.4
50968.1	10000	41.5473	93.6599	-992	QK	3.4	2	7.1	0	1.1	0	0.481	2	3.078	2	6.398	0	1992	41	2.4
50968.2	10000	41.5473	93.6590	-991	QK	3.1	1	7.0	0	1.0	-1	0.444	1	2.989	2	6.730	0	1958	44	2.4
50968.3	10000	41.5473	93.6581	-990	QK	2.9	1	7.0	0	1.0	-1	0.419	1	2.888	1	6.895	-1	1920	45	2.4
50968.4	10000	41.5473	93.6573	-989	QK	2.8	1	6.9	0	1.1	0	0.404	1	2.621	1	6.485	0	1917	48	2.4
50968.5	10000	41.5473	93.6564	-988	CULTRL	2.5	999	6.5	999	1.1	999	0.388	999	2.329	999	6.003	999	1880	52	2.4
50968.6	10000	41.5473	93.6556	-988	CULTRL	2.5	999	6.6	999	1.2	999	0.376	999	2.155	999	5.736	999	1875	45	2.4
50968.7	10000	41.5473	93.6547	-987	CULTRL	2.5	999	6.7	999	1.1	999	0.372	999	2.178	999	5.852	999	1894	50	2.4
50968.8	10000	41.5473	93.6539	-986	CULTRL	2.5	999	7.4	999	1.2	999	0.334	999	2.116	999	6.334	999	1915	35	2.4
50968.9	10000	41.5473	93.6530	-987	CULTRL	2.4	999	7.5	999	1.2	999	0.315	999	1.943	999	6.172	999	1922	38	2.4
50969.0	10000	41.5473	93.6522	-988	CULTRL	2.5	999	7.6	999	1.2	999	0.329	999	2.089	999	6.344	999	1940	40	2.5
50969.1	10000	41.5473	93.6513	-989	CULTRL	2.5	999	7.9	999	1.1	999	0.317	999	2.216	999	6.991	999	1931	46	2.5
50969.2	10000	41.5473	93.6505	-988	CULTRL	2.8	999	7.9	999	1.1	999	0.354	999	2.593	999	7.334	999	1934	44	2.5
50969.3	10000	41.5474	93.6496	-986	CULTRL	2.5	999	7.5	999	1.1	999	0.338	999	2.371	999	7.014	999	1943	43	2.5
50969.4	10000	41.5474	93.6488	-981	CULTRL	2.7	999	7.2	999	1.0	999	0.374	999	2.578	999	6.888	999	1901	31	2.5
50969.5	10000	41.5474	93.6479	-979	CULTRL	2.8	999	7.0	999	1.0	999	0.405	999	2.735	999	6.747	999	1876	33	2.5
50969.6	10000	41.5474	93.6471	-981	CULTRL	3.1	999	6.7	999	1.0	999	0.466	999	3.207	999	6.887	999	1868	47	2.5
50969.7	10000	41.5474	93.6462	-983	CULTRL	2.9	999	6.0	999	0.9	999	0.484	999	3.194	999	6.605	999	1837	38	2.5
50969.8	10000	41.5474	93.6454	-984	CULTRL	2.7	999	5.7	999	0.9	999	0.477	999	2.889	999	6.061	999	1813	35	2.5
50969.9	10000	41.5474	93.6445	-984	CULTRL	2.7	999	5.6	999	1.0	999	0.481	999	2.738	999	5.694	999	1805	48	2.5
50970.0	10000	41.5474	93.6437	-985	CULTRL	2.8	999	5.9	999	1.0	999	0.476	999	2.848	999	5.977	999	1794	35	2.5
50970.1	10000	41.5474	93.6428	-985	CULTRL	2.7	999	6.0	999	1.0	999	0.451	999	2.709	999	6.008	999	1811	40	2.5
50970.2	10000	41.5474	93.6420	-988	CULTRL	2.5	999	5.9	999	1.0	999	0.433	999	2.529	999	5.835	999	1815	40	2.5
50970.3	10000	41.5474	93.6411	-990	CULTRL	2.3	999	6.0	999	1.0	999	0.385	999	2.231	999	5.791	999	1832	41	2.5
50970.4	10000	41.5474	93.6403	-988	CULTRL	2.5	999	6.5	999	1.1	999	0.393	999	2.345	999	5.970	999	1877	45	2.5
50970.5	10000	41.5474	93.6394	-986	CULTRL	2.7	999	6.4	999	1.1	999	0.419	999	2.343	999	5.591	999	1911	57	2.5

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50970.6	10000	41.5474	93.6336	-984	CULTRL	2.5	999	6.6	999	1.1	999	0.387	999	2.245	999	5.797	999	1937	50	2.5
50970.7	10000	41.5475	93.6377	-984	CULTRL	2.6	999	6.6	999	1.1	999	0.396	999	2.377	999	5.744	999	1958	31	2.5
50970.8	10000	41.5475	93.6369	-984	CULTRL	2.6	999	6.8	999	1.1	999	0.374	999	2.271	999	6.066	999	1975	56	2.5
50970.9	10000	41.5475	93.6360	-982	CULTRL	2.7	999	7.2	999	1.1	999	0.373	999	2.421	999	6.498	999	1982	46	2.5
50971.0	10000	41.5475	93.6352	-980	CULTRL	2.7	999	6.9	999	1.1	999	0.389	999	2.420	999	6.219	999	1976	44	2.5
50971.1	10000	41.5475	93.6343	-979	CULTRL	2.4	999	6.9	999	1.1	999	0.353	999	2.152	999	6.092	999	1962	58	2.5
50971.2	10000	41.5475	93.6335	-976	CULTRL	2.6	999	7.0	999	1.1	999	0.368	999	2.270	999	6.172	999	1972	54	2.5
50971.3	10000	41.5475	93.6326	-974	CULTRL	2.7	999	7.0	999	1.2	999	0.379	999	2.306	999	6.086	999	1973	52	2.5
50971.4	10000	41.5475	93.6318	-972	CULTRL	2.8	999	7.1	999	1.1	999	0.396	999	2.562	999	6.473	999	1969	46	2.5
50971.5	10000	41.5475	93.6309	-971	CULTRL	3.0	999	6.7	999	1.1	999	0.450	999	2.693	999	5.979	999	1968	49	2.5
50971.6	10000	41.5475	93.6301	-971	CULTRL	3.4	999	6.4	999	1.1	999	0.532	999	3.042	999	5.717	999	1989	52	2.5
50971.7	10000	41.5475	93.6292	-970	CULTRL	3.8	999	6.2	999	1.1	999	0.608	999	3.482	999	5.727	999	1980	39	2.5
50971.8	10000	41.5475	93.6284	-968	CULTRL	3.9	999	6.3	999	1.1	999	0.614	999	3.528	999	5.741	999	1979	59	2.5
50971.9	10000	41.5475	93.6275	-965	CULTRL	3.7	999	6.0	999	1.0	999	0.627	999	3.747	999	5.977	999	1948	46	2.5
50972.0	10000	41.5475	93.6267	-962	CULTRL	3.7	999	5.6	999	1.0	999	0.658	999	3.804	999	5.777	999	1916	51	2.5
50972.1	10000	41.5475	93.6258	-961	CULTRL	3.3	999	5.3	999	1.0	999	0.626	999	3.162	999	5.051	999	1896	47	2.5
50972.2	10000	41.5476	93.6250	-962	CULTRL	3.3	999	5.4	999	1.0	999	0.607	999	3.236	999	5.330	999	1872	35	2.5
50972.3	10000	41.5476	93.6241	-961	CULTRL	2.7	999	5.5	999	1.0	999	0.498	999	2.668	999	5.357	999	1852	47	2.5
50972.4	10000	41.5476	93.6233	-961	CULTRL	2.4	999	6.0	999	1.0	999	0.396	999	2.308	999	5.830	999	1838	36	2.5
50972.5	10000	41.5476	93.6224	-962	CULTRL	2.2	999	5.7	999	1.0	999	0.385	999	2.106	999	5.466	999	1825	46	2.5
50972.6	10000	41.5476	93.6216	-963	CULTRL	2.3	999	6.3	999	1.1	999	0.370	999	2.190	999	5.913	999	1835	34	2.5
50972.7	10000	41.5476	93.6207	-963	CULTRL	2.4	999	6.7	999	1.0	999	0.358	999	2.293	999	6.401	999	1856	42	2.5
50972.8	10000	41.5476	93.6199	-962	CULTRL	2.7	999	7.3	999	1.0	999	0.372	999	2.696	999	7.246	999	1879	46	2.5
50972.9	10000	41.5476	93.6190	-962	CULTRL	2.5	999	7.4	999	1.0	999	0.342	999	2.500	999	7.308	999	1904	35	2.5
50973.0	10000	41.5476	93.6182	-961	CULTRL	2.4	999	7.4	999	1.0	999	0.332	999	2.526	999	7.618	999	1903	43	2.5
50973.1	10000	41.5476	93.6173	-960	CULTRL	2.5	999	7.1	999	1.0	999	0.354	999	2.643	999	7.465	999	1908	46	2.5
50973.2	10000	41.5476	93.6165	-960	CULTRL	2.8	999	7.7	999	0.9	999	0.368	999	3.052	999	8.283	999	1949	43	2.5
50973.3	10000	41.5476	93.6156	-960	CULTRL	2.8	999	7.5	999	1.0	999	0.367	999	2.862	999	7.808	999	1963	43	2.5
50973.4	10000	41.5476	93.6148	-960	CULTRL	2.8	999	7.3	999	1.0	999	0.387	999	2.969	999	7.678	999	1979	39	2.5
50973.5	10000	41.5477	93.6139	-961	CULTRL	2.9	999	7.0	999	1.0	999	0.417	999	3.003	999	7.205	999	1987	41	2.5
50973.6	10000	41.5477	93.6131	-961	CULTRL	3.0	999	7.2	999	1.0	999	0.412	999	3.093	999	7.516	999	1991	49	2.5
50973.7	10000	41.5477	93.6122	-960	CULTRL	3.2	999	7.0	999	1.0	999	0.454	999	3.149	999	6.931	999	1996	49	2.5
50973.8	10000	41.5477	93.6114	-961	CULTRL	3.4	999	7.1	999	1.0	999	0.478	999	3.341	999	6.989	999	2022	52	2.5
50973.9	10000	41.5477	93.6105	-961	CULTRL	3.2	999	7.1	999	1.0	999	0.454	999	3.291	999	7.248	999	1998	48	2.5
50974.0	10000	41.5477	93.6097	-961	CULTRL	3.3	999	7.0	999	0.9	999	0.475	999	3.611	999	7.596	999	2003	57	2.4
50974.1	10000	41.5477	93.6088	-960	CULTRL	3.2	999	6.9	999	1.0	999	0.468	999	3.197	999	6.833	999	2004	45	2.4
50974.2	10000	41.5477	93.6080	-960	CULTRL	2.9	999	7.0	999	1.0	999	0.421	999	2.946	999	7.004	999	2008	41	2.4
50974.3	10000	41.5477	93.6071	-960	CULTRL	3.1	999	7.2	999	1.0	999	0.438	999	3.044	999	6.950	999	2012	61	2.4
50974.4	10000	41.5477	93.6063	-961	CULTRL	3.3	999	7.2	999	1.0	999	0.457	999	3.287	999	7.190	999	2030	35	2.4
50974.5	10000	41.5477	93.6054	-961	CULTRL	3.3	999	7.1	999	1.0	999	0.463	999	3.138	999	6.776	999	2022	57	2.4
50974.6	10000	41.5477	93.6046	-961	CULTRL	3.3	999	6.8	999	1.0	999	0.488	999	3.202	999	6.564	999	2036	54	2.4
50974.7	10000	41.5477	93.6037	-961	CULTRL	3.0	999	7.0	999	1.1	999	0.432	999	2.773	999	6.418	999	2025	45	2.4
50974.8	10000	41.5477	93.6029	-962	CULTRL	3.1	999	7.4	999	1.0	999	0.425	999	3.039	999	7.147	999	1994	44	2.4
50974.9	10000	41.5477	93.6020	-962	CULTRL	3.5	999	7.2	999	1.0	999	0.485	999	3.316	999	6.839	999	1975	46	2.4
50975.0	10000	41.5478	93.6012	-962	CULTRL	3.5	999	6.9	999	1.0	999	0.502	999	3.366	999	6.712	999	1942	43	2.4
50975.1	10000	41.5478	93.6003	-961	CULTRL	3.1	999	6.9	999	1.0	999	0.452	999	3.002	999	6.636	999	1913	42	2.4
50975.2	10000	41.5478	93.5995	-960	CULTRL	2.8	999	6.9	999	1.0	999	0.408	999	2.798	999	6.864	999	1884	39	2.3
50975.3	10000	41.5478	93.5986	-959	CULTRL	2.9	999	6.8	999	1.0	999	0.421	999	2.793	999	6.630	999	1855	46	2.3
50975.4	10000	41.5478	93.5978	-959	CULTRL	3.0	999	6.8	999	1.0	999	0.433	999	3.023	999	6.984	999	1846	48	2.3
50975.5	10000	41.5478	93.5969	-960	CULTRL	3.2	999	6.5	999	1.0	999	0.492	999	3.211	999	6.520	999	1866	43	2.3
50975.6	10000	41.5478	93.5961	-961	CULTRL	3.0	999	6.2	999	1.0	999	0.488	999	3.028	999	6.202	999	1859	58	2.3
50975.7	10000	41.5478	93.5952	-962	CULTRL	3.4	999	6.2	999	1.1	999	0.546	999	3.205	999	5.868	999	1874	55	2.3

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50975.8	10000	41.5478	93.5944	-964	CULTRL	3.6	999	6.2	999	1.1	999	0.585	999	3.465	999	5.921	999	1878	40	2.3
50975.9	10000	41.5478	93.5935	-963	CULTRL	3.8	999	6.4	999	1.1	999	0.601	999	3.585	999	5.971	999	1891	36	2.3
50976.0	10000	41.5478	93.5927	-962	CULTRL	3.8	999	6.5	999	1.1	999	0.580	999	3.534	999	6.091	999	1891	37	2.3
50976.1	10000	41.5478	93.5918	-961	CULTRL	3.9	999	6.5	999	1.1	999	0.604	999	3.458	999	5.723	999	1905	37	2.3
50976.2	10000	41.5478	93.5910	-960	CULTRL	3.7	999	6.7	999	1.1	999	0.548	999	3.292	999	6.008	999	1917	45	2.3
50976.3	10000	41.5478	93.5901	-957	CULTRL	3.9	999	7.0	999	1.2	999	0.559	999	3.364	999	6.015	999	1951	49	2.2
50976.4	10000	41.5478	93.5893	-958	CULTRL	3.7	999	6.9	999	1.2	999	0.537	999	3.135	999	5.840	999	1978	37	2.2
50976.5	10000	41.5478	93.5884	-963	CULTRL	3.5	999	6.9	999	1.2	999	0.511	999	2.839	999	5.559	999	2000	44	2.2
50976.6	10000	41.5478	93.5875	-965	QK	3.4	2	7.3	0	1.3	2	0.469	2	2.593	1	5.535	-1	2039	45	2.2
50976.7	10000	41.5478	93.5866	-966	QK	3.4	2	7.4	0	1.3	2	0.467	2	2.615	1	5.594	-1	2071	47	2.2
50976.8	10000	41.5478	93.5857	-966	QK	3.5	2	7.6	0	1.3	1	0.466	2	2.747	1	5.899	-1	2079	37	2.2
50976.9	10000	41.5478	93.5848	-966	QK	3.4	2	7.5	0	1.3	1	0.454	1	2.635	1	5.809	-1	2088	44	2.2
50977.0	10000	41.5478	93.5839	-965	QK	3.3	2	7.6	0	1.3	1	0.436	1	2.587	1	5.939	-1	2102	41	2.2
50977.1	10000	41.5478	93.5830	-964	QK	3.0	1	7.9	1	1.3	1	0.378	0	2.350	0	6.225	0	2112	56	2.2
50977.2	10000	41.5478	93.5822	-964	QK	3.0	1	8.3	1	1.3	1	0.364	0	2.361	0	6.491	0	2122	40	2.2
50977.3	10000	41.5478	93.5813	-963	QK	3.1	1	8.1	1	1.2	1	0.384	0	2.555	1	6.650	0	2110	37	2.2
50977.4	10000	41.5478	93.5804	-963	QK	3.1	1	8.3	1	1.3	1	0.369	0	2.435	0	6.601	0	2124	46	2.1
50977.5	10000	41.5478	93.5795	-963	QK	3.1	1	8.4	2	1.3	2	0.370	0	2.364	0	6.386	0	2144	34	2.1
50977.6	10000	41.5478	93.5786	-962	QK	3.1	1	8.4	2	1.3	2	0.374	0	2.348	0	6.284	0	2141	42	2.1
50977.7	10000	41.5478	93.5777	-962	QK	3.0	1	8.7	2	1.3	2	0.342	0	2.219	0	6.491	0	2130	56	2.1
50977.8	10000	41.5478	93.5768	-962	QK	3.4	2	8.4	2	1.3	2	0.407	1	2.585	1	6.347	0	2120	57	2.1
50977.9	10000	41.5478	93.5759	-962	QK	3.6	2	8.3	1	1.3	1	0.431	1	2.823	1	6.557	0	2112	42	2.1
50978.0	10000	41.5478	93.5750	-962	QK	3.6	2	8.3	2	1.3	1	0.432	1	2.794	1	6.470	0	2111	34	2.1
50978.1	10000	41.5478	93.5741	-961	QK	3.7	2	7.9	1	1.3	1	0.470	2	2.935	1	6.250	0	2102	39	2.1
50978.2	10000	41.5478	93.5733	-960	QK	3.5	2	8.0	2	1.3	2	0.436	1	2.807	1	6.430	0	2076	39	2.1
50978.3	10000	41.5478	93.5724	-959	QK	3.4	2	7.9	2	1.2	1	0.414	1	2.773	1	6.696	0	2058	43	2.1
50978.4	10000	41.5478	93.5715	-959	QK	3.4	2	7.9	2	1.2	1	0.426	1	2.783	1	6.530	0	2066	53	2.1
50978.5	10000	41.5478	93.5706	-959	QK	3.3	2	8.1	2	1.2	1	0.399	1	2.658	1	6.657	0	2068	46	2.1
50978.6	10000	41.5478	93.5697	-959	QK	3.0	2	7.8	2	1.3	1	0.387	1	2.353	1	6.077	-1	2075	44	2.1
50978.7	10000	41.5478	93.5688	-960	QO	2.8	2	7.8	2	1.3	1	0.362	1	2.098	1	5.789	-1	2078	47	2.1
50978.8	10000	41.5478	93.5679	-960	QO	2.7	2	8.4	2	1.4	1	0.317	1	1.928	1	6.077	-1	2083	40	2.1
50978.9	10000	41.5478	93.5670	-961	QO	2.4	2	8.1	2	1.5	1	0.291	0	1.622	-1	5.582	0	2109	46	2.0
50979.0	10000	41.5478	93.5661	-960	QO	2.7	2	8.1	2	1.5	1	0.330	1	1.793	0	5.440	1	2136	47	2.0
50979.1	10000	41.5478	93.5652	-960	QO	2.7	2	8.3	2	1.4	1	0.325	1	1.875	0	5.770	1	2109	49	2.0
50979.2	10000	41.5478	93.5644	-960	QO	2.7	2	8.3	2	1.4	1	0.326	1	1.933	0	5.935	1	2094	48	2.0
50979.3	10000	41.5478	93.5635	-961	QO	2.7	2	8.6	2	1.4	1	0.356	1	2.233	0	6.277	1	2096	40	2.0
50979.4	10000	41.5478	93.5626	-961	QO	3.1	3	8.4	3	1.3	1	0.392	1	2.593	0	6.611	1	2090	47	2.0
50979.5	10000	41.5477	93.5617	-961	QO	3.4	3	7.9	3	1.3	1	0.437	1	2.715	0	6.207	1	2073	38	2.0
50979.6	10000	41.5477	93.5608	-961	QO	3.7	3	7.6	2	1.2	1	0.485	2	3.095	1	6.377	1	2035	51	2.0
50979.7	10000	41.5477	93.5599	-961	QO	3.5	3	7.5	2	1.2	1	0.476	2	3.056	1	6.421	1	2011	40	2.0
50979.8	10000	41.5477	93.5590	-961	QO	3.5	3	7.2	2	1.2	1	0.483	2	2.922	1	6.047	1	2003	35	2.0
50979.9	10000	41.5477	93.5581	-962	QO	3.2	3	6.9	2	1.2	1	0.469	2	2.670	1	5.697	1	1982	46	2.0
50980.0	10000	41.5477	93.5573	-961	QO	3.2	3	6.7	2	1.2	1	0.476	2	2.659	1	5.583	1	1957	34	2.0
50980.1	10000	41.5477	93.5564	-960	QO	2.9	3	6.7	2	1.2	1	0.427	1	2.358	1	5.519	1	1925	37	2.0
50980.2	10000	41.5477	93.5555	-958	QO	2.8	3	6.5	2	1.2	1	0.436	1	2.392	1	5.491	1	1900	46	2.0
50980.3	10000	41.5477	93.5546	-957	QO	3.0	3	6.7	2	1.2	1	0.445	1	2.427	1	5.457	1	1925	49	2.0
50980.4	10000	41.5477	93.5537	-959	QK	2.8	3	6.6	2	1.2	1	0.430	1	2.293	0	5.337	-2	1929	54	2.0
50980.5	10000	41.5477	93.5528	-963	QK	3.0	3	6.3	2	1.2	1	0.467	2	2.371	1	5.078	-2	1954	49	2.0
50980.6	10000	41.5477	93.5519	-966	QK	3.3	3	6.6	2	1.2	1	0.495	2	2.636	1	5.326	-2	1986	36	2.0
50980.7	10000	41.5477	93.5510	-966	QK	3.2	3	6.8	2	1.3	1	0.468	2	2.480	1	5.300	-2	2002	51	2.0
50980.8	10000	41.5477	93.5501	-967	QK	3.5	3	7.0	2	1.3	1	0.504	2	2.736	1	5.425	-2	2019	46	2.0
50980.9	10000	41.5477	93.5492	-968	QK	3.9	3	7.2	2	1.3	1	0.538	3	3.050	2	5.672	-1	2051	45	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50981.0	10000	41.5477	93.5484	-968	QK	4.1	3	7.4	0	1.1	0	0.558	3	3.598	3	6.448	0	2032	58	2.0
50981.1	10000	41.5477	93.5475	-967	QK	4.4	4	7.4	0	1.1	0	0.599	3	4.103	4	6.852	1	2005	36	2.0
50981.2	10000	41.5477	93.5466	-967	QK	4.4	4	7.1	0	1.1	-1	0.625	4	4.219	4	6.747	0	1985	47	2.0
50981.3	10000	41.5477	93.5457	-966	QK	4.5	4	7.0	0	1.1	-1	0.641	4	4.230	4	6.598	0	1988	39	2.0
50981.4	10000	41.5477	93.5448	-966	QK	4.4	4	6.7	-1	1.0	-1	0.657	4	4.443	5	6.764	0	1977	35	2.0
50981.5	10000	41.5477	93.5439	-968	QK	4.3	4	6.4	-1	1.0	-1	0.677	5	4.352	4	6.425	0	1980	57	2.1
50981.6	10000	41.5477	93.5430	-970	QK	3.8	3	6.1	-2	0.9	-1	0.628	4	4.043	4	6.433	0	1974	42	2.1
50981.7	10000	41.5477	93.5421	-970	QO	3.6	3	6.3	1	1.0	0	0.576	1	3.504	2	6.079	1	1981	44	2.1
50981.8	10000	41.5477	93.5412	-970	QO	3.3	2	6.4	1	1.1	0	0.514	1	3.083	2	6.002	1	2005	44	2.1
50981.9	10000	41.5477	93.5403	-971	QO	3.2	2	7.0	1	1.1	0	0.459	1	2.955	1	6.437	1	2015	30	2.1
50982.0	10000	41.5477	93.5395	-971	QO	2.9	2	6.8	1	1.0	0	0.423	0	2.779	1	6.575	1	1964	48	2.1
50982.1	10000	41.5477	93.5386	-973	QO	3.0	2	6.7	1	1.0	0	0.447	0	2.923	1	6.538	1	1926	52	2.1
50982.2	10000	41.5477	93.5377	-974	QO	3.0	2	6.4	1	1.0	0	0.462	1	3.076	2	6.661	2	1878	64	2.1
50982.3	10000	41.5476	93.5368	-975	QO	2.8	1	6.3	1	1.0	-1	0.446	0	2.945	1	6.609	1	1808	40	2.1
50982.4	10000	41.5476	93.5359	-977	QO	2.7	1	5.4	0	0.9	-1	0.509	1	2.971	1	5.835	1	1731	54	2.1
50982.5	10000	41.5477	93.5350	-978	QO	2.8	2	4.7	-1	0.9	-1	0.599	2	3.232	2	5.392	0	1647	50	2.1
50982.6	10000	41.5476	93.5341	-978	QO	2.8	1	4.1	-1	0.8	-2	0.670	2	3.615	2	5.393	0	1556	47	2.1
50982.7	10000	41.5476	93.5332	-979	QO	2.5	1	3.7	-2	0.7	-2	0.676	2	3.321	2	4.911	0	1489	44	2.1
50982.8	10000	41.5476	93.5323	-980	QO	2.0	0	4.0	-1	0.7	-2	0.509	1	2.777	1	5.457	0	1451	44	2.1
50982.9	10000	41.5476	93.5314	-981	QO	1.9	0	4.5	-1	0.7	-2	0.419	0	2.555	1	6.101	1	1455	40	2.1
50983.0	10000	41.5476	93.5306	-981	QO	2.0	0	4.7	-1	0.8	-2	0.433	0	2.598	1	6.006	1	1486	44	2.1
50983.1	10000	41.5476	93.5297	-981	QO	1.8	-1	5.2	0	0.8	-2	0.345	0	2.357	0	6.832	2	1526	37	2.1
50983.2	10000	41.5476	93.5288	-982	QO	1.7	-1	6.0	1	0.8	-1	0.277	-1	1.987	0	7.165	2	1586	57	2.2
50983.3	10000	41.5476	93.5279	-983	QO	1.5	-1	6.5	1	1.0	0	0.232	-1	1.561	-1	6.721	2	1653	47	2.2
50983.4	10000	41.5476	93.5270	-983	QO	1.7	-1	7.1	1	1.0	0	0.246	-1	1.690	-1	6.864	2	1733	39	2.2
50983.5	10000	41.5476	93.5261	-984	QO	1.9	0	7.0	1	1.0	0	0.271	-1	1.833	0	6.751	2	1784	35	2.2
50983.6	10000	41.5476	93.5252	-984	QO	2.1	0	7.0	1	1.1	0	0.295	-1	1.948	0	6.605	1	1792	38	2.2
50983.7	10000	41.5476	93.5243	-983	QO	2.0	0	7.1	1	1.1	0	0.287	-1	1.907	0	6.650	2	1781	54	2.2
50983.8	10000	41.5476	93.5235	-984	QO	2.1	0	6.9	1	1.1	0	0.300	-1	1.850	0	6.173	1	1786	56	2.2
50983.9	10000	41.5476	93.5226	-986	QO	2.3	1	6.5	1	1.2	0	0.349	-1	1.972	0	5.651	0	1777	54	2.2
50984.0	10000	41.5476	93.5217	-989	QO	2.5	1	6.5	1	1.1	0	0.384	-1	2.252	0	5.859	1	1775	47	2.2
50984.1	10000	41.5476	93.5208	-991	QO	2.5	1	6.4	1	1.1	0	0.382	-1	2.173	0	5.695	0	1782	46	2.2
50984.2	10000	41.5476	93.5199	-992	QAL	2.7	1	6.6	1	1.2	0	0.406	-1	2.214	0	5.458	-1	1798	54	2.2
50984.3	10000	41.5476	93.5190	-993	QAL	2.7	1	6.3	1	1.2	0	0.425	-1	2.235	0	5.264	-1	1818	51	2.2
50984.4	10000	41.5476	93.5181	-994	QAL	2.7	1	6.7	1	1.2	0	0.402	-1	2.161	0	5.371	-1	1839	47	2.2
50984.5	10000	41.5476	93.5172	-995	QAL	2.7	1	6.8	1	1.3	0	0.407	-1	2.154	0	5.297	-1	1860	38	2.2
50984.6	10000	41.5476	93.5163	-996	QAL	2.7	1	7.0	1	1.2	0	0.385	-1	2.165	0	5.629	-1	1875	49	2.2
50984.7	10000	41.5476	93.5154	-997	QAL	2.4	1	7.1	1	1.3	0	0.335	-1	1.896	-1	5.663	-1	1882	35	2.2
50984.8	10000	41.5476	93.5146	-997	QAL	2.4	1	7.3	1	1.2	0	0.324	-1	1.951	-1	6.019	0	1878	44	2.2
50984.9	10000	41.5476	93.5137	-998	QAL	2.2	-1	7.1	1	1.2	0	0.303	-1	1.858	-1	6.132	0	1864	37	2.2
50985.0	10000	41.5475	93.5128	-998	QAL	1.8	-1	7.4	1	1.2	0	0.249	-1	1.583	-1	6.359	0	1833	57	2.3
50985.1	10000	41.5476	93.5119	-999	QAL	1.9	-1	7.2	1	1.1	0	0.260	-1	1.686	-1	6.486	0	1811	36	2.3
50985.2	10000	41.5475	93.5110	-999	QAL	1.9	-1	7.3	1	1.0	0	0.259	-1	1.817	-1	7.002	1	1791	34	2.3
50985.3	10000	41.5475	93.5101	-999	QAL	1.6	-2	7.3	1	1.0	0	0.220	-2	1.557	-1	7.071	1	1777	47	2.3
50985.4	10000	41.5475	93.5092	-1000	QAL	1.7	-1	7.4	1	1.0	0	0.229	-2	1.617	-1	7.070	1	1770	36	2.3
50985.5	10000	41.5475	93.5083	-1001	QAL	1.8	-1	7.1	1	1.1	0	0.254	-1	1.667	-1	6.576	1	1767	49	2.3
50985.6	10000	41.5475	93.5074	-1001	QAL	1.9	-1	6.8	1	1.1	0	0.279	-1	1.770	-1	6.346	1	1762	38	2.3
50985.7	10000	41.5475	93.5065	-1002	QAL	2.0	-1	6.7	1	1.1	0	0.291	-1	1.739	-1	5.969	0	1793	36	2.3
50985.8	10000	41.5475	93.5057	-1002	QAL	2.0	-1	6.7	1	1.2	0	0.292	-1	1.680	-1	5.753	0	1808	56	2.3
50985.9	10000	41.5475	93.5048	-1003	QAL	1.8	-1	6.5	1	1.2	0	0.276	-1	1.515	-1	5.483	-1	1808	38	2.3
50986.0	10000	41.5475	93.5039	-1003	QAL	2.0	-1	6.0	-1	1.2	0	0.328	-1	1.650	-1	5.024	-1	1805	43	2.3
50986.1	10000	41.5475	93.5030	-1003	QAL	2.0	-1	5.9	-1	1.2	1	0.347	0	1.742	-1	5.022	-1	1808	49	2.3

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50986.2	10000	41.5475	93.5021	-1003	QAL	2.1	-1	5.9	-1	1.2	1	0.351	0	1.783	-1	5.081	-1	1816	46	2.3
50986.3	10000	41.5475	93.5012	-1004	QAL	1.9	-1	6.7	0	1.2	1	0.288	-1	1.599	-1	5.546	-1	1843	38	2.3
50986.4	10000	41.5475	93.5003	-1004	QAL	2.0	-1	7.2	1	1.2	1	0.279	-1	1.652	-1	5.924	0	1853	43	2.3
50986.5	10000	41.5475	93.4994	-1005	QAL	2.1	-1	7.3	1	1.2	1	0.286	-1	1.686	-1	5.894	0	1872	41	2.3
50986.6	10000	41.5475	93.4985	-1005	QAL	2.2	-1	7.5	1	1.3	2	0.287	-1	1.651	-1	5.755	0	1905	34	2.3
50986.7	10000	41.5475	93.4977	-1006	QAL	2.0	-1	8.2	2	1.3	2	0.242	-2	1.486	-1	6.139	0	1942	36	2.3
50986.8	10000	41.5475	93.4968	-1006	QAL	2.1	-1	8.4	2	1.4	2	0.255	-1	1.545	-1	6.067	0	1960	45	2.3
50986.9	10000	41.5475	93.4959	-1005	QAL	2.1	-1	8.4	2	1.4	2	0.255	-1	1.548	-1	6.060	0	1967	25	2.3
50987.0	10000	41.5475	93.4950	-1005	QAL	2.3	0	7.9	1	1.4	2	0.288	-1	1.641	-1	5.705	-1	1976	41	2.3
50987.1	10000	41.5475	93.4941	-1005	QAL	2.3	0	7.4	1	1.4	2	0.318	-1	1.685	-1	5.295	-1	1990	56	2.3
50987.2	10000	41.5475	93.4932	-1005	QAL	2.0	-1	7.3	1	1.4	2	0.276	-1	1.468	-2	5.326	-1	1989	46	2.3
50987.3	10000	41.5475	93.4923	-1005	QAL	2.1	-1	7.2	1	1.3	2	0.299	-1	1.608	-1	5.383	-1	1965	44	2.3
50987.4	10000	41.5475	93.4914	-1005	QAL	2.4	0	6.6	0	1.3	1	0.354	0	1.859	-1	5.248	-1	1915	31	2.3
50987.5	10000	41.5475	93.4905	-1004	QAL	2.1	-1	6.2	0	1.2	1	0.340	0	1.749	-1	5.146	-1	1846	35	2.3
50987.6	10000	41.5474	93.4897	-1004	QAL	2.0	-1	5.7	-1	1.1	0	0.343	0	1.718	-1	5.002	-1	1741	54	2.3
50987.7	10000	41.5475	93.4888	-1003	QAL	1.8	-1	5.3	-1	1.1	0	0.332	-1	1.624	-1	4.885	-2	1636	49	2.3
50987.8	10000	41.5474	93.4879	-1002	QAL	1.6	-1	5.1	-1	1.0	-1	0.325	-1	1.674	-1	5.154	-1	1536	38	2.2
50987.9	10000	41.5474	93.4870	-1003	QAL	1.7	-1	5.1	-1	0.9	-1	0.333	-1	1.868	-1	5.616	-1	1485	47	2.2
50988.0	10000	41.5474	93.4861	-1003	QAL	1.4	-2	5.1	-1	0.9	-1	0.285	-1	1.677	-1	5.881	0	1447	40	2.2
50988.1	10000	41.5474	93.4852	-1002	QAL	1.6	-2	5.0	-2	0.8	-2	0.326	-1	1.923	-1	5.901	0	1437	47	2.2
50988.2	10000	41.5474	93.4843	-1002	QAL	1.7	-1	5.0	-2	0.9	-1	0.349	0	2.037	0	5.840	0	1467	30	2.2
50988.3	10000	41.5474	93.4834	-1002	QAL	1.7	-1	5.5	-1	0.9	-1	0.316	-1	1.917	-1	6.076	0	1545	40	2.2
50988.4	10000	41.5474	93.4825	-1001	QAL	1.9	-1	6.1	0	0.9	-1	0.321	-1	2.087	0	6.506	0	1601	46	2.2
50988.5	10000	41.5474	93.4816	-1001	QAL	2.0	-1	6.1	0	1.0	-1	0.320	-1	1.997	-1	6.243	0	1664	47	2.2
50988.6	10000	41.5474	93.4808	-1001	QAL	2.1	-1	6.1	0	1.0	0	0.344	0	2.027	-1	5.888	0	1697	51	2.2
50988.7	10000	41.5474	93.4799	-1000	QAL	2.4	-1	6.2	0	1.0	0	0.392	1	2.334	0	5.962	0	1707	38	2.2
50988.8	10000	41.5474	93.4790	-1000	QAL	2.3	-1	6.2	0	1.0	0	0.370	0	2.259	0	6.112	0	1719	43	2.2
50988.9	10000	41.5474	93.4781	-999	QAL	2.3	-1	6.4	0	1.0	0	0.359	0	2.209	0	6.149	0	1722	38	2.2
50989.0	10000	41.5474	93.4772	-1000	QAL	2.2	-1	6.4	0	1.1	1	0.343	0	2.066	0	6.024	0	1728	41	2.2
50989.1	10000	41.5474	93.4763	-1002	QAL	2.1	-1	6.6	0	1.1	1	0.320	-1	1.896	-1	5.933	0	1744	40	2.2
50989.2	10000	41.5474	93.4754	-1002	QK	2.1	-1	6.5	-1	1.1	1	0.325	-1	1.859	-1	5.716	-1	1749	39	2.2
50989.3	10000	41.5474	93.4745	-1000	QK	2.2	-1	6.5	-1	1.1	1	0.330	-1	1.884	-1	5.717	-1	1751	44	2.2
50989.4	10000	41.5474	93.4736	-999	QK	1.9	-1	6.7	-1	1.2	1	0.281	-1	1.637	-1	5.826	-1	1758	43	2.1
50989.5	10000	41.5474	93.4727	-997	QK	1.8	-1	6.9	-1	1.2	1	0.261	-2	1.524	-2	5.834	-1	1780	49	2.1
50989.6	10000	41.5474	93.4719	-997	QK	1.8	-1	7.1	-1	1.2	1	0.255	-2	1.540	-2	6.034	-1	1789	30	2.1
50989.7	10000	41.5474	93.4710	-997	QK	2.0	-1	7.1	-1	1.2	1	0.282	-1	1.712	-1	6.068	-1	1799	39	2.1
50989.8	10000	41.5474	93.4701	-997	QK	2.2	-1	6.9	-1	1.2	1	0.325	-1	1.926	-1	5.923	-1	1812	35	2.1
50989.9	10000	41.5474	93.4692	-996	QK	2.2	-1	7.0	-1	1.2	1	0.315	-1	1.912	-1	6.061	-1	1834	40	2.1
50990.0	10000	41.5474	93.4683	-995	QK	2.1	-1	7.1	-1	1.2	1	0.297	-1	1.826	-1	6.144	0	1850	27	2.1
50990.1	10000	41.5474	93.4674	-995	QK	2.1	-1	6.8	-1	1.1	1	0.314	-1	1.816	-1	5.786	-1	1868	44	2.1
50990.2	10000	41.5474	93.4665	-997	QK	2.5	-1	6.7	-1	1.2	1	0.369	0	2.165	0	5.864	-1	1863	48	2.1
50990.3	10000	41.5474	93.4656	-997	QK	2.5	-1	6.5	-1	1.1	1	0.381	0	2.163	0	5.676	-1	1869	44	2.1
50990.4	10000	41.5474	93.4647	-997	QK	2.4	-1	6.5	-1	1.1	1	0.363	0	2.142	0	5.902	-1	1861	40	2.1
50990.5	10000	41.5473	93.4639	-997	QK	2.4	-1	6.8	-1	1.1	1	0.350	0	2.097	0	5.992	-1	1873	49	2.1
50990.6	10000	41.5473	93.4630	-997	QK	2.5	-1	6.9	-1	1.1	1	0.358	0	2.221	0	6.197	-1	1869	33	2.1
50990.7	10000	41.5473	93.4621	-996	QK	2.8	-1	6.8	-1	1.2	1	0.417	0	2.468	0	5.914	-1	1886	41	2.1
50990.8	10000	41.5473	93.4612	-997	QK	2.8	-1	6.7	-1	1.2	1	0.447	0	2.541	0	5.689	-1	1927	45	2.0
50990.9	10000	41.5473	93.4603	-997	QK	3.0	-1	6.7	-1	1.3	1	0.426	0	2.280	0	5.356	-2	1955	38	2.0
50991.0	10000	41.5473	93.4594	-997	QK	3.1	-1	6.7	-1	1.3	1	0.460	0	2.345	0	5.096	-2	1982	44	2.0
50991.1	10000	41.5473	93.4585	-997	QK	3.1	-1	6.9	-1	1.4	1	0.455	0	2.290	0	5.028	-2	2012	46	2.0
50991.2	10000	41.5473	93.4576	-998	QK	3.4	-1	6.8	-1	1.3	1	0.494	0	2.540	0	5.142	-2	2021	49	2.0
50991.3	10000	41.5473	93.4567	-998	QK	3.6	-1	6.8	-1	1.3	1	0.538	0	2.768	1	5.148	-2	2030	52	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50991.4	10000	41.5473	93.4559	-998	QK	3.6	2	6.5	-1	1.3	2	0.557	3	2.680	1	4.809	-2	2029	35	2.0
50991.5	10000	41.5473	93.4550	-998	QK	3.7	3	6.4	-1	1.3	1	0.588	3	2.894	1	4.920	-2	2003	44	2.0
50991.6	10000	41.5473	93.4541	-997	QK	3.6	2	6.4	-1	1.3	1	0.562	3	2.840	1	5.053	-2	1995	40	2.0
50991.7	10000	41.5473	93.4532	-998	QK	3.5	2	6.4	-1	1.2	1	0.545	3	2.861	1	5.252	-2	1977	43	1.9
50991.8	10000	41.5473	93.4523	-1001	QK	3.6	2	6.3	-1	1.2	1	0.577	3	3.053	2	5.289	-2	1959	38	1.9
50991.9	10000	41.5473	93.4514	-1002	QK	3.1	1	6.3	-1	1.3	1	0.497	2	2.512	1	5.052	-2	1962	28	1.9
50992.0	10000	41.5473	93.4505	-1004	QK	3.9	1	6.4	-1	1.3	1	0.458	2	2.325	0	5.079	-2	1966	39	1.9
50992.1	10000	41.5473	93.4497	-1005	QK	4.1	2	7.0	0	1.2	1	0.445	2	2.517	1	5.658	-1	1974	53	1.9
50992.2	10000	41.5473	93.4488	-1005	QK	4.4	2	7.2	0	1.2	1	0.469	2	2.756	1	5.870	-1	1979	46	1.9
50992.3	10000	41.5473	93.4480	-1008	QK	4.3	2	7.1	0	1.2	1	0.471	2	2.723	1	5.780	-1	1974	32	1.9
50992.4	10000	41.5473	93.4472	-1010	QK	4.5	2	7.1	0	1.2	1	0.495	2	3.009	2	6.085	-1	1972	43	1.9
50992.5	10000	41.5473	93.4463	-1011	QAL	4.8	2	7.3	1	1.2	1	0.518	2	3.239	2	6.252	0	1966	41	1.9
50992.6	10000	41.5473	93.4455	-1012	QAL	4.0	2	7.1	1	1.1	1	0.562	2	3.750	3	6.670	1	1946	43	1.9
50992.7	10000	41.5473	93.4447	-1014	QAL	4.3	2	7.1	1	1.0	1	0.598	2	4.114	3	6.881	1	1938	41	1.9
50992.8	10000	41.5473	93.4438	-1015	QAL	4.0	2	6.9	0	1.0	-1	0.580	2	4.017	3	6.923	1	1920	55	1.9
50992.9	10000	41.5473	93.4430	-1017	QAL	4.7	2	7.1	1	1.0	0	0.521	2	3.697	3	7.097	1	1919	26	1.8
50993.0	10000	41.5473	93.4421	-1018	QAL	4.0	2	7.2	1	1.0	0	0.560	2	3.872	3	6.917	1	1932	37	1.8
50993.1	10000	41.5473	93.4413	-1019	QAL	3.8	2	7.7	1	1.1	1	0.489	2	3.321	2	6.793	1	1970	36	1.8
50993.2	10000	41.5474	93.4405	-1020	QAL	4.3	2	7.9	1	1.2	1	0.435	2	2.916	1	6.707	1	2003	41	1.8
50993.3	10000	41.5474	93.4396	-1021	QK	4.3	2	8.2	1	1.2	1	0.409	2	2.715	1	6.642	0	2016	48	1.8
50993.4	10000	41.5474	93.4388	-1022	QK	4.1	2	8.1	1	1.3	1	0.382	2	2.439	0	6.381	0	2014	43	1.8
50993.5	10000	41.5474	93.4380	-1023	QK	3.9	2	8.2	1	1.3	2	0.351	2	2.191	0	6.236	0	2013	39	1.8
50993.6	10000	41.5474	93.4371	-1024	QK	3.7	2	8.4	1	1.4	2	0.326	2	1.989	-1	6.093	-1	2009	39	1.8
50993.7	10000	41.5474	93.4363	-1024	QK	3.5	2	8.6	1	1.3	2	0.295	-1	1.896	-1	6.466	0	1999	44	1.8
50993.8	10000	41.5474	93.4355	-1025	QK	3.6	2	8.0	1	1.3	2	0.326	2	1.985	-1	6.095	-1	1974	37	1.8
50993.9	10000	41.5474	93.4346	-1025	QK	3.6	2	7.7	1	1.3	2	0.336	2	2.007	-1	5.965	-1	1957	37	1.8
50994.0	10000	41.5474	93.4338	-1026	QK	3.6	2	7.7	1	1.4	2	0.342	2	1.954	-1	5.720	-1	1959	30	1.8
50994.1	10000	41.5474	93.4329	-1027	QK	3.7	2	7.7	1	1.4	2	0.344	2	1.959	-1	5.687	-1	1950	45	1.8
50994.2	10000	41.5474	93.4321	-1028	QK	3.9	2	7.8	1	1.3	2	0.377	2	2.210	0	5.864	-1	1964	40	1.7
50994.3	10000	41.5474	93.4313	-1030	QK	4.0	2	7.5	1	1.3	2	0.398	2	2.312	0	5.817	-1	1975	37	1.7
50994.4	10000	41.5474	93.4304	-1031	QK	4.0	2	7.2	1	1.3	2	0.419	2	2.312	0	5.516	-1	1983	36	1.7
50994.5	10000	41.5474	93.4296	-1031	QK	4.2	2	7.6	1	1.4	2	0.429	2	2.396	0	5.585	-1	2008	39	1.7
50994.6	10000	41.5474	93.4288	-1033	QK	4.2	2	7.9	1	1.4	2	0.411	2	2.338	0	5.685	-1	2033	52	1.7
50994.7	10000	41.5474	93.4279	-1034	QK	4.2	2	7.8	1	1.3	2	0.417	2	2.442	0	5.856	-1	2039	40	1.7
50994.8	10000	41.5475	93.4271	-1035	QK	4.3	2	8.0	1	1.3	2	0.428	2	2.623	1	6.131	-1	2067	55	1.7
50994.9	10000	41.5475	93.4262	-1037	QK	4.3	2	8.0	1	1.3	2	0.391	2	2.467	0	6.316	0	2063	40	1.7
50995.0	10000	41.5475	93.4254	-1038	QK	4.3	2	8.0	1	1.3	2	0.400	2	2.470	0	6.169	0	2075	39	1.7
50995.1	10000	41.5475	93.4246	-1039	QK	4.1	2	8.0	1	1.3	2	0.343	2	2.306	0	6.717	0	2080	39	1.7
50995.2	10000	41.5475	93.4237	-1039	QK	4.0	2	7.9	1	1.3	2	0.322	2	2.221	0	6.901	1	2077	47	1.7
50995.3	10000	41.5475	93.4229	-1041	QK	4.0	2	7.9	1	1.4	2	0.338	2	2.234	0	6.614	0	2074	49	1.7
50995.4	10000	41.5475	93.4221	-1042	QK	4.0	2	7.9	1	1.4	2	0.334	2	2.115	0	6.335	0	2073	41	1.7
50995.5	10000	41.5475	93.4212	-1044	QK	4.0	2	7.7	1	1.4	2	0.313	-1	1.888	-1	6.041	-1	2063	44	1.7
50995.6	10000	41.5475	93.4204	-1044	QK	4.0	2	7.2	1	1.5	2	0.362	0	2.033	0	5.616	-1	2077	56	1.7
50995.7	10000	41.5475	93.4196	-1046	QK	4.0	2	7.5	1	1.4	2	0.367	0	2.178	0	5.941	-1	2073	46	1.7
50995.8	10000	41.5475	93.4187	-1047	QK	4.1	2	7.7	1	1.4	2	0.419	0	2.432	1	5.798	-1	2098	45	1.7
50995.9	10000	41.5475	93.4179	-1049	QK	4.1	2	7.7	1	1.4	2	0.422	0	2.512	1	5.950	-1	2097	35	1.7
50996.0	10000	41.5475	93.4170	-1050	QK	4.1	2	7.9	1	1.3	2	0.423	0	2.693	1	6.368	0	2090	52	1.7
50996.1	10000	41.5475	93.4162	-1051	QK	4.0	2	8.0	1	1.3	2	0.432	0	2.913	2	6.735	0	2101	45	1.6
50996.2	10000	41.5475	93.4154	-1053	QK	3.9	2	8.0	1	1.3	2	0.428	0	2.990	1	6.988	0	2111	43	1.6
50996.3	10000	41.5475	93.4145	-1055	QK	3.7	2	8.1	1	1.3	2	0.401	0	2.806	1	6.998	0	2103	55	1.6
50996.4	10000	41.5475	93.4137	-1056	QK	3.5	2	8.1	1	1.4	2	0.382	0	2.570	1	6.725	0	2105	41	1.6
50996.5	10000	41.5476	93.4129	-1058	QK	3.3	2	9.1	3	1.4	2	0.359	0	2.370	0	6.607	0	2090	46	1.6

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50996.6	10000	41.5476	93.4120	-1059	QK	3.0	1	8.9	2	1.4	2	0.339	0	2.127	0	6.277	0	2088	44	1.6
50996.7	10000	41.5476	93.4112	-1060	QK	3.0	1	8.9	2	1.4	2	0.339	0	2.199	0	6.489	0	2102	28	1.6
50996.8	10000	41.5476	93.4103	-1061	QK	2.9	1	8.8	2	1.4	2	0.332	0	2.102	0	6.324	0	2109	43	1.6
50996.9	10000	41.5476	93.4095	-1062	QK	2.7	0	8.5	2	1.4	2	0.319	0	1.968	-1	6.167	0	2110	43	1.6
50997.0	10000	41.5476	93.4087	-1063	QK	2.8	1	8.9	2	1.4	2	0.312	-1	1.995	-1	6.403	0	2111	30	1.6
50997.1	10000	41.5476	93.4078	-1064	QK	2.7	0	9.1	3	1.4	2	0.297	-1	1.937	-1	6.513	0	2107	37	1.6
50997.2	10000	41.5476	93.4070	-1065	QK	2.9	1	8.8	2	1.4	2	0.328	0	2.056	0	6.274	0	2101	41	1.6
50997.3	10000	41.5476	93.4062	-1065	QK	2.9	1	8.7	2	1.4	2	0.332	0	2.104	0	6.341	0	2087	44	1.6
50997.4	10000	41.5476	93.4053	-1065	QK	2.8	1	8.4	2	1.4	2	0.338	0	2.003	-1	5.923	-1	2085	41	1.6
50997.5	10000	41.5476	93.4045	-1062	QK	3.1	1	8.6	2	1.4	2	0.358	0	2.248	0	6.280	0	2077	56	1.6
50997.6	10000	41.5476	93.4037	-1059	QK	3.1	1	8.9	2	1.4	2	0.347	0	2.254	0	6.504	0	2073	50	1.6
50997.7	10000	41.5476	93.4028	-1063	QK	3.1	1	8.7	2	1.3	2	0.361	0	2.337	0	6.480	0	2063	36	1.6
50997.8	10000	41.5476	93.4020	-1068	QL	3.2	1	8.7	2	1.3	2	0.363	0	2.379	0	6.548	1	2061	49	1.6
50997.9	10000	41.5476	93.4011	-1070	QL	3.0	1	9.2	3	1.3	2	0.328	0	2.241	0	6.822	1	2053	40	1.6
50998.0	10000	41.5476	93.4003	-1070	QL	3.1	1	9.4	3	1.3	2	0.336	0	2.380	0	7.094	1	2066	34	1.6
50998.1	10000	41.5476	93.3995	-1070	QL	3.1	1	9.1	3	1.3	2	0.340	0	2.343	0	6.882	1	2072	34	1.6
50998.2	10000	41.5476	93.3986	-1071	QL	2.8	1	9.1	3	1.3	2	0.310	-1	2.088	0	6.731	1	2063	35	1.6
50998.3	10000	41.5476	93.3978	-1071	QL	3.0	1	9.1	3	1.4	2	0.329	0	2.170	0	6.600	1	2073	32	1.6
50998.4	10000	41.5477	93.3970	-1072	QL	3.0	1	9.1	3	1.4	2	0.326	0	2.139	0	6.565	1	2078	45	1.6
50998.5	10000	41.5477	93.3961	-1072	QL	3.1	1	8.8	3	1.4	2	0.347	0	2.254	0	6.505	1	2075	39	1.6
50998.6	10000	41.5477	93.3953	-1072	QL	3.2	1	8.4	3	1.3	2	0.381	0	2.384	0	6.259	0	2078	45	1.6
50998.7	10000	41.5477	93.3944	-1072	QL	3.2	1	8.3	3	1.4	2	0.390	0	2.397	0	6.148	0	2082	46	1.6
50998.8	10000	41.5477	93.3936	-1073	QL	3.5	1	8.6	3	1.3	2	0.403	1	2.668	1	6.615	1	2083	37	1.6
50998.9	10000	41.5477	93.3928	-1072	QL	3.8	1	8.3	3	1.3	2	0.452	1	2.892	2	6.396	0	2096	43	1.6
50999.0	10000	41.5477	93.3919	-1072	QL	3.9	1	8.2	3	1.3	2	0.475	2	3.099	2	6.531	1	2084	47	1.6
50999.1	10000	41.5477	93.3911	-1071	QL	3.9	1	8.2	3	1.3	2	0.474	2	3.135	2	6.610	1	2100	43	1.6
50999.2	10000	41.5477	93.3903	-1071	QL	3.9	1	8.5	3	1.3	2	0.455	2	3.019	2	6.643	1	2109	34	1.6
50999.3	10000	41.5477	93.3894	-1070	QL	4.1	1	8.6	3	1.2	1	0.475	2	3.278	2	6.906	1	2116	46	1.6
50999.4	10000	41.5477	93.3886	-1069	QL	4.3	1	8.4	3	1.2	1	0.507	2	3.427	3	6.761	1	2100	48	1.6
50999.5	10000	41.5477	93.3878	-1068	QL	4.0	1	8.5	3	1.2	1	0.469	2	3.152	2	6.726	1	2068	50	1.6
50999.6	10000	41.5477	93.3869	-1067	QAL	3.6	1	8.5	3	1.2	1	0.419	1	2.934	1	6.997	1	2046	54	1.6
50999.7	10000	41.5477	93.3861	-1065	QAL	3.5	1	8.3	3	1.2	1	0.412	1	2.906	1	7.046	1	2022	48	1.6
50999.8	10000	41.5477	93.3852	-1064	QAL	3.4	1	7.7	3	1.2	1	0.408	1	2.691	1	6.596	1	2000	48	1.6
50999.9	10000	41.5477	93.3844	-1063	QAL	3.5	1	7.8	3	1.2	1	0.459	1	2.817	1	6.135	0	1975	39	1.6
51000.0	10000	41.5477	93.3836	-1062	QAL	3.3	1	7.7	3	1.2	1	0.421	1	2.560	1	6.080	0	1952	42	1.7
51000.1	10000	41.5477	93.3827	-1060	QAL	2.7	1	7.8	3	1.3	1	0.347	0	2.049	0	5.898	0	1955	41	1.7
51000.2	10000	41.5478	93.3819	-1058	QAL	2.4	1	7.7	3	1.3	1	0.313	-1	1.763	-1	5.633	-1	1966	30	1.7
51000.3	10000	41.5478	93.3811	-1055	QL	2.6	1	7.8	3	1.3	1	0.325	-1	1.906	-1	5.857	-1	1967	28	1.7
51000.4	10000	41.5478	93.3802	-1053	QL	2.6	1	7.7	3	1.4	1	0.319	-1	1.880	-1	5.893	-1	1992	45	1.7
51000.5	10000	41.5478	93.3794	-1051	QL	3.1	1	8.8	3	1.3	1	0.359	0	2.235	0	6.223	0	2014	33	1.7
51000.6	10000	41.5478	93.3785	-1048	QL	2.8	1	8.2	3	1.3	1	0.307	-1	2.087	0	6.793	1	2016	43	1.7
51000.7	10000	41.5478	93.3777	-1044	QL	2.6	1	9.2	3	1.3	1	0.289	-1	2.024	0	6.798	1	2020	47	1.7
51000.8	10000	41.5478	93.3769	-1041	QL	2.9	1	9.1	3	1.3	1	0.314	-1	2.265	0	7.223	2	2022	32	1.7
51000.9	10000	41.5478	93.3760	-1037	QL	3.2	1	9.3	3	1.3	1	0.346	0	2.575	0	7.433	2	2025	47	1.7
51001.0	10000	41.5478	93.3752	-1034	QL	3.0	1	9.7	3	1.3	1	0.337	0	2.352	0	6.988	1	2026	36	1.7
51001.1	10000	41.5478	93.3744	-1031	QL	3.0	1	9.6	3	1.2	1	0.340	0	2.316	0	6.804	1	2009	44	1.7
51001.2	10000	41.5478	93.3735	-1028	QL	2.5	1	8.8	3	1.2	1	0.284	-1	1.983	-1	6.991	1	1966	44	1.7
51001.3	10000	41.5478	93.3727	-1025	QL	2.8	1	8.4	3	1.1	1	0.310	-1	2.254	0	7.270	2	1935	48	1.7
51001.4	10000	41.5478	93.3719	-1022	QL	2.7	1	7.8	3	1.1	1	0.356	0	2.404	1	6.753	1	1911	35	1.7
51001.5	10000	41.5478	93.3710	-1016	QL	2.7	1	7.6	3	1.1	1	0.353	0	2.435	1	6.888	1	1863	40	1.7
51001.6	10000	41.5478	93.3702	-1008	QL	2.7	1	7.4	3	1.1	-1	0.358	0	2.391	1	6.672	1	1841	41	1.7
51001.7	10000	41.5478	93.3693	-997	QL	3.0	1	7.5	3	1.1	-1	0.395	1	2.704	1	6.837	1	1844	27	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51001.8	10000	41.5478	93.3685	-995	QL	3.0	1	7.6	1	1.(	-1	0.397	1	2.811	1	7.080	1	1871	44	1.7
51001.9	10000	41.5478	93.3677	-995	QL	3.2	1	7.8	1	1.1	-1	0.408	1	2.872	1	7.035	1	1900	57	1.7
51002.0	10000	41.5478	93.3668	-995	QL	3.0	1	7.9	1	1.2	1	0.380	0	2.455	1	6.469	0	1929	48	1.8
51002.1	10000	41.5479	93.3660	-993	QL	3.0	1	8.1	1	1.2	0	0.375	0	2.505	1	6.679	1	1959	55	1.8
51002.2	10000	41.5479	93.3652	-989	QL	3.2	1	8.2	1	1.2	1	0.396	1	2.640	1	6.666	1	2013	46	1.8
51002.3	10000	41.5479	93.3643	-984	QL	3.3	2	8.4	2	1.2	1	0.392	1	2.675	1	6.817	1	2030	39	1.8
51002.4	10000	41.5479	93.3635	-981	QL	3.1	1	8.6	2	1.2	1	0.361	1	2.496	1	6.914	1	2058	41	1.8
51002.5	10000	41.5479	93.3626	-978	QL	3.1	1	8.6	2	1.3	1	0.364	1	2.461	1	6.766	1	2069	49	1.8
51002.6	10000	41.5479	93.3618	-975	QL	3.2	1	8.5	2	1.3	1	0.371	1	2.459	1	6.622	1	2074	54	1.8
51002.7	10000	41.5479	93.3610	-971	QL	3.4	2	8.3	2	1.2	1	0.415	1	2.765	1	6.655	1	2096	43	1.8
51002.8	10000	41.5479	93.3601	-968	QL	3.1	1	8.3	2	1.2	1	0.376	1	2.526	1	6.722	1	2084	44	1.8
51002.9	10000	41.5479	93.3593	-965	QL	3.0	1	8.2	1	1.3	1	0.371	0	2.368	0	6.388	0	2084	46	1.8
51003.0	10000	41.5479	93.3585	-961	QL	3.0	1	8.4	2	1.3	1	0.344	0	2.247	0	6.535	0	2094	46	1.8
51003.1	10000	41.5479	93.3576	-958	QL	3.0	1	8.1	1	1.3	1	0.359	0	2.227	0	6.208	0	2085	35	1.8
51003.2	10000	41.5479	93.3568	-955	QL	3.0	1	8.0	1	1.3	1	0.359	0	2.226	0	6.197	0	2062	44	1.8
51003.3	10000	41.5479	93.3560	-952	QL	3.0	1	8.0	1	1.3	1	0.365	0	2.328	0	6.374	0	2061	29	1.8
51003.4	10000	41.5479	93.3551	-949	QL	3.0	1	8.2	1	1.3	1	0.354	0	2.231	0	6.305	0	2053	45	1.8
51003.5	10000	41.5479	93.3543	-946	QL	3.0	1	8.0	1	1.3	2	0.361	0	2.195	0	6.083	0	2048	42	1.8
51003.6	10000	41.5479	93.3534	-942	QL	3.0	1	8.0	2	1.3	2	0.362	0	2.278	0	6.298	0	2033	60	1.9
51003.7	10000	41.5479	93.3526	-939	QL	3.0	1	8.0	2	1.4	2	0.365	0	2.143	0	5.879	-1	2033	49	1.9
51003.8	10000	41.5479	93.3518	-937	QL	3.1	1	8.0	2	1.4	2	0.385	0	2.218	0	5.755	-1	2031	46	1.9
51003.9	10000	41.5480	93.3509	-934	QL	3.0	1	7.9	2	1.4	2	0.372	0	2.096	0	5.632	-1	2036	38	1.9
51004.0	10000	41.5480	93.3501	-931	QL	3.0	1	7.9	2	1.4	2	0.383	0	2.100	0	5.488	-1	2039	44	1.9
51004.1	10000	41.5480	93.3493	-927	QL	3.0	1	7.7	1	1.4	2	0.386	0	2.153	0	5.585	-1	2038	41	1.9
51004.2	10000	41.5480	93.3484	-925	QL	3.1	1	7.8	1	1.3	2	0.391	0	2.271	0	5.813	-1	2043	40	1.9
51004.3	10000	41.5480	93.3476	-923	QL	2.9	1	8.2	2	1.3	2	0.361	0	2.212	0	6.125	0	2027	39	1.9
51004.4	10000	41.5480	93.3467	-920	QL	2.9	1	8.0	1	1.3	1	0.358	0	2.243	0	6.271	0	1995	43	1.9
51004.5	10000	41.5480	93.3459	-917	QL	2.6	1	7.8	1	1.2	0	0.338	0	2.187	0	6.476	0	1972	33	1.9
51004.6	10000	41.5480	93.3451	-914	QL	2.7	1	7.9	1	1.2	0	0.337	0	2.252	0	6.686	1	1950	45	1.9
51004.7	10000	41.5480	93.3442	-912	QL	2.6	1	7.6	1	1.1	0	0.344	0	2.292	0	6.656	1	1917	53	1.9
51004.8	10000	41.5480	93.3434	-910	QL	2.7	1	7.7	1	1.2	0	0.353	0	2.361	0	6.68?	1	1905	40	1.9
51004.9	10000	41.5480	93.3426	-908	QL	3.0	1	7.6	1	1.1	0	0.387	0	2.616	0	6.762	1	1903	42	1.9
51005.0	10000	41.5480	93.3417	-906	QL	3.1	1	7.4	1	1.1	0	0.417	0	2.819	0	6.757	1	1908	46	1.9
51005.1	10000	41.5480	93.3409	-904	QAL	3.4	2	7.3	1	1.1	0	0.463	0	3.177	0	6.854	1	1909	49	2.0
51005.2	10000	41.5480	93.3401	-902	QAL	3.3	2	7.4	1	1.1	0	0.442	0	3.015	0	6.822	1	1905	42	2.0
51005.3	10000	41.5480	93.3392	-899	QAL	3.3	2	7.0	1	1.1	0	0.474	0	3.074	0	6.481	1	1905	49	2.0
51005.4	10000	41.5480	93.3384	-895	QAL	3.2	1	7.4	1	1.1	0	0.432	0	3.041	0	7.037	1	1904	45	2.0
51005.5	10000	41.5480	93.3375	-892	QAL	3.1	1	7.7	1	1.0	0	0.402	0	2.970	0	7.391	1	1893	36	2.0
51005.6	10000	41.5480	93.3367	-888	QAL	2.7	1	7.5	1	1.0	0	0.361	0	2.613	0	7.240	1	1883	49	2.0
51005.7	10000	41.5480	93.3359	-884	QAL	2.6	1	7.3	1	1.1	0	0.360	0	2.344	0	6.510	1	1875	44	2.0
51005.8	10000	41.5480	93.3350	-881	QAL	2.6	1	7.5	1	1.2	1	0.354	0	2.274	0	6.432	1	1877	47	2.0
51005.9	10000	41.5480	93.3342	-879	QAL	2.9	1	7.3	1	1.1	1	0.393	0	2.637	0	6.704	1	1863	35	2.0
51006.0	10000	41.5480	93.3333	-876	QAL	2.8	1	7.4	1	1.1	1	0.380	0	2.652	0	6.970	1	1871	45	2.0
51006.1	10000	41.5480	93.3325	-872	QL	2.8	1	7.5	1	1.1	1	0.372	0	2.552	0	6.852	1	1893	55	2.0
51006.2	10000	41.5481	93.3317	-867	QL	2.7	1	7.7	1	1.1	1	0.359	0	2.494	0	6.955	1	1909	35	2.0
51006.3	10000	41.5481	93.3308	-864	QL	3.0	1	8.3	2	1.1	1	0.357	0	2.629	0	7.362	1	1949	46	2.0
51006.4	10000	41.5481	93.3300	-860	QL	2.9	1	8.5	2	1.1	1	0.342	0	2.627	0	7.679	1	1976	41	2.0
51006.5	10000	41.5481	93.3291	-855	QL	2.9	1	8.7	2	1.1	1	0.339	0	2.676	0	7.902	1	2001	44	2.0
51006.6	10000	41.5481	93.3283	-850	QL	3.1	1	9.3	2	1.2	1	0.326	0	2.638	0	8.082	1	2041	45	2.0
51006.7	10000	41.5481	93.3275	-847	QL	3.0	1	9.8	2	1.2	1	0.306	-1	2.503	0	8.186	1	2077	36	2.0
51006.8	10000	41.5481	93.3266	-843	QL	3.1	1	10.0	2	1.2	1	0.307	-1	2.528	0	8.229	1	2082	52	2.0
51006.9	10000	41.5481	93.3258	-839	QL	3.0	1	9.4	3	1.2	0	0.325	0	2.588	1	7.965	3	2088	42	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51007.0	10000	41.5481	93.3249	-834	QL	3.0	1	8.8	2	1.2	0	0.340	0	2.463	1	7.256	2	2059	48	2.0
51007.1	10000	41.5481	93.3241	-830	QL	3.2	1	8.5	2	1.2	0	0.374	0	2.701	1	7.230	2	2029	34	2.0
51007.2	10000	41.5481	93.3233	-825	QL	3.0	1	8.4	2	1.2	0	0.361	0	2.579	1	7.138	2	1988	38	2.0
51007.3	10000	41.5481	93.3224	-821	QL	2.6	1	7.5	2	1.1	-1	0.347	0	2.354	0	6.781	1	1934	50	2.0
51007.4	10000	41.5481	93.3216	-817	QL	2.4	0	7.2	0	1.1	-1	0.340	0	2.219	0	6.520	1	1875	49	2.0
51007.5	10000	41.5481	93.3207	-813	QL	2.4	0	6.5	-1	1.1	-1	0.370	0	2.211	0	5.979	0	1845	48	2.0
51007.6	10000	41.5481	93.3199	-809	QL	2.4	0	6.9	-1	1.2	0	0.353	0	2.105	0	5.961	0	1828	48	2.0
51007.7	10000	41.5481	93.3190	-805	QL	2.1	-1	7.0	0	1.1	0	0.306	-1	1.896	-1	6.193	0	1826	41	2.0
51007.8	10000	41.5481	93.3182	-802	QL	2.0	-1	7.1	0	1.2	0	0.287	-1	1.770	-1	6.172	0	1838	37	2.0
51007.9	10000	41.5481	93.3174	-800	QL	2.1	-1	7.4	0	1.2	0	0.279	-1	1.736	-1	6.211	0	1873	52	2.0
51008.0	10000	41.5481	93.3165	-797	QL	2.0	-1	8.0	1	1.3	1	0.253	-2	1.590	-1	6.274	0	1911	43	2.0
51008.1	10000	41.5481	93.3157	-794	QL	2.3	-1	8.1	1	1.3	2	0.285	-1	1.731	-1	6.079	0	1956	37	2.0
51008.2	10000	41.5481	93.3148	-791	QL	2.4	0	8.1	1	1.4	2	0.303	-1	1.748	-1	5.777	-1	1993	40	2.1
51008.3	10000	41.5481	93.3140	-788	QL	2.2	-1	8.1	1	1.4	2	0.274	-1	1.624	-1	5.938	0	2014	39	2.1
51008.4	10000	41.5481	93.3132	-785	QL	2.7	0	8.1	1	1.4	2	0.339	0	2.007	0	5.921	0	2035	49	2.1
51008.5	10000	41.5481	93.3123	-781	QL	2.8	0	8.2	2	1.4	2	0.341	0	2.009	0	5.897	-1	2050	57	2.1
51008.6	10000	41.5481	93.3115	-778	QL	2.7	0	8.2	1	1.4	2	0.329	0	1.933	-1	5.881	-1	2059	49	2.1
51008.7	10000	41.5481	93.3106	-775	QL	3.1	1	8.0	1	1.4	2	0.390	0	2.230	0	5.715	-1	2074	39	2.1
51008.8	10000	41.5481	93.3098	-773	QL	2.9	1	8.5	1	1.4	2	0.368	0	2.138	0	5.812	-1	2076	44	2.1
51008.9	10000	41.5481	93.3089	-770	QL	2.9	1	8.5	2	1.3	2	0.341	0	2.160	0	6.327	0	2087	50	2.1
51009.0	10000	41.5481	93.3081	-766	QL	2.9	1	8.2	1	1.4	2	0.358	0	2.130	0	5.946	0	2096	38	2.1
51009.1	10000	41.5481	93.3073	-764	QL	2.6	0	8.1	1	1.4	2	0.324	-1	1.840	-1	5.680	-1	2095	41	2.0
51009.2	10000	41.5481	93.3064	-761	QL	2.6	0	8.3	2	1.4	2	0.309	-1	1.818	-1	5.887	-1	2093	42	2.0
51009.3	10000	41.5481	93.3056	-758	QL	2.5	0	8.3	2	1.4	2	0.303	-1	1.766	-1	5.831	-1	2087	37	2.0
51009.4	10000	41.5481	93.3047	-755	QK	2.3	-1	8.4	2	1.4	2	0.269	-1	1.615	-1	6.010	-1	2072	47	2.0
51009.5	10000	41.5481	93.3039	-752	QK	2.4	0	8.4	2	1.4	3	0.290	-1	1.795	-1	6.198	-1	2045	46	2.0
51009.6	10000	41.5481	93.3031	-749	QK	2.4	0	8.3	2	1.4	3	0.293	-1	1.851	-1	6.317	-1	2014	48	2.0
51009.7	10000	41.5481	93.3022	-746	QK	2.7	0	8.3	2	1.4	3	0.325	-1	2.185	-1	6.726	-1	1997	36	2.0
51009.8	10000	41.5481	93.3014	-743	QK	2.8	0	8.3	2	1.4	3	0.320	-1	2.449	-1	7.660	-1	1995	42	2.0
51009.9	10000	41.5481	93.3005	-741	QK	3.0	0	8.3	2	1.4	3	0.349	-1	2.603	-1	7.451	-1	2000	40	2.0
51010.0	10000	41.5481	93.2997	-738	QK	3.2	1	8.3	2	1.4	3	0.360	-1	2.729	-1	7.588	-1	1999	35	2.0
51010.1	10000	41.5481	93.2989	-733	QK	3.3	1	8.4	2	1.4	3	0.365	-1	2.614	-1	7.156	-1	2007	44	2.0
51010.2	10000	41.5481	93.2980	-727	QK	3.3	1	8.4	2	1.4	3	0.374	-1	2.493	-1	6.659	-1	2031	35	2.0
51010.3	10000	41.5481	93.2972	-725	QK	3.3	1	8.4	2	1.4	3	0.387	-1	2.492	-1	6.446	-1	2057	44	2.0
51010.4	10000	41.5481	93.2963	-725	QK	3.2	1	8.4	2	1.4	3	0.386	-1	2.378	-1	6.155	-1	2059	44	2.0
51010.5	10000	41.5481	93.2955	-723	QK	3.1	0	8.4	2	1.4	3	0.373	-1	2.279	-1	6.108	-1	2059	34	2.0
51010.6	10000	41.5481	93.2946	-720	QK	3.0	0	8.4	2	1.4	3	0.357	-1	2.161	-1	6.052	-1	2060	43	2.0
51010.7	10000	41.5481	93.2938	-717	QK	3.2	1	8.4	2	1.4	3	0.394	-1	2.250	-1	5.706	-1	2053	49	2.0
51010.8	10000	41.5481	93.2930	-714	QK	3.4	1	8.4	2	1.4	3	0.422	-1	2.544	-1	6.033	-1	2064	46	2.0
51010.9	10000	41.5481	93.2921	-711	QK	3.5	1	8.4	2	1.4	3	0.419	-1	2.597	-1	6.199	-1	2067	40	2.0
51011.0	10000	41.5481	93.2913	-708	QK	3.5	1	8.4	2	1.4	3	0.448	-1	2.787	-1	6.223	-1	2063	36	2.0
51011.1	10000	41.5481	93.2904	-705	QK	3.4	1	8.4	2	1.4	3	0.426	-1	2.708	-1	6.351	-1	2076	38	2.0
51011.2	10000	41.5481	93.2896	-702	QK	3.4	1	8.4	2	1.4	3	0.422	-1	2.776	-1	6.579	-1	2088	43	2.0
51011.3	10000	41.5481	93.2888	-699	QK	3.5	1	8.4	2	1.4	3	0.426	-1	2.852	-1	6.689	-1	2090	38	2.0
51011.4	10000	41.5481	93.2879	-696	QK	3.4	1	8.4	2	1.4	3	0.412	-1	2.742	-1	6.657	-1	2120	45	2.0
51011.5	10000	41.5481	93.2871	-692	QK	3.4	1	8.4	2	1.4	3	0.387	-1	2.540	-1	6.558	-1	2116	41	2.0
51011.6	10000	41.5481	93.2862	-689	QK	3.5	1	8.4	2	1.4	3	0.413	-1	2.703	-1	6.542	-1	2128	37	2.0
51011.7	10000	41.5481	93.2854	-686	QK	3.5	1	8.4	2	1.4	3	0.374	-1	2.458	-1	6.570	-1	2121	48	2.0
51011.8	10000	41.5481	93.2845	-683	QK	3.5	1	8.4	2	1.4	3	0.380	-1	2.627	-1	6.905	-1	2111	43	2.0
51011.9	10000	41.5481	93.2837	-680	QK	3.4	1	8.4	2	1.4	3	0.411	-1	2.601	-1	6.331	-1	2091	50	2.0
51012.0	10000	41.5481	93.2829	-677	QK	3.4	1	8.4	2	1.4	3	0.406	-1	2.515	-1	6.198	-1	2095	38	2.0
51012.1	10000	41.5481	93.2820	-673	QK	3.2	1	8.4	2	1.4	3	0.382	-1	2.553	-1	6.675	-1	2079	47	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51012.2	10000	41.5481	93.2812	-670	QK	3.4	2	8.1	1	1.2	1	0.416	1	2.737	1	6.572	0	2075	42	2.0
51012.3	10000	41.5481	93.2803	-667	QK	3.1	1	8.2	1	1.2	0	0.378	0	2.638	1	6.976	1	2046	40	2.0
51012.4	10000	41.5481	93.2795	-663	QK	3.3	2	8.5	1	1.2	0	0.395	1	2.779	1	7.028	1	2042	49	2.0
51012.5	10000	41.5482	93.2787	-659	QK	3.0	1	7.9	1	1.2	1	0.378	0	2.526	1	6.689	0	2036	39	2.0
51012.6	10000	41.5482	93.2778	-656	QK	3.2	1	8.5	2	1.2	1	0.377	0	2.587	1	6.871	1	2033	43	1.9
51012.7	10000	41.5482	93.2770	-652	QK	3.1	1	8.3	2	1.2	1	0.377	0	2.596	1	6.891	1	2033	41	1.9
51012.8	10000	41.5482	93.2761	-648	QK	3.0	1	8.1	1	1.2	1	0.375	0	2.482	0	6.625	0	2020	44	1.9
51012.9	10000	41.5482	93.2753	-643	QK	3.1	1	8.5	2	1.2	1	0.365	0	2.509	1	6.878	1	2016	43	1.9
51013.0	10000	41.5482	93.2745	-637	QK	3.2	1	8.3	2	1.3	1	0.378	0	2.468	0	6.531	0	2034	40	1.9
51013.1	10000	41.5482	93.2736	-632	QK	3.3	2	8.7	2	1.3	2	0.375	0	2.498	0	6.666	0	2050	43	1.9
51013.2	10000	41.5482	93.2728	-630	QK	3.3	2	8.8	2	1.3	1	0.372	0	2.584	1	6.954	1	2048	38	1.9
51013.3	10000	41.5482	93.2719	-626	QK	2.9	1	8.7	2	1.3	1	0.337	0	2.307	0	6.844	1	2062	41	1.9
51013.4	10000	41.5482	93.2711	-622	QK	2.8	1	9.1	3	1.3	2	0.312	-1	2.179	0	6.994	1	2061	61	1.9
51013.5	10000	41.5482	93.2702	-617	QK	2.8	1	9.3	3	1.3	1	0.300	-1	2.183	0	7.276	1	2073	39	1.9
51013.6	10000	41.5482	93.2694	-613	QK	2.5	0	9.3	3	1.3	1	0.271	-1	1.965	-1	7.238	1	2084	54	1.9
51013.7	10000	41.5482	93.2686	-609	QK	2.4	1	9.5	3	1.3	2	0.253	-1	1.818	-1	7.188	1	2079	46	1.9
51013.8	10000	41.5482	93.2677	-604	QK	2.1	-1	9.5	3	1.4	2	0.221	-2	1.541	-2	6.973	1	2070	47	1.9
51013.9	10000	41.5482	93.2669	-599	QK	2.2	-1	9.4	3	1.4	2	0.235	-2	1.564	-1	6.656	0	2087	40	1.9
51014.0	10000	41.5482	93.2660	-593	QK	2.5	0	9.1	3	1.4	2	0.277	-1	1.809	-1	6.530	0	2080	39	1.9
51014.1	10000	41.5482	93.2652	-588	QK	2.5	0	8.7	2	1.4	2	0.285	-1	1.822	-1	6.399	0	2068	36	1.9
51014.2	10000	41.5482	93.2644	-583	QK	2.6	0	8.4	2	1.4	2	0.314	-1	1.895	-1	6.032	-1	2056	37	1.9
51014.3	10000	41.5482	93.2635	-577	QK	2.7	0	8.1	1	1.4	1	0.336	0	1.947	-1	5.790	-1	2048	40	1.9
51014.4	10000	41.5482	93.2627	-572	QK	3.0	1	7.5	0	1.3	1	0.394	1	2.293	0	5.814	-1	2015	46	1.9
51014.5	10000	41.5482	93.2618	-566	QK	3.3	2	7.4	0	1.2	1	0.445	1	2.677	1	6.013	-1	1999	41	1.9
51014.6	10000	41.5482	93.2610	-561	QK	3.3	2	7.7	1	1.2	1	0.429	1	2.814	1	6.555	0	1974	46	1.9
51014.7	10000	41.5482	93.2601	-556	QAL	3.3	2	7.7	2	1.2	1	0.434	1	2.820	1	6.498	0	1958	42	1.9
51014.8	10000	41.5482	93.2593	-550	QAL	3.3	2	7.2	1	1.2	1	0.460	1	2.926	1	6.364	0	1947	53	1.9
51014.9	10000	41.5482	93.2585	-544	QAL	3.4	2	7.1	1	1.2	1	0.470	1	3.136	2	6.665	1	1940	40	1.9
51015.0	10000	41.5482	93.2576	-539	QAL	3.1	1	7.0	1	1.1	1	0.488	1	3.438	2	7.040	1	1922	53	1.9
51015.1	10000	41.5482	93.2568	-533	QAL	3.0	1	7.6	2	1.1	1	0.406	0	2.983	1	7.345	1	1922	45	1.9
51015.2	10000	41.5482	93.2560	-527	QAL	2.8	1	7.7	2	1.1	1	0.368	0	2.726	1	7.416	1	1918	60	1.9
51015.3	10000	41.5482	93.2551	-522	QAL	3.0	1	7.3	2	1.1	1	0.407	1	2.801	1	6.876	1	1909	33	1.9
51015.4	10000	41.5482	93.2543	-517	QAL	3.0	1	7.7	2	1.1	1	0.358	0	2.545	1	7.110	1	1919	40	1.9
51015.5	10000	41.5482	93.2534	-511	QK	2.6	1	7.7	2	1.1	1	0.341	0	2.405	1	7.051	1	1927	45	1.9
51015.6	10000	41.5482	93.2526	-506	QK	2.9	1	8.0	2	1.1	1	0.362	0	2.494	1	6.883	1	1931	45	1.8
51015.7	10000	41.5482	93.2517	-500	QK	2.9	1	8.0	2	1.1	1	0.356	0	2.360	1	6.620	0	1941	45	1.8
51015.8	10000	41.5482	93.2509	-495	QK	3.0	2	8.0	2	1.1	1	0.374	0	2.467	1	6.589	0	1967	29	1.8
51015.9	10000	41.5482	93.2501	-490	QK	3.0	2	8.0	2	1.1	1	0.401	0	2.586	1	6.450	0	1985	56	1.8
51016.0	10000	41.5482	93.2492	-485	QK	3.0	2	8.0	2	1.1	1	0.367	0	2.366	1	6.441	0	2013	41	1.8
51016.1	10000	41.5482	93.2484	-480	QK	3.0	2	8.0	2	1.1	1	0.387	0	2.556	1	6.603	0	2029	54	1.8
51016.2	10000	41.5482	93.2475	-475	QK	3.0	2	8.0	2	1.1	1	0.389	0	2.684	1	6.899	1	2024	50	1.8
51016.3	10000	41.5482	93.2467	-470	QK	3.0	2	8.0	2	1.1	1	0.354	0	2.515	1	7.111	1	2043	37	1.8
51016.4	10000	41.5482	93.2458	-465	QK	3.0	2	8.0	2	1.1	1	0.327	0	2.312	1	7.071	1	2062	45	1.8
51016.5	10000	41.5482	93.2450	-461	QK	3.0	2	8.0	2	1.1	1	0.360	0	2.475	1	6.876	1	2074	49	1.8
51016.6	10000	41.5482	93.2442	-456	QK	3.0	2	8.0	2	1.1	1	0.378	0	2.471	1	6.536	1	2081	26	1.8
51016.7	10000	41.5482	93.2433	-452	QK	3.0	2	8.0	2	1.1	1	0.367	0	2.397	1	6.534	1	2076	39	1.8
51016.8	10000	41.5482	93.2425	-447	QK	3.0	2	8.0	2	1.1	1	0.321	0	2.118	1	6.600	1	2056	38	1.8
51016.9	10000	41.5482	93.2416	-442	QK	3.0	2	8.0	2	1.1	1	0.322	0	2.045	1	6.344	1	2076	44	1.8
51017.0	10000	41.5482	93.2408	-437	QK	3.0	2	8.0	2	1.1	1	0.331	0	2.034	1	6.146	1	2063	51	1.8
51017.1	10000	41.5482	93.2400	-432	QK	3.0	2	8.0	2	1.1	1	0.370	0	2.282	1	6.166	1	2057	41	1.8
51017.2	10000	41.5482	93.2391	-427	QK	3.0	2	8.0	2	1.1	1	0.353	0	2.200	1	6.237	1	2049	48	1.8
51017.3	10000	41.5482	93.2383	-423	QK	2.8	2	8.0	2	1.1	1	0.318	0	2.090	1	6.576	0	2045	52	1.8

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51017.4	10000	41.5482	93.2374	-419	QK	3.2	1	8.7	2	1.3	1	0.365	0	2.484	0	6.801	0	2057	49	1.8
51017.5	10000	41.5482	93.2366	-414	QK	3.4	2	7.7	1	1.2	1	0.434	1	2.703	1	6.230	0	2062	51	1.8
51017.6	10000	41.5482	93.2357	-411	QK	3.4	2	7.7	1	1.2	1	0.436	1	2.747	1	6.295	0	2058	36	1.8
51017.7	10000	41.5482	93.2349	-407	QK	3.5	2	8.1	1	1.3	1	0.425	1	2.734	1	6.429	0	2056	58	1.8
51017.8	10000	41.5482	93.2341	-403	QK	3.1	1	8.1	1	1.2	1	0.379	0	2.481	0	6.548	0	2035	48	1.8
51017.9	10000	41.5482	93.2332	-400	QK	2.9	1	7.9	1	1.2	1	0.365	0	2.389	0	6.536	0	2015	37	1.8
51018.0	10000	41.5482	93.2324	-396	QK	3.1	1	7.5	0	1.2	0	0.410	1	2.613	1	6.366	0	1995	44	1.8
51018.1	10000	41.5482	93.2316	-393	QK	3.1	1	7.7	1	1.1	0	0.396	1	2.667	1	6.741	0	1965	40	1.8
51018.2	10000	41.5482	93.2307	-389	QK	3.0	1	8.1	1	1.1	0	0.372	0	2.660	1	7.145	1	1958	35	1.8
51018.3	10000	41.5482	93.2299	-384	QK	3.0	1	8.2	1	1.1	0	0.372	0	2.671	1	7.184	1	1945	35	1.8
51018.4	10000	41.5482	93.2290	-380	QK	3.1	1	8.2	1	1.1	0	0.376	0	2.707	1	7.194	1	1951	38	1.8
51018.5	10000	41.5482	93.2282	-376	QK	3.2	1	8.3	1	1.2	0	0.384	0	2.754	1	7.170	1	1968	50	1.8
51018.6	10000	41.5482	93.2273	-372	QK	3.3	2	8.6	2	1.2	0	0.386	0	2.871	1	7.428	1	1980	48	1.8
51018.7	10000	41.5482	93.2265	-368	QK	3.1	1	8.8	2	1.2	1	0.347	0	2.581	1	7.431	1	1992	46	1.8
51018.8	10000	41.5482	93.2257	-365	QK	2.8	1	8.6	2	1.2	1	0.328	0	2.291	0	6.992	1	1997	45	1.8
51018.9	10000	41.5482	93.2248	-361	QK	2.8	1	8.5	2	1.2	1	0.333	0	2.277	0	6.837	1	2003	34	1.8
51019.0	10000	41.5482	93.2240	-359	QK	2.8	1	8.2	1	1.2	1	0.340	0	2.338	0	6.868	1	2002	45	1.8
51019.1	10000	41.5482	93.2231	-356	QK	2.9	1	8.0	1	1.2	1	0.368	0	2.488	0	6.766	0	2008	40	1.8
51019.2	10000	41.5482	93.2223	-353	QK	2.9	1	8.0	1	1.2	1	0.359	0	2.382	0	6.631	0	2011	37	1.8
51019.3	10000	41.5482	93.2215	-351	QK	2.7	1	8.4	2	1.3	1	0.322	0	2.163	0	6.719	0	2027	49	1.8
51019.4	10000	41.5482	93.2206	-349	QK	2.9	1	8.4	2	1.3	1	0.346	0	2.304	0	6.666	0	2029	52	1.8
51019.5	10000	41.5482	93.2198	-347	QK	2.8	1	8.4	2	1.3	1	0.339	0	2.215	0	6.535	0	2021	41	1.8
51019.6	10000	41.5482	93.2189	-344	QK	3.1	2	8.5	2	1.4	2	0.367	0	2.324	0	6.327	0	2044	33	1.8
51019.7	10000	41.5482	93.2181	-342	QK	3.5	2	8.7	2	1.4	2	0.403	1	2.551	1	6.323	0	2075	44	1.8
51019.8	10000	41.5482	93.2172	-340	QK	3.7	2	8.7	2	1.3	2	0.429	1	2.755	1	6.427	0	2065	41	1.8
51019.9	10000	41.5482	93.2164	-339	QK	3.7	3	8.6	2	1.3	2	0.434	1	2.845	1	6.564	0	2055	43	1.8
51020.0	10000	41.5482	93.2156	-337	QK	3.7	3	8.2	1	1.3	2	0.456	1	2.840	1	6.228	0	2052	55	1.8
51020.1	10000	41.5482	93.2147	-336	QK	3.5	2	8.0	1	1.3	2	0.445	1	2.786	1	6.257	0	2047	44	1.7
51020.2	10000	41.5483	93.2139	-335	QK	3.6	2	8.2	1	1.3	2	0.438	1	2.863	1	6.528	0	2051	44	1.7
51020.3	10000	41.5483	93.2130	-335	QK	3.4	2	8.1	1	1.3	2	0.416	1	2.867	1	6.883	1	2038	45	1.7
51020.4	10000	41.5483	93.2122	-334	QK	3.8	2	8.2	1	1.3	2	0.373	1	2.671	1	7.154	1	2016	49	1.7
51020.5	10000	41.5482	93.2113	-334	QK	3.0	2	8.2	1	1.3	2	0.337	0	2.435	1	7.227	1	2024	47	1.7
51020.6	10000	41.5482	93.2105	-334	QK	3.0	2	8.2	1	1.3	2	0.350	1	2.624	1	7.490	2	2039	47	1.7
51020.7	10000	41.5482	93.2097	-335	QK	3.0	2	8.2	1	1.3	2	0.342	1	2.583	1	7.554	2	2034	47	1.7
51020.8	10000	41.5482	93.2088	-336	QK	3.1	2	8.2	1	1.3	2	0.338	1	2.480	1	7.340	1	2054	48	1.7
51020.9	10000	41.5482	93.2080	-336	QK	3.0	2	8.2	1	1.3	2	0.355	1	2.474	1	6.960	1	2064	48	1.7
51021.0	10000	41.5482	93.2072	-337	QK	3.0	2	8.2	1	1.3	2	0.341	1	2.321	1	6.809	1	2056	40	1.7
51021.1	10000	41.5483	93.2063	-338	QK	3.0	2	8.2	1	1.3	2	0.328	1	2.297	1	7.010	1	2043	41	1.7
51021.2	10000	41.5483	93.2055	-339	QK	3.0	2	8.2	1	1.3	2	0.285	1	2.048	1	7.182	1	2036	48	1.7
51021.3	10000	41.5483	93.2046	-340	QK	3.0	2	8.2	1	1.3	2	0.288	1	1.992	0	6.914	1	2017	40	1.7
51021.4	10000	41.5483	93.2038	-342	QK	3.0	2	8.2	1	1.3	2	0.316	1	2.077	1	6.564	1	2020	52	1.7
51021.5	10000	41.5483	93.2029	-343	QK	3.0	2	8.2	1	1.3	2	0.305	1	2.107	1	6.898	1	2004	43	1.7
51021.6	10000	41.5483	93.2021	-345	QK	3.0	2	8.2	1	1.3	2	0.306	1	2.145	1	7.002	1	2008	30	1.7
51021.7	10000	41.5483	93.2013	-347	QK	3.0	2	8.2	1	1.3	2	0.307	1	2.260	1	7.362	1	2001	42	1.7
51021.8	10000	41.5483	93.2004	-349	QK	3.0	2	8.2	1	1.3	2	0.271	1	1.934	1	7.146	1	1999	51	1.7
51021.9	10000	41.5483	93.1996	-352	QK	3.0	2	8.2	1	1.3	2	0.297	1	1.968	1	6.617	1	2005	56	1.7
51022.0	10000	41.5483	93.1987	-355	QK	3.0	2	8.2	1	1.3	2	0.304	1	1.984	1	6.533	1	2009	41	1.7
51022.1	10000	41.5483	93.1979	-358	QK	3.0	2	8.2	1	1.3	2	0.283	1	1.956	1	6.901	1	1988	46	1.7
51022.2	10000	41.5483	93.1971	-360	QK	3.0	2	8.2	1	1.3	2	0.271	1	1.834	1	6.761	1	1968	50	1.7
51022.3	10000	41.5483	93.1962	-363	QK	3.0	2	8.2	1	1.3	2	0.261	1	1.844	1	7.067	1	1937	42	1.7
51022.4	10000	41.5483	93.1954	-366	QK	3.0	2	8.2	1	1.3	2	0.287	1	1.962	1	6.825	1	1924	46	1.7
51022.5	10000	41.5483	93.1945	-370	QK	3.1	2	8.5	2	1.3	2	0.360	0	2.353	0	6.534	0	1921	50	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51022.6	10000	41.5483	93.1936	-375	QK	3.1	1	8.3	1	1.2	1	0.371	0	2.485	0	6.690	0	1886	32	1.7
51022.7	10000	41.5483	93.1928	-379	QK	3.3	2	7.9	1	1.2	0	0.414	1	2.769	0	6.683	0	1869	51	1.7
51022.8	10000	41.5483	93.1919	-382	QK	3.6	2	7.3	0	1.1	0	0.491	2	3.244	2	6.610	0	1852	45	1.7
51022.9	10000	41.5483	93.1911	-386	QK	3.9	3	7.3	0	1.1	0	0.538	3	3.681	3	6.842	1	1844	57	1.7
51023.0	10000	41.5483	93.1902	-389	QK	3.8	3	6.5	-1	1.1	0	0.588	3	3.381	2	5.749	-1	1854	54	1.7
51023.1	10000	41.5483	93.1893	-391	QK	3.6	2	6.9	0	1.2	1	0.524	2	3.056	2	5.838	-1	1862	50	1.7
51023.2	10000	41.5483	93.1885	-394	QK	3.2	2	6.9	0	1.1	0	0.468	2	2.906	1	6.211	0	1864	47	1.7
51023.3	10000	41.5483	93.1876	-397	QK	3.2	1	7.3	0	1.2	0	0.437	1	2.739	1	6.270	0	1880	38	1.6
51023.4	10000	41.5483	93.1868	-400	QK	2.8	1	7.7	1	1.2	0	0.370	0	2.435	0	6.572	0	1875	44	1.6
51023.5	10000	41.5483	93.1859	-403	QK	2.6	0	7.7	1	1.2	1	0.335	0	2.167	0	6.469	0	1887	36	1.6
51023.6	10000	41.5483	93.1850	-406	QK	2.5	0	7.9	1	1.3	1	0.313	-1	1.983	-1	6.330	0	1899	60	1.6
51023.7	10000	41.5483	93.1842	-408	QK	2.7	0	8.1	1	1.2	1	0.334	0	2.220	0	6.638	0	1879	45	1.6
51023.8	10000	41.5483	93.1833	-410	QK	2.8	1	7.5	0	1.2	1	0.375	0	2.391	0	6.369	0	1858	45	1.6
51023.9	10000	41.5483	93.1825	-412	QK	3.0	1	7.7	1	1.2	1	0.383	0	2.395	0	6.250	0	1847	49	1.6
51024.0	10000	41.5483	93.1816	-413	QK	3.0	1	7.7	1	1.2	1	0.382	0	2.480	0	6.494	0	1851	44	1.6
51024.2	10000	41.5483	93.1799	-414	QK	3.1	1	7.8	1	1.2	1	0.392	1	2.491	0	6.351	0	1867	50	1.6
51024.3	10000	41.5483	93.1790	-418	QK	3.1	1	7.6	1	1.2	1	0.406	1	2.553	1	6.286	0	1878	52	1.6
51024.4	10000	41.5483	93.1782	-418	QK	3.3	2	7.5	0	1.2	1	0.438	1	2.661	1	6.070	-1	1891	36	1.6
51024.5	10000	41.5483	93.1773	-418	QK	3.0	1	7.7	1	1.3	1	0.396	1	2.419	0	6.106	-1	1941	54	1.6
51024.6	10000	41.5483	93.1765	-418	QK	3.0	1	8.2	1	1.3	2	0.360	0	2.274	0	6.314	0	1985	33	1.6
51024.7	10000	41.5483	93.1756	-418	QK	2.9	1	8.4	2	1.3	2	0.349	0	2.251	0	6.455	0	2019	33	1.6
51024.8	10000	41.5483	93.1747	-418	QK	2.7	0	8.4	2	1.3	2	0.325	0	2.089	0	6.421	0	2033	38	1.6
51024.9	10000	41.5483	93.1739	-418	QK	2.8	1	8.6	2	1.3	2	0.327	0	2.139	0	6.540	0	2051	43	1.6
51025.0	10000	41.5483	93.1730	-416	QK	2.7	0	8.6	2	1.4	2	0.313	-1	1.972	-1	6.299	0	2063	36	1.6
51025.1	10000	41.5483	93.1722	-417	QK	2.7	0	8.7	2	1.4	2	0.305	-1	1.902	-1	6.234	0	2063	56	1.6
51025.2	10000	41.5483	93.1713	-417	QK	2.8	1	8.5	2	1.4	2	0.333	0	2.027	-1	6.094	-1	2045	34	1.6
51025.3	10000	41.5483	93.1705	-417	QK	3.1	1	8.3	1	1.4	2	0.374	1	2.276	0	6.079	-1	2039	41	1.6
51025.4	10000	41.5483	93.1696	-417	QK	3.1	2	7.7	1	1.4	2	0.405	1	2.300	0	5.685	-1	2020	37	1.6
51025.5	10000	41.5483	93.1687	-416	QK	3.6	2	7.7	1	1.3	2	0.471	2	2.736	1	5.815	-1	2008	52	1.6
51025.6	10000	41.5483	93.1679	-415	QK	3.8	3	7.8	1	1.3	2	0.491	2	2.970	2	6.053	-1	1997	43	1.6
51025.7	10000	41.5483	93.1670	-414	QK	3.7	3	8.1	1	1.3	2	0.462	2	2.950	2	6.388	0	1990	38	1.6
51025.8	10000	41.5483	93.1662	-412	QK	3.6	2	7.9	1	1.2	2	0.461	2	3.047	2	6.615	0	1987	48	1.6
51025.9	10000	41.5483	93.1653	-410	QK	3.4	2	8.1	1	1.2	2	0.425	1	2.904	1	6.842	1	2014	40	1.6
51026.0	10000	41.5483	93.1644	-408	QK	3.2	2	8.2	1	1.2	2	0.393	1	2.650	1	6.747	0	2019	40	1.6
51026.1	10000	41.5483	93.1636	-406	QK	3.3	2	8.5	2	1.3	2	0.389	1	2.587	1	6.654	0	2030	40	1.6
51026.2	10000	41.5483	93.1627	-405	QK	3.1	1	8.4	2	1.3	2	0.375	1	2.402	0	6.407	0	2035	45	1.6
51026.3	10000	41.5483	93.1619	-404	QK	2.8	1	8.0	2	1.4	2	0.352	0	2.054	-1	5.841	-1	2043	43	1.6
51026.4	10000	41.5484	93.1610	-402	QK	3.0	1	8.2	2	1.4	2	0.360	0	2.187	-1	6.078	-1	2043	41	1.6
51026.5	10000	41.5484	93.1601	-401	QK	2.6	1	8.3	2	1.4	2	0.311	-1	1.855	-1	5.961	-1	2049	56	1.6
51026.6	10000	41.5484	93.1593	-399	QK	2.8	1	8.3	2	1.4	2	0.337	0	2.005	-1	5.947	-1	2034	49	1.6
51026.7	10000	41.5484	93.1584	-397	QK	2.9	1	8.5	2	1.4	2	0.344	0	2.137	0	6.209	0	2042	46	1.6
51026.8	10000	41.5484	93.1576	-394	QK	2.8	1	8.1	1	1.3	2	0.351	0	2.121	0	6.045	-1	2040	40	1.6
51026.9	10000	41.5484	93.1567	-394	QK	2.9	1	8.3	1	1.3	2	0.358	0	2.202	0	6.156	0	2039	40	1.6
51027.0	10000	41.5484	93.1559	-392	QK	3.1	1	8.3	1	1.3	2	0.379	0	2.368	0	6.243	0	2039	46	1.7
51027.1	10000	41.5484	93.1550	-391	QK	2.9	1	8.0	1	1.3	2	0.369	0	2.216	-1	6.007	-1	2057	44	1.7
51027.2	10000	41.5484	93.1541	-389	QK	3.3	2	8.1	1	1.3	2	0.412	1	2.600	0	6.305	0	2061	55	1.7
51027.3	10000	41.5484	93.1533	-388	QK	3.3	2	8.3	1	1.3	2	0.400	1	2.569	0	6.428	0	2057	34	1.7
51027.4	10000	41.5484	93.1524	-387	QK	3.2	2	8.2	1	1.3	2	0.389	1	2.485	0	6.387	0	2040	44	1.7
51027.5	10000	41.5484	93.1516	-386	QK	2.9	1	8.0	1	1.3	2	0.337	0	2.319	1	6.889	1	2043	45	1.7
51027.6	10000	41.5484	93.1507	-384	QK	2.6	1	8.1	1	1.3	2	0.281	-1	1.956	-1	6.964	1	2044	35	1.7
51027.7	10000	41.5484	93.1498	-383	QK	2.7	1	9.2	2	1.3	2	0.299	-1	2.151	0	7.195	1	2034	41	1.7
51027.8	10000	41.5484	93.1490	-383	QK	2.9	1	8.9	2	1.2	1	0.325	0	2.347	0	7.224	1	2020	43	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51027.9	10000	41.5484	93.1481	-382	QK	2.8	1	8.7	2	1.3	1	0.325	0	2.206	0	6.786	0	2021	36	1.7
51028.0	10000	41.5484	93.1473	-381	QK	2.8	1	8.7	2	1.3	2	0.322	0	2.167	0	6.721	0	2031	50	1.7
51028.1	10000	41.5484	93.1464	-380	QK	2.7	0	8.9	2	1.3	2	0.298	-1	1.984	-1	6.654	0	2033	53	1.7
51028.2	10000	41.5484	93.1456	-380	QK	3.0	1	8.5	2	1.4	2	0.352	0	2.213	0	6.291	0	2031	37	1.7
51028.3	10000	41.5484	93.1447	-379	QK	3.4	2	8.0	1	1.4	2	0.419	1	2.482	0	5.917	-1	2025	53	1.7
51028.4	10000	41.5484	93.1438	-377	QK	3.2	1	7.7	1	1.4	2	0.411	1	2.278	0	5.539	-1	2008	37	1.7
51028.5	10000	41.5484	93.1430	-376	QK	3.1	1	7.6	1	1.4	2	0.405	1	2.246	0	5.540	-1	1993	45	1.7
51028.6	10000	41.5484	93.1421	-375	QK	3.1	1	7.5	0	1.3	2	0.412	1	2.293	0	5.571	-1	1983	51	1.7
51028.7	10000	41.5484	93.1413	-374	QK	3.3	2	7.2	0	1.3	1	0.456	1	2.566	1	5.624	-1	1963	48	1.7
51028.8	10000	41.5484	93.1404	-373	QK	3.6	2	6.8	-1	1.2	1	0.524	2	2.931	1	5.594	-1	1966	59	1.7
51028.9	10000	41.5484	93.1395	-372	QK	3.4	2	7.0	0	1.2	1	0.493	2	2.879	1	5.836	-1	1963	44	1.7
51029.0	10000	41.5484	93.1387	-371	QK	3.3	2	7.2	0	1.2	1	0.462	2	2.827	1	6.120	-1	1960	40	1.7
51029.1	10000	41.5484	93.1378	-370	QK	3.4	2	7.7	1	1.2	0	0.442	1	2.932	1	6.627	0	1975	37	1.7
51029.2	10000	41.5484	93.1370	-368	QK	3.4	2	7.9	1	1.2	1	0.434	1	2.856	1	6.581	0	1993	39	1.7
51029.3	10000	41.5484	93.1361	-367	QK	3.5	2	8.1	1	1.2	1	0.433	1	2.903	1	6.703	0	1998	42	1.7
51029.4	10000	41.5484	93.1352	-365	QK	3.3	2	8.4	2	1.2	1	0.397	1	2.747	1	6.914	1	2018	43	1.7
51029.5	10000	41.5484	93.1344	-364	QK	3.3	2	8.6	2	1.2	1	0.383	0	2.696	1	7.030	1	2015	39	1.7
51029.6	10000	41.5484	93.1335	-362	QK	3.5	2	8.6	2	1.2	1	0.402	1	2.840	1	7.063	1	2015	48	1.7
51029.7	10000	41.5484	93.1327	-360	QK	3.2	1	8.6	2	1.2	1	0.373	0	2.642	1	7.076	1	2011	54	1.7
51029.8	10000	41.5484	93.1318	-358	QK	3.2	1	8.5	2	1.2	1	0.375	0	2.607	1	6.944	1	1995	50	1.7
51029.9	10000	41.5484	93.1310	-358	QK	3.1	1	8.2	1	1.2	1	0.376	0	2.614	1	6.956	1	1978	42	1.7
51030.0	10000	41.5484	93.1301	-360	QK	3.1	1	8.6	2	1.2	1	0.356	0	2.594	1	7.275	1	1968	43	1.7
51030.1	10000	41.5484	93.1292	-360	QK	2.9	1	8.6	2	1.2	1	0.340	0	2.410	0	7.085	1	1937	51	1.8
51030.2	10000	41.5484	93.1284	-357	QK	2.9	1	8.5	2	1.3	1	0.340	0	2.261	0	6.652	0	1947	42	1.8
51030.3	10000	41.5484	93.1275	-354	QK	2.9	1	8.2	1	1.3	1	0.354	0	2.237	0	6.325	0	1951	45	1.8
51030.4	10000	41.5484	93.1266	-353	QK	2.9	1	7.9	1	1.3	1	0.389	1	2.368	0	6.081	-1	1966	49	1.8
51030.5	10000	41.5484	93.1258	-351	QK	2.9	1	7.9	1	1.3	1	0.369	0	2.170	0	5.889	-1	1981	29	1.8
51030.6	10000	41.5484	93.1249	-350	QK	3.0	1	7.9	1	1.4	1	0.381	1	2.120	0	5.565	-1	1989	49	1.8
51030.7	10000	41.5484	93.1241	-350	QK	3.0	1	7.7	1	1.4	1	0.403	1	2.150	0	5.334	-2	1991	52	1.8
51030.8	10000	41.5484	93.1232	-347	QK	3.0	1	7.9	1	1.4	1	0.381	1	2.113	0	5.543	-1	2003	39	1.8
51030.9	10000	41.5484	93.1224	-348	QK	3.3	2	8.0	1	1.4	1	0.409	1	2.400	0	5.860	-1	2000	35	1.8
51031.0	10000	41.5484	93.1215	-348	QK	3.2	1	8.3	2	1.3	1	0.386	1	2.419	0	6.263	0	2000	57	1.8
51031.1	10000	41.5484	93.1206	-348	QK	3.4	2	8.6	2	1.3	1	0.398	1	2.558	0	6.425	0	2001	39	1.8
51031.2	10000	41.5484	93.1198	-347	QK	3.4	2	8.4	2	1.3	1	0.404	1	2.545	0	6.293	0	2008	42	1.8
51031.3	10000	41.5485	93.1189	-347	QK	3.4	2	8.7	2	1.3	1	0.391	1	2.684	1	6.874	1	2022	39	1.8
51031.4	10000	41.5485	93.1181	-347	QK	3.4	2	8.5	2	1.2	1	0.397	1	2.732	1	6.889	1	2040	40	1.8
51031.5	10000	41.5485	93.1172	-348	QK	3.6	2	8.0	2	1.2	1	0.445	1	2.930	1	6.588	1	2045	45	1.8
51031.6	10000	41.5485	93.1163	-348	QK	3.2	1	7.9	1	1.2	1	0.403	1	2.590	1	6.432	0	2030	46	1.8
51031.7	10000	41.5485	93.1155	-348	QK	3.1	1	7.8	1	1.2	1	0.399	1	2.506	1	6.278	0	2009	45	1.8
51031.8	10000	41.5485	93.1146	-348	QK	2.9	1	7.6	1	1.2	1	0.380	1	2.422	0	6.372	0	1968	36	1.8
51031.9	10000	41.5485	93.1138	-349	QK	3.1	1	7.7	1	1.1	1	0.394	1	2.762	1	7.009	1	1926	37	1.8
51032.0	10000	41.5485	93.1129	-349	QK	3.1	1	7.1	1	1.1	1	0.430	1	2.826	1	6.566	1	1891	44	1.8
51032.1	10000	41.5485	93.1121	-349	QK	2.9	1	7.0	1	1.1	1	0.408	1	2.634	1	6.454	1	1849	38	1.8
51032.2	10000	41.5485	93.1112	-350	QK	2.9	1	6.8	-1	1.1	1	0.422	1	2.583	1	6.126	-1	1843	40	1.8
51032.3	10000	41.5485	93.1103	-350	QK	3.0	1	7.1	0	1.1	1	0.427	1	2.771	1	6.492	0	1853	44	1.8
51032.4	10000	41.5485	93.1095	-351	QK	3.0	1	7.4	1	1.1	0	0.413	1	2.920	1	7.074	1	1880	43	1.8
51032.5	10000	41.5485	93.1086	-352	QK	3.0	1	7.7	1	1.1	1	0.387	1	2.641	1	6.822	1	1915	36	1.8
51032.6	10000	41.5485	93.1078	-352	QK	2.7	1	8.0	1	1.2	1	0.345	1	2.438	1	7.066	1	1941	41	1.8
51032.7	10000	41.5485	93.1069	-353	QK	2.7	1	8.0	1	1.2	1	0.299	-1	2.315	1	7.745	2	1948	39	1.8
51032.8	10000	41.5485	93.1060	-353	QK	2.8	1	8.2	1	1.2	1	0.314	-1	2.425	1	7.725	2	1961	51	1.8
51032.9	10000	41.5485	93.1052	-354	QK	2.7	1	9.2	2	1.2	1	0.296	-1	2.403	1	8.131	2	1961	39	1.8
51033.0	10000	41.5485	93.1043	-354	QK	2.7	0	9.1	3	1.2	0	0.302	-1	2.357	0	7.814	2	1955	38	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51033.1	10000	41.5485	93.1035	-355	QK	2.7	0	8.7	2	1.2	1	0.310	-1	2.246	0	7.239	1	1942	47	1.7
51033.2	10000	41.5485	93.1026	-355	QK	2.9	1	8.6	2	1.2	0	0.339	0	2.492	0	7.351	1	1940	45	1.7
51033.3	10000	41.5485	93.1017	-356	QK	3.0	1	8.1	1	1.2	1	0.372	0	2.473	0	6.643	0	1947	43	1.7
51033.4	10000	41.5485	93.1009	-357	QK	3.3	2	7.6	1	1.2	1	0.432	1	2.769	1	6.410	0	1966	41	1.7
51033.5	10000	41.5485	93.1000	-358	QK	3.2	1	7.7	1	1.2	0	0.421	1	2.786	1	6.621	0	1981	35	1.7
51033.6	10000	41.5485	93.0992	-359	QK	3.1	1	7.8	1	1.2	1	0.395	1	2.516	1	6.373	0	1982	36	1.7
51033.7	10000	41.5485	93.0983	-360	QK	2.8	1	7.6	1	1.2	1	0.367	0	2.300	0	6.268	0	1978	43	1.7
51033.8	10000	41.5485	93.0975	-361	QK	2.9	1	7.5	0	1.2	1	0.389	1	2.436	0	6.264	0	1972	39	1.7
51033.9	10000	41.5485	93.0966	-361	QK	2.8	1	7.9	1	1.2	1	0.353	0	2.365	0	6.697	0	1976	55	1.7
51034.0	10000	41.5485	93.0957	-361	QK	2.8	1	7.9	1	1.2	1	0.361	0	2.391	0	6.629	0	1981	39	1.7
51034.1	10000	41.5485	93.0949	-362	QK	2.8	1	8.3	1	1.3	1	0.336	0	2.214	0	6.582	0	1990	40	1.7
51034.2	10000	41.5485	93.0940	-362	QK	2.9	1	8.4	2	1.3	2	0.342	0	2.209	0	6.457	0	1999	45	1.7
51034.3	10000	41.5485	93.0932	-362	QK	3.3	2	8.3	1	1.3	1	0.393	1	2.583	1	6.571	0	2024	42	1.7
51034.4	10000	41.5485	93.0923	-362	QK	3.6	2	8.3	1	1.3	1	0.432	1	2.833	1	6.564	0	2044	39	1.7
51034.5	10000	41.5485	93.0914	-362	QK	3.3	2	8.2	1	1.3	1	0.405	1	2.627	1	6.489	0	2055	57	1.7
51034.6	10000	41.5485	93.0906	-362	QK	3.4	2	8.0	1	1.3	1	0.431	1	2.703	1	6.269	0	2060	40	1.7
51034.7	10000	41.5485	93.0897	-362	QK	3.4	2	8.2	1	1.3	1	0.412	1	2.654	1	6.438	0	2066	34	1.7
51034.8	10000	41.5485	93.0889	-361	QK	3.2	2	8.2	1	1.3	1	0.398	1	2.563	1	6.442	0	2061	53	1.7
51034.9	10000	41.5485	93.0880	-361	QK	3.3	2	8.1	1	1.2	1	0.411	1	2.678	1	6.511	0	2056	46	1.7
51035.0	10000	41.5485	93.0872	-360	QK	3.1	1	8.3	1	1.2	1	0.380	0	2.570	1	6.756	0	2039	38	1.7
51035.1	10000	41.5485	93.0863	-359	QK	2.9	1	8.4	2	1.2	1	0.344	0	2.372	0	6.897	1	2022	43	1.7
51035.2	10000	41.5485	93.0854	-358	QK	2.9	1	8.6	2	1.2	1	0.338	0	2.379	0	7.038	1	2019	43	1.7
51035.3	10000	41.5485	93.0846	-358	QK	3.0	1	8.0	1	1.2	1	0.374	0	2.419	0	6.466	0	1995	57	1.7
51035.4	10000	41.5485	93.0837	-357	QK	2.9	1	7.8	1	1.2	1	0.374	0	2.432	0	6.510	0	1975	48	1.7
51035.5	10000	41.5485	93.0829	-357	QK	3.0	1	7.3	0	1.2	0	0.407	1	2.525	1	6.209	0	1964	49	1.7
51035.6	10000	41.5485	93.0820	-356	QK	2.9	1	7.6	1	1.2	1	0.373	0	2.329	0	6.236	0	1971	39	1.7
51035.7	10000	41.5485	93.0811	-356	QK	3.1	1	7.5	0	1.2	1	0.408	1	2.453	0	6.018	-1	1977	37	1.7
51035.8	10000	41.5485	93.0803	-355	QK	3.1	1	7.3	1	1.3	1	0.421	1	2.378	0	5.644	-1	1991	47	1.7
51035.9	10000	41.5485	93.0794	-354	QK	3.1	1	7.2	1	1.3	2	0.427	1	2.361	0	5.534	-1	2005	57	1.7
51036.0	10000	41.5485	93.0786	-355	QK	3.2	1	7.7	1	1.3	2	0.409	1	2.404	0	5.882	-1	2036	41	1.7
51036.1	10000	41.5485	93.0777	-355	QK	3.4	2	7.9	1	1.3	2	0.432	1	2.616	1	6.050	-1	2052	40	1.7
51036.2	10000	41.5485	93.0768	-356	QK	3.4	2	7.8	1	1.3	2	0.421	1	2.591	1	6.151	0	2072	34	1.7
51036.3	10000	41.5485	93.0760	-357	QK	3.6	2	7.6	1	1.3	2	0.467	1	2.766	1	5.921	-1	2093	37	1.7
51036.4	10000	41.5485	93.0751	-359	QK	3.6	2	7.5	1	1.3	2	0.475	1	2.739	1	5.766	-1	2114	44	1.7
51036.5	10000	41.5485	93.0743	-359	QK	3.6	2	7.8	1	1.3	2	0.464	1	2.820	1	6.084	-1	2118	55	1.7
51036.6	10000	41.5485	93.0734	-361	QK	3.7	2	7.9	1	1.2	1	0.463	1	3.056	2	6.602	0	2120	47	1.7
51036.7	10000	41.5485	93.0726	-362	QK	3.8	2	8.1	1	1.2	1	0.467	1	3.142	2	6.729	0	2119	44	1.8
51036.8	10000	41.5485	93.0717	-363	QK	3.6	2	8.3	1	1.2	1	0.437	1	2.931	1	6.703	0	2120	43	1.8
51036.9	10000	41.5485	93.0708	-364	QK	3.4	2	8.4	1	1.2	1	0.410	1	2.800	1	6.833	0	2120	57	1.8
51037.0	10000	41.5485	93.0700	-365	QK	3.2	1	8.6	1	1.2	1	0.373	0	2.610	1	6.995	1	2107	39	1.8
51037.1	10000	41.5485	93.0691	-366	QK	3.1	1	9.0	2	1.3	1	0.342	0	2.416	1	7.054	1	2096	37	1.8
51037.2	10000	41.5485	93.0683	-367	QK	3.2	1	8.8	1	1.3	1	0.358	0	2.463	1	6.869	1	2100	39	1.8
51037.3	10000	41.5485	93.0674	-368	QK	3.4	2	9.1	2	1.3	1	0.370	0	2.570	1	6.941	1	2111	52	1.8
51037.4	10000	41.5485	93.0665	-368	QK	3.1	1	8.8	1	1.3	1	0.355	0	2.370	1	6.681	0	2110	42	1.8
51037.5	10000	41.5485	93.0657	-369	QK	3.2	1	9.1	2	1.3	1	0.339	0	2.391	1	7.060	1	2132	46	1.8
51037.6	10000	41.5485	93.0648	-369	QK	3.4	2	9.0	2	1.3	1	0.356	0	2.429	1	6.824	0	2120	36	1.8
51037.7	10000	41.5485	93.0640	-369	QK	3.6	2	8.8	2	1.3	1	0.390	0	2.705	1	6.928	1	2108	38	1.8
51037.8	10000	41.5486	93.0631	-370	QK	3.7	2	8.8	2	1.3	1	0.411	0	2.981	2	7.261	1	2097	48	1.8
51037.9	10000	41.5486	93.0622	-370	QK	3.6	2	8.8	2	1.3	1	0.420	0	2.992	2	7.129	1	2103	41	1.8
51038.0	10000	41.5486	93.0614	-369	QK	3.7	2	8.9	2	1.3	1	0.429	0	2.869	2	6.685	1	2095	35	1.8
51038.1	10000	41.5486	93.0605	-369	QK	3.7	2	8.9	2	1.3	1	0.422	0	2.990	2	7.079	1	2090	40	1.8
51038.2	10000	41.5486	93.0597	-369	QK	3.8	3	8.7	2	1.3	2	0.430	1	2.875	2	6.689	0	2076	47	1.9

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51038.3	10000	41.5486	93.0588	-369	QK	3.8	3	8.7	2	1.3	1	0.440	1	2.987	2	6.784	0	2079	52	1.9
51038.4	10000	41.5486	93.0580	-367	QK	3.7	2	8.7	2	1.3	1	0.426	1	2.860	2	6.721	0	2089	53	1.9
51038.5	10000	41.5486	93.0572	-367	QK	3.7	2	8.6	2	1.3	2	0.431	1	2.861	1	6.643	0	2093	42	1.9
51038.6	10000	41.5486	93.0563	-367	QK	3.7	2	8.5	2	1.2	1	0.428	1	3.020	2	7.054	1	2064	37	1.9
51038.7	10000	41.5486	93.0555	-366	QK	3.7	2	8.6	2	1.2	1	0.429	1	3.095	2	7.208	1	2054	42	1.9
51038.8	10000	41.5486	93.0547	-366	QK	3.7	2	7.8	1	1.1	0	0.473	2	3.282	3	6.944	1	2025	42	1.9
51038.9	10000	41.5486	93.0538	-366	QK	3.7	2	7.5	0	1.0	-1	0.498	2	3.553	3	7.138	1	1989	57	1.9
51039.0	10000	41.5486	93.0530	-365	QK	4.0	3	7.4	0	1.0	-1	0.539	3	3.896	3	7.226	1	1958	48	1.9
51039.1	10000	41.5486	93.0521	-365	QK	3.7	3	7.5	0	1.0	-1	0.499	2	3.743	3	7.496	1	1940	44	1.9
51039.2	10000	41.5486	93.0513	-364	QK	3.5	2	7.1	0	1.0	-1	0.484	2	3.461	3	7.152	1	1918	47	1.9
51039.3	10000	41.5486	93.0505	-364	QK	3.4	2	7.2	0	1.1	0	0.472	2	3.177	2	6.737	0	1912	43	2.0
51039.4	10000	41.5486	93.0496	-363	QK	3.1	1	6.7	-1	1.1	0	0.458	1	2.831	1	6.184	0	1890	41	2.0
51039.5	10000	41.5486	93.0488	-363	QK	2.9	1	6.8	-1	1.1	0	0.421	1	2.666	1	6.331	0	1903	43	2.0
51039.6	10000	41.5486	93.0480	-363	QK	3.1	1	7.0	0	1.1	0	0.443	1	2.739	1	6.175	0	1921	35	2.0
51039.7	10000	41.5486	93.0471	-363	QK	2.8	1	7.1	0	1.1	0	0.394	1	2.459	0	6.245	0	1942	32	2.0
51039.8	10000	41.5486	93.0463	-363	QK	2.9	1	6.8	-1	1.2	1	0.421	1	2.345	0	5.576	-1	1947	43	2.0
51039.9	10000	41.5486	93.0454	-363	QK	2.9	1	7.2	0	1.2	1	0.399	1	2.326	0	5.832	-1	1962	34	2.0
51040.0	10000	41.5486	93.0446	-363	QAL	2.7	0	7.4	1	1.2	1	0.360	0	2.169	0	6.027	0	1973	50	2.0
51040.1	10000	41.5486	93.0438	-364	QAL	2.7	0	7.7	1	1.3	1	0.346	0	2.130	0	6.162	0	1972	36	2.1
51040.2	10000	41.5486	93.0429	-365	QAL	2.4	0	7.9	1	1.3	2	0.297	-1	1.789	-1	6.018	0	1973	45	2.1
51040.3	10000	41.5486	93.0421	-366	QAL	2.0	-1	7.7	1	1.4	2	0.264	-1	1.499	-1	5.680	-1	1977	31	2.1
51040.4	10000	41.5486	93.0413	-368	QAL	1.8	-1	7.8	1	1.4	2	0.237	-2	1.364	-2	5.757	0	1975	40	2.1
51040.5	10000	41.5486	93.0404	-370	QAL	1.9	-1	8.1	2	1.4	2	0.231	-2	1.373	-2	5.932	0	1962	53	2.1
51040.6	10000	41.5487	93.0396	-373	QAL	1.9	-1	8.2	2	1.3	2	0.227	-2	1.386	-2	6.107	0	1939	50	2.1
51040.7	10000	41.5487	93.0388	-377	QAL	1.8	-1	8.1	2	1.3	2	0.226	-2	1.388	-2	6.143	0	1941	40	2.1
51040.8	10000	41.5487	93.0379	-381	QAL	1.8	-1	8.4	2	1.3	2	0.211	-2	1.343	-2	6.363	0	1949	51	2.1
51040.9	10000	41.5487	93.0371	-385	QAL	2.0	-1	8.6	2	1.3	2	0.236	-2	1.532	-1	6.499	0	1948	51	2.1
51041.0	10000	41.5487	93.0362	-391	QAL	2.0	-1	8.7	2	1.2	1	0.232	-2	1.630	-1	7.023	1	1931	37	2.2
51041.1	10000	41.5487	93.0354	-397	QAL	2.1	-1	8.5	2	1.2	1	0.250	-1	1.748	-1	7.007	1	1909	45	2.2
51041.2	10000	41.5487	93.0346	-404	QAL	2.1	-1	8.5	2	1.2	1	0.248	-2	1.775	-1	7.146	1	1897	51	2.2
51041.3	10000	41.5487	93.0337	-411	QAL	2.2	-1	8.1	2	1.2	1	0.266	-1	1.797	-1	6.755	1	1896	33	2.2
51041.4	10000	41.5487	93.0329	-420	QAL	2.1	-1	7.7	1	1.2	1	0.269	-1	1.755	-1	6.527	1	1870	39	2.2
51041.5	10000	41.5487	93.0321	-428	QAL	2.3	0	7.6	1	1.2	1	0.310	-1	2.009	-1	6.474	0	1859	49	2.2
51041.6	10000	41.5487	93.0312	-438	QAL	2.1	-1	7.3	1	1.1	1	0.294	-1	1.863	-1	6.348	0	1818	35	2.2
51041.7	10000	41.5487	93.0304	-449	QAL	2.0	-1	7.0	0	1.2	1	0.289	-1	1.733	-1	5.985	0	1761	42	2.2
51041.8	10000	41.5487	93.0295	-460	QAL	1.8	-1	6.6	0	1.2	1	0.278	-1	1.594	-1	5.739	0	1698	42	2.2
51041.9	10000	41.5487	93.0287	-472	QAL	1.9	-1	6.2	0	1.1	0	0.309	-1	1.786	-1	5.790	0	1639	42	2.3
51042.0	10000	41.5487	93.0279	-485	QAL	1.8	-1	6.1	0	1.0	0	0.297	-1	1.760	-1	5.931	0	1601	52	2.3
51042.1	10000	41.5487	93.0270	-499	QAL	1.8	-1	6.1	0	1.0	-1	0.296	-1	1.862	-1	6.291	0	1577	43	2.3
51042.2	10000	41.5487	93.0262	-513	QAL	1.6	-2	5.9	-1	1.0	-1	0.266	-1	1.627	-1	6.121	0	1548	37	2.3
51042.3	10000	41.5487	93.0254	-527	QAL	1.7	-1	5.8	-1	0.9	-1	0.299	-1	1.850	-1	6.190	0	1532	42	2.3
51042.4	10000	41.5487	93.0245	-543	QAL	1.7	-1	5.9	-1	0.9	-1	0.292	-1	1.898	-1	6.500	0	1553	39	2.3
51042.5	10000	41.5487	93.0237	-558	QAL	1.8	-1	6.3	0	1.0	-1	0.286	-1	1.891	-1	6.615	1	1603	44	2.3
51042.6	10000	41.5487	93.0229	-574	QAL	1.7	-1	6.6	0	1.0	-1	0.253	-1	1.673	-1	6.613	1	1642	40	2.3
51042.7	10000	41.5487	93.0220	-590	QAL	1.7	-1	6.9	0	1.1	0	0.242	-2	1.591	-1	6.564	1	1677	47	2.3
51042.8	10000	41.5487	93.0212	-607	QAL	1.8	-1	7.2	1	1.1	0	0.246	-2	1.593	-1	6.483	0	1700	41	2.3
51042.9	10000	41.5487	93.0203	-623	QAL	1.8	-1	7.3	1	1.0	0	0.246	-2	1.719	-1	6.993	1	1711	47	2.3
51043.0	10000	41.5487	93.0195	-640	QAL	1.8	-1	7.2	1	1.0	0	0.245	-2	1.711	-1	6.989	1	1735	55	2.3
51043.1	10000	41.5487	93.0187	-656	QAL	2.1	-1	7.5	1	1.0	0	0.277	-1	1.998	-1	7.213	1	1763	48	2.3
51043.2	10000	41.5487	93.0178	-672	QAL	2.1	-1	7.6	1	1.0	-1	0.284	-1	2.184	0	7.702	2	1756	46	2.3
51043.3	10000	41.5487	93.0170	-688	QAL	2.1	-1	7.5	1	1.0	-1	0.273	-1	2.158	0	7.906	2	1750	45	2.4
51043.4	10000	41.5487	93.0162	-704	QAL	2.2	0	7.5	1	0.9	-1	0.296	-1	2.425	0	8.191	3	1740	47	2.4

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51043.5	10000	41.5488	93.0153	-719	QAL	2.2	-1	7.0	0	0.9	-1	0.306	-1	2.326	0	7.609	2	1741	38	2.4
51043.6	10000	41.5488	93.0145	-734	QAL	2.4	0	6.6	0	1.0	-1	0.370	0	2.499	0	6.757	1	1750	39	2.4
51043.7	10000	41.5488	93.0136	-747	QAL	2.4	0	6.8	0	1.0	0	0.354	0	2.373	0	6.706	1	1756	38	2.4
51043.8	10000	41.5488	93.0128	-760	QAL	2.0	-1	6.8	0	1.0	-1	0.295	-1	2.009	-1	6.812	1	1740	47	2.4
51043.9	10000	41.5488	93.0120	-773	QAL	1.9	-1	6.7	0	1.0	0	0.288	-1	1.874	-1	6.505	0	1763	33	2.4
51044.0	10000	41.5488	93.0111	-785	QAL	2.0	-1	7.0	0	1.1	0	0.290	-1	1.913	-1	6.604	1	1784	46	2.4
51044.1	10000	41.5488	93.0103	-796	QAL	1.7	-1	6.8	0	1.0	0	0.255	-1	1.691	-1	6.633	1	1769	42	2.4
51044.2	10000	41.5488	93.0095	-806	QAL	1.7	-1	7.1	1	1.0	-1	0.242	-2	1.726	-1	7.136	1	1761	62	2.4
51044.3	10000	41.5488	93.0086	-816	QAL	1.6	-2	7.5	1	1.0	-1	0.210	-2	1.622	-1	7.722	2	1761	49	2.4
51044.4	10000	41.5488	93.0078	-825	QAL	1.5	-2	8.0	1	1.0	0	0.190	-2	1.494	-1	7.857	2	1772	38	2.4
51044.5	10000	41.5488	93.0070	-834	QAL	1.5	-2	7.8	1	1.0	-1	0.191	-2	1.510	-1	7.888	2	1780	40	2.4
51044.6	10000	41.5488	93.0061	-841	QAL	1.8	-1	7.9	1	1.0	-1	0.223	-2	1.771	-1	7.926	2	1769	31	2.4
51044.7	10000	41.5488	93.0053	-848	QAL	1.7	-1	7.6	1	1.0	0	0.229	-2	1.730	-1	7.548	2	1768	59	2.4
51044.8	10000	41.5488	93.0044	-856	QAL	1.8	-1	7.7	1	1.0	0	0.226	-2	1.686	-1	7.445	2	1779	37	2.4
51044.9	10000	41.5488	93.0036	-861	QAL	2.1	-1	7.6	1	1.0	0	0.268	-1	1.972	-1	7.353	2	1782	38	2.4
51045.0	10000	41.5488	93.0028	-866	QAL	1.9	-1	7.7	1	1.0	0	0.242	-2	1.790	-1	7.407	2	1777	47	2.4
51045.1	10000	41.5488	93.0019	-872	QAL	1.9	-1	7.2	1	1.0	-1	0.266	-1	1.927	-1	7.230	1	1757	51	2.4
51045.2	10000	41.5488	93.0011	-877	QAL	1.9	-1	7.3	1	1.1	0	0.264	-1	1.799	-1	6.821	1	1762	55	2.4
51045.3	10000	41.5488	93.0003	-881	QAL	1.6	-2	7.4	1	1.1	0	0.216	-2	1.493	-1	6.919	1	1763	41	2.4
51045.4	10000	41.5488	92.9994	-886	QAL	1.7	-1	7.6	1	1.0	0	0.227	-2	1.667	-1	7.333	2	1766	49	2.4
51045.5	10000	41.5488	92.9986	-889	QAL	1.8	-1	7.5	1	1.1	0	0.239	-2	1.646	-1	6.874	1	1786	38	2.4
51045.6	10000	41.5488	92.9977	-893	QAL	1.7	-1	7.6	1	1.1	0	0.227	-2	1.564	-1	6.905	1	1787	40	2.4
51045.7	10000	41.5488	92.9969	-896	QAL	1.8	-1	7.8	1	1.1	0	0.225	-2	1.538	-1	6.835	1	1805	38	2.4
51045.8	10000	41.5488	92.9961	-899	QAL	1.7	-1	7.9	1	1.2	1	0.212	-2	1.432	-2	6.739	1	1822	32	2.4
51045.9	10000	41.5488	92.9952	-901	QAL	1.7	-1	7.7	1	1.1	1	0.222	-2	1.539	-1	6.921	1	1826	47	2.4
51046.0	10000	41.5488	92.9944	-904	QAL	1.9	-1	7.2	1	1.1	1	0.256	-1	1.694	-1	6.612	1	1841	35	2.4
51046.1	10000	41.5489	92.9936	-906	QAL	1.8	-1	7.2	1	1.1	1	0.256	-1	1.626	-1	6.347	0	1853	35	2.4
51046.2	10000	41.5488	92.9927	-908	QAL	2.0	-1	7.1	1	1.1	1	0.278	-1	1.787	-1	6.437	0	1859	37	2.4
51046.3	10000	41.5489	92.9919	-910	QAL	2.1	-1	7.2	1	1.2	1	0.286	-1	1.809	-1	6.334	0	1882	53	2.4
51046.4	10000	41.5489	92.9911	-911	QAL	2.1	-1	6.8	0	1.1	1	0.312	-1	1.842	-1	5.912	0	1886	51	2.4
51046.5	10000	41.5489	92.9902	-912	QAL	2.4	0	6.8	0	1.1	1	0.354	0	2.124	0	6.000	0	1898	46	2.4
51046.6	10000	41.5489	92.9894	-913	QAL	2.7	0	7.1	1	1.1	1	0.377	0	2.397	0	6.350	0	1902	43	2.4
51046.7	10000	41.5489	92.9885	-914	QAL	2.8	1	7.3	1	1.2	1	0.381	0	2.411	0	6.326	0	1904	40	2.4
51046.8	10000	41.5489	92.9877	-914	QAL	2.7	0	7.4	1	1.1	1	0.366	0	2.354	0	6.437	0	1893	42	2.4
51046.9	10000	41.5489	92.9869	-914	QAL	2.5	0	7.4	1	1.1	1	0.340	0	2.220	0	6.532	1	1892	47	2.4
51047.0	10000	41.5489	92.9860	-915	QAL	2.3	0	7.2	1	1.1	1	0.323	-1	2.044	0	6.323	0	1884	48	2.4
51047.1	10000	41.5489	92.9852	-916	QAL	2.2	0	7.3	1	1.1	1	0.309	-1	2.059	0	6.672	1	1899	46	2.4
51047.2	10000	41.5489	92.9844	-916	QAL	2.4	0	7.8	1	1.1	1	0.306	-1	2.149	0	7.018	1	1901	42	2.4
51047.3	10000	41.5489	92.9835	-917	QAL	2.1	-1	7.8	1	1.2	1	0.272	-1	1.831	-1	6.741	1	1911	36	2.4
51047.4	10000	41.5489	92.9827	-918	QAL	2.1	-1	7.9	1	1.1	1	0.272	-1	1.884	-1	6.922	1	1917	35	2.4
51047.5	10000	41.5489	92.9818	-917	QAL	2.1	-1	7.7	1	1.2	1	0.277	-1	1.815	-1	6.542	1	1933	55	2.4
51047.6	10000	41.5489	92.9810	-918	QAL	2.0	-1	7.7	1	1.2	1	0.257	-1	1.677	-1	6.522	1	1931	56	2.4
51047.7	10000	41.5489	92.9802	-918	QAL	2.1	-1	7.9	1	1.2	1	0.260	-1	1.779	-1	6.836	1	1935	40	2.4
51047.8	10000	41.5489	92.9793	-918	QAL	2.2	0	7.7	1	1.2	1	0.288	-1	1.905	-1	6.612	1	1906	41	2.4
51047.9	10000	41.5489	92.9785	-917	QAL	2.2	0	7.1	1	1.1	1	0.309	-1	1.945	-1	6.301	1	1889	38	2.4
51048.0	10000	41.5489	92.9777	-917	QAL	2.4	0	6.6	0	1.1	0	0.367	0	2.309	0	6.289	1	1844	46	2.4
51048.1	10000	41.5489	92.9768	-917	QAL	2.3	0	6.2	0	1.0	0	0.362	0	2.198	0	6.069	1	1775	34	2.4
51048.2	10000	41.5489	92.9760	-916	QAL	2.4	-1	5.8	0	1.0	0	0.415	1	2.479	1	5.970	1	1717	30	2.4
51048.3	10000	41.5489	92.9752	-915	QAL	2.5	-2	5.2	0	0.9	-1	0.470	1	2.714	1	5.778	1	1649	50	2.4
51048.4	10000	41.5489	92.9743	-914	QAL	2.4	-1	4.9	0	0.9	-1	0.488	1	2.668	1	5.471	-1	1610	42	2.4
51048.5	10000	41.5489	92.9735	-912	QAL	2.4	-1	5.2	0	0.9	-1	0.472	1	2.683	1	5.685	-1	1612	56	2.4
51048.6	10000	41.5489	92.9726	-911	QAL	2.3	-1	5.4	0	0.9	-1	0.430	1	2.532	0	5.888	0	1623	33	2.2

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51048.7	10000	41.5489	92.9718	-910	QAL	2.4	0	5.6	-1	1.0	0	0.433	1	2.379	0	5.492	-1	1683	38	2.2
51048.8	10000	41.5489	92.9710	-908	QAL	2.4	0	5.9	-1	1.1	0	0.397	0	2.199	0	5.533	-1	1745	52	2.2
51048.9	10000	41.5489	92.9701	-906	QAL	2.5	0	6.5	0	1.1	0	0.376	0	2.255	0	6.000	0	1794	51	2.2
51049.0	10000	41.5489	92.9693	-904	QAL	2.8	1	7.3	1	1.1	0	0.385	0	2.537	0	6.589	1	1855	43	2.2
51049.1	10000	41.5489	92.9685	-901	QAL	3.0	1	7.5	1	1.1	0	0.406	0	2.779	1	6.844	1	1869	56	2.2
51049.2	10000	41.5490	92.9676	-898	QAL	2.7	1	7.7	1	1.1	0	0.345	0	2.362	0	6.841	1	1889	37	2.2
51049.3	10000	41.5490	92.9668	-896	QAL	2.6	0	7.9	1	1.2	0	0.326	-1	2.183	0	6.688	1	1890	36	2.2
51049.4	10000	41.5490	92.9659	-894	QAL	2.5	0	8.0	1	1.1	0	0.309	-1	2.264	0	7.315	2	1876	52	2.2
51049.5	10000	41.5490	92.9651	-891	QAL	2.7	1	8.1	2	1.1	0	0.337	0	2.596	1	7.699	2	1873	43	2.1
51049.6	10000	41.5490	92.9643	-888	QAL	2.8	1	8.1	1	1.1	0	0.352	0	2.612	1	7.419	2	1881	39	2.1
51049.7	10000	41.5490	92.9634	-886	QAL	2.6	0	7.7	1	1.1	0	0.334	-1	2.262	0	6.770	1	1890	43	2.1
51049.8	10000	41.5490	92.9626	-884	QAL	2.7	1	7.7	1	1.2	0	0.358	0	2.323	0	6.494	0	1932	48	2.1
51049.9	10000	41.5490	92.9618	-881	QAL	3.3	2	7.4	1	1.2	1	0.447	1	2.847	1	6.371	0	1959	61	2.1
51050.0	10000	41.5490	92.9609	-879	QAL	3.4	2	7.2	1	1.1	0	0.478	1	3.011	1	6.292	0	1989	35	2.1
51050.1	10000	41.5490	92.9601	-876	QAL	3.5	2	7.4	1	1.2	1	0.475	1	2.956	1	6.217	0	1998	48	2.1
51050.2	10000	41.5490	92.9593	-873	QAL	3.4	2	7.3	1	1.3	1	0.462	1	2.677	1	5.801	0	2022	33	2.1
51050.3	10000	41.5490	92.9584	-870	QAL	3.1	2	7.3	1	1.3	1	0.434	1	2.516	0	5.802	0	2038	48	2.1
51050.4	10000	41.5490	92.9576	-868	QAL	3.4	2	7.5	1	1.2	1	0.457	1	2.809	1	6.144	0	2034	43	2.1
51050.5	10000	41.5490	92.9567	-866	QAL	3.2	1	7.2	1	1.2	1	0.438	1	2.660	1	6.068	0	2000	42	2.1
51050.6	10000	41.5490	92.9559	-864	QAL	3.0	1	7.4	1	1.2	1	0.402	0	2.582	0	6.416	0	1976	37	2.1
51050.7	10000	41.5490	92.9551	-863	QAL	2.9	1	7.5	1	1.1	1	0.389	0	2.547	0	6.555	1	1956	51	2.1
51050.8	10000	41.5490	92.9542	-860	QK	2.8	1	7.7	1	1.2	0	0.368	0	2.424	0	6.593	0	1966	41	2.1
51050.9	10000	41.5490	92.9534	-858	QK	2.6	1	8.2	1	1.1	0	0.314	-1	2.308	0	7.344	1	1954	30	2.1
51051.0	10000	41.5490	92.9526	-857	QK	2.7	0	8.4	2	1.1	0	0.317	0	2.371	0	7.480	1	1957	40	2.1
51051.1	10000	41.5490	92.9517	-855	QK	2.4	0	8.3	1	1.2	0	0.295	-1	2.066	0	7.013	1	1979	49	2.1
51051.2	10000	41.5490	92.9509	-853	QK	2.5	0	8.7	2	1.2	0	0.287	-1	2.133	0	7.439	1	2003	40	2.1
51051.3	10000	41.5490	92.9500	-851	QK	2.6	0	8.6	2	1.2	0	0.304	-1	2.256	0	7.419	1	2011	39	2.1
51051.4	10000	41.5490	92.9492	-849	QK	2.6	0	8.7	2	1.1	0	0.305	-1	2.306	0	7.573	2	2023	35	2.1
51051.5	10000	41.5490	92.9484	-847	QK	2.5	0	8.4	2	1.2	0	0.296	-1	2.173	0	7.329	1	2025	36	2.1
51051.6	10000	41.5490	92.9475	-845	QK	3.0	1	8.2	1	1.1	0	0.372	0	2.646	1	7.107	1	2028	44	2.1
51051.7	10000	41.5490	92.9467	-843	QK	3.0	1	8.0	1	1.1	0	0.372	0	2.600	1	6.990	1	2016	56	2.1
51051.8	10000	41.5490	92.9459	-840	QK	3.0	1	7.9	1	1.2	0	0.372	0	2.748	1	7.395	1	1990	42	2.1
51051.9	10000	41.5490	92.9450	-836	QK	3.0	1	7.6	1	1.2	0	0.374	0	2.571	1	6.869	1	1983	48	2.1
51052.0	10000	41.5490	92.9442	-828	QK	2.6	0	7.6	1	1.2	0	0.347	0	2.235	0	6.451	0	1962	42	2.1
51052.1	10000	41.5490	92.9434	-823	QK	2.6	0	7.6	1	1.2	0	0.339	0	2.073	0	6.121	-1	1941	42	2.1
51052.2	10000	41.5490	92.9425	-828	QK	2.6	0	7.5	1	1.3	0	0.349	0	2.035	0	5.831	-1	1933	40	2.1
51052.3	10000	41.5490	92.9417	-829	QK	2.4	0	7.4	1	1.3	0	0.329	-1	1.848	-1	5.615	-1	1938	33	2.1
51052.4	10000	41.5490	92.9408	-827	QK	2.5	0	7.5	1	1.3	0	0.335	-1	1.909	-1	5.692	-1	1950	41	2.1
51052.5	10000	41.5491	92.9400	-824	QK	2.6	0	7.2	1	1.4	0	0.361	-1	1.899	-1	5.266	-2	1983	37	2.1
51052.6	10000	41.5491	92.9392	-822	QK	2.5	0	7.7	1	1.4	0	0.328	-1	1.816	-1	5.534	-1	1997	45	2.1
51052.7	10000	41.5491	92.9383	-820	QK	2.5	0	8.0	1	1.4	0	0.309	-1	1.776	-1	5.750	-1	2020	48	2.1
51052.8	10000	41.5491	92.9375	-818	QK	2.6	0	8.2	1	1.4	0	0.312	-1	1.859	-1	5.968	-1	2047	39	2.1
51052.9	10000	41.5491	92.9367	-817	QK	2.7	0	8.0	1	1.3	0	0.343	0	2.068	0	6.030	-1	2067	40	2.1
51053.0	10000	41.5491	92.9358	-815	QK	2.9	0	7.9	1	1.3	0	0.359	0	2.179	0	6.062	-1	2071	44	2.1
51053.1	10000	41.5491	92.9350	-813	QK	2.8	0	8.1	1	1.3	0	0.344	0	2.174	0	6.309	0	2069	37	2.1
51053.2	10000	41.5491	92.9342	-811	QK	2.8	0	8.0	1	1.3	0	0.345	0	2.181	0	6.318	0	2052	42	2.1
51053.3	10000	41.5491	92.9333	-809	QK	2.9	0	7.5	1	1.3	0	0.388	0	2.291	0	5.904	-1	2043	58	2.1
51053.4	10000	41.5491	92.9325	-807	QK	3.2	1	7.7	1	1.3	0	0.421	0	2.524	0	5.998	-1	2036	53	2.1
51053.5	10000	41.5491	92.9316	-804	QK	3.3	1	7.6	2	1.3	0	0.434	0	2.486	0	5.735	-1	2031	39	2.1
51053.6	10000	41.5491	92.9308	-802	QK	3.2	1	7.8	1	1.3	0	0.404	0	2.373	0	5.880	-1	2015	58	2.1
51053.7	10000	41.5491	92.9300	-800	QK	2.8	1	8.1	1	1.3	0	0.350	0	2.180	0	6.228	0	2013	21	2.1
51053.8	10000	41.5491	92.9291	-798	QK	2.8	1	8.4	2	1.4	0	0.338	0	2.079	0	6.150	0	2025	46	2.1

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51053.9	10000	41.5491	92.9283	-797	QK	2.8	0	8.6	2	1.3	2	0.320	0	2.088	0	6.519	0	2047	48	2.1
51054.0	10000	41.5491	92.9275	-796	QK	2.6	0	8.5	2	1.3	1	0.310	-1	2.055	0	6.627	0	2064	51	2.1
51054.1	10000	41.5491	92.9266	-794	QK	2.4	0	8.2	1	1.3	1	0.291	-1	1.898	-1	6.529	0	2059	40	2.1
51054.2	10000	41.5491	92.9258	-792	QK	2.1	-1	7.7	1	1.2	1	0.277	-1	1.796	-1	6.496	0	2038	40	2.1
51054.3	10000	41.5491	92.9249	-790	QK	2.3	-1	7.1	0	1.1	0	0.318	0	2.016	-1	6.333	0	2026	37	2.1
51054.4	10000	41.5491	92.9241	-788	QK	2.3	0	6.6	-1	1.1	0	0.349	0	2.023	-1	5.802	-1	1991	52	2.1
51054.5	10000	41.5491	92.9233	-787	QK	2.4	0	6.2	-1	1.1	0	0.380	0	2.182	0	5.747	-1	1944	47	2.1
51054.6	10000	41.5491	92.9224	-785	QK	2.3	0	6.1	-2	1.1	0	0.377	0	2.071	0	5.498	-1	1899	40	2.1
51054.7	10000	41.5491	92.9216	-783	QK	2.4	0	6.5	-1	1.1	0	0.367	0	2.242	0	6.114	-1	1876	59	2.1
51054.8	10000	41.5491	92.9208	-781	QK	2.4	0	6.3	-1	1.1	-1	0.379	0	2.280	0	6.019	-1	1858	48	2.1
51054.9	10000	41.5491	92.9199	-778	QK	2.3	0	6.6	-1	1.0	-1	0.354	0	2.248	0	6.348	0	1862	40	2.1
51055.0	10000	41.5491	92.9191	-776	QK	2.3	0	7.1	0	1.1	0	0.331	0	2.109	0	6.378	0	1864	27	2.1
51055.1	10000	41.5491	92.9183	-773	QK	2.5	0	7.2	0	1.1	0	0.343	0	2.262	0	6.601	0	1889	39	2.1
51055.2	10000	41.5491	92.9174	-772	QK	2.3	0	7.4	0	1.1	0	0.315	0	2.034	0	6.448	0	1937	39	2.0
51055.3	10000	41.5491	92.9166	-771	QK	2.6	0	7.3	0	1.1	0	0.351	0	2.295	0	6.530	0	1964	42	2.0
51055.4	10000	41.5491	92.9158	-769	QK	2.3	0	7.3	0	1.2	0	0.322	0	2.009	-1	6.230	0	1982	42	2.0
51055.5	10000	41.5491	92.9149	-767	QK	2.6	0	7.4	0	1.2	1	0.349	0	2.171	0	6.223	0	2017	43	2.0
51055.6	10000	41.5491	92.9141	-765	QK	2.5	0	7.2	0	1.2	1	0.352	0	2.044	0	5.801	-1	2026	56	2.0
51055.7	10000	41.5491	92.9133	-763	QK	2.3	0	6.9	0	1.3	1	0.336	0	1.861	-1	5.534	-1	2033	56	2.0
51055.8	10000	41.5490	92.9124	-761	QK	2.4	0	7.0	0	1.3	2	0.345	0	1.832	-1	5.315	-2	2033	30	2.0
51055.9	10000	41.5490	92.9116	-759	QK	2.2	-1	6.6	-1	1.3	1	0.336	0	1.763	-1	5.242	-2	1995	48	2.0
51056.0	10000	41.5490	92.9108	-757	QK	2.1	-1	6.8	-1	1.3	1	0.311	-1	1.675	-1	5.380	-2	1979	43	2.0
51056.1	10000	41.5490	92.9099	-754	QK	2.1	-1	6.9	0	1.3	1	0.311	-1	1.681	-1	5.414	-2	1976	49	2.0
51056.2	10000	41.5490	92.9091	-753	QK	2.0	-1	7.0	0	1.3	1	0.281	-1	1.555	-2	5.528	-1	1957	38	2.0
51056.3	10000	41.5490	92.9083	-751	QK	2.2	-1	7.2	0	1.2	1	0.310	-1	1.804	-1	5.815	-1	1968	54	2.0
51056.4	10000	41.5490	92.9074	-750	QK	2.4	0	7.3	0	1.2	1	0.328	0	2.076	0	6.321	0	1970	50	2.0
51056.5	10000	41.5490	92.9066	-748	QAL	2.3	0	7.5	1	1.1	1	0.311	-1	2.051	0	6.588	1	1969	31	2.0
51056.6	10000	41.5490	92.9058	-746	QAL	2.7	0	7.4	1	1.2	1	0.368	0	2.343	0	6.372	0	1994	47	2.0
51056.7	10000	41.5490	92.9049	-745	QAL	2.8	1	7.7	1	1.2	1	0.358	0	2.297	0	6.412	0	2018	35	2.0
51056.8	10000	41.5490	92.9041	-743	QAL	2.7	0	7.4	1	1.2	1	0.366	0	2.319	0	6.331	0	2027	37	2.0
51056.9	10000	41.5490	92.9033	-740	QAL	2.5	0	7.2	1	1.2	1	0.343	0	2.042	0	5.956	0	2042	44	2.0
51057.0	10000	41.5489	92.9024	-739	QAL	2.4	0	7.6	1	1.2	1	0.309	-1	1.934	-1	6.251	0	2042	51	2.0
51057.1	10000	41.5489	92.9016	-737	QAL	2.3	0	7.5	1	1.2	1	0.303	-1	1.811	-1	5.978	0	2050	33	2.0
51057.2	10000	41.5489	92.9008	-736	QAL	2.4	0	7.4	1	1.3	1	0.322	-1	1.884	-1	5.853	0	2062	41	2.0
51057.3	10000	41.5489	92.8999	-734	QK	2.2	-1	7.7	1	1.3	1	0.283	-1	1.685	-1	5.955	-1	2070	37	2.0
51057.4	10000	41.5489	92.8991	-732	QK	2.1	0	7.7	1	1.2	1	0.277	-1	1.719	-1	6.207	0	2062	40	2.0
51057.5	10000	41.5489	92.8983	-730	QK	2.5	1	7.7	1	1.2	1	0.321	0	2.033	0	6.329	0	2049	49	2.0
51057.6	10000	41.5489	92.8974	-728	QK	2.8	1	8.1	1	1.2	1	0.342	0	2.372	1	6.926	0	2042	43	2.0
51057.7	10000	41.5489	92.8966	-725	QK	3.1	1	7.8	1	1.2	1	0.392	0	2.645	1	6.752	0	2042	49	2.0
51057.8	10000	41.5489	92.8958	-723	QK	3.1	1	8.2	1	1.2	1	0.379	0	2.654	1	6.999	0	2034	48	2.0
51057.9	10000	41.5489	92.8949	-724	QK	2.9	1	7.9	1	1.1	1	0.372	0	2.658	1	7.140	0	2020	42	2.0
51058.0	10000	41.5489	92.8941	-723	QK	3.2	1	7.5	1	1.1	0	0.420	0	3.018	2	7.191	0	1984	38	2.0
51058.1	10000	41.5488	92.8933	-722	QK	3.1	1	7.1	1	1.1	0	0.435	0	2.966	1	6.819	0	1960	31	2.0
51058.2	10000	41.5488	92.8925	-720	QAL	3.1	1	7.2	1	1.1	0	0.428	0	3.019	1	7.060	0	1926	44	2.0
51058.3	10000	41.5488	92.8916	-719	QAL	2.9	1	7.1	1	1.1	0	0.414	0	2.932	1	7.076	0	1906	39	2.0
51058.4	10000	41.5488	92.8908	-717	QAL	2.7	1	7.3	1	1.1	0	0.371	0	2.798	1	7.533	1	1880	57	2.0
51058.5	10000	41.5488	92.8900	-715	QAL	2.7	1	7.2	1	1.1	0	0.368	0	2.683	1	7.300	1	1872	45	2.0
51058.6	10000	41.5488	92.8891	-713	QAL	2.6	1	7.3	1	1.1	0	0.342	0	2.480	1	7.244	1	1867	34	2.0
51058.7	10000	41.5488	92.8883	-712	QAL	2.6	1	7.7	1	1.1	0	0.333	0	2.362	1	7.095	1	1888	38	2.0
51058.8	10000	41.5488	92.8875	-710	QK	2.6	1	8.0	1	1.1	0	0.326	0	2.414	1	7.408	1	1898	53	2.0
51058.9	10000	41.5488	92.8866	-707	QK	2.3	0	8.0	1	1.1	0	0.292	-1	2.038	1	6.982	1	1921	43	2.0
51059.0	10000	41.5488	92.8858	-702	QK	2.4	0	8.0	1	1.2	0	0.297	-1	2.018	-1	6.793	0	1942	46	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51059.1	10000	41.5487	92.8850	-700	QK	2.5	0	7.4	0	1.2	1	0.331	0	2.008	-1	6.073	-1	1953	48	2.0
51059.2	10000	41.5487	92.8841	-703	QK	2.4	0	7.1	0	1.2	1	0.342	0	1.981	-1	5.799	-1	1970	27	2.0
51059.3	10000	41.5487	92.8833	-703	QK	2.5	0	7.2	0	1.2	1	0.348	0	2.012	-1	5.786	-1	1981	44	2.0
51059.4	10000	41.5487	92.8825	-701	QK	2.2	-1	7.2	0	1.2	1	0.314	-1	1.850	-1	5.896	-1	1981	51	2.0
51059.5	10000	41.5487	92.8816	-699	QK	2.5	0	6.8	-1	1.3	1	0.370	0	1.974	-1	5.329	-2	1998	54	2.0
51059.6	10000	41.5487	92.8808	-697	QK	2.7	0	6.7	-1	1.2	1	0.404	1	2.160	0	5.353	-2	2004	52	2.0
51059.7	10000	41.5487	92.8800	-695	QK	2.9	1	6.6	-1	1.2	1	0.435	1	2.329	0	5.358	-2	2000	40	2.0
51059.8	10000	41.5487	92.8791	-693	QK	2.8	1	6.8	-1	1.2	1	0.414	1	2.275	0	5.493	-1	2006	40	2.0
51059.9	10000	41.5487	92.8783	-691	QK	2.8	1	6.8	-1	1.2	1	0.415	1	2.389	0	5.757	-1	1980	40	2.0
51060.0	10000	41.5487	92.8775	-689	QK	2.8	1	6.6	-1	1.1	0	0.431	1	2.492	0	5.775	-1	1957	38	2.0
51060.1	10000	41.5487	92.8766	-687	QK	2.9	1	6.7	-1	1.1	0	0.432	1	2.553	1	5.905	-1	1945	44	2.0
51060.2	10000	41.5486	92.8758	-685	QK	2.6	0	6.4	-1	1.1	0	0.403	1	2.332	0	5.786	-1	1908	52	2.0
51060.3	10000	41.5486	92.8750	-684	QK	2.4	0	6.8	-1	1.2	0	0.344	0	2.026	-1	5.892	-1	1894	40	2.0
51060.4	10000	41.5486	92.8741	-683	QK	2.0	-1	6.6	-1	1.2	1	0.303	-1	1.666	-1	5.494	-1	1870	47	2.0
51060.5	10000	41.5486	92.8733	-681	QK	1.9	-1	6.8	-1	1.3	1	0.279	-1	1.519	-2	5.438	-1	1860	31	2.0
51060.6	10000	41.5486	92.8725	-679	QK	1.8	-1	6.7	-1	1.3	2	0.269	-1	1.388	-2	5.167	-2	1870	39	2.0
51060.7	10000	41.5486	92.8716	-676	QK	1.9	-1	7.0	0	1.3	2	0.267	-1	1.404	-2	5.256	-2	1899	36	2.0
51060.8	10000	41.5486	92.8708	-674	QK	1.9	-1	6.9	0	1.4	2	0.275	-1	1.368	-2	4.975	-2	1915	52	2.0
51060.9	10000	41.5486	92.8700	-673	QK	1.8	-1	7.5	0	1.4	3	0.242	-2	1.290	-2	5.321	-2	1948	36	2.0
51061.0	10000	41.5486	92.8692	-671	QK	1.8	-1	7.8	1	1.4	2	0.234	-2	1.306	-2	5.569	-1	1968	53	2.0
51061.1	10000	41.5486	92.8683	-669	QK	1.9	-1	8.0	1	1.4	2	0.241	-2	1.390	-2	5.775	-1	1999	36	2.0
51061.2	10000	41.5485	92.8675	-667	QK	2.0	-1	8.1	1	1.3	2	0.245	-1	1.476	-2	6.030	-1	2003	40	2.0
51061.3	10000	41.5485	92.8667	-666	QK	2.2	-1	8.4	2	1.3	2	0.259	-1	1.655	-1	6.396	0	2013	47	2.0
51061.4	10000	41.5485	92.8658	-665	QK	2.1	-1	8.3	1	1.3	2	0.251	-1	1.563	-1	6.225	0	2010	37	2.0
51061.5	10000	41.5485	92.8650	-664	QK	2.0	-1	8.4	1	1.3	2	0.239	-2	1.505	-2	6.309	0	2006	43	2.0
51061.6	10000	41.5485	92.8642	-662	QK	2.1	-1	7.9	1	1.3	2	0.263	-1	1.578	-1	5.997	-1	1990	48	2.0
51061.7	10000	41.5485	92.8633	-660	QK	2.2	-1	7.7	1	1.3	2	0.291	-1	1.698	-1	5.838	-1	1964	48	2.0
51061.8	10000	41.5485	92.8625	-658	QK	2.4	-1	7.5	0	1.3	2	0.319	-1	1.889	-1	5.917	-1	1945	35	2.0
51061.9	10000	41.5485	92.8617	-657	QK	2.4	-1	7.5	0	1.3	2	0.319	-1	1.947	-1	6.114	-1	1927	44	2.0
51062.0	10000	41.5485	92.8608	-656	QK	2.1	-1	7.7	1	1.3	2	0.272	-1	1.689	-1	6.208	0	1897	47	2.0
51062.1	10000	41.5485	92.8600	-655	QK	1.8	-1	7.9	1	1.3	2	0.232	-2	1.497	-1	6.455	0	1865	36	2.0
51062.2	10000	41.5485	92.8592	-654	QK	2.0	-1	7.5	1	1.3	2	0.270	-1	1.745	-1	6.473	0	1840	39	2.0
51062.3	10000	41.5484	92.8583	-652	QK	2.1	-1	7.9	1	1.3	2	0.266	-1	1.874	-1	7.051	0	1830	45	2.0
51062.4	10000	41.5484	92.8575	-651	QK	2.0	-1	7.7	1	1.3	2	0.260	-1	1.790	-1	6.891	0	1821	44	2.0
51062.5	10000	41.5484	92.8567	-651	QK	1.8	-1	7.9	1	1.3	2	0.226	-2	1.555	-2	6.879	0	1808	54	2.0
51062.6	10000	41.5484	92.8558	-649	QK	1.6	-2	7.8	1	1.3	2	0.209	-2	1.366	-2	6.533	0	1818	45	2.0
51062.7	10000	41.5484	92.8550	-648	QK	1.5	-2	7.6	1	1.3	2	0.196	-2	1.234	-2	6.289	0	1839	38	2.0
51062.8	10000	41.5484	92.8542	-647	QK	1.6	-2	7.4	1	1.3	2	0.221	-2	1.341	-2	6.055	-1	1854	45	2.0
51062.9	10000	41.5484	92.8533	-646	QK	1.4	-2	7.7	1	1.3	2	0.187	-2	1.188	-2	6.346	0	1864	37	2.0
51063.0	10000	41.5484	92.8525	-646	QK	1.1	-2	7.6	1	1.3	2	0.169	-2	1.045	-3	6.183	0	1869	39	2.0
51063.1	10000	41.5484	92.8517	-646	QK	1.1	-2	8.0	1	1.3	2	0.159	-2	1.045	-3	6.571	0	1887	41	2.0
51063.2	10000	41.5484	92.8508	-645	QK	1.2	-2	8.0	1	1.3	2	0.158	-2	1.100	-2	6.954	0	1901	51	2.0
51063.3	10000	41.5483	92.8500	-645	QK	1.3	-2	8.0	1	1.3	2	0.181	-2	1.269	-2	7.019	0	1900	40	2.0
51063.4	10000	41.5483	92.8492	-645	QK	1.3	-2	7.8	1	1.3	2	0.220	-2	1.512	-2	6.882	0	1887	33	2.0
51063.5	10000	41.5483	92.8483	-645	QK	1.3	-2	7.7	1	1.3	2	0.266	-2	1.742	-2	6.551	-1	1908	40	2.0
51063.6	10000	41.5483	92.8475	-645	QK	1.3	-2	7.7	1	1.3	2	0.270	-2	1.742	-2	6.441	-1	1917	40	2.0
51063.7	10000	41.5483	92.8467	-644	QK	1.3	-2	7.7	1	1.3	2	0.271	-2	1.738	-2	6.417	-1	1910	41	2.0
51063.8	10000	41.5483	92.8458	-645	QK	1.3	-2	7.7	1	1.3	2	0.306	-2	1.885	-1	6.167	-1	1897	33	2.0
51063.9	10000	41.5483	92.8450	-645	QK	1.3	-2	7.7	1	1.3	2	0.316	-2	1.878	-1	5.934	-1	1891	45	2.0
51064.0	10000	41.5483	92.8442	-645	QK	1.3	-2	7.7	1	1.3	2	0.322	-2	1.934	-1	6.004	-1	1894	32	2.0
51064.1	10000	41.5483	92.8434	-645	QK	1.3	-2	7.7	1	1.3	2	0.334	-2	2.013	-1	6.031	-1	1910	42	2.0
51064.2	10000	41.5483	92.8425	-645	QK	1.1	-2	7.4	0	1.2	1	0.288	-1	1.863	-1	6.458	0	1902	48	2.0

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51064.3	10000	41.5483	92.8417	-644	QK	2.2	-1	7.4	0	1.2	1	0.301	-1	1.871	-1	6.211	0	1922	55	2.0
51064.4	10000	41.5482	92.8409	-643	QK	2.5	0	7.5	0	1.2	1	0.334	0	2.101	0	6.283	0	1941	58	2.0
51064.5	10000	41.5482	92.8400	-643	QK	2.2	-1	7.6	1	1.2	1	0.294	-1	1.851	-1	6.290	0	1949	49	2.0
51064.6	10000	41.5482	92.8392	-643	QK	2.2	-1	7.5	0	1.3	1	0.300	-1	1.789	-1	5.956	-1	1976	47	2.0
51064.7	10000	41.5482	92.8383	-643	QK	2.1	-1	7.2	0	1.3	1	0.289	-1	1.672	-1	5.777	-1	1992	46	2.0
51064.8	10000	41.5482	92.8375	-643	QK	2.1	-1	7.1	0	1.3	1	0.296	-1	1.669	-1	5.642	-1	1992	56	2.0
51064.9	10000	41.5482	92.8367	-643	QK	2.3	0	7.1	0	1.3	1	0.324	0	1.825	-1	5.638	-1	1985	58	2.0
51065.0	10000	41.5482	92.8359	-643	QK	2.3	0	6.8	-1	1.2	1	0.337	0	1.941	-1	5.768	-1	1944	38	2.0
51065.1	10000	41.5482	92.8350	-642	QK	2.3	0	6.8	-1	1.2	1	0.343	0	1.997	-1	5.819	-1	1919	36	2.0
51065.2	10000	41.5482	92.8342	-639	QK	2.5	0	6.7	-1	1.2	1	0.369	0	2.120	0	5.748	-1	1918	41	2.0
51065.3	10000	41.5481	92.8334	-638	QK	2.6	0	6.7	-1	1.1	0	0.384	0	2.393	0	6.227	0	1893	37	2.0
51065.4	10000	41.5481	92.8325	-641	QK	2.8	1	6.7	-1	1.0	-1	0.411	1	2.671	1	6.494	0	1886	41	2.0
51065.5	10000	41.5481	92.8317	-643	QK	2.6	0	6.9	0	1.1	0	0.370	0	2.409	0	6.509	0	1899	41	2.0
51065.6	10000	41.5481	92.8309	-643	QK	2.6	0	7.0	0	1.1	0	0.368	0	2.354	0	6.390	0	1907	65	2.0
51065.7	10000	41.5481	92.8300	-643	QK	2.5	0	7.2	0	1.1	0	0.346	0	2.227	0	6.443	0	1939	49	2.0
51065.8	10000	41.5481	92.8292	-643	QK	2.2	-1	7.4	1	1.2	1	0.302	-1	1.892	-1	6.268	0	1973	51	2.0
51065.9	10000	41.5481	92.8284	-643	QK	2.3	0	7.7	1	1.2	1	0.302	-1	1.951	-1	6.450	0	1982	42	2.0
51066.0	10000	41.5481	92.8275	-643	QK	2.3	0	7.6	1	1.3	1	0.304	-1	1.823	-1	6.000	-1	2006	42	2.0
51066.1	10000	41.5481	92.8267	-644	QK	2.2	-1	8.0	1	1.3	2	0.277	-1	1.645	-1	5.940	-1	2012	41	2.0
51066.2	10000	41.5481	92.8259	-643	QK	2.3	0	8.0	1	1.3	2	0.287	-1	1.741	-1	6.066	-1	1992	49	2.0
51066.3	10000	41.5480	92.8250	-644	QK	2.4	0	7.8	1	1.3	1	0.309	-1	1.870	-1	6.049	-1	1994	41	2.0
51066.4	10000	41.5480	92.8242	-644	QK	2.5	0	7.4	0	1.3	1	0.334	0	1.961	-1	5.879	-1	1975	41	2.0
51066.5	10000	41.5480	92.8234	-644	QK	2.4	0	7.6	1	1.2	1	0.317	0	1.984	-1	6.269	0	1956	48	2.0
51066.6	10000	41.5480	92.8225	-643	QK	2.4	0	7.5	0	1.2	1	0.322	0	1.997	-1	6.211	0	1948	57	2.0
51066.7	10000	41.5480	92.8217	-643	QK	2.2	-1	7.5	0	1.2	1	0.295	-1	1.860	-1	6.297	0	1906	60	2.0
51066.8	10000	41.5480	92.8209	-643	QK	2.3	-1	7.0	0	1.1	0	0.323	0	2.013	-1	6.240	0	1863	55	2.0
51066.9	10000	41.5480	92.8200	-642	QK	2.4	0	7.0	0	1.1	0	0.341	0	2.123	0	6.234	0	1867	54	2.0
51067.0	10000	41.5480	92.8192	-641	QK	2.3	0	7.3	0	1.1	0	0.320	0	2.162	0	6.764	0	1855	42	2.1
51067.1	10000	41.5480	92.8184	-641	QK	2.4	0	7.4	0	1.1	0	0.323	0	2.136	0	6.612	0	1866	41	2.1
51067.2	10000	41.5480	92.8176	-640	QK	2.4	0	7.5	0	1.1	0	0.317	0	2.113	0	6.662	0	1868	42	2.1
51067.3	10000	41.5480	92.8167	-640	QK	2.2	-1	7.3	0	1.1	0	0.308	0	1.969	-1	6.400	0	1877	46	2.1
51067.4	10000	41.5479	92.8159	-639	QK	2.4	0	7.5	0	1.1	0	0.347	0	2.162	0	6.233	0	1883	41	2.1
51067.5	10000	41.5479	92.8150	-639	QK	2.2	-1	7.3	0	1.1	0	0.321	0	1.972	-1	6.152	0	1891	46	2.1
51067.6	10000	41.5479	92.8142	-639	QK	2.0	-1	7.0	0	1.1	0	0.288	-1	1.806	-1	6.269	0	1866	45	2.1
51067.7	10000	41.5479	92.8134	-638	QK	1.8	-2	6.9	0	1.1	0	0.257	-1	1.532	-2	5.954	-1	1857	59	2.1
51067.8	10000	41.5479	92.8125	-638	QK	1.8	-1	6.8	-1	1.1	0	0.255	-1	1.597	-1	6.253	0	1847	52	2.1
51067.9	10000	41.5479	92.8117	-638	QK	1.9	-1	6.7	-1	1.1	0	0.297	-1	1.750	-1	5.893	-1	1829	48	2.1
51068.0	10000	41.5479	92.8109	-637	QK	2.1	0	6.8	-1	1.1	0	0.314	0	2.052	0	6.542	0	1817	56	2.1
51068.1	10000	41.5479	92.8101	-637	QK	2.0	-1	6.8	-1	1.1	0	0.275	-1	1.891	-1	6.870	0	1830	48	2.1
51068.2	10000	41.5479	92.8092	-637	QK	2.2	0	7.0	0	1.1	0	0.302	-1	2.058	0	6.822	0	1864	61	2.1
51068.3	10000	41.5478	92.8084	-637	QK	2.5	0	7.2	0	1.1	0	0.348	0	2.435	1	7.005	0	1900	45	2.1
51068.4	10000	41.5478	92.8076	-637	QK	2.9	1	7.4	1	1.2	1	0.393	1	2.785	1	7.092	0	1931	34	2.1
51068.5	10000	41.5478	92.8067	-636	QK	3.0	1	7.4	1	1.2	1	0.402	1	2.815	1	6.996	0	1965	35	2.1
51068.6	10000	41.5478	92.8059	-636	QK	2.8	0	7.3	1	1.2	1	0.373	0	2.528	1	6.772	0	2003	60	2.1
51068.7	10000	41.5478	92.8051	-636	QK	2.7	0	7.3	1	1.2	1	0.360	0	2.312	1	6.429	0	2021	47	2.1
51068.8	10000	41.5478	92.8042	-636	QK	2.8	0	7.3	1	1.2	1	0.369	0	2.327	1	6.307	0	2047	41	2.1
51068.9	10000	41.5478	92.8034	-635	QK	2.6	0	7.3	1	1.3	1	0.326	0	2.062	1	6.330	0	2056	52	2.1
51069.0	10000	41.5478	92.8026	-635	QK	2.3	-1	7.1	1	1.3	1	0.287	-1	1.779	-1	6.205	0	2055	43	2.1
51069.1	10000	41.5478	92.8017	-634	QK	2.2	-1	7.0	1	1.3	1	0.282	-1	1.696	-2	6.021	-1	2059	40	2.1
51069.2	10000	41.5478	92.8009	-634	QK	2.0	-1	6.9	1	1.3	1	0.248	-1	1.472	-2	5.941	-1	2056	53	2.1
51069.3	10000	41.5478	92.8001	-634	QK	2.0	-1	6.9	1	1.3	1	0.253	-1	1.526	-2	6.021	-1	2053	36	2.2
51069.4	10000	41.5477	92.7992	-634	QK	2.1	-1	7.5	1	1.3	1	0.284	-1	1.644	-1	5.799	-1	2055	46	2.2

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51069.5	10000	41.5477	92.7984	-634	QK	2.4	0	7.7	1	1.3	1	0.313	-1	1.914	-1	6.107	-1	2049	37	2.2
51069.6	10000	41.5477	92.7976	-633	QK	2.7	0	7.8	1	1.2	1	0.341	0	2.232	0	6.549	0	2046	46	2.2
51069.7	10000	41.5477	92.7967	-630	QK	3.1	1	7.6	0	1.2	1	0.408	1	2.581	1	6.325	0	2053	43	2.2
51069.8	10000	41.5477	92.7959	-628	QK	2.8	1	7.7	1	1.2	1	0.368	0	2.338	0	6.360	0	2060	39	2.2
51069.9	10000	41.5477	92.7951	-632	QK	2.9	1	7.6	1	1.2	1	0.375	0	2.348	0	6.261	0	2027	45	2.2
51070.0	10000	41.5477	92.7942	-634	QK	3.0	1	7.6	1	1.2	1	0.388	1	2.469	0	6.366	0	2006	43	2.2
51070.1	10000	41.5477	92.7934	-635	QK	3.1	1	7.7	1	1.2	1	0.403	1	2.627	1	6.517	0	2004	41	2.2
51070.2	10000	41.5477	92.7926	-634	QK	2.7	0	7.3	0	1.2	1	0.375	0	2.268	0	6.053	-1	1971	44	2.2
51070.3	10000	41.5476	92.7917	-634	QK	2.3	-1	7.1	0	1.2	1	0.322	0	1.868	-1	5.794	-1	1955	52	2.2
51070.4	10000	41.5476	92.7909	-634	QK	2.1	-1	7.2	0	1.2	1	0.295	-1	1.787	-1	6.067	-1	1941	32	2.2
51070.5	10000	41.5476	92.7901	-634	QK	2.3	0	6.9	0	1.1	0	0.335	0	2.038	0	6.087	-1	1934	43	2.2
51070.6	10000	41.5476	92.7892	-634	QK	2.3	-1	7.2	0	1.2	0	0.317	0	1.944	-1	6.126	-1	1966	60	2.2
51070.7	10000	41.5476	92.7884	-634	QK	2.2	-1	7.2	0	1.2	0	0.309	-1	1.887	-1	6.104	-1	1974	41	2.2
51070.8	10000	41.5476	92.7876	-634	QK	2.0	-1	7.0	0	1.2	1	0.285	-1	1.644	-1	5.767	-1	1981	39	2.2
51070.9	10000	41.5476	92.7867	-634	QK	1.9	-1	7.6	0	1.2	1	0.254	-1	1.543	-2	6.083	-1	1996	50	2.2
51071.0	10000	41.5476	92.7859	-635	QK	2.2	-1	7.9	1	1.3	1	0.282	-1	1.733	-1	6.151	0	1998	41	2.2
51071.1	10000	41.5476	92.7851	-634	QK	2.0	-1	7.7	1	1.3	2	0.252	-1	1.494	-2	5.923	-1	2007	42	2.2
51071.2	10000	41.5476	92.7843	-634	QK	1.8	-1	7.9	1	1.4	2	0.234	-2	1.358	-2	5.802	-1	2003	45	2.2
51071.3	10000	41.5476	92.7834	-634	QK	2.0	-1	7.9	1	1.3	2	0.252	-1	1.501	-2	5.951	-1	1997	40	2.2
51071.4	10000	41.5475	92.7826	-634	QK	2.1	-1	8.0	1	1.3	2	0.258	-1	1.533	-2	5.935	-1	2011	36	2.2
51071.5	10000	41.5475	92.7818	-635	QK	2.0	-1	8.1	1	1.3	1	0.242	-2	1.512	-2	6.255	0	2003	50	2.2
51071.6	10000	41.5475	92.7809	-635	QK	2.0	-1	7.7	1	1.2	1	0.262	-1	1.618	-1	6.162	0	2005	50	2.2
51071.7	10000	41.5475	92.7801	-634	QK	2.1	-1	7.1	0	1.2	1	0.294	-1	1.746	-1	5.934	-1	2007	41	2.2
51071.8	10000	41.5475	92.7793	-634	QK	2.3	0	7.3	0	1.2	1	0.320	0	1.957	-1	6.115	-1	2011	47	2.2
51071.9	10000	41.5475	92.7784	-634	QK	2.3	0	7.3	0	1.2	0	0.322	0	2.032	0	6.303	0	2002	42	2.2
51072.0	10000	41.5475	92.7776	-633	QK	2.2	-1	7.0	0	1.2	0	0.313	-1	1.873	-1	5.980	-1	1987	38	2.2
51072.1	10000	41.5475	92.7768	-633	QK	2.0	-1	6.8	-1	1.1	0	0.288	-1	1.708	-1	5.940	-1	1962	61	2.2
51072.2	10000	41.5475	92.7759	-633	QK	2.1	-1	6.8	-1	1.2	1	0.313	-1	1.754	-1	5.601	-1	1962	46	2.2
51072.3	10000	41.5474	92.7751	-632	QK	2.1	-1	7.0	0	1.2	1	0.306	-1	1.738	-1	5.679	-1	1966	49	2.2
51072.4	10000	41.5474	92.7743	-633	QK	2.0	-1	7.6	1	1.3	2	0.259	-1	1.586	-1	6.119	-1	1968	52	2.2
51072.5	10000	41.5474	92.7734	-633	QK	1.9	-1	7.7	1	1.3	2	0.247	-1	1.512	-2	6.128	-1	1976	40	2.2
51072.6	10000	41.5474	92.7726	-632	QK	1.9	-1	7.7	1	1.3	2	0.242	-2	1.418	-2	5.854	-1	1976	34	2.2
51072.7	10000	41.5474	92.7718	-632	QK	2.0	0	7.6	1	1.3	2	0.263	-1	1.590	-1	6.034	-1	1971	35	2.2
51072.8	10000	41.5474	92.7710	-631	QK	2.5	1	7.8	1	1.2	2	0.316	0	1.970	-1	6.236	0	1994	48	2.2
51072.9	10000	41.5474	92.7701	-631	QK	2.5	1	7.9	1	1.2	2	0.318	0	2.083	0	6.554	0	1998	38	2.2
51073.0	10000	41.5474	92.7693	-630	QK	2.5	1	7.5	1	1.2	2	0.338	0	2.181	0	6.458	0	1999	46	2.2
51073.1	10000	41.5474	92.7685	-629	QK	2.6	1	7.4	1	1.2	2	0.350	0	2.189	0	6.252	0	2004	51	2.2
51073.2	10000	41.5474	92.7676	-629	QK	2.7	1	7.3	1	1.2	2	0.369	1	2.311	0	6.254	0	2009	34	2.2
51073.3	10000	41.5474	92.7668	-628	QK	2.7	1	7.7	1	1.2	2	0.354	0	2.506	1	7.079	0	2021	55	2.2
51073.4	10000	41.5474	92.7660	-627	QK	2.5	1	7.8	1	1.1	1	0.323	0	2.216	0	6.870	0	2041	46	2.2
51073.5	10000	41.5474	92.7652	-627	QK	2.5	1	7.8	1	1.1	1	0.323	0	2.205	1	6.822	0	2055	38	2.2
51073.6	10000	41.5474	92.7643	-627	QK	2.3	1	7.9	1	1.1	1	0.295	-1	2.078	0	7.033	1	2067	40	2.2
51073.7	10000	41.5474	92.7635	-626	QK	2.6	1	8.2	1	1.1	1	0.313	-1	2.255	0	7.205	1	2066	35	2.2
51073.8	10000	41.5474	92.7627	-626	QK	2.5	1	8.0	1	1.1	1	0.328	0	2.353	0	7.181	1	2058	50	2.2
51073.9	10000	41.5474	92.7619	-626	QK	2.6	1	7.5	1	1.1	1	0.340	0	2.376	0	6.987	1	2054	44	2.2
51074.0	10000	41.5474	92.7610	-626	QK	2.4	1	7.4	1	1.1	1	0.330	0	2.127	0	6.450	0	2045	48	2.2
51074.1	10000	41.5474	92.7602	-625	QK	2.7	1	7.5	1	1.1	1	0.357	0	2.335	0	6.534	1	2039	47	2.2
51074.2	10000	41.5474	92.7594	-625	QK	2.5	1	7.4	1	1.1	1	0.344	0	2.330	0	6.770	1	2030	49	2.2
51074.3	10000	41.5474	92.7585	-624	QK	2.7	1	7.3	1	1.2	2	0.371	0	2.351	0	6.335	0	2022	55	2.2
51074.4	10000	41.5474	92.7577	-623	QK	2.6	1	7.4	1	1.2	2	0.352	0	2.126	-1	6.037	-1	2031	45	2.2
51074.5	10000	41.5474	92.7569	-622	QK	2.9	1	7.6	1	1.3	2	0.377	0	2.256	-1	5.982	-1	2051	55	2.2
51074.6	10000	41.5474	92.7561	-622	QK	2.9	1	7.6	1	1.2	1	0.379	0	2.367	0	6.246	0	2044	42	2.3

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51074.7	10000	41.5474	92.7552	-621	QK	3.1	1	7.3	0	1.2	1	0.424	1	2.605	1	6.150	0	2036	53	2.3
51074.8	10000	41.5474	92.7544	-621	QK	2.9	1	7.4	0	1.2	1	0.389	1	2.361	0	6.062	-1	2041	51	2.3
51074.9	10000	41.5474	92.7536	-621	QK	2.8	1	7.5	0	1.2	1	0.380	1	2.288	0	6.026	-1	2030	39	2.3
51075.0	10000	41.5474	92.7527	-621	QK	2.6	1	7.3	0	1.2	1	0.360	1	2.222	0	6.174	0	2023	50	2.2
51075.1	10000	41.5474	92.7519	-622	QK	2.6	1	7.5	0	1.1	0	0.350	0	2.287	0	6.542	0	2024	34	2.2
51075.2	10000	41.5474	92.7511	-622	QK	2.4	1	7.6	1	1.2	0	0.319	0	2.076	0	6.509	0	2026	44	2.2
51075.3	10000	41.5474	92.7503	-623	QK	2.4	1	7.9	1	1.2	1	0.310	-1	2.044	0	6.583	0	2022	47	2.2
51075.4	10000	41.5474	92.7494	-624	QK	2.6	1	7.8	1	1.2	1	0.330	0	2.194	0	6.640	0	2038	47	2.2
51075.5	10000	41.5474	92.7486	-625	QK	3.1	1	7.7	1	1.1	0	0.406	1	2.765	1	6.811	0	2034	41	2.2
51075.6	10000	41.5474	92.7478	-625	QK	3.1	1	7.5	1	1.1	0	0.408	1	2.736	1	6.709	0	2037	44	2.2
51075.7	10000	41.5474	92.7470	-627	QK	3.3	2	7.2	0	1.1	0	0.456	1	2.928	1	6.423	0	2040	53	2.2
51075.8	10000	41.5474	92.7461	-627	QK	3.3	2	6.8	-1	1.1	0	0.487	1	3.050	2	6.264	0	2024	43	2.2
51075.9	10000	41.5474	92.7453	-627	QK	3.5	2	6.9	0	1.0	-1	0.511	2	3.425	2	6.708	0	1996	42	2.2
51076.0	10000	41.5474	92.7445	-627	QK	3.2	2	6.6	-1	1.0	-1	0.493	2	3.260	2	6.619	0	1982	52	2.2
51076.1	10000	41.5474	92.7437	-626	QK	3.2	1	6.8	-1	1.0	-1	0.477	2	3.286	2	6.883	1	1972	54	2.2
51076.2	10000	41.5474	92.7428	-627	QK	2.8	1	6.9	0	1.0	-1	0.406	1	2.917	1	7.189	1	1951	40	2.2
51076.3	10000	41.5474	92.7420	-628	QK	2.9	1	6.9	-1	1.0	-1	0.420	1	2.987	2	7.118	1	1918	36	2.2
51076.4	10000	41.5474	92.7412	-627	QK	2.8	1	7.0	0	0.9	-2	0.395	1	2.964	1	7.497	1	1879	52	2.2
51076.5	10000	41.5474	92.7403	-627	QAL	2.7	1	6.6	0	0.9	-1	0.413	1	2.900	1	7.029	1	1829	42	2.2
51076.6	10000	41.5474	92.7395	-627	QAL	2.8	1	6.7	-1	0.9	-1	0.472	1	3.149	2	6.673	1	1781	43	2.2
51076.7	10000	41.5474	92.7387	-626	QAL	2.7	1	6.7	-1	0.9	-1	0.468	1	2.988	1	6.383	0	1731	44	2.2
51076.8	10000	41.5474	92.7379	-626	QAL	2.4	1	6.7	-1	0.9	-1	0.421	1	2.666	1	6.333	0	1693	57	2.2
51076.9	10000	41.5474	92.7370	-626	QAL	2.4	1	6.5	-1	0.9	-1	0.442	1	2.592	1	5.867	0	1683	50	2.2
51077.0	10000	41.5474	92.7362	-626	QAL	2.2	1	6.3	-1	1.0	-1	0.420	1	2.272	0	5.409	-1	1682	44	2.2
51077.1	10000	41.5474	92.7354	-626	QAL	2.2	1	6.4	-1	1.1	0	0.398	1	2.062	0	5.182	-1	1704	57	2.2
51077.2	10000	41.5474	92.7345	-627	QAL	2.2	1	6.5	-1	1.1	0	0.403	1	2.046	0	5.080	-1	1752	34	2.2
51077.3	10000	41.5474	92.7337	-627	QAL	2.0	1	6.0	-1	1.1	1	0.327	0	1.775	-1	5.435	-1	1793	39	2.2
51077.4	10000	41.5474	92.7329	-627	QAL	2.2	1	6.0	-1	1.2	1	0.371	0	1.892	-1	5.097	-1	1832	44	2.2
51077.5	10000	41.5474	92.7321	-627	QAL	2.5	1	5.8	-1	1.2	1	0.437	1	2.096	0	4.798	-2	1858	36	2.2
51077.6	10000	41.5474	92.7312	-627	QAL	2.7	1	5.9	-1	1.2	1	0.454	1	2.317	1	5.104	-1	1868	39	2.2
51077.7	10000	41.5474	92.7304	-627	QAL	2.9	1	6.0	-1	1.2	1	0.481	1	2.443	1	5.079	-1	1896	43	2.1
51077.8	10000	41.5474	92.7296	-627	QAL	3.2	2	5.8	-1	1.1	1	0.552	1	2.898	1	5.254	-1	1895	44	2.1
51077.9	10000	41.5474	92.7288	-626	QAL	3.3	2	6.3	0	1.1	1	0.524	1	3.089	2	5.896	0	1885	43	2.1
51078.0	10000	41.5474	92.7279	-626	QAL	3.3	2	6.0	-1	1.0	0	0.557	1	3.230	2	5.798	0	1883	39	2.1
51078.1	10000	41.5474	92.7271	-626	QAL	3.2	2	6.6	0	1.0	1	0.494	1	3.211	2	6.500	0	1903	42	2.1
51078.2	10000	41.5474	92.7263	-626	QAL	3.0	2	6.7	0	1.0	1	0.447	1	3.087	2	6.906	1	1907	45	2.1
51078.3	10000	41.5474	92.7254	-626	QAL	2.7	1	6.7	0	1.0	1	0.406	1	2.726	1	6.717	1	1911	48	2.1
51078.4	10000	41.5474	92.7246	-626	QAL	2.4	1	6.7	0	0.9	0	0.364	1	2.568	1	7.050	1	1894	46	2.1
51078.5	10000	41.5474	92.7238	-626	QAL	2.2	1	6.6	0	1.0	1	0.338	1	2.301	1	6.800	1	1897	43	2.1
51078.6	10000	41.5474	92.7230	-626	QK	2.2	1	6.6	-1	1.0	1	0.326	1	2.197	1	6.749	1	1910	52	2.1
51078.7	10000	41.5474	92.7221	-626	QK	2.2	1	6.7	-1	1.1	1	0.324	1	2.007	0	6.196	0	1924	34	2.1
51078.8	10000	41.5474	92.7213	-627	QK	2.0	1	6.5	-1	1.1	1	0.307	1	1.877	-1	6.117	-1	1924	48	2.1
51078.9	10000	41.5474	92.7205	-626	QK	2.4	1	6.8	-1	1.1	1	0.349	1	2.141	1	6.132	-1	1949	46	2.1
51079.0	10000	41.5474	92.7197	-627	QK	2.6	1	7.0	0	1.1	1	0.345	1	2.176	1	6.299	0	1974	38	2.1
51079.1	10000	41.5474	92.7188	-626	QK	2.6	1	7.1	0	1.1	1	0.373	1	2.336	1	6.267	0	1985	37	2.1
51079.2	10000	41.5474	92.7180	-626	QK	2.6	1	7.2	0	1.1	1	0.360	1	2.287	1	6.357	0	1981	48	2.1
51079.3	10000	41.5474	92.7172	-626	QK	2.4	1	7.1	0	1.1	2	0.341	1	2.106	1	6.176	0	1959	47	2.1
51079.4	10000	41.5474	92.7163	-627	QK	2.2	1	7.1	-1	1.1	1	0.314	-1	1.995	-1	6.363	0	1939	40	2.1
51079.5	10000	41.5474	92.7155	-627	QK	1.9	1	6.7	-1	1.1	1	0.336	1	1.971	-1	5.860	-1	1899	42	2.1
51079.6	10000	41.5474	92.7147	-628	QK	1.9	1	5.9	-2	1.1	1	0.333	1	1.843	-1	5.541	-1	1831	37	2.1
51079.7	10000	41.5474	92.7139	-629	QK	2.0	1	5.8	-2	1.1	1	0.345	1	1.904	-1	5.511	-1	1781	48	2.1
51079.8	10000	41.5474	92.7130	-630	QK	1.7	2	5.6	-2	1.0	-1	0.308	-1	1.721	-1	5.579	-1	1726	48	2.1

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-B AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51079.9	10000	41.5474	92.7122	-631	QK	1.7	-2	5.6	-2	1.0	-1	0.304	-1	1.689	-1	5.553	-1	1696	54	2.1
51080.0	10000	41.5474	92.7114	-632	QK	1.6	-2	5.2	-3	1.0	-1	0.317	0	1.711	-1	5.399	-2	1651	42	2.1
51080.1	10000	41.5474	92.7106	-633	QK	1.8	-1	5.0	-3	0.9	-2	0.368	0	2.059	0	5.595	-1	1615	49	2.1
51080.2	10000	41.5474	92.7097	-634	QK	2.1	-1	5.3	-3	0.8	-3	0.394	1	2.544	1	6.451	0	1602	38	2.1
51080.3	10000	41.5474	92.7089	-635	QK	2.1	-1	5.8	-2	0.8	-2	0.356	0	2.482	0	6.972	1	1630	38	2.1
51080.4	10000	41.5474	92.7081	-635	QK	1.9	-1	6.0	-2	0.8	-3	0.320	0	2.358	0	7.370	1	1654	45	2.1
51080.5	10000	41.5474	92.7072	-636	QK	2.0	-1	6.4	-1	0.9	-2	0.320	0	2.352	0	7.355	1	1718	32	2.1
51080.6	10000	41.5474	92.7064	-636	QK	2.0	-1	6.5	-1	0.9	-1	0.310	-1	2.115	0	6.823	0	1773	37	2.1
51080.7	10000	41.5474	92.7056	-637	QK	2.3	-1	6.8	-1	1.1	-1	0.330	0	2.136	0	6.476	0	1842	53	2.1
51080.8	10000	41.5474	92.7048	-637	QK	2.2	-1	7.1	0	1.1	0	0.315	-1	1.970	-1	6.259	0	1901	62	2.1
51080.9	10000	41.5474	92.7039	-637	QK	2.2	-1	7.3	0	1.2	1	0.297	-1	1.749	-1	5.887	-1	1961	49	2.1
51081.0	10000	41.5474	92.7031	-637	QK	2.2	-1	7.3	0	1.3	2	0.302	-1	1.691	-1	5.603	-1	1985	62	2.1
51081.1	10000	41.5474	92.7023	-637	QK	2.6	0	7.4	0	1.4	2	0.350	0	1.899	-1	5.419	-2	2004	27	2.1
51081.2	10000	41.5474	92.7014	-638	QK	2.6	0	7.3	0	1.4	2	0.355	0	1.855	-1	5.225	-2	2013	50	2.0
51081.3	10000	41.5474	92.7006	-639	QK	2.8	0	7.6	0	1.4	2	0.367	0	2.003	-1	5.462	-1	2004	38	2.0
51081.4	10000	41.5474	92.6998	-639	QK	2.6	0	7.5	0	1.3	2	0.354	0	1.977	-1	5.576	-1	2007	47	2.0
51081.5	10000	41.5474	92.6990	-640	QK	2.5	0	7.8	0	1.3	2	0.325	0	1.891	-1	5.825	-1	2012	45	2.0
51081.6	10000	41.5474	92.6981	-641	QK	2.7	0	7.4	0	1.3	2	0.359	0	2.041	0	5.686	-1	2012	48	2.0
51081.7	10000	41.5474	92.6973	-642	QK	2.8	0	7.6	0	1.3	1	0.372	0	2.198	0	5.916	-1	2029	43	2.0
51081.8	10000	41.5474	92.6965	-642	QK	2.7	0	7.3	0	1.3	1	0.371	0	2.118	0	5.713	-1	2035	54	2.0
51081.9	10000	41.5474	92.6957	-643	QK	2.9	0	7.4	0	1.2	0	0.385	0	2.353	0	6.109	-1	2019	43	2.0
51082.0	10000	41.5474	92.6948	-644	QK	2.6	0	7.2	0	1.2	0	0.368	0	2.296	0	6.238	0	2007	40	2.0
51082.1	10000	41.5474	92.6940	-644	QK	2.7	0	7.4	0	1.1	0	0.373	0	2.401	0	6.441	0	1998	33	2.0
51082.2	10000	41.5474	92.6932	-644	QK	2.8	1	6.9	0	1.1	0	0.402	1	2.445	0	6.084	-1	1980	51	2.0
51082.3	10000	41.5474	92.6924	-645	QK	2.9	1	7.4	0	1.1	0	0.395	1	2.723	1	6.889	1	1954	46	2.0
51082.4	10000	41.5474	92.6915	-645	QK	2.9	1	6.9	0	1.0	-1	0.417	1	2.766	1	6.638	0	1930	47	2.0
51082.5	10000	41.5474	92.6907	-645	QK	3.0	1	7.1	0	1.0	-1	0.426	1	3.104	2	7.295	1	1912	39	2.0
51082.6	10000	41.5474	92.6899	-646	QK	3.1	1	6.8	0	0.9	-1	0.462	2	3.330	2	7.203	1	1898	39	2.0
51082.7	10000	41.5474	92.6890	-647	QK	3.1	1	6.9	0	0.9	-1	0.448	2	3.282	2	7.319	1	1890	48	2.0
51082.8	10000	41.5474	92.6882	-647	QK	3.0	1	6.7	0	0.9	-2	0.449	2	3.379	3	7.525	1	1863	28	2.0
51082.9	10000	41.5474	92.6874	-648	QK	3.0	0	6.7	0	0.8	-2	0.442	2	3.585	3	8.105	2	1845	47	2.0
51083.0	10000	41.5474	92.6866	-648	QK	2.8	0	6.6	0	0.9	-2	0.416	2	3.068	3	7.381	1	1850	45	2.0
51083.1	10000	41.5474	92.6857	-648	QK	2.7	0	6.9	0	0.9	-2	0.398	2	2.991	3	7.519	1	1847	50	2.0
51083.2	10000	41.5474	92.6849	-649	QK	2.5	0	6.4	0	0.9	-2	0.388	2	2.584	3	6.664	1	1849	47	2.0
51083.3	10000	41.5474	92.6841	-649	QK	2.4	0	6.2	0	0.9	-2	0.384	1	2.512	2	6.549	1	1861	37	2.0
51083.4	10000	41.5474	92.6832	-649	QK	2.6	0	6.2	0	0.9	-2	0.428	2	2.880	3	6.730	1	1864	40	1.9
51083.5	10000	41.5474	92.6824	-650	QK	3.0	0	6.4	0	0.9	-2	0.462	2	3.407	3	7.38	1	1865	48	1.9
51083.6	10000	41.5474	92.6816	-650	QK	3.0	0	6.3	0	0.9	-2	0.484	2	3.352	3	6.932	1	1881	38	1.9
51083.7	10000	41.5474	92.6808	-650	QK	2.9	0	6.7	0	0.9	-2	0.430	2	3.241	3	7.538	1	1873	43	1.9
51083.8	10000	41.5474	92.6799	-651	QK	2.9	0	6.8	0	0.9	-2	0.423	2	3.212	3	7.588	2	1877	45	1.9
51083.9	10000	41.5474	92.6791	-651	QK	2.9	0	7.1	0	0.9	-2	0.405	2	3.227	3	7.974	2	1874	50	1.9
51084.0	10000	41.5474	92.6783	-651	QK	2.9	0	7.2	0	0.9	-2	0.401	2	3.176	3	7.920	2	1880	41	1.9
51084.1	10000	41.5474	92.6775	-652	QK	2.7	0	7.4	0	1.0	-1	0.370	1	2.723	2	7.366	1	1903	35	1.9
51084.2	10000	41.5474	92.6766	-652	QK	2.2	-1	7.6	0	1.1	-1	0.293	-1	2.025	2	6.922	1	1926	43	1.9
51084.3	10000	41.5474	92.6758	-653	QK	2.4	0	7.9	0	1.1	-1	0.309	-1	2.152	2	6.956	1	1950	34	1.9
51084.4	10000	41.5474	92.6750	-654	QK	2.5	0	7.9	0	1.1	-1	0.318	-1	2.228	2	7.002	1	1980	54	1.9
51084.5	10000	41.5474	92.6741	-655	QK	2.3	0	8.2	0	1.2	-1	0.285	-1	2.037	2	7.139	1	2003	45	1.9
51084.6	10000	41.5474	92.6733	-656	QK	2.6	0	8.5	0	1.2	-1	0.304	-1	2.196	2	7.226	1	2029	40	1.9
51084.7	10000	41.5474	92.6725	-656	QK	2.4	0	8.8	0	1.2	-1	0.272	-1	1.996	2	7.341	1	2036	35	1.8
51084.8	10000	41.5474	92.6717	-657	QK	2.4	0	8.8	0	1.2	-1	0.267	-1	1.987	2	7.428	1	2023	42	1.8
51084.9	10000	41.5473	92.6708	-657	QK	2.5	0	8.7	0	1.2	-1	0.289	-1	2.113	2	7.315	1	2011	37	1.8
51085.0	10000	41.5474	92.6700	-658	QK	2.4	0	8.6	0	1.1	0	0.282	-1	2.161	2	7.663	2	1994	32	1.8

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51085.1	10000	41.5474	92.6692	-659	QK	2.5	0	8.4	2	1.1	0	0.294	-1	2.214	0	7.529	1	1967	27	1.8
51085.2	10000	41.5473	92.6684	-660	QK	2.4	0	8.2	1	1.1	0	0.298	-1	2.220	0	7.459	1	1941	39	1.8
51085.3	10000	41.5473	92.6675	-661	QK	2.1	-1	8.0	1	1.0	-1	0.270	-1	2.064	0	7.643	2	1917	38	1.8
51085.4	10000	41.5473	92.6667	-661	QK	2.4	0	7.9	1	1.1	-1	0.304	-1	2.270	0	7.469	1	1921	43	1.8
51085.5	10000	41.5473	92.6659	-661	QK	2.6	0	7.7	1	1.0	-1	0.341	0	2.577	1	7.555	2	1921	47	1.8
51085.6	10000	41.5473	92.6650	-662	QK	2.7	0	7.7	1	1.0	-1	0.345	0	2.632	1	7.624	2	1923	36	1.8
51085.7	10000	41.5473	92.6642	-662	QK	2.4	0	7.8	1	1.1	0	0.309	-	2.211	0	7.159	1	1939	40	1.8
51085.8	10000	41.5473	92.6634	-662	QK	2.6	0	7.3	1	1.1	0	0.354	0	2.261	0	6.387	0	19[illegible]	41	1.8
51085.9	10000	41.5473	92.6626	-662	QK	2.7	0	7.4	1	1.3	0	0.367	0	2.166	0	5.909	-1	2009	46	1.7
51086.0	10000	41.5473	92.6617	-662	QK	2.9	0	7.4	1	1.3	1	0.391	0	2.232	0	5.704	-1	2023	40	1.7
51086.1	10000	41.5473	92.6609	-662	QK	2.7	0	7.5	1	1.3	1	0.354	0	2.070	0	5.844	-1	2012	32	1.7
51086.2	10000	41.5473	92.6601	-662	QK	2.6	0	7.6	1	1.3	2	0.337	0	1.944	-1	5.774	-1	2007	45	1.7
51086.3	10000	41.5473	92.6593	-661	QK	2.5	0	7.6	1	1.3	2	0.327	0	1.871	-1	5.720	-1	2026	46	1.7
51086.4	10000	41.5473	92.6584	-660	QK	2.8	0	7.0	1	1.3	2	0.399	1	2.130	0	5.333	-2	2021	51	1.7
51086.5	10000	41.5473	92.6576	-660	QK	2.4	0	7.6	1	1.3	1	0.318	0	1.880	-1	5.905	-1	1998	47	1.7
51086.6	10000	41.5473	92.6568	-658	QK	2.5	0	7.6	1	1.2	1	0.332	0	2.124	0	6.401	0	1980	40	1.7
51086.7	10000	41.5473	92.6559	-658	QK	2.5	0	7.4	1	1.2	0	0.334	0	2.102	0	6.292	0	1976	40	1.7
51086.8	10000	41.5473	92.6551	-657	QK	2.6	0	7.2	1	1.2	0	0.360	0	2.233	0	6.204	0	1977	52	1.7
51086.9	10000	41.5473	92.6543	-657	QK	2.8	1	7.1	1	1.1	0	0.390	1	2.464	0	6.315	0	1978	38	1.7
51087.0	10000	41.5473	92.6534	-656	QK	3.1	1	7.2	1	1.1	0	0.436	1	2.736	1	6.272	0	1964	50	1.6
51087.1	10000	41.5473	92.6526	-6[illegible]	QK	3.1	2	7.9	1	1.1	0	0.393	1	2.815	1	7.166	1	1962	45	1.6
51087.2	10000	41.5473	92.6518	-653	QK	3.4	2	7.2	1	1.1	0	0.476	2	3.066	2	6.444	0	1969	55	1.6
51087.3	10000	41.5473	92.6510	-651	QK	3.2	1	6.9	1	1.1	0	0.456	1	2.754	1	6.037	-1	1966	37	1.6
51087.4	10000	41.5473	92.6501	-649	QK	3.3	2	7.4	1	1.2	0	0.441	1	2.744	1	6.218	0	1964	43	1.6
51087.5	10000	41.5473	92.6493	-647	QK	3.3	2	7.3	1	1.2	0	0.456	1	2.859	1	6.276	0	1963	37	1.6
51087.6	10000	41.5473	92.6485	-645	QK	3.0	1	7.3	1	1.2	0	0.408	1	2.486	1	6.090	-1	1954	30	1.6
51087.7	10000	41.5473	92.6476	-642	QK	2.8	1	7.0	1	1.2	0	0.392	1	2.359	1	6.011	-1	1948	49	1.6
51087.8	10000	41.5473	92.6468	-637	QK	2.8	1	7.0	1	1.3	0	0.403	1	2.238	1	5.551	-1	1945	41	1.6
51087.9	10000	41.5473	92.6460	-632	QK	2.6	1	7.2	1	1.2	0	0.367	1	2.165	1	5.901	-1	1932	35	1.6
51088.0	10000	41.5473	92.6451	-631	QK	2.9	1	7.3	1	1.2	0	0.405	1	2.481	1	6.125	-1	1921	44	1.6
51088.1	10000	41.5473	92.6443	-628	QK	3.1	2	6.9	1	1.1	0	0.444	1	2.672	1	6.020	-1	1895	44	1.6
51088.2	10000	41.5474	92.6435	-624	QK	3.0	2	6.7	1	1.1	0	0.453	1	2.758	1	6.083	-1	1877	44	1.6
51088.3	10000	41.5473	92.6426	-621	QK	3.3	2	6.5	1	1.0	-1	0.509	2	3.150	2	6.195	0	1868	35	1.6
51088.4	10000	41.5473	92.6418	-617	QK	3.5	2	6.5	1	0.9	-1	0.529	2	3.314	2	6.265	0	1848	47	1.5
51088.5	10000	41.5473	92.6410	-612	QK	3.5	2	6.4	1	0.9	-2	0.543	2	3.693	3	6.803	0	1826	39	1.5
51088.6	10000	41.5473	92.6401	-606	QK	3.7	2	6.4	1	0.9	-1	0.581	2	3.923	3	6.757	0	1817	44	1.5
51088.7	10000	41.5474	92.6393	-599	QK	3.6	2	6.0	1	1.0	-1	0.603	2	3.756	3	6.225	0	1798	40	1.5
51088.8	10000	41.5473	92.6385	-591	QK	3.4	2	6.1	1	1.0	-1	0.559	2	3.509	3	6.279	0	1805	39	1.5
51088.9	10000	41.5473	92.6376	-584	QK	3.3	2	6.3	1	1.0	-1	0.530	2	3.323	3	6.272	0	1806	45	1.5
51089.0	10000	41.5474	92.6368	-575	QK	3.3	2	6.7	1	1.0	0	0.487	2	3.040	3	6.237	0	1808	45	1.5
51089.1	10000	41.5474	92.6360	-567	QAL	3.2	1	6.5	1	1.0	0	0.493	2	3.061	2	6.213	0	1815	42	1.5
51089.2	10000	41.5474	92.6351	-557	QAL	3.2	1	6.2	1	1.0	0	0.522	2	2.984	1	5.719	-1	1816	46	1.5
51089.3	10000	41.5474	92.6343	-546	QAL	3.1	1	6.1	1	1.0	0	0.513	2	3.003	1	5.857	0	1805	47	1.5
51089.4	10000	41.5474	92.6335	-535	QAL	3.0	1	6.6	1	0.9	-1	0.463	2	3.082	1	6.653	1	1794	48	1.5
51089.5	10000	41.5474	92.6326	-525	QAL	3.1	1	6.6	1	0.9	-1	0.455	2	3.031	1	6.656	1	1780	37	1.5
51089.6	10000	41.5474	92.6318	-513	QAL	3.0	1	6.7	1	0.9	-1	0.456	2	3.254	2	7.135	1	1762	55	1.5
51089.7	10000	41.5474	92.6310	-502	QAL	2.8	1	6.5	1	0.9	-2	0.437	2	3.197	2	7.325	2	1759	51	1.5
51089.8	10000	41.5474	92.6301	-492	QAL	2.9	1	6.5	1	0.9	-2	0.453	2	3.460	2	7.645	2	1747	41	1.5
51089.9	10000	41.5474	92.6293	-480	QAL	2.6	1	6.8	1	0.9	-2	0.378	2	2.870	1	7.587	2	1761	33	1.5
51090.0	10000	41.5474	92.6285	-471	QK	2.7	1	6.5	1	1.0	-1	0.406	2	2.904	1	7.156	1	1773	43	1.5
51090.1	10000	41.5474	92.6276	-461	QK	2.6	0	6.8	1	1.0	-1	0.381	2	2.727	1	7.154	1	1790	38	1.5
51090.2	10000	41.5474	92.6268	-451	QK	2.6	0	7.4	1	1.0	-1	0.352	0	2.664	1	7.562	2	1810	48	1.5

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51090.3	10000	41.5474	92.6260	-442	QK	2.4	0	7.2	0	1.0	-1	0.340	0	2.399	0	7.046	1	1819	29	1.5
51090.4	10000	41.5474	92.6251	-433	QK	2.6	0	7.1	0	1.1	0	0.360	0	2.411	0	6.695	0	1828	44	1.5
51090.5	10000	41.5474	92.6243	-425	QK	2.2	-1	7.1	0	1.1	0	0.304	-1	1.986	-1	6.524	0	1839	51	1.5
51090.6	10000	41.5474	92.6235	-417	QK	2.4	0	7.1	0	1.1	0	0.342	0	2.254	0	6.584	0	1822	46	1.5
51090.7	10000	41.5474	92.6226	-409	QK	2.1	-1	7.4	0	1.1	0	0.287	-1	1.988	-1	6.930	1	1817	48	1.5
51090.8	10000	41.5474	92.6218	-402	QK	2.0	-1	7.4	0	1.1	0	0.271	-1	1.888	-1	6.960	1	1819	39	1.5
51090.9	10000	41.5474	92.6210	-397	QK	2.0	-1	7.2	0	1.1	0	0.283	-1	1.913	-1	6.753	0	1809	38	1.5
51091.0	10000	41.5474	92.6201	-393	QK	2.3	-1	6.8	-1	1.1	0	0.332	0	2.072	0	6.240	0	1816	45	1.5
51091.1	10000	41.5474	92.6193	-388	QK	2.1	-1	7.1	0	1.1	0	0.302	-1	1.979	-1	6.556	0	1812	43	1.5
51091.2	10000	41.5474	92.6185	-385	QK	2.2	-1	7.0	0	1.1	0	0.307	-1	1.903	-1	6.208	0	1803	43	1.5
51091.3	10000	41.5474	92.6176	-381	QK	2.2	-1	7.1	0	1.1	0	0.312	-1	1.967	-1	6.309	0	1799	37	1.5
51091.4	10000	41.5474	92.6168	-379	QK	2.3	0	6.9	0	1.1	0	0.336	0	2.068	0	6.154	0	1790	39	1.5
51091.5	10000	41.5474	92.6160	-378	QK	2.4	0	6.3	-1	1.1	0	0.381	0	2.142	0	5.624	-1	1757	47	1.5
51091.6	10000	41.5474	92.6151	-376	QK	2.4	0	5.9	-2	1.1	0	0.399	1	2.162	0	5.414	-2	1734	44	1.5
51091.7	10000	41.5474	92.6143	-375	QK	2.3	0	6.3	-1	1.1	0	0.368	0	2.161	0	5.874	-1	1725	37	1.6
51091.8	10000	41.5474	92.6135	-372	QK	2.3	0	5.9	-2	1.1	0	0.388	1	2.143	0	5.521	-1	1722	40	1.6
51091.9	10000	41.5474	92.6127	-368	QK	2.5	0	6.2	-1	1.0	-1	0.402	1	2.383	0	5.926	-1	1735	39	1.6
51092.0	10000	41.5474	92.6118	-364	QK	2.5	0	6.1	-2	1.0	-1	0.405	1	2.405	0	5.937	-1	1750	41	1.6
51092.1	10000	41.5474	92.6110	-373	QK	2.5	0	6.1	-2	1.0	-1	0.405	1	2.376	0	5.867	-1	1776	43	1.6
51092.2	10000	41.5474	92.6102	-379	QK	2.6	0	6.7	-1	1.1	0	0.382	0	2.392	0	6.268	0	1823	48	1.6
51092.3	10000	41.5474	92.6093	-381	QK	2.6	0	7.0	0	1.1	0	0.370	0	2.326	0	6.288	0	1855	52	1.6
51092.4	10000	41.5474	92.6085	-383	QK	2.5	0	6.9	-1	1.2	0	0.361	0	2.103	0	5.818	-1	1874	51	1.6
51092.5	10000	41.5474	92.6077	-385	QK	2.7	0	7.0	0	1.2	1	0.381	0	2.229	0	5.848	-1	1896	53	1.6
51092.6	10000	41.5474	92.6068	-389	QK	2.4	0	6.9	0	1.2	1	0.350	-1	1.953	-1	5.577	-1	1916	35	1.6
51092.7	10000	41.5474	92.6060	-393	QK	2.6	0	7.0	0	1.3	1	0.368	0	2.037	0	5.542	-1	1932	45	1.6
51092.8	10000	41.5474	92.6052	-397	QK	2.5	0	7.1	0	1.3	1	0.351	-1	1.961	-1	5.588	-1	1925	40	1.6
51092.9	10000	41.5474	92.6043	-400	QK	2.6	0	7.1	0	1.3	2	0.372	0	2.016	-1	5.420	-2	1935	42	1.6
51093.0	10000	41.5474	92.6035	-404	QK	2.6	0	7.1	0	1.3	1	0.367	0	2.009	-1	5.481	-1	1922	34	1.6
51093.1	10000	41.5474	92.6027	-408	QK	2.6	0	7.1	0	1.2	1	0.373	0	2.208	0	5.926	-1	1909	38	1.6
51093.2	10000	41.5474	92.6018	-413	QK	2.8	1	7.1	0	1.2	1	0.389	1	2.397	0	6.164	0	1871	35	1.6
51093.3	10000	41.5474	92.6010	-417	QK	2.9	1	7.0	0	1.0	-1	0.419	1	2.877	1	6.873	1	1827	53	1.6
51093.4	10000	41.5474	92.6002	-421	QK	2.6	0	7.2	0	1.0	-1	0.362	0	2.691	1	7.427	1	1789	47	1.6
51093.5	10000	41.5474	92.5993	-425	QK	2.9	1	7.2	0	0.9	-2	0.397	1	3.124	2	7.863	2	1770	55	1.6
51093.6	10000	41.5474	92.5985	-429	QK	2.6	0	6.7	-1	0.8	-2	0.386	0	3.151	2	8.158	2	1723	40	1.6
51093.7	10000	41.5474	92.5977	-434	QK	2.6	0	6.4	-1	0.8	-3	0.411	1	3.366	2	8.185	2	1702	56	1.7
51093.8	10000	41.5474	92.5968	-438	QK	2.3	0	6.5	-1	0.8	-3	0.350	0	2.788	1	7.964	2	1680	35	1.7
51093.9	10000	41.5474	92.5960	-443	QK	2.1	-1	6.5	-1	0.8	-2	0.322	0	2.463	0	7.650	2	1690	41	1.7
51094.0	10000	41.5474	92.5952	-448	QK	2.0	-1	6.8	-1	0.9	-2	0.288	-1	2.268	0	7.879	2	1693	36	1.7
51094.1	10000	41.5474	92.5943	-452	QK	1.9	-1	6.7	-1	0.9	-2	0.289	-1	2.126	0	7.354	1	1707	47	1.7
51094.2	10000	41.5474	92.5935	-457	QK	1.6	-2	6.7	-1	1.0	-1	0.241	-2	1.686	-1	7.011	1	1721	32	1.7
51094.3	10000	41.5474	92.5927	-462	QK	1.6	-2	7.1	0	1.0	-1	0.225	-2	1.587	-1	7.047	1	1744	57	1.7
51094.4	10000	41.5474	92.5918	-469	QK	1.5	-2	7.5	0	1.0	-1	0.194	-2	1.388	-2	7.143	1	1776	42	1.7
51094.5	10000	41.5474	92.5910	-475	QK	1.7	-2	8.1	1	1.0	-1	0.211	-2	1.654	-1	7.833	2	1798	37	1.7
51094.6	10000	41.5474	92.5902	-481	QK	1.6	-2	8.2	1	1.1	0	0.195	-2	1.484	-2	7.598	2	1811	52	1.7
51094.7	10000	41.5474	92.5893	-488	QK	1.7	-2	8.4	2	1.1	0	0.199	-2	1.475	-2	7.402	1	1831	37	1.7
51094.8	10000	41.5474	92.5885	-497	QK	1.5	-2	8.3	1	1.1	0	0.184	-2	1.372	-2	7.448	1	1848	48	1.7
51094.9	10000	41.5474	92.5877	-504	QK	1.7	-2	8.6	2	1.1	0	0.199	-2	1.490	-2	7.484	1	1860	38	1.7
51095.0	10000	41.5474	92.5868	-513	QK	1.7	-2	8.2	1	1.2	0	0.203	-2	1.412	-2	6.951	1	1870	51	1.7
51095.1	10000	41.5474	92.5860	-522	QK	1.7	-2	8.3	1	1.2	0	0.200	-2	1.417	-2	7.102	1	1869	59	1.7
51095.2	10000	41.5474	92.5852	-531	QK	1.6	-2	7.8	1	1.2	0	0.212	-2	1.405	-2	6.641	0	1858	48	1.7
51095.3	10000	41.5474	92.5844	-540	QK	1.7	-2	7.9	1	1.1	0	0.211	-2	1.545	-2	7.323	1	1842	43	1.7
51095.4	10000	41.5474	92.5835	-548	QK	1.6	-2	7.3	0	1.1	0	0.224	-2	1.496	-2	6.689	0	1826	42	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51095.5	10000	41.5474	92.5827	-557	QK	1.8	-1	7.3	0	1.1	0	0.253	-1	1.691	-1	6.671	0	1804	59	1.7
51095.6	10000	41.5474	92.5818	-566	QK	1.7	-2	7.4	0	1.1	0	0.227	-2	1.577	-1	6.947	1	1786	42	1.7
51095.7	10000	41.5474	92.5810	-575	QK	1.8	-2	7.2	0	1.0	-1	0.245	-1	1.802	-1	7.365	1	1766	40	1.8
51095.8	10000	41.5474	92.5802	-583	QK	1.8	-1	6.6	-1	1.0	-1	0.277	-1	1.818	-1	6.561	0	1750	37	1.8
51095.9	10000	41.5474	92.5793	-591	QK	1.8	-2	6.6	-1	1.0	-1	0.268	-1	1.706	-1	6.353	0	1737	41	1.8
51096.0	10000	41.5474	92.5785	-598	QK	1.9	-1	6.5	-1	1.1	-1	0.291	-1	1.787	-1	6.138	0	1724	38	1.8
51096.1	10000	41.5474	92.5777	-606	QK	1.9	-1	6.9	0	1.0	-1	0.277	-1	1.881	-1	6.802	0	1720	42	1.8
51096.2	10000	41.5474	92.5768	-613	QK	1.8	-1	6.7	-1	1.0	-1	0.267	-1	1.764	-1	6.611	0	1723	47	1.8
51096.3	10000	41.5474	92.5760	-620	QK	1.9	-1	6.8	-1	1.0	-1	0.275	-1	1.873	-1	6.807	0	1714	45	1.8
51096.4	10000	41.5474	92.5752	-627	QK	1.9	-1	7.2	0	1.0	-1	0.267	-1	1.939	-1	7.260	1	1711	49	1.8
51096.5	10000	41.5474	92.5744	-632	QK	1.9	-1	7.6	0	1.0	-1	0.253	-1	2.012	-1	7.941	2	1700	33	1.7
51096.6	10000	41.5474	92.5735	-639	QK	2.0	-1	7.6	0	0.9	-2	0.258	-1	2.193	0	8.493	3	1717	41	1.7
51096.7	10000	41.5474	92.5727	-644	QAL	2.0	-1	7.8	1	0.9	-1	0.257	-1	2.290	0	8.901	4	1729	42	1.7
51096.8	10000	41.5474	92.5719	-649	QAL	2.1	-1	7.3	1	0.9	-1	0.281	-1	2.322	0	8.267	3	1722	43	1.7
51096.9	10000	41.5474	92.5710	-653	QAL	2.2	0	7.5	1	0.9	-1	0.298	-1	2.469	0	8.299	3	1721	38	1.7
51097.0	10000	41.5474	92.5702	-657	QAL	2.0	-1	6.9	0	0.9	-1	0.288	-1	2.223	0	7.723	2	1712	36	1.7
51097.1	10000	41.5474	92.5694	-660	QAL	2.0	-1	6.6	0	0.9	-1	0.304	-1	2.232	0	7.351	2	1715	44	1.8
51097.2	10000	41.5474	92.5685	-663	QAL	2.0	-1	6.3	0	0.9	-1	0.322	-1	2.202	0	6.846	1	1718	48	1.8
51097.3	10000	41.5474	92.5677	-665	QAL	2.0	-1	6.1	0	1.0	-1	0.328	-1	2.053	0	6.250	0	1702	45	1.7
51097.4	10000	41.5474	92.5669	-667	QAL	1.9	-1	6.0	-1	1.0	-1	0.313	-1	1.927	-1	6.146	0	1672	50	1.7
51097.5	10000	41.5474	92.5660	-669	QAL	1.9	-1	6.3	0	0.9	-1	0.301	-1	2.032	-1	6.749	1	1650	39	1.7
51097.6	10000	41.5474	92.5652	-670	QAL	1.8	-1	6.3	0	0.8	-2	0.279	-1	2.077	0	7.437	2	1627	52	1.7
51097.7	10000	41.5474	92.5644	-670	QAL	2.0	-1	6.2	0	0.8	-2	0.328	-1	2.432	0	7.413	2	1622	43	1.7
51097.8	10000	41.5474	92.5635	-671	QAL	2.1	-1	6.2	0	0.8	-2	0.336	-1	2.512	0	7.487	2	1621	40	1.7
51097.9	10000	41.5474	92.5627	-671	QK	2.2	-1	6.5	-1	0.8	-3	0.349	-1	2.943	1	8.438	3	1636	48	1.7
51098.0	10000	41.5474	92.5619	-671	QK	2.5	0	6.8	-1	0.8	-3	0.377	-1	3.310	2	8.785	3	1658	50	1.7
51098.1	10000	41.5474	92.5610	-671	QK	2.8	1	7.2	0	0.8	-3	0.396	-1	3.466	3	8.749	3	1717	54	1.7
51098.2	10000	41.5474	92.5602	-670	QK	2.6	0	7.3	0	0.9	-2	0.363	-1	2.884	1	7.9[illegible]	2	1784	48	1.7
51098.3	10000	41.5474	92.5594	-669	QK	2.7	0	7.2	0	1.0	-1	0.370	-1	2.557	0	6.[illegible]98	1	1841	44	1.7
51098.4	10000	41.5474	92.5585	-669	QK	2.7	0	7.2	0	1.1	0	0.381	-1	2.546	0	6.677	0	1887	44	1.7
51098.5	10000	41.5474	92.5577	-667	QK	2.7	0	7.6	0	1.1	0	0.353	-1	2.402	0	6.796	0	1919	47	1.7
51098.6	10000	41.5474	92.5569	-666	QK	2.6	0	7.6	0	1.2	0	0.340	-1	2.178	0	6.401	0	1925	42	1.7
51098.7	10000	41.5474	92.5560	-665	QK	2.3	0	7.8	1	1.2	0	0.295	-1	1.907	-1	6.465	0	1927	43	1.7
51098.8	10000	41.5474	92.5552	-662	QK	2.0	-1	7.2	1	1.2	0	0.274	-1	1.587	-1	5.798	-1	1909	54	1.7
51098.9	10000	41.5474	92.5544	-657	QK	2.3	0	7.1	1	1.2	0	0.333	-1	1.943	-1	5.834	-1	1896	41	1.7
51099.0	10000	41.5474	92.5535	-655	QK	2.4	0	7.1	0	1.1	0	0.343	-1	2.123	0	6.199	0	1870	39	1.7
51099.1	10000	41.5474	92.5527	-660	QK	2.5	0	7.0	0	1.1	0	0.352	-1	2.233	0	6.339	0	1846	38	1.7
51099.2	10000	41.5474	92.5519	-661	QK	2.4	0	6.6	-1	1.1	0	0.365	-1	2.181	0	5.976	-1	1812	33	1.7
51099.3	10000	41.5474	92.5510	-661	QK	2.3	0	6.5	-1	1.1	0	0.389	-1	2.323	0	5.966	-1	1798	40	1.7
51099.4	10000	41.5474	92.5502	-660	QK	2.6	0	6.0	-2	1.0	-1	0.433	-1	2.584	0	5.967	-1	1764	44	1.7
51099.5	10000	41.5474	92.5494	-660	QK	2.8	1	6.3	-1	1.0	-1	0.449	-1	2.875	1	6.402	0	1738	46	1.7
51099.6	10000	41.5474	92.5485	-661	QK	2.8	1	6.2	-1	1.0	-1	0.448	-1	2.905	1	6.486	0	1707	48	1.7
51099.7	10000	41.5474	92.5477	-662	QK	2.4	0	6.7	-1	0.9	-1	0.364	-1	2.570	1	7.063	1	1679	47	1.7
51099.8	10000	41.5474	92.5469	-664	QK	2.2	-1	6.9	-1	0.9	-1	0.321	-1	2.321	0	7.238	1	1677	40	1.7
51099.9	10000	41.5474	92.5461	-665	QK	2.2	-1	7.1	0	0.9	-2	0.307	-1	2.369	1	7.707	2	1674	47	1.7
51100.0	10000	41.5474	92.5452	-667	QK	2.2	-1	7.3	0	0.9	-1	0.294	-1	2.275	1	7.738	2	1664	53	1.7
51100.1	10000	41.5474	92.5444	-669	QK	2.0	-1	7.2	0	1.0	-1	0.281	-1	1.984	-1	7.073	1	1682	38	1.7
51100.2	10000	41.5474	92.5435	-671	QK	2.1	-1	7.5	0	1.0	-1	0.280	-1	2.092	0	7.475	1	1729	36	1.7
51100.3	10000	41.5474	92.5427	-673	QK	1.9	-1	7.6	0	1.1	-1	0.254	-1	1.841	-1	7.235	1	1765	40	1.7
51100.4	10000	41.5474	92.5419	-674	QK	2.2	-1	7.2	0	1.1	0	0.301	-1	2.004	-1	6.670	0	1808	50	1.7
51100.5	10000	41.5474	92.5410	-675	QK	2.2	-1	7.4	0	1.1	0	0.292	-1	1.963	-1	6.730	0	1812	44	1.7
51100.6	10000	41.5474	92.5402	-676	QK	2.1	-1	7.1	0	1.1	0	0.296	-1	1.908	-1	6.452	0	1818	44	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51100.7	10000	41.5474	92.5394	-676	QK	1.9	-1	6.7	-1	1.1	0	0.288	-1	1.741	-1	6.045	-1	1833	46	1.6
51100.8	10000	41.5474	92.5386	-676	QK	2.2	-1	7.2	0	1.1	0	0.302	-1	1.994	-1	6.610	0	1837	50	1.6
51100.9	10000	41.5474	92.5377	-675	QK	1.8	-1	6.9	0	1.1	0	0.269	-1	1.638	-1	6.083	-1	1828	36	1.6
51101.0	10000	41.5474	92.5369	-672	QK	1.8	-2	6.9	0	1.1	0	0.253	-1	1.559	-1	6.174	0	1832	42	1.6
51101.1	10000	41.5474	92.5361	-670	QK	1.8	-1	7.3	0	1.1	0	0.250	-1	1.581	-1	6.322	0	1836	43	1.6
51101.2	10000	41.5474	92.5352	-665	QK	2.0	-1	7.2	0	1.1	0	0.269	-1	1.711	-1	6.351	0	1851	46	1.6
51101.3	10000	41.5474	92.5344	-662	QK	2.2	-1	7.5	0	1.1	0	0.296	-1	1.937	-1	6.544	0	1870	53	1.6
51101.4	10000	41.5474	92.5336	-658	QK	2.4	0	7.7	1	1.1	0	0.315	-1	2.107	0	6.697	0	1872	41	1.6
51101.5	10000	41.5474	92.5327	-653	QK	2.3	0	7.4	0	1.1	0	0.316	0	2.124	0	6.715	0	1876	55	1.6
51101.6	10000	41.5474	92.5319	-647	QK	2.6	0	7.4	0	1.1	0	0.350	0	2.405	0	6.880	1	1853	55	1.6
51101.7	10000	41.5474	92.5311	-641	QK	3.0	1	7.1	0	1.0	-1	0.419	1	2.930	1	6.998	1	1817	47	1.6
51101.8	10000	41.5474	92.5302	-633	QK	3.2	1	6.7	-1	0.9	-1	0.481	2	3.425	2	7.113	1	1786	51	1.6
51101.9	10000	41.5474	92.5294	-625	QK	3.2	1	6.3	-1	0.9	-2	0.500	2	3.431	2	6.859	1	1751	49	1.6
51102.0	10000	41.5474	92.5286	-616	QK	3.1	1	5.9	-2	0.9	-2	0.529	2	3.650	3	6.895	1	1711	38	1.6
51102.1	10000	41.5474	92.5277	-606	QK	2.9	1	5.8	-2	0.9	-2	0.498	2	3.411	2	6.847	1	1682	56	1.6
51102.2	10000	41.5474	92.5269	-595	QK	2.9	1	5.9	-2	0.9	-2	0.498	2	3.285	2	6.590	0	1666	41	1.6
51102.3	10000	41.5474	92.5261	-583	QK	2.9	1	6.0	-2	0.9	-2	0.486	2	3.370	2	6.932	1	1653	43	1.6
51102.4	10000	41.5474	92.5252	-570	QK	2.6	0	6.1	-2	0.9	-2	0.434	1	2.946	1	6.793	0	1644	35	1.6
51102.5	10000	41.5474	92.5244	-556	QK	2.5	0	6.0	-2	0.9	-2	0.414	1	2.867	1	6.917	1	1628	46	1.6
51102.6	10000	41.5474	92.5236	-542	QK	2.4	0	6.3	-1	0.9	-2	0.390	1	2.801	1	7.192	1	1626	43	1.6
51102.7	10000	41.5474	92.5227	-527	QK	2.0	-1	6.6	-1	0.9	-2	0.300	-1	2.165	1	7.209	1	1632	37	1.6
51102.8	10000	41.5474	92.5219	-512	QK	2.1	-1	7.0	0	0.9	-2	0.303	-1	2.347	0	7.756	2	1656	71	1.6
51102.9	10000	41.5474	92.5211	-498	QK	2.0	-1	7.3	0	1.0	-1	0.275	-1	2.086	0	7.598	2	1688	50	1.6
51103.0	10000	41.5474	92.5202	-484	QK	2.0	-1	7.3	0	1.0	-1	0.281	-1	2.085	0	7.431	1	1734	49	1.6
51103.1	10000	41.5474	92.5194	-471	QK	2.3	0	7.6	1	1.0	-1	0.305	-1	2.362	0	7.754	2	1775	32	1.6
51103.2	10000	41.5474	92.5186	-459	QK	2.1	-1	8.0	1	1.1	0	0.264	-1	1.990	-1	7.543	2	1817	41	1.6
51103.3	10000	41.5474	92.5177	-449	QK	2.0	-1	8.1	1	1.1	0	0.246	-1	1.832	-1	7.449	1	1839	46	1.6
51103.4	10000	41.5474	92.5169	-440	QK	2.2	-1	8.1	1	1.1	0	0.270	-1	1.953	-1	7.231	1	1867	35	1.6
51103.5	10000	41.5474	92.5161	-434	QK	2.1	-1	7.8	1	1.1	0	0.269	-1	1.870	-1	6.959	1	1868	48	1.6
51103.6	10000	41.5474	92.5152	-431	QK	2.2	-1	7.9	1	1.1	0	0.276	-1	1.980	-1	7.186	1	1865	49	1.6
51103.7	10000	41.5474	92.5144	-428	QK	2.0	-1	7.8	1	1.1	0	0.260	-1	1.893	-1	7.284	1	1845	37	1.6
51103.8	10000	41.5474	92.5136	-427	QK	1.9	-1	7.5	0	1.1	0	0.250	-1	1.661	-1	6.652	1	1840	48	1.6
51103.9	10000	41.5474	92.5127	-427	QAL	2.0	-1	7.2	1	1.1	0	0.275	-1	1.783	-1	6.484	0	1828	39	1.6
51104.0	10000	41.5474	92.5119	-427	QAL	2.0	-1	7.2	1	1.1	0	0.281	-1	1.864	-1	6.634	1	1813	37	1.6
51104.1	10000	41.5474	92.5111	-429	QAL	2.2	0	7.0	0	1.1	0	0.313	-1	2.039	0	6.509	0	1805	51	1.6
51104.2	10000	41.5474	92.5102	-432	QAL	2.5	0	7.0	0	1.1	0	0.351	0	2.283	0	6.500	0	1804	41	1.6
51104.3	10000	41.5474	92.5094	-435	QAL	2.3	0	6.4	0	1.1	0	0.366	0	2.154	0	5.879	0	1795	54	1.6
51104.4	10000	41.5474	92.5086	-440	QAL	2.6	0	6.5	0	1.1	0	0.394	0	2.295	0	5.818	0	1798	31	1.6
51104.5	10000	41.5474	92.5078	-446	QAL	2.5	0	6.2	0	1.0	0	0.395	0	2.385	0	6.031	0	1795	50	1.5
51104.6	10000	41.5474	92.5069	-452	QAL	2.5	0	6.1	0	1.0	0	0.407	0	2.383	0	5.856	0	1779	45	1.5
51104.7	10000	41.5474	92.5061	-458	QK	2.5	0	6.3	-1	1.1	-1	0.405	1	2.404	0	5.937	-1	1795	44	1.5
51104.8	10000	41.5474	92.5052	-464	QK	2.6	0	6.5	-1	1.0	-1	0.400	1	2.479	0	6.189	0	1797	34	1.5
51104.9	10000	41.5474	92.5044	-471	QK	2.5	0	6.6	-1	1.1	-1	0.373	1	2.317	0	6.207	0	1795	47	1.5
51105.0	10000	41.5474	92.5036	-478	QK	2.3	0	7.1	0	1.0	-1	0.327	0	2.239	0	6.844	1	1790	37	1.5
51105.1	10000	41.5474	92.5028	-484	QK	2.3	-1	7.0	0	1.0	-1	0.324	0	2.178	0	6.725	0	1774	45	1.5
51105.2	10000	41.5474	92.5019	-491	QK	2.1	-1	7.4	0	1.0	-1	0.285	-1	2.132	0	7.487	1	1751	54	1.5
51105.3	10000	41.5474	92.5011	-497	QK	2.3	0	7.5	0	1.0	-1	0.306	-1	2.405	1	7.868	2	1757	30	1.5
51105.4	10000	41.5475	92.5003	-503	QK	2.5	0	7.2	0	1.0	-1	0.340	0	2.562	1	7.546	2	1755	47	1.5
51105.5	10000	41.5475	92.4994	-509	QK	2.5	0	7.1	0	1.0	-1	0.358	0	2.581	1	7.204	1	1761	44	1.5
51105.6	10000	41.5475	92.4986	-515	QK	2.5	0	6.9	0	1.0	-1	0.365	0	2.568	1	7.035	1	1776	36	1.5
51105.7	10000	41.5475	92.4978	-520	QK	2.7	1	6.7	-1	1.1	-1	0.406	1	2.568	1	6.329	0	1805	44	1.5
51105.8	10000	41.5475	92.4969	-525	QK	2.8	1	6.7	-1	1.1	0	0.411	1	2.558	1	6.224	0	1829	42	1.5

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51105.9	10000	41.5475	92.4961	-530	QK	2.9	1	6.5	-1	1.1	0	0.453	1	2.549	1	5.630	-1	1847	55	1.6
51106.0	10000	41.5475	92.4953	-534	QK	2.5	0	6.6	-1	1.2	1	0.385	0	2.129	0	5.535	-1	1850	53	1.5
51106.1	10000	41.5475	92.4944	-537	QK	2.6	0	6.5	-1	1.2	1	0.404	1	2.141	0	5.293	-2	1855	36	1.5
51106.2	10000	41.5475	92.4936	-541	QK	2.6	0	6.5	-1	1.2	1	0.396	1	2.081	0	5.252	-2	1857	37	1.5
51106.3	10000	41.5475	92.4928	-544	QK	2.4	0	6.8	-1	1.2	1	0.358	0	1.991	-1	5.563	-1	1854	37	1.5
51106.4	10000	41.5475	92.4919	-547	QK	2.6	0	6.9	0	1.2	1	0.373	0	2.175	0	5.838	-1	1842	54	1.5
51106.5	10000	41.5475	92.4911	-549	QK	2.4	0	7.2	0	1.2	1	0.332	0	2.036	0	6.129	-1	1831	67	1.5
51106.6	10000	41.5475	92.4903	-552	QK	2.5	0	7.3	0	1.2	1	0.342	0	2.087	0	6.110	-1	1835	52	1.5
51106.7	10000	41.5475	92.4894	-554	QK	2.7	0	7.2	0	1.2	1	0.378	0	2.343	0	6.199	0	1850	51	1.5
51106.8	10000	41.5475	92.4886	-557	QK	2.8	1	7.3	0	1.2	1	0.385	0	2.393	0	6.212	0	1862	48	1.5
51106.9	10000	41.5475	92.4878	-558	QK	2.7	0	7.6	-1	1.2	1	0.356	0	2.275	0	6.388	0	1870	45	1.5
51107.0	10000	41.5475	92.4869	-559	QK	2.7	0	7.5	0	1.2	1	0.367	0	2.279	0	6.204	0	1867	40	1.5
51107.1	10000	41.5475	92.4861	-558	QK	2.5	0	7.4	0	1.2	1	0.343	0	2.070	0	6.035	-1	1879	38	1.5
51107.2	10000	41.5475	92.4853	-559	QK	2.8	1	7.1	0	1.2	1	0.395	1	2.262	0	5.732	-1	1897	32	1.5
51107.3	10000	41.5475	92.4845	-559	QK	2.5	0	7.0	0	1.2	1	0.359	0	2.069	0	5.766	-1	1898	53	1.5
51107.4	10000	41.5475	92.4836	-560	QK	2.5	0	7.4	0	1.3	1	0.341	0	2.005	-1	5.872	-1	1899	44	1.5
51107.5	10000	41.5475	92.4828	-559	QK	2.3	0	7.5	0	1.2	1	0.310	-1	1.887	-1	6.088	-1	1902	31	1.5
51107.6	10000	41.5475	92.4819	-559	QK	2.2	-1	7.5	0	1.2	1	0.296	-1	1.775	-1	6.001	-1	1887	46	1.5
51107.7	10000	41.5475	92.4811	-558	QK	2.2	-1	7.2	0	1.2	1	0.312	-1	1.855	-1	5.944	-1	1884	40	1.5
51107.8	10000	41.5475	92.4803	-558	QK	2.4	0	7.2	0	1.1	0	0.339	0	2.140	0	6.305	0	1859	51	1.5
51107.9	10000	41.5476	92.4795	-557	QK	2.3	-1	7.3	0	1.1	0	0.309	-1	2.086	0	6.744	0	1834	57	1.5
51108.0	10000	41.5476	92.4786	-556	QK	2.3	0	7.6	-1	1.0	-1	0.305	-1	2.233	0	7.323	1	1812	47	1.6
51108.1	10000	41.5476	92.4778	-555	QK	2.2	-1	7.4	-1	1.0	-1	0.300	-1	2.208	0	7.359	1	1794	45	1.6
51108.2	10000	41.5476	92.4770	-553	QK	2.0	-1	7.8	-1	0.9	-2	0.263	-1	2.197	0	8.354	3	1763	43	1.6
51108.3	10000	41.5476	92.4761	-551	QK	2.0	-1	7.5	-1	0.8	-3	0.271	-1	2.462	0	9.073	4	1737	40	1.6
51108.4	10000	41.5476	92.4753	-549	QK	2.2	-1	7.6	-1	0.8	-3	0.286	-1	2.791	1	9.767	5	1726	37	1.6
51108.5	10000	41.5476	92.4745	-547	QK	1.8	-1	7.4	0	0.8	-3	0.246	-1	2.338	0	9.499	4	1720	39	1.6
51108.6	10000	41.5476	92.4736	-545	QK	1.9	-1	7.1	0	0.8	-3	0.271	-1	2.392	0	8.820	3	1706	40	1.6
51108.7	10000	41.5476	92.4728	-543	QK	2.1	-1	6.8	-1	0.8	-3	0.307	-1	2.596	1	8.456	3	1713	47	1.6
51108.8	10000	41.5476	92.4720	-542	QK	2.0	-1	6.6	-1	0.8	-3	0.310	-1	2.602	1	8.394	3	1701	41	1.6
51108.9	10000	41.5476	92.4711	-541	QK	2.2	-1	5.9	-2	0.9	-2	0.367	-1	2.495	0	6.798	1	1704	39	1.6
51109.0	10000	41.5476	92.4703	-540	QK	2.4	0	6.1	-2	0.9	-2	0.385	-1	2.668	1	6.927	1	1742	45	1.6
51109.1	10000	41.5476	92.4695	-539	QK	2.3	0	6.1	-2	0.9	-2	0.388	-1	2.515	1	6.477	0	1753	46	1.6
51109.2	10000	41.5476	92.4686	-539	QK	2.6	0	6.2	-1	1.0	-1	0.422	-1	2.702	1	6.403	1	1757	38	1.6
51109.3	10000	41.5476	92.4678	-539	QK	2.4	0	6.8	-1	1.0	-1	0.352	-1	2.431	1	6.911	1	1797	44	1.6
51109.4	10000	41.5476	92.4670	-540	QK	2.2	-1	6.8	-1	1.0	-1	0.319	-1	2.143	0	6.718	1	1803	43	1.6
51109.5	10000	41.5476	92.4661	-542	QK	2.1	-1	6.9	0	1.1	0	0.296	-1	1.875	-1	6.328	0	1836	43	1.6
51109.6	10000	41.5476	92.4653	-544	QK	2.1	-1	7.5	0	1.1	0	0.273	-1	1.904	-1	6.974	1	1847	46	1.6
51109.7	10000	41.5476	92.4645	-547	QK	2.0	-1	7.4	0	1.1	0	0.264	-1	1.756	-1	6.651	0	1839	52	1.6
51109.8	10000	41.5476	92.4637	-551	QK	1.7	-2	7.8	1	1.1	0	0.218	-2	1.488	-2	6.820	0	1858	51	1.6
51109.9	10000	41.5476	92.4628	-555	QK	1.7	-2	8.1	1	1.1	0	0.215	-2	1.521	-2	7.066	1	1881	52	1.6
51110.0	10000	41.5476	92.4620	-561	QK	2.0	-1	7.8	1	1.1	0	0.259	-1	1.781	-1	6.876	1	1877	44	1.6
51110.1	10000	41.5476	92.4612	-566	QK	2.2	-1	7.7	1	1.1	0	0.285	-1	1.932	-1	6.768	0	1881	40	1.6
51110.2	10000	41.5476	92.4603	-572	QK	2.5	0	7.9	1	1.1	0	0.311	-1	2.239	0	7.202	1	1878	67	1.6
51110.3	10000	41.5476	92.4595	-579	QK	2.7	0	7.8	1	1.1	0	0.346	0	2.494	1	7.202	1	1893	46	1.6
51110.4	10000	41.5476	92.4587	-585	QK	3.0	1	7.6	1	1.1	0	0.387	0	2.652	1	6.853	1	1896	47	1.6
51110.5	10000	41.5477	92.4578	-591	QK	2.9	1	7.6	1	1.2	0	0.385	0	2.480	0	6.435	1	1897	25	1.6
51110.6	10000	41.5477	92.4570	-598	QK	2.9	1	7.6	0	1.2	0	0.389	0	2.516	1	6.468	1	1886	40	1.6
51110.7	10000	41.5477	92.4562	-605	QK	2.8	1	7.3	0	1.2	0	0.385	0	2.426	0	6.305	0	1871	36	1.6
51110.8	10000	41.5477	92.4553	-611	QK	2.8	1	7.5	0	1.1	0	0.382	0	2.594	1	6.795	1	1854	67	1.6
51110.9	10000	41.5477	92.4545	-617	QK	3.0	1	7.3	0	1.1	0	0.409	1	2.767	1	6.764	1	1862	56	1.6
51111.0	10000	41.5477	92.4537	-623	QK	2.7	0	7.3	0	1.1	0	0.373	0	2.466	0	6.613	0	1849	47	1.6

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51111.1	10000	41.5477	92.4528	-629	QK	2.3	0	7.5	0	1.1	0	0.304	-1	2.083	0	6.862	1	1847	40	1.6
51111.2	10000	41.5477	92.4520	-634	QK	2.4	0	7.5	0	1.0	-1	0.318	0	2.275	0	7.164	1	1837	48	1.6
51111.3	10000	41.5477	92.4512	-639	QK	2.4	0	7.3	0	1.1	0	0.333	0	2.292	0	6.890	1	1832	53	1.6
51111.4	10000	41.5477	92.4503	-644	QK	2.3	-1	7.7	1	1.1	0	0.293	-1	2.004	-1	6.841	1	1842	52	1.6
51111.5	10000	41.5477	92.4495	-649	QK	2.1	-1	7.7	1	1.2	1	0.277	-1	1.731	-1	6.243	0	1859	43	1.6
51111.6	10000	41.5477	92.4487	-654	QK	1.9	-1	7.7	1	1.2	1	0.248	-1	1.541	-2	6.207	0	1839	48	1.6
51111.7	10000	41.5477	92.4478	-658	QK	1.9	-1	7.5	0	1.3	1	0.259	-1	1.541	-2	5.947	-1	1851	40	1.6
51111.8	10000	41.5477	92.4470	-662	QK	2.1	-1	7.5	0	1.2	1	0.281	-1	1.707	-1	6.084	-1	1851	33	1.6
51111.9	10000	41.5477	92.4462	-666	QK	2.0	-1	7.4	0	1.2	1	0.275	-1	1.653	-1	6.017	-1	1854	35	1.6
51112.0	10000	41.5477	92.4453	-670	QK	1.9	-1	7.2	0	1.3	1	0.265	-1	1.519	-2	5.742	-1	1855	41	1.6
51112.1	10000	41.5477	92.4445	-674	QK	2.2	-1	7.0	0	1.3	1	0.315	-1	1.766	-1	5.611	-1	1852	48	1.6
51112.2	10000	41.5477	92.4437	-678	QK	2.1	-1	7.3	0	1.2	1	0.295	-1	1.743	-1	5.915	-1	1852	43	1.6
51112.3	10000	41.5477	92.4429	-681	QK	2.2	-1	7.2	0	1.2	1	0.312	-1	1.806	-1	5.798	-1	1849	42	1.6
51112.4	10000	41.5477	92.4420	-685	QK	2.2	-1	7.2	0	1.2	1	0.310	-1	1.824	-1	5.876	-1	1842	38	1.6
51112.5	10000	41.5477	92.4412	-689	QK	2.2	-1	7.1	0	1.2	1	0.315	-1	1.830	-1	5.819	-1	1839	42	1.6
51112.6	10000	41.5477	92.4404	-694	QK	2.3	0	6.9	0	1.2	1	0.337	0	1.910	-1	5.659	-1	1847	35	1.6
51112.7	10000	41.5477	92.4395	-698	QK	2.4	0	7.5	0	1.2	1	0.320	0	2.029	-1	6.350	0	1858	39	1.6
51112.8	10000	41.5477	92.4387	-702	QK	2.3	0	7.4	0	1.2	0	0.317	0	1.999	-1	6.311	0	1863	48	1.6
51112.9	10000	41.5477	92.4379	-706	QK	2.4	0	7.2	0	1.1	0	0.328	0	2.062	0	6.278	0	1871	42	1.6
51113.0	10000	41.5477	92.4370	-712	QK	2.2	-1	7.5	0	1.1	0	0.290	-1	1.905	-1	6.580	0	1873	56	1.6
51113.1	10000	41.5477	92.4362	-716	QK	2.1	-1	7.6	1	1.2	0	0.274	-1	1.808	-1	6.597	0	1876	42	1.6
51113.2	10000	41.5477	92.4354	-721	QK	2.0	-1	7.8	1	1.2	0	0.255	-1	1.712	-1	6.718	0	1884	41	1.6
51113.3	10000	41.5478	92.4345	-724	QK	2.1	-1	7.9	1	1.1	0	0.269	-1	1.875	-1	6.971	1	1881	49	1.6
51113.4	10000	41.5478	92.4337	-728	QK	2.0	-1	7.6	1	1.1	0	0.268	-1	1.800	-1	6.705	0	1888	46	1.6
51113.5	10000	41.5478	92.4329	-732	QK	1.9	-1	7.5	1	1.1	0	0.252	-1	1.692	-1	6.704	0	1879	40	1.6
51113.6	10000	41.5478	92.4320	-736	QK	2.1	-1	7.2	1	1.1	0	0.291	-1	1.842	-1	6.325	0	1862	44	1.6
51113.7	10000	41.5478	92.4312	-739	QK	2.3	-1	7.0	1	1.1	0	0.326	0	2.021	-1	6.196	0	1856	44	1.6
51113.8	10000	41.5478	92.4304	-742	QK	2.2	-1	7.1	1	1.1	0	0.315	-1	1.976	-1	6.277	0	1850	48	1.6
51113.9	10000	41.5478	92.4295	-745	QK	2.4	0	6.9	-1	1.1	0	0.344	0	2.058	0	5.986	-1	1826	48	1.6
51114.0	10000	41.5478	92.4287	-748	QK	2.4	0	6.9	0	1.2	0	0.347	0	2.071	0	5.971	-1	1811	40	1.6
51114.1	10000	41.5478	92.4279	-751	QK	2.1	-1	6.9	0	1.2	1	0.311	-1	1.790	-1	5.754	-1	1799	43	1.6
51114.2	10000	41.5478	92.4270	-754	QK	2.3	-1	7.2	0	1.2	1	0.314	-1	1.894	-1	6.024	-1	1806	46	1.6
51114.3	10000	41.5478	92.4262	-756	QK	2.0	-1	7.6	1	1.2	1	0.266	-1	1.715	-1	6.446	0	1807	42	1.6
51114.4	10000	41.5478	92.4254	-758	QK	2.1	-1	7.6	1	1.2	1	0.279	-1	1.777	-1	6.379	0	1803	33	1.6
51114.5	10000	41.5478	92.4245	-760	QK	2.2	-1	7.4	0	1.1	1	0.301	-1	1.958	-1	6.510	0	1784	45	1.6
51114.6	10000	41.5478	92.4237	-762	QK	2.2	-1	7.5	0	1.1	1	0.297	-1	2.034	-1	6.857	1	1795	38	1.6
51114.7	10000	41.5478	92.4229	-764	QK	2.0	-1	7.6	1	1.1	1	0.259	-1	1.769	-1	6.822	0	1800	45	1.6
51114.8	10000	41.5478	92.4220	-765	QK	2.2	-1	7.5	1	1.1	1	0.288	-1	2.055	-1	7.138	1	1786	45	1.6
51114.9	10000	41.5478	92.4212	-766	QK	2.1	-1	7.4	0	1.1	1	0.285	-1	1.990	-1	6.983	1	1772	52	1.6
51115.0	10000	41.5478	92.4204	-768	QK	2.1	-1	7.2	-1	1.0	1	0.291	-1	2.012	-1	6.926	1	1766	34	1.6
51115.1	10000	41.5478	92.4196	-769	QK	1.9	-1	7.3	-1	1.0	1	0.267	-1	1.934	-1	7.253	1	1757	41	1.6
51115.2	10000	41.5478	92.4187	-770	QK	2.0	-1	7.0	-1	1.0	1	0.283	-1	2.012	-1	7.120	1	1750	37	1.6
51115.3	10000	41.5478	92.4179	-771	QK	2.0	-1	7.1	-1	1.0	0	0.281	-1	2.031	0	7.233	1	1734	38	1.6
51115.4	10000	41.5478	92.4171	-772	QK	2.0	-1	7.1	-2	0.9	0	0.282	-1	2.173	0	7.574	2	1722	51	1.7
51115.5	10000	41.5478	92.4162	-773	QK	1.9	-1	7.1	-2	0.9	0	0.272	-1	2.050	0	7.537	2	1703	40	1.7
51115.6	10000	41.5478	92.4154	-774	QK	2.0	-1	7.0	-2	0.9	0	0.277	-1	2.117	0	7.630	2	1699	43	1.7
51115.7	10000	41.5478	92.4146	-774	QK	2.2	-1	6.9	-2	0.9	0	0.316	-1	2.414	0	7.649	2	1690	54	1.7
51115.8	10000	41.5478	92.4137	-774	QK	2.4	0	6.7	-2	0.9	0	0.357	-1	2.577	0	7.217	1	1716	43	1.7
51115.9	10000	41.5478	92.4129	-774	QK	2.3	-1	7.2	-1	1.0	0	0.315	-1	2.359	1	7.476	1	1740	45	1.7
51116.0	10000	41.5479	92.4121	-774	QK	2.4	0	7.0	-1	0.9	0	0.342	-1	2.446	1	7.146	1	1761	51	1.7
51116.1	10000	41.5479	92.4112	-774	QK	2.6	0	6.8	-2	0.9	0	0.384	-1	2.819	1	7.347	1	1760	52	1.7
51116.2	10000	41.5479	92.4104	-773	QK	2.6	0	6.3	-1	0.9	0	0.413	-1	2.744	1	6.640	0	1784	35	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51116.3	10000	41.5479	92.4096	-773	QK	2.5	0	6.5	-1	1.0	-1	0.394	1	2.642	1	6.704	0	1782	36	1.7
51116.4	10000	41.5479	92.4087	-773	QK	2.4	0	6.9	0	1.0	-1	0.341	0	2.379	0	6.980	1	1781	37	1.7
51116.5	10000	41.5479	92.4079	-772	QK	2.4	0	6.9	0	1.0	-1	0.340	0	2.351	0	6.906	1	1761	48	1.7
51116.6	10000	41.5479	92.4071	-771	QK	2.5	0	6.6	-1	1.0	-1	0.376	0	2.466	0	6.565	0	1729	38	1.7
51116.7	10000	41.5479	92.4062	-770	QK	2.2	-1	7.0	0	1.0	-1	0.322	0	2.210	0	6.867	1	1713	40	1.7
51116.8	10000	41.5479	92.4054	-768	QK	2.1	-1	7.3	0	1.1	0	0.281	-1	1.939	-1	6.901	1	1702	39	1.7
51116.9	10000	41.5479	92.4046	-766	QK	2.0	-1	7.9	1	1.0	-1	0.251	-1	1.891	-1	7.541	2	1690	44	1.7
51117.0	10000	41.5479	92.4037	-765	QK	1.9	-1	7.6	0	1.0	-1	0.245	-1	1.847	-1	7.528	1	1676	44	1.7
51117.1	10000	41.5479	92.4029	-763	QK	1.9	-1	7.2	0	0.9	-2	0.268	-1	2.063	0	7.692	2	1674	55	1.7
51117.2	10000	41.5479	92.4021	-761	QK	1.9	-1	7.3	0	0.9	-2	0.256	-1	2.116	0	8.258	3	1667	58	1.7
51117.3	10000	41.5479	92.4012	-759	QK	1.7	-2	7.5	0	0.9	-2	0.229	-2	1.985	-1	8.656	3	1681	37	1.7
51117.4	10000	41.5479	92.4004	-757	QK	1.5	-2	7.0	0	0.9	-2	0.215	-2	1.731	-1	8.035	2	1673	52	1.7
51117.5	10000	41.5479	92.3996	-754	QK	1.6	-2	6.8	-1	0.9	-2	0.241	-2	1.829	-1	7.585	2	1673	50	1.7
51117.6	10000	41.5479	92.3988	-752	QK	1.8	-1	6.6	-1	0.9	-2	0.275	-1	1.977	-1	7.201	1	1663	52	1.7
51117.7	10000	41.5479	92.3979	-750	QK	1.8	-1	6.7	-1	0.9	-1	0.269	-1	1.897	-1	7.046	1	1682	39	1.7
51117.8	10000	41.5479	92.3971	-747	QK	1.9	-1	6.7	-1	1.0	-1	0.281	-1	1.839	-1	6.549	0	1691	39	1.7
51117.9	10000	41.5479	92.3963	-745	QK	1.9	-1	6.5	-1	1.0	-1	0.298	-1	1.853	-1	6.225	0	1708	43	1.7
51118.0	10000	41.5479	92.3954	-742	QK	2.0	-1	6.2	-1	1.0	-1	0.319	0	1.903	-1	5.974	-1	1712	46	1.7
51118.1	10000	41.5479	92.3946	-739	QK	2.3	0	6.1	-2	1.0	-1	0.379	0	2.303	0	6.070	-1	1708	44	1.7
51118.2	10000	41.5479	92.3938	-736	QK	2.2	-1	6.0	-2	1.0	-1	0.359	0	2.219	0	6.180	0	1721	50	1.7
51118.3	10000	41.5479	92.3929	-733	QK	2.1	-1	6.3	-1	0.9	-2	0.333	0	2.268	0	6.813	0	1743	44	1.7
51118.4	10000	41.5479	92.3921	-729	QK	2.2	-1	6.6	-1	0.9	-2	0.328	0	2.386	0	7.269	1	1743	49	1.7
51118.5	10000	41.5480	92.3912	-726	QK	1.9	-1	6.5	-1	0.9	-2	0.296	-1	2.114	0	7.152	1	1752	51	1.7
51118.6	10000	41.5480	92.3904	-722	QK	1.7	-2	6.6	-1	0.9	-2	0.252	-1	1.784	-1	7.076	1	1753	37	1.7
51118.7	10000	41.5480	92.3895	-719	QK	1.8	-1	7.0	0	1.0	-1	0.259	-1	1.853	-1	7.159	1	1754	36	1.7
51118.8	10000	41.5480	92.3887	-715	QK	1.9	-1	7.4	0	1.0	-1	0.261	-1	1.920	-1	7.356	1	1789	43	1.7
51118.9	10000	41.5480	92.3878	-711	QK	2.0	-1	7.5	0	1.1	0	0.271	-1	1.897	-1	7.003	1	1819	37	1.7
51119.0	10000	41.5480	92.3870	-708	QK	1.9	-1	7.4	0	1.1	0	0.254	-1	1.663	-1	6.546	0	1830	41	1.7
51119.1	10000	41.5480	92.3862	-704	QK	1.8	-1	7.4	0	1.1	0	0.246	-1	1.628	-1	6.619	0	1819	41	1.7
51119.2	10000	41.5481	92.3853	-701	QK	2.0	-1	7.7	1	1.1	0	0.264	-1	1.857	-1	7.032	1	1800	34	1.7
51119.3	10000	41.5481	92.3845	-697	QK	2.0	-1	7.8	1	1.1	0	0.264	-1	1.898	-1	7.203	1	1780	34	1.7
51119.4	10000	41.5481	92.3836	-694	QK	2.0	-1	7.4	0	1.0	-1	0.266	-1	1.890	-1	7.098	1	1764	36	1.7
51119.5	10000	41.5481	92.3828	-690	QK	1.7	-2	7.6	1	1.0	-1	0.222	-2	1.684	-1	7.593	2	1737	23	1.7
51119.6	10000	41.5481	92.3819	-687	QK	1.5	-2	7.4	0	1.0	-1	0.208	-2	1.564	-1	7.507	1	1706	49	1.7
51119.7	10000	41.5481	92.3811	-684	QK	1.8	-2	7.6	0	1.0	-1	0.237	-2	1.808	-1	7.640	2	1696	36	1.7
51119.8	10000	41.5482	92.3802	-680	QK	1.9	-1	7.6	1	1.0	-1	0.249	-1	1.817	-1	7.306	1	1716	55	1.7
51119.9	10000	41.5482	92.3794	-677	QK	1.9	-1	7.5	0	1.1	0	0.250	-1	1.726	-1	6.898	1	1719	31	1.7
51120.0	10000	41.5482	92.3786	-675	QK	1.7	-2	7.4	0	1.1	0	0.226	-2	1.560	-1	6.906	1	1717	43	1.7
51120.1	10000	41.5482	92.3777	-671	QK	1.6	-2	7.6	0	1.1	0	0.213	-2	1.497	-2	7.045	1	1731	48	1.7
51120.2	10000	41.5482	92.3769	-667	QK	1.6	-2	7.4	0	1.1	0	0.216	-2	1.444	-2	6.687	0	1735	43	1.7
51120.3	10000	41.5482	92.3760	-664	QK	1.6	-2	7.7	1	1.1	0	0.205	-2	1.440	-2	7.018	1	1723	36	1.7
51120.4	10000	41.5482	92.3752	-660	QK	1.3	-2	7.5	0	1.0	-1	0.180	-2	1.290	-2	7.171	1	1710	35	1.7
51120.5	10000	41.5483	92.3743	-657	QK	1.5	-2	7.6	1	1.0	-1	0.191	-2	1.429	-2	7.486	1	1699	42	1.7
51120.6	10000	41.5483	92.3735	-653	QK	1.4	-2	7.5	0	1.0	-1	0.186	-2	1.376	-2	7.409	1	1708	34	1.7
51120.7	10000	41.5483	92.3726	-650	QK	1.7	-2	7.6	1	1.0	-1	0.225	-2	1.657	-1	7.351	1	1735	50	1.7
51120.8	10000	41.5483	92.3718	-646	QK	1.9	-1	7.9	1	1.0	-1	0.234	-2	1.779	-1	7.609	2	1755	35	1.7
51120.9	10000	41.5483	92.3709	-641	QK	2.1	-1	7.7	1	1.0	-1	0.267	-1	1.971	-1	7.390	1	1765	48	1.7
51121.0	10000	41.5483	92.3701	-636	QK	2.4	0	7.6	1	1.0	-1	0.320	0	2.445	0	7.652	2	1772	36	1.7
51121.1	10000	41.5484	92.3692	-634	QK	2.5	0	7.4	0	1.0	-1	0.334	0	2.419	0	7.240	1	1787	35	1.7
51121.2	10000	41.5484	92.3684	-632	QK	2.3	-1	7.3	0	1.0	-1	0.312	-1	2.234	0	7.150	1	1796	36	1.7
51121.3	10000	41.5484	92.3676	-628	QK	2.3	0	7.3	0	1.1	-1	0.315	-1	2.167	0	6.886	1	1808	37	1.7
51121.4	10000	41.5484	92.3667	-624	QK	2.1	-1	7.0	0	1.1	0	0.304	-1	1.920	-1	6.309	0	1811	58	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51121.5	10000	41.5484	92.3659	-620	QK	2.2	-1	6.5	-1	1.2	0	0.332	0	1.869	-1	5.623	-1	1821	35	1.7
51121.6	10000	41.5484	92.3650	-617	QK	2.1	-1	6.5	-1	1.2	0	0.327	0	1.814	-1	5.542	-1	1835	47	1.7
51121.7	10000	41.5484	92.3642	-614	QK	1.8	-2	6.6	-1	1.2	1	0.272	-1	1.477	-2	5.427	-2	1842	42	1.7
51121.8	10000	41.5485	92.3633	-611	QK	2.1	-1	7.1	0	1.2	1	0.298	-1	1.744	-1	5.856	-1	1856	41	1.7
51121.9	10000	41.5485	92.3625	-608	QK	2.3	-1	7.0	0	1.2	1	0.323	0	1.827	-1	5.660	-1	1869	37	1.7
51122.0	10000	41.5485	92.3616	-605	QK	2.1	-1	7.2	0	1.2	1	0.299	-1	1.805	-1	6.031	-1	1878	42	1.7
51122.1	10000	41.5485	92.3608	-603	QK	2.3	-1	7.3	0	1.1	1	0.311	-1	1.985	-1	6.389	0	1877	45	1.7
51122.2	10000	41.5485	92.3600	-601	QK	2.5	0	7.6	0	1.1	0	0.327	0	2.208	0	6.759	0	1869	43	1.7
51122.3	10000	41.5485	92.3591	-600	QK	2.5	0	7.7	0	1.1	0	0.323	0	2.337	0	7.228	1	1854	41	1.7
51122.4	10000	41.5486	92.3583	-598	QK	2.8	1	7.5	0	1.1	-1	0.373	1	2.693	1	7.226	1	1854	45	1.7
51122.5	10000	41.5486	92.3574	-597	QK	2.8	1	7.2	0	1.1	0	0.388	1	2.591	1	6.681	0	1852	33	1.7
51122.6	10000	41.5486	92.3566	-596	QK	2.7	0	7.2	0	1.1	0	0.376	1	2.521	1	6.702	0	1861	41	1.7
51122.7	10000	41.5486	92.3557	-595	QK	2.6	0	7.5	0	1.1	0	0.346	0	2.393	0	6.920	1	1863	45	1.7
51122.8	10000	41.5486	92.3549	-595	QK	2.5	0	7.4	0	1.1	0	0.338	0	2.229	0	6.597	0	1861	45	1.7
51122.9	10000	41.5486	92.3540	-594	QK	2.3	0	7.2	0	1.1	0	0.322	0	2.080	0	6.468	0	1859	49	1.7
51123.0	10000	41.5486	92.3532	-594	QK	2.2	-1	7.1	0	1.2	1	0.312	-1	1.827	-1	5.853	-1	1886	38	1.7
51123.1	10000	41.5487	92.3523	-595	QK	2.0	-1	7.3	0	1.3	1	0.277	-1	1.576	-1	5.681	-1	1900	59	1.7
51123.2	10000	41.5487	92.3515	-595	QK	2.1	-1	7.3	0	1.3	1	0.281	-1	1.635	-1	5.813	-1	1912	52	1.7
51123.3	10000	41.5487	92.3507	-595	QK	2.2	-1	7.6	0	1.2	1	0.282	-1	1.727	-1	6.113	-1	1909	54	1.7
51123.4	10000	41.5487	92.3498	-596	QK	2.4	0	7.2	0	1.3	1	0.332	0	1.901	-1	5.730	-1	1912	37	1.7
51123.5	10000	41.5487	92.3490	-597	QK	2.5	0	7.3	0	1.3	1	0.350	0	2.031	0	5.807	-1	1919	27	1.7
51123.6	10000	41.5487	92.3481	-597	QK	2.4	0	7.5	0	1.3	1	0.317	0	1.887	-1	5.959	-1	1914	37	1.7
51123.7	10000	41.5488	92.3473	-598	QK	2.3	-1	7.6	0	1.3	1	0.297	-1	1.798	-1	6.061	-1	1900	45	1.7
51123.8	10000	41.5488	92.3464	-598	QK	2.2	-1	7.9	1	1.3	1	0.275	-1	1.692	-1	6.154	0	1895	39	1.7
51123.9	10000	41.5488	92.3456	-598	QK	1.9	-1	8.1	1	1.3	1	0.233	-2	1.507	-2	6.458	0	1899	38	1.7
51124.0	10000	41.5488	92.3447	-598	QK	1.9	-1	8.0	1	1.3	1	0.236	-2	1.476	-2	6.253	0	1924	47	1.7
51124.1	10000	41.5488	92.3439	-599	QK	2.0	-1	8.0	1	1.3	1	0.238	-2	1.550	-2	6.513	0	1936	46	1.7
51124.2	10000	41.5488	92.3430	-599	QK	2.0	-1	8.1	1	1.3	1	0.236	-2	1.623	-2	6.870	0	1936	59	1.7
51124.3	10000	41.5489	92.3422	-600	QK	2.1	-1	8.0	1	1.3	1	0.248	-2	1.629	-2	6.573	0	1960	39	1.7
51124.4	10000	41.5489	92.3414	-600	QK	2.2	-1	8.0	1	1.3	1	0.260	-2	1.769	-2	6.814	0	1957	38	1.7
51124.5	10000	41.5489	92.3405	-601	QK	2.1	-1	7.8	1	1.3	1	0.274	-2	1.765	-2	6.439	0	1951	49	1.7
51124.6	10000	41.5489	92.3397	-603	QK	2.4	-1	7.8	1	1.3	1	0.310	-1	2.010	-1	6.487	0	1930	52	1.7
51124.7	10000	41.5489	92.3388	-604	QK	2.3	-1	7.6	1	1.2	1	0.306	-1	1.968	-1	6.434	0	1894	38	1.8
51124.8	10000	41.5489	92.3380	-605	QK	2.2	-1	7.5	1	1.2	1	0.305	-1	1.911	-1	6.269	0	1881	38	1.8
51124.9	10000	41.5489	92.3371	-606	QK	2.5	0	7.7	1	1.2	1	0.313	-1	2.030	0	6.385	0	1883	47	1.8
51125.0	10000	41.5490	92.3363	-607	QK	2.5	0	7.7	1	1.2	1	0.329	0	2.237	0	6.799	0	1876	51	1.8
51125.1	10000	41.5490	92.3354	-609	QK	2.5	0	7.6	1	1.2	1	0.330	0	2.327	0	7.046	1	1877	44	1.8
51125.2	10000	41.5490	92.3346	-610	QK	2.7	1	7.6	1	1.2	1	0.355	0	2.494	0	7.015	1	1879	58	1.8
51125.3	10000	41.5490	92.3337	-612	QK	2.4	0	7.5	1	1.2	1	0.310	-1	2.145	-1	6.915	0	1897	40	1.8
51125.4	10000	41.5490	92.3329	-613	QK	2.5	0	7.7	1	1.2	1	0.328	0	2.214	0	6.742	0	1906	41	1.8
51125.5	10000	41.5490	92.3321	-615	QK	2.5	0	7.7	1	1.2	1	0.328	0	2.181	0	6.644	0	1907	50	1.8
51125.6	10000	41.5490	92.3312	-617	QK	2.5	0	7.7	1	1.2	1	0.323	0	2.114	0	6.534	0	1902	48	1.8
51125.7	10000	41.5491	92.3304	-618	QK	2.4	0	7.7	1	1.2	1	0.314	0	1.962	-1	6.256	0	1898	52	1.8
51125.8	10000	41.5491	92.3295	-620	QK	2.3	-1	7.7	1	1.2	1	0.314	0	1.901	-1	6.046	-1	1906	46	1.8
51125.9	10000	41.5491	92.3287	-622	QK	2.3	-1	7.7	1	1.2	1	0.317	0	2.066	0	6.511	-1	1910	49	1.8
51126.0	10000	41.5491	92.3278	-622	QK	2.3	-1	7.7	1	1.2	1	0.308	0	2.290	0	6.897	-1	1903	44	1.8
51126.1	10000	41.5491	92.3270	-621	QK	2.3	-1	7.7	1	1.2	1	0.308	0	2.092	0	6.842	-1	1891	44	1.8
51126.2	10000	41.5491	92.3261	-625	QK	2.3	-1	7.7	1	1.2	1	0.308	0	2.169	0	6.842	-1	1881	54	1.8
51126.3	10000	41.5492	92.3253	-630	QK	2.3	-1	7.7	1	1.2	1	0.308	0	2.091	0	6.807	-1	1888	49	1.8
51126.4	10000	41.5492	92.3244	-633	QK	2.3	-1	7.7	1	1.2	1	0.308	0	2.073	0	6.856	-1	1902	44	1.8
51126.5	10000	41.5492	92.3236	-635	QK	2.3	-1	7.7	1	1.2	1	0.308	0	2.067	0	6.848	-1	1911	46	1.8
51126.6	10000	41.5492	92.3228	-636	QK	2.3	-1	7.7	1	1.2	1	0.302	-1	1.775	-1	5.875	-1	1925	59	1.8

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51126.7	10000	41.5492	92.3219	-639	QK	2.1	-1	7.8	1	1.3	1	0.267	-1	1.623	-1	6.081	-1	1927	42	1.8
51126.8	10000	41.5492	92.3211	-641	QK	2.3	-1	7.7	1	1.3	2	0.294	-1	1.714	-1	5.839	-1	1938	55	1.8
51126.9	10000	41.5492	92.3202	-643	QK	2.3	0	7.7	1	1.3	2	0.298	-1	1.724	-1	5.787	-1	1943	46	1.8
51127.0	10000	41.5493	92.3194	-645	QK	2.6	0	7.7	1	1.3	1	0.331	0	1.984	-1	5.997	-1	1948	45	1.8
51127.1	10000	41.5493	92.3185	-648	QK	2.8	1	7.7	1	1.3	1	0.361	0	2.175	0	6.017	-1	1951	48	1.8
51127.2	10000	41.5493	92.3177	-650	QK	2.7	0	7.9	1	1.2	1	0.348	0	2.225	0	6.387	0	1946	40	1.8
51127.3	10000	41.5493	92.3168	-653	QK	2.3	0	7.8	1	1.2	1	0.293	-1	1.845	-1	6.290	0	1940	42	1.8
51127.4	10000	41.5493	92.3160	-655	QK	2.0	-1	7.6	0	1.3	1	0.267	-1	1.561	-1	5.845	-1	1933	55	1.8
51127.5	10000	41.5493	92.3151	-658	QK	2.3	0	7.3	0	1.3	1	0.313	-1	1.822	-1	5.815	-1	1949	33	1.8
51127.6	10000	41.5493	92.3143	-660	QK	2.2	-1	7.6	0	1.3	1	0.295	-1	1.787	-1	6.057	-1	1958	42	1.8
51127.7	10000	41.5494	92.3135	-663	QK	2.0	-1	7.5	0	1.3	1	0.266	-1	1.567	-1	5.889	-1	1949	45	1.8
51127.8	10000	41.5494	92.3126	-665	QK	1.7	-2	7.4	0	1.3	1	0.235	-2	1.335	-2	5.679	-1	1931	50	1.8
51127.9	10000	41.5494	92.3118	-668	QK	2.0	-1	7.4	0	1.3	2	0.268	-1	1.491	-2	5.570	-1	1935	39	1.8
51128.0	10000	41.5494	92.3109	-670	QK	2.3	0	7.1	0	1.3	1	0.327	0	1.850	-1	5.662	-1	1926	38	1.8
51128.1	10000	41.5494	92.3101	-672	QK	2.6	0	7.4	0	1.2	1	0.352	0	2.200	0	6.257	0	1932	34	1.8
51128.2	10000	41.5494	92.3092	-675	QK	2.5	0	7.9	1	1.2	1	0.310	-1	2.037	0	6.565	0	1919	47	1.8
51128.3	10000	41.5494	92.3084	-677	QK	2.3	0	7.7	1	1.2	1	0.295	-1	1.875	-1	6.349	0	1910	47	1.8
51128.4	10000	41.5495	92.3075	-680	QK	2.4	0	7.3	0	1.2	1	0.325	0	1.949	-1	5.997	-1	1898	36	1.8
51128.5	10000	41.5495	92.3067	-682	QK	2.6	0	7.3	0	1.2	1	0.351	0	2.138	0	6.094	-1	1890	46	1.8
51128.6	10000	41.5495	92.3058	-684	QK	2.4	0	7.2	0	1.2	0	0.333	0	2.060	0	6.194	0	1865	51	1.8
51128.7	10000	41.5495	92.3050	-687	QK	2.3	0	7.2	0	1.2	0	0.326	0	2.015	-1	6.182	0	1858	45	1.8
51128.8	10000	41.5495	92.3042	-689	QK	2.4	0	7.1	0	1.1	0	0.339	0	2.150	0	6.342	0	1822	53	1.8
51128.9	10000	41.5495	92.3033	-691	QK	2.2	-1	6.6	-1	1.0	-1	0.332	0	2.101	0	6.333	0	1792	45	1.8
51129.0	10000	41.5495	92.3025	-692	QK	2.5	0	6.2	-1	1.0	-1	0.410	1	2.613	1	6.381	0	1751	43	1.8
51129.1	10000	41.5496	92.3016	-694	QK	2.4	0	6.3	-1	0.9	-2	0.383	0	2.591	1	6.764	0	1727	48	1.8
51129.2	10000	41.5496	92.3008	-695	QK	2.2	-1	6.4	-1	1.0	-2	0.343	0	2.423	0	7.054	0	1701	47	1.8
51129.3	10000	41.5496	92.2999	-696	QK	2.1	-1	6.3	-1	0.9	-2	0.336	0	2.434	0	7.246	0	1673	39	1.8
51129.4	10000	41.5496	92.2991	-698	QK	1.9	-1	6.4	-1	0.9	-2	0.306	-1	2.221	0	7.247	0	1643	37	1.8
51129.5	10000	41.5496	92.2982	-699	QK	2.0	-1	6.3	-1	0.9	-2	0.353	0	2.321	0	6.574	1	1634	31	1.8
51129.6	10000	41.5496	92.2974	-700	QK	2.0	-1	6.3	-1	0.9	-2	0.327	0	2.162	0	6.611	1	1635	35	1.8
51129.7	10000	41.5497	92.2965	-700	QK	1.7	-2	6.3	-1	0.9	-2	0.263	-1	1.767	-1	6.717	1	1646	43	1.8
51129.8	10000	41.5497	92.2957	-700	QK	1.8	-2	6.3	-1	0.9	-2	0.255	-1	1.833	-1	7.184	0	1676	50	1.8
51129.9	10000	41.5497	92.2949	-700	QK	1.9	-1	6.7	-1	1.0	-2	0.290	-1	1.952	-1	6.730	0	1707	39	1.8
51130.0	10000	41.5497	92.2940	-700	QK	2.0	-1	6.9	-1	1.0	-2	0.291	-1	1.970	-1	6.773	0	1737	37	1.8
51130.1	10000	41.5497	92.2932	-699	QK	2.3	-1	7.1	0	1.0	-1	0.318	-1	2.202	-1	6.924	0	1763	55	1.8
51130.2	10000	41.5497	92.2923	-699	QK	2.2	-1	7.4	0	1.0	-1	0.290	-1	2.106	-1	7.261	0	1777	48	1.8
51130.3	10000	41.5497	92.2915	-698	QK	2.3	-1	7.4	0	1.0	-1	0.298	-1	2.379	-1	7.976	0	1768	48	1.8
51130.4	10000	41.5498	92.2906	-697	QK	2.3	-1	7.4	0	1.0	-1	0.300	-1	2.386	-1	7.961	0	1759	34	1.8
51130.5	10000	41.5498	92.2898	-697	QK	2.4	-1	7.5	0	1.0	-1	0.324	-1	2.558	-1	7.896	0	1727	36	1.8
51130.6	10000	41.5498	92.2889	-696	QK	2.2	-1	7.3	0	0.9	-1	0.291	-1	2.562	-1	8.803	0	1672	43	1.8
51130.7	10000	41.5498	92.2881	-696	QK	2.4	-1	7.4	0	0.9	-1	0.303	-1	2.684	-1	8.871	0	1643	46	1.8
51130.8	10000	41.5498	92.2872	-695	QK	2.4	-1	7.7	0	0.9	-1	0.343	-1	2.835	-1	8.276	0	1639	38	1.7
51130.9	10000	41.5498	92.2864	-694	QK	2.6	-1	7.0	0	0.9	-1	0.370	-1	3.118	-1	8.417	0	1666	40	1.7
51131.0	10000	41.5499	92.2856	-692	QK	2.6	-1	6.6	0	0.9	-1	0.400	-1	2.934	-1	7.331	0	1691	52	1.7
51131.1	10000	41.5499	92.2847	-690	QK	2.7	-1	6.5	0	1.0	-1	0.409	-1	3.016	-1	7.372	0	1709	46	1.7
51131.2	10000	41.5499	92.2839	-690	QK	2.6	-1	6.3	0	1.0	-1	0.400	-1	2.823	-1	7.064	0	1727	44	1.7
51131.3	10000	41.5499	92.2830	-689	QK	2.5	-1	6.4	0	1.0	-1	0.421	-1	2.788	-1	6.607	0	1766	36	1.7
51131.4	10000	41.5499	92.2822	-688	QK	2.4	-1	6.6	0	1.0	-1	0.391	-1	2.480	-1	6.344	0	1785	28	1.7
51131.5	10000	41.5499	92.2813	-687	QK	2.4	-1	6.6	0	1.0	-1	0.363	-1	2.355	-1	6.481	0	1776	43	1.7
51131.6	10000	41.5499	92.2805	-686	QK	2.2	-1	6.8	0	1.0	-1	0.318	-1	2.095	-1	6.584	0	1773	41	1.7
51131.7	10000	41.5499	92.2796	-685	QK	1.9	-1	6.8	0	1.0	-1	0.265	-1	1.959	-1	7.383	0	1769	37	1.7
51131.8	10000	41.5500	92.2788	-683	QK	1.9	-1	7.4	0	1.0	-1	0.259	-1	1.957	-1	7.555	0	1786	40	1.7

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51131.9	10000	41.5500	92.2779	-681	QK	1.9	-1	7.3	0	1.0	-1	0.268	-1	1.961	-1	7.310	1	1785	43	1.7
51132.0	10000	41.5500	92.2771	-678	QK	1.8	-1	7.3	0	1.0	-1	0.251	-1	1.794	-1	7.148	1	1769	52	1.7
51132.1	10000	41.5500	92.2763	-676	QK	1.9	-1	7.2	0	1.0	-1	0.263	-1	1.913	-1	7.278	1	1750	50	1.7
51132.2	10000	41.5500	92.2754	-674	QK	1.6	-2	7.1	0	1.0	-1	0.231	-2	1.646	-1	7.133	1	1737	49	1.7
51132.3	10000	41.5500	92.2746	-674	QK	1.4	-2	6.7	-1	1.0	-1	0.203	-2	1.370	-2	6.749	0	1706	39	1.7
51132.4	10000	41.5499	92.2737	-674	QK	1.4	-2	6.4	-1	1.0	-1	0.223	-2	1.424	-2	6.378	0	1687	54	1.7
51132.5	10000	41.5499	92.2729	-673	QK	1.4	-2	6.4	-1	1.0	-1	0.224	-2	1.391	-2	6.212	0	1663	39	1.7
51132.6	10000	41.5499	92.2721	-671	QK	1.3	-3	6.5	-1	1.0	-1	0.199	-2	1.246	-2	6.271	0	1651	36	1.7
51132.7	10000	41.5498	92.2712	-670	QK	1.3	-2	6.6	-1	1.0	-1	0.199	-2	1.287	-2	6.462	0	1648	40	1.7
51132.8	10000	41.5498	92.2704	-668	QK	1.3	-3	6.5	-1	1.0	-1	0.194	-2	1.221	-2	6.306	0	1661	54	1.7
51132.9	10000	41.5498	92.2695	-667	QK	1.5	-2	6.6	-1	1.1	-1	0.224	-2	1.400	-2	6.254	0	1672	38	1.7
51133.0	10000	41.5498	92.2687	-666	QK	1.8	-1	6.7	-1	1.0	-1	0.267	-1	1.729	-1	6.484	0	1662	53	1.7
51133.1	10000	41.5497	92.2679	-664	QK	1.8	-1	6.7	-1	1.0	-1	0.274	-1	1.759	-1	6.426	0	1659	46	1.7
51133.2	10000	41.5497	92.2670	-663	QK	1.7	-2	6.5	-1	1.0	-1	0.266	-1	1.701	-1	6.393	0	1662	49	1.7
51133.3	10000	41.5497	92.2662	-660	QK	2.0	-1	6.3	-1	1.0	-1	0.314	-1	2.019	-1	6.435	0	1665	43	1.7
51133.4	10000	41.5496	92.2654	-658	QK	2.2	-1	6.5	-1	1.0	-1	0.334	0	2.201	0	6.587	0	1685	39	1.7
51133.5	10000	41.5496	92.2645	-657	QK	2.3	0	6.8	-1	1.0	-1	0.338	0	2.312	0	6.850	1	1698	39	1.7
51133.6	10000	41.5496	92.2637	-655	QK	2.4	0	7.0	0	0.9	-1	0.336	0	2.477	0	7.375	1	1709	38	1.7
51133.7	10000	41.5496	92.2628	-652	QK	2.4	0	6.7	-1	1.0	-1	0.353	0	2.436	0	6.903	1	1727	45	1.7
51133.8	10000	41.5495	92.2620	-651	QK	2.4	0	6.7	-1	1.0	-1	0.355	0	2.444	0	6.885	1	1722	34	1.7
51133.9	10000	41.5495	92.2612	-649	QK	2.3	0	6.6	-1	1.0	-1	0.350	0	2.386	0	6.812	0	1722	49	1.7
51134.0	10000	41.5495	92.2603	-647	QK	2.3	-1	6.7	-1	1.0	-1	0.336	0	2.237	0	6.656	0	1725	37	1.7
51134.1	10000	41.5494	92.2595	-645	QK	2.1	-1	6.6	-1	1.0	-1	0.317	0	2.050	0	6.475	0	1711	35	1.7
51134.2	10000	41.5494	92.2586	-643	QK	1.9	-1	6.3	-1	1.0	-1	0.295	-1	1.789	-1	6.062	-1	1697	44	1.7
51134.3	10000	41.5494	92.2578	-641	QK	1.6	-2	6.4	-1	1.0	-1	0.255	-1	1.602	-1	6.269	0	1681	33	1.7
51134.4	10000	41.5494	92.2570	-639	QK	1.6	-2	6.7	-1	1.0	-1	0.239	-2	1.538	-2	6.443	0	1667	37	1.7
51134.5	10000	41.5493	92.2561	-637	QK	1.5	-2	6.5	-1	1.0	-1	0.228	-2	1.437	-2	6.300	0	1646	49	1.7
51134.6	10000	41.5493	92.2553	-635	QK	1.6	-2	7.0	0	1.1	-1	0.227	-2	1.496	-2	6.604	0	1644	42	1.7
51134.7	10000	41.5493	92.2545	-633	QK	1.6	-2	7.3	0	1.1	-1	0.217	-2	1.462	-2	6.752	0	1652	47	1.7
51134.8	10000	41.5492	92.2536	-631	QK	1.7	-2	7.2	0	1.1	-1	0.235	-2	1.596	-1	6.781	0	1644	44	1.7
51134.9	10000	41.5492	92.2528	-629	QK	1.9	-1	7.2	0	1.1	-1	0.260	-1	1.827	-1	7.037	1	1642	45	1.7
51135.0	10000	41.5492	92.2519	-626	QK	1.8	-1	6.8	-1	1.1	-1	0.271	-1	1.762	-1	6.507	0	1633	46	1.7
51135.1	10000	41.5492	92.2511	-624	QK	1.8	-1	6.7	-1	1.1	-1	0.272	-1	1.767	-1	6.495	0	1626	53	1.7
51135.2	10000	41.5491	92.2503	-622	QK	1.9	-1	6.7	-1	1.1	-1	0.291	-1	1.917	-1	6.587	0	1638	31	1.7
51135.3	10000	41.5491	92.2494	-620	QK	1.9	-1	6.3	-1	1.1	-1	0.298	-1	1.916	-1	6.438	0	1622	49	1.7
51135.4	10000	41.5491	92.2486	-618	QK	2.0	-1	5.8	-2	0.9	-2	0.335	0	2.093	0	6.254	0	1614	45	1.7
51135.5	10000	41.5490	92.2477	-616	QK	2.1	-1	5.9	-2	0.9	-1	0.359	0	2.258	0	6.298	0	1636	48	1.6
51135.6	10000	41.5490	92.2469	-614	QK	2.2	-1	5.9	-2	1.0	-1	0.378	0	2.334	0	6.180	0	1641	41	1.6
51135.7	10000	41.5490	92.2461	-612	QK	2.3	0	6.0	-2	1.0	-1	0.380	0	2.359	0	6.204	0	1664	33	1.6
51135.8	10000	41.5490	92.2452	-611	QK	2.3	0	6.3	-1	1.0	-1	0.367	0	2.373	0	6.472	0	1678	42	1.6
51135.9	10000	41.5489	92.2444	-609	QK	2.3	0	6.3	-1	1.0	-1	0.355	0	2.264	0	6.372	0	1690	37	1.6
51136.0	10000	41.5489	92.2435	-606	QK	2.5	0	6.3	-1	1.0	-1	0.404	1	2.558	1	6.328	0	1690	42	1.6
51136.1	10000	41.5489	92.2427	-604	QK	2.6	0	6.3	-1	1.0	-1	0.409	1	2.615	1	6.391	0	1690	44	1.6
51136.2	10000	41.5489	92.2419	-601	QK	2.6	0	6.2	-1	1.0	-1	0.412	1	2.704	1	6.561	0	1682	37	1.6
51136.3	10000	41.5488	92.2410	-598	QK	2.7	0	6.1	-1	0.9	-2	0.436	1	2.909	1	6.676	0	1669	43	1.6
51136.4	10000	41.5488	92.2402	-595	QK	2.7	0	5.9	-2	0.9	-2	0.486	1	3.298	2	6.793	0	1662	44	1.6
51136.5	10000	41.5488	92.2393	-589	QK	2.6	0	6.2	-1	0.9	-2	0.504	2	3.246	2	6.442	0	1666	40	1.6
51136.6	10000	41.5487	92.2385	-585	QK	2.9	-1	6.4	-1	1.0	-1	0.501	2	3.419	2	6.831	0	1685	44	1.6
51136.7	10000	41.5487	92.2377	-584	QK	2.7	-1	6.6	-1	1.0	-1	0.446	1	2.953	2	6.629	0	1711	65	1.6
51136.8	10000	41.5487	92.2368	-582	QK	2.6	-1	6.2	-1	1.0	-1	0.401	1	2.725	1	6.797	0	1711	40	1.6
51136.9	10000	41.5487	92.2360	-578	QK	2.6	-1	6.3	-1	1.0	-1	0.416	1	2.652	1	6.381	0	1703	38	1.6
51137.0	10000	41.5486	92.2352	-574	QK	2.5	0	6.3	-1	1.0	-1	0.394	1	2.454	0	6.225	0	1712	38	1.6

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51137.1	10000	41.5486	92.2343	-571	QK	2.4	0	6.5	-1	1.0	-1	0.374	0	2.422	0	6.475	0	1714	50	1.6
51137.2	10000	41.5486	92.2335	-566	QK	2.5	0	6.8	-1	1.0	-1	0.363	0	2.518	0	6.930	1	1710	46	1.6
51137.3	10000	41.5485	92.2327	-562	QK	2.2	-1	6.3	-1	0.9	-1	0.348	0	2.327	0	6.687	0	1690	31	1.6
51137.4	10000	41.5485	92.2318	-558	QK	2.4	0	6.4	-1	0.9	-2	0.381	0	2.731	1	7.159	1	1678	46	1.6
51137.5	10000	41.5485	92.2310	-554	QK	2.5	0	6.0	-2	0.9	-2	0.419	1	2.767	1	6.601	0	1678	29	1.6
51137.6	10000	41.5484	92.2301	-549	QK	2.4	0	6.5	-1	1.0	-1	0.366	0	2.488	0	6.795	0	1680	50	1.6
51137.7	10000	41.5484	92.2293	-545	QK	2.3	0	6.2	-1	0.9	-2	0.367	0	2.493	0	6.792	0	1675	40	1.6
51137.8	10000	41.5484	92.2285	-542	QK	2.0	-1	6.5	-1	1.0	-1	0.312	-1	2.134	0	6.845	1	1675	35	1.6
51137.9	10000	41.5484	92.2276	-540	QK	1.9	-1	6.4	-1	1.0	-1	0.294	-1	1.952	-1	6.639	0	1676	38	1.6
51138.0	10000	41.5483	92.2268	-536	QK	2.1	-1	6.4	-1	1.0	-1	0.330	0	2.118	0	6.417	0	1694	34	1.6
51138.1	10000	41.5483	92.2259	-533	QK	2.0	-1	6.2	-1	1.0	-1	0.315	-1	1.885	-1	5.993	-1	1700	32	1.6
51138.2	10000	41.5483	92.2251	-531	QK	2.1	-1	6.7	-1	1.1	0	0.307	-1	1.927	-1	6.286	0	1705	41	1.6
51138.3	10000	41.5482	92.2243	-528	QK	2.1	-1	6.7	-1	1.1	-1	0.307	-1	1.948	-1	6.345	0	1699	45	1.6
51138.4	10000	41.5482	92.2234	-526	QK	2.3	-1	6.7	-1	1.1	0	0.337	0	2.108	0	6.250	0	1694	41	1.6
51138.5	10000	41.5482	92.2226	-524	QK	2.5	0	6.8	-1	1.1	-1	0.372	0	2.414	0	6.486	0	1712	38	1.6
51138.6	10000	41.5482	92.2217	-521	QK	2.9	1	6.6	-1	1.0	-1	0.437	1	2.791	1	6.386	0	1722	43	1.6
51138.7	10000	41.5481	92.2209	-518	QK	2.8	1	6.6	-1	1.0	-1	0.426	1	2.754	1	6.473	0	1718	35	1.6
51138.8	10000	41.5481	92.2201	-514	QK	3.0	1	6.6	-1	1.0	-1	0.448	1	2.878	1	6.427	0	1734	46	1.6
51138.9	10000	41.5481	92.2192	-510	QK	2.9	1	6.7	-1	1.0	-1	0.429	1	2.765	1	6.451	0	1743	34	1.6
51139.0	10000	41.5480	92.2184	-504	QK	2.9	1	6.4	-1	1.1	0	0.450	1	2.701	1	6.003	-1	1759	37	1.6
51139.1	10000	41.5480	92.2175	-498	QK	2.6	0	6.8	-1	1.1	0	0.378	0	2.317	0	6.131	-1	1772	36	1.6
51139.2	10000	41.5480	92.2167	-491	QK	2.4	0	6.5	-1	1.1	0	0.373	0	2.161	0	5.794	-1	1757	52	1.6
51139.3	10000	41.5480	92.2159	-482	QK	2.0	-1	6.9	0	1.2	1	0.294	-1	1.712	-1	5.825	-1	1760	44	1.6
51139.4	10000	41.5479	92.2150	-472	QK	1.9	-1	7.3	0	1.2	1	0.262	-1	1.583	-1	6.040	-1	1771	56	1.6
51139.5	10000	41.5479	92.2142	-460	QK	1.6	-2	7.3	0	1.2	1	0.221	-2	1.323	-2	5.978	-1	1763	42	1.6
51139.6	10000	41.5479	92.2134	-446	QK	1.6	-2	7.3	0	1.2	1	0.219	-2	1.343	-2	6.118	-1	1766	31	1.6
51139.7	10000	41.5479	92.2125	-431	QK	1.5	-2	7.7	0	1.1	1	0.190	-2	1.306	-2	6.875	-1	1750	55	1.6
51139.8	10000	41.5478	92.2117	-414	QK	1.6	-2	7.5	0	1.1	1	0.211	-2	1.438	-2	6.820	-1	1752	36	1.6
51139.9	10000	41.5478	92.2108	-394	QK	1.7	-2	7.5	0	1.1	1	0.227	-2	1.518	-2	6.689	0	1764	40	1.6
51140.0	10000	41.5478	92.2100	-373	QK	2.1	-1	7.3	0	1.1	1	0.291	-1	1.986	-2	6.819	0	1759	46	1.6
51140.1	10000	41.5477	92.2092	-351	QK	2.2	-1	7.1	0	1.1	0	0.303	-1	2.090	-1	6.903	1	1737	42	1.6
51140.2	10000	41.5477	92.2083	-328	QK	2.3	-1	7.1	0	1.1	0	0.316	-1	2.324	0	7.348	1	1731	38	1.6
51140.3	10000	41.5477	92.2075	-303	QK	2.3	-1	7.0	0	1.1	0	0.324	-1	2.360	0	7.290	1	1718	41	1.6
51140.4	10000	41.5477	92.2066	-277	QK	2.5	0	6.5	-1	1.0	0	0.387	0	2.634	1	6.813	1	1712	42	1.6
51140.5	10000	41.5476	92.2058	-250	QK	2.3	0	6.6	-1	1.0	0	0.351	0	2.472	0	7.047	1	1687	45	1.6
51140.6	10000	41.5476	92.2050	-223	QAL	2.1	-1	6.4	-1	0.9	-1	0.320	-1	2.246	0	7.025	1	1654	52	1.6
51140.7	10000	41.5476	92.2041	-198	QAL	1.8	-1	6.4	-1	0.9	-1	0.276	-1	1.863	-1	6.738	1	1635	44	1.6
51140.8	10000	41.5475	92.2033	-172	QAL	1.7	-1	6.1	-1	0.9	-1	0.283	-1	1.832	-1	6.461	1	1635	36	1.6
51140.9	10000	41.5475	92.2025	-148	QAL	1.6	-2	5.9	-1	0.9	-1	0.273	-1	1.691	-1	6.194	0	1609	50	1.6
51141.0	10000	41.5475	92.2016	-125	QAL	1.6	-2	5.5	-1	0.9	-1	0.287	-1	1.650	-1	5.750	0	1578	51	1.6
51141.1	10000	41.5474	92.2008	-105	QAL	1.4	-2	5.6	-1	1.0	-1	0.241	-2	1.385	-2	5.736	0	1565	37	1.6
51141.2	10000	41.5474	92.1999	-85	QAL	1.4	-2	5.2	-1	1.0	-1	0.269	-1	1.473	-2	5.484	-1	1564	52	1.6
51141.3	10000	41.5474	92.1991	-69	QAL	1.6	-2	5.2	-1	0.9	-1	0.308	-1	1.678	-1	5.446	-1	1573	41	1.6
51141.4	10000	41.5474	92.1983	-55	QAL	1.5	-2	5.1	-1	0.9	-1	0.304	-1	1.702	-1	5.605	-1	1583	36	1.6
51141.5	10000	41.5473	92.1974	-43	QAL	1.4	-2	5.4	-1	1.0	-1	0.263	-1	1.513	-1	5.751	0	1593	46	1.6
51141.6	10000	41.5473	92.1966	-33	CAL	1.8	-1	5.6	-1	1.0	-1	0.319	-1	1.837	-1	5.764	0	1629	39	1.6
51141.7	10000	41.5473	92.1958	-25	QAL	1.7	-1	6.4	-1	1.0	-1	0.274	-1	1.756	-1	6.414	0	1673	35	1.6
51141.8	10000	41.5472	92.1949	-19	QAL	1.9	-1	6.4	-1	1.0	-1	0.294	-1	1.901	-1	6.474	0	1696	31	1.6
51141.9	10000	41.5472	92.1941	-15	QAL	1.9	-1	6.7	0	1.0	-1	0.278	-1	1.771	-1	6.378	0	1736	54	1.6
51142.0	10000	41.5472	92.1932	-12	QK	1.9	-1	6.7	0	1.1	0	0.277	-1	1.734	-1	6.263	0	1765	47	1.6
51142.1	10000	41.5471	92.1924	-9	QK	1.9	-1	7.0	0	1.1	0	0.267	-1	1.652	-1	6.180	0	1780	45	1.6
51142.2	10000	41.5471	92.1916	-7	QK	2.0	-1	7.0	0	1.1	0	0.291	-1	1.844	-1	6.343	0	1787	37	1.6

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51142.3	10000	41.5471	92.1907	-6	QK	1.7	-2	6.9	0	1.1	0	0.241	-2	1.496	-2	6.201	0	1771	56	1.6
51142.4	10000	41.5471	92.1899	-4	QK	1.7	-2	6.5	-1	1.1	0	0.261	-1	1.539	-2	5.893	-1	1754	42	1.6
51142.5	10000	41.5470	92.1890	-3	QK	1.8	-2	6.5	-1	1.1	0	0.274	-1	1.580	-1	5.760	-1	1749	40	1.6
51142.6	10000	41.5470	92.1882	0	QK	1.9	-1	6.4	-1	1.1	0	0.298	-1	1.751	-1	5.868	-1	1744	47	1.6
51142.7	10000	41.5470	92.1874	2	QK	2.0	-1	6.7	-1	1.1	0	0.298	-1	1.812	-1	6.086	-1	1739	41	1.6
51142.8	10000	41.5470	92.1865	6	QK	2.0	-1	6.7	-1	1.1	0	0.297	-1	1.819	-1	6.122	-1	1735	37	1.6
51142.9	10000	41.5469	92.1857	10	QK	2.2	-1	6.2	-1	1.1	0	0.352	0	2.009	-1	5.700	-1	1712	52	1.6
51143.0	10000	41.5469	92.1848	14	QK	2.4	0	5.9	-2	1.0	-1	0.405	1	2.318	0	5.722	-1	1687	42	1.6
51143.1	10000	41.5469	92.1840	20	QK	2.3	-1	5.8	-2	1.0	-1	0.393	1	2.308	0	5.878	-1	1660	54	1.6
51143.2	10000	41.5468	92.1832	26	QK	2.2	-1	5.7	-2	1.0	-1	0.394	1	2.280	0	5.782	-1	1639	50	1.6
51143.3	10000	41.5468	92.1823	32	QK	2.0	-1	5.6	-2	1.0	-1	0.388	1	2.164	0	5.582	-1	1607	54	1.6
51143.4	10000	41.5468	92.1815	39	QK	1.9	-1	5.4	-2	1.0	-1	0.352	0	1.959	-1	5.561	-1	1574	51	1.6
51143.5	10000	41.5468	92.1806	46	QK	1.9	-1	5.3	-2	1.0	-1	0.359	0	1.980	-1	5.519	-1	1545	38	1.6
51143.6	10000	41.5467	92.1798	53	QK	1.6	-2	5.3	-2	1.0	-1	0.315	-1	1.709	-1	5.431	-1	1534	42	1.6
51143.7	10000	41.5467	92.1790	60	QK	1.7	-2	5.3	-2	1.0	-1	0.319	0	1.719	-1	5.395	-2	1537	45	1.6
51143.8	10000	41.5467	92.1781	66	QK	1.8	-2	5.3	-2	1.0	-1	0.339	0	1.802	-1	5.310	-2	1532	42	1.6
51143.9	10000	41.5466	92.1773	72	QK	1.7	-2	5.3	-2	1.0	-1	0.310	-1	1.721	-1	5.555	-1	1539	40	1.6
51144.0	10000	41.5466	92.1765	77	QK	1.6	-2	5.4	-2	0.9	-2	0.288	-1	1.692	-1	5.873	-1	1537	50	1.6
51144.1	10000	41.5466	92.1756	82	QK	1.5	-2	5.3	-2	0.8	-2	0.290	-1	1.765	-1	6.091	-1	1518	33	1.6
51144.2	10000	41.5466	92.1748	88	QK	1.7	-2	5.3	-2	0.8	-2	0.336	0	2.050	0	6.099	-1	1516	41	1.6
51144.3	10000	41.5465	92.1740	92	QK	1.9	-1	5.4	-2	0.8	-2	0.363	0	2.363	0	6.510	0	1507	37	1.6
51144.4	10000	41.5465	92.1731	96	QK	1.8	-1	5.6	-2	0.8	-2	0.322	0	2.204	0	6.838	1	1513	30	1.6
51144.5	10000	41.5465	92.1723	100	QK	2.0	-1	5.7	-2	0.8	-2	0.348	0	2.424	0	6.964	1	1531	34	1.6
51144.6	10000	41.5464	92.1714	104	QK	2.2	-1	5.8	-2	0.8	-2	0.381	1	2.688	1	7.057	1	1552	49	1.6
51144.7	10000	41.5464	92.1706	108	QK	2.2	-1	5.8	-2	0.8	-2	0.385	1	2.711	1	7.035	1	1560	51	1.6
51144.8	10000	41.5464	92.1698	111	QK	2.5	-1	5.6	-2	0.9	-2	0.439	1	2.807	1	6.389	0	1587	31	1.6
51144.9	10000	41.5463	92.1689	112	QK	2.5	0	5.6	-2	0.9	-2	0.447	1	2.850	1	6.379	0	1598	32	1.6
51145.0	10000	41.5463	92.1681	115	QK	2.3	-1	5.5	-2	0.9	-2	0.415	1	2.561	1	6.179	0	1599	35	1.6
51145.1	10000	41.5463	92.1672	117	QK	2.2	-1	5.5	-2	0.9	-2	0.411	1	2.435	0	5.921	-1	1595	34	1.6
51145.2	10000	41.5463	92.1664	118	QK	2.0	-1	5.5	-2	0.9	-2	0.388	1	2.200	0	5.670	-1	1590	42	1.6
51145.3	10000	41.5462	92.1656	117	QK	1.8	-1	5.5	-2	0.9	-2	0.358	0	1.965	-1	5.490	-1	1566	45	1.6
51145.4	10000	41.5462	92.1647	116	QK	1.8	-2	5.6	-2	0.9	-2	0.315	0	1.855	-1	5.891	-1	1575	39	1.6
51145.5	10000	41.5462	92.1639	115	QK	1.5	-2	5.5	-2	0.9	-2	0.250	-1	1.551	-2	6.201	0	1578	42	1.6
51145.6	10000	41.5461	92.1630	114	QK	1.2	-2	5.3	-2	0.9	-2	0.199	-2	1.174	-2	5.909	-1	1593	37	1.6
51145.7	10000	41.5461	92.1622	113	QK	1.3	-2	5.2	-2	1.0	-2	0.208	-2	1.216	-2	5.852	-1	1620	35	1.6
51145.8	10000	41.5461	92.1614	111	QK	1.4	-2	5.2	-2	1.0	-2	0.208	-2	1.289	-2	6.194	0	1612	33	1.6
51145.9	10000	41.5461	92.1605	109	QK	1.4	-2	5.2	-2	1.0	-2	0.220	-2	1.380	-2	6.267	0	1626	50	1.6
51146.0	10000	41.5460	92.1597	106	QK	1.5	-2	5.4	-2	1.1	-1	0.232	-2	1.414	-2	6.109	-1	1625	29	1.6
51146.1	10000	41.5460	92.1588	103	QK	1.6	-2	5.5	-2	1.1	-1	0.267	-1	1.481	-2	5.544	-1	1610	50	1.6
51146.2	10000	41.5460	92.1580	100	QK	1.8	-1	5.5	-2	1.1	-1	0.332	0	1.775	-1	5.349	-2	1599	31	1.6
51146.3	10000	41.5459	92.1572	97	QK	2.0	-1	5.5	-2	1.1	-1	0.360	1	2.050	0	5.691	-1	1590	37	1.6
51146.4	10000	41.5459	92.1563	94	QK	2.1	-1	5.4	-2	1.0	-1	0.398	1	2.267	0	5.700	-1	1585	43	1.6
51146.5	10000	41.5459	92.1555	90	QK	2.1	-1	5.4	-2	1.0	-1	0.393	1	2.177	0	5.537	-1	1591	44	1.6
51146.6	10000	41.5459	92.1547	87	QK	2.3	-1	5.5	-2	0.9	-2	0.410	1	2.420	0	5.909	-1	1585	50	1.6
51146.7	10000	41.5459	92.1538	83	QK	2.1	-1	5.6	-2	0.9	-2	0.379	1	2.312	0	6.100	-1	1604	54	1.6
51146.8	10000	41.5459	92.1530	80	QK	2.2	-1	5.8	-2	0.9	-2	0.388	1	2.406	0	6.205	0	1624	51	1.6
51146.9	10000	41.5459	92.1522	77	QK	2.2	-1	6.0	-2	0.9	-2	0.366	0	2.381	0	6.498	0	1645	39	1.6
51147.0	10000	41.5459	92.1514	74	QK	2.0	-1	6.2	-2	0.9	-2	0.326	0	2.185	0	6.712	0	1634	44	1.6
51147.1	10000	41.5459	92.1505	70	QK	1.9	-1	6.0	-2	0.9	-2	0.314	-1	2.086	0	6.639	0	1634	44	1.6
51147.2	10000	41.5459	92.1497	66	QK	2.0	-1	6.0	-2	1.0	-2	0.330	-1	2.074	0	6.289	0	1641	39	1.6
51147.3	10000	41.5459	92.1489	62	QK	1.7	-2	6.0	-2	1.0	-1	0.276	-1	1.686	-1	6.115	-1	1634	42	1.6
51147.4	10000	41.5459	92.1480	58	QK	2.0	-1	6.0	-2	1.0	-1	0.327	0	1.937	-1	5.923	-1	1634	37	1.6

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51147.5	10000	41.5459	92.1472	55	QK	1.8	-2	6.1	-1	1.0	-1	0.285	-1	1.757	-1	6.163	0	1613	54	1.6
51147.6	10000	41.5459	92.1464	52	QK	1.9	-1	6.0	-2	1.0	-1	0.308	-1	1.845	-1	5.981	-1	1605	49	1.6
51147.7	10000	41.5459	92.1456	49	QK	2.3	-1	5.9	-2	1.0	-1	0.381	0	2.169	0	5.696	-1	1608	42	1.6
51147.8	10000	41.5459	92.1447	48	QK	2.2	-1	6.0	-2	1.0	-1	0.364	0	2.207	0	6.067	-1	1584	52	1.6
51147.9	10000	41.5459	92.1439	45	QK	1.9	-1	6.1	-2	0.9	-2	0.316	0	2.036	0	6.448	0	1568	36	1.6
51148.0	10000	41.5459	92.1431	43	QK	2.0	-1	5.7	-2	0.9	-2	0.347	0	2.132	0	6.134	0	1552	33	1.6
51148.1	10000	41.5459	92.1422	40	QK	1.7	-2	5.8	-2	0.9	-2	0.300	-1	1.898	-1	6.329	0	1542	44	1.6
51148.2	10000	41.5460	92.1414	38	QK	1.9	-1	5.8	-2	0.9	-2	0.331	0	2.065	0	6.243	0	1550	51	1.6
51148.3	10000	41.5460	92.1406	35	QK	1.9	-1	5.5	-2	0.9	-2	0.357	0	2.099	0	5.886	-1	1548	49	1.6
51148.4	10000	41.5460	92.1398	33	QK	1.7	-2	5.5	-2	0.9	-2	0.309	-1	1.810	-1	5.853	-1	1550	46	1.6
51148.5	10000	41.5460	92.1389	31	QK	1.7	-2	5.7	-2	1.0	-1	0.303	-1	1.786	-1	5.901	-1	1575	34	1.6
51148.6	10000	41.5460	92.1381	28	QK	2.1	-1	6.1	-2	1.0	-1	0.350	0	2.178	0	6.221	0	1608	38	1.6
51148.7	10000	41.5460	92.1373	25	QK	2.2	-1	6.2	-1	1.0	-1	0.355	0	2.105	0	5.937	-1	1647	38	1.6
51148.8	10000	41.5460	92.1365	22	QK	2.1	-1	6.3	-1	1.1	0	0.335	0	1.984	-1	5.916	-1	1652	35	1.6
51148.9	10000	41.5460	92.1356	19	QK	2.2	-1	6.2	-1	1.1	0	0.352	0	1.982	-1	5.627	-1	1665	41	1.6
51149.0	10000	41.5460	92.1348	15	QK	2.0	-1	6.4	-1	1.1	0	0.302	-1	1.811	-1	5.987	-1	1660	50	1.6
51149.1	10000	41.5460	92.1340	11	QK	1.8	-1	6.4	-1	1.1	0	0.283	-1	1.647	-1	5.812	-1	1668	53	1.6
51149.2	10000	41.5460	92.1331	8	QK	1.7	-2	6.2	-1	1.1	0	0.280	-1	1.562	-1	5.576	-1	1665	43	1.6
51149.3	10000	41.5460	92.1323	4	QK	1.7	-2	5.8	-2	1.1	0	0.300	-1	1.527	-2	5.095	-2	1678	26	1.6
51149.4	10000	41.5460	92.1315	1	QK	1.7	-2	6.3	-1	1.1	0	0.279	-1	1.531	-2	5.491	-1	1689	38	1.6
51149.5	10000	41.5460	92.1307	-4	QK	2.0	-1	6.2	-1	1.1	0	0.324	0	1.798	-1	5.547	-1	1699	63	1.6
51149.6	10000	41.5460	92.1298	-8	QK	2.0	-1	6.0	-2	1.1	0	0.329	0	1.805	-1	5.491	-1	1705	49	1.6
51149.7	10000	41.5460	92.1290	-13	QK	2.0	-1	6.3	-1	1.1	0	0.314	-1	1.730	-1	5.511	-1	1739	47	1.6
51149.8	10000	41.5460	92.1282	-19	QK	2.1	-1	6.2	-1	1.1	0	0.329	0	1.889	-1	5.736	-1	1740	48	1.6
51149.9	10000	41.5460	92.1273	-24	QK	2.4	0	6.6	-1	1.1	0	0.360	0	2.162	0	6.000	-1	1745	57	1.6
51150.0	10000	41.5460	92.1265	-29	QK	2.0	-1	6.8	-1	1.1	0	0.298	-1	1.911	-1	6.410	0	1724	43	1.6
51150.1	10000	41.5460	92.1257	-34	QK	2.1	-1	6.8	-1	1.0	-1	0.310	-1	2.025	-1	6.531	0	1708	53	1.6
51150.2	10000	41.5460	92.1249	-41	QK	1.8	-1	6.9	0	1.1	0	0.260	-1	1.682	-1	6.474	0	1695	59	1.6
51150.3	10000	41.5460	92.1240	-47	QK	1.7	-2	7.3	0	1.1	0	0.239	-2	1.631	-1	6.837	1	1692	41	1.6
51150.4	10000	41.5460	92.1232	-53	QK	1.8	-1	7.3	-1	1.1	0	0.257	-1	1.749	-1	6.803	0	1658	41	1.6
51150.5	10000	41.5460	92.1224	-60	QK	2.1	-1	7.3	-1	1.1	0	0.286	-1	2.051	-1	7.180	1	1657	46	1.6
51150.6	10000	41.5461	92.1216	-67	QK	2.1	-1	6.9	-1	1.1	0	0.298	-1	2.027	-1	6.810	0	1652	38	1.6
51150.7	10000	41.5461	92.1207	-75	QK	2.5	-1	6.5	-1	1.1	0	0.383	0	2.430	0	6.341	0	1642	38	1.6
51150.8	10000	41.5461	92.1199	-83	QK	2.4	-2	6.5	-1	1.1	0	0.392	1	2.434	0	6.204	0	1617	36	1.6
51150.9	10000	41.5461	92.1191	-90	QK	2.6	-2	6.5	-1	1.1	0	0.438	1	2.696	1	6.160	0	1592	38	1.6
51151.0	10000	41.5461	92.1182	-97	QK	2.6	-2	6.5	-1	1.1	0	0.461	2	2.658	1	5.767	-1	1564	45	1.6
51151.1	10000	41.5461	92.1174	-105	QK	2.6	-2	6.6	-1	1.1	0	0.471	2	2.745	1	5.824	-1	1571	44	1.6
51151.2	10000	41.5461	92.1166	-112	QK	2.6	-2	6.4	-1	1.1	0	0.483	2	2.663	1	5.517	-1	1566	43	1.6
51151.3	10000	41.5461	92.1158	-119	QK	2.4	-2	6.5	-1	1.1	0	0.449	1	2.502	1	5.575	-1	1570	48	1.6
51151.4	10000	41.5461	92.1149	-126	QK	2.0	-2	6.6	-1	1.1	0	0.363	0	2.116	0	5.827	-1	1573	48	1.6
51151.5	10000	41.5461	92.1141	-133	QK	2.2	-1	6.7	-1	1.1	0	0.382	0	2.183	0	5.716	-1	1585	46	1.6
51151.6	10000	41.5461	92.1133	-139	QK	2.3	-1	6.8	-1	1.1	0	0.373	0	2.169	0	5.815	-1	1617	34	1.6
51151.7	10000	41.5461	92.1124	-145	QK	2.3	-1	6.9	-1	1.1	0	0.385	0	2.245	0	5.826	-1	1643	49	1.6
51151.8	10000	41.5461	92.1116	-151	QK	2.3	-1	6.8	-1	1.1	0	0.392	0	2.342	0	5.974	-1	1647	41	1.6
51151.9	10000	41.5461	92.1108	-157	QK	2.1	-1	6.6	-1	1.1	0	0.352	0	2.074	0	5.898	-1	1654	48	1.6
51152.0	10000	41.5461	92.1100	-163	QK	2.1	-1	6.6	-1	1.1	0	0.334	0	2.055	0	6.151	0	1672	49	1.6
51152.1	10000	41.5461	92.1091	-169	QK	2.4	-1	7.0	-1	1.1	0	0.364	0	2.320	0	6.367	0	1705	49	1.6
51152.2	10000	41.5461	92.1083	-174	QK	2.5	-1	7.2	-1	1.1	0	0.351	0	2.392	0	6.823	1	1742	37	1.6
51152.3	10000	41.5461	92.1075	-179	QK	2.6	-1	7.3	-1	1.1	0	0.356	0	2.478	0	6.964	1	1774	47	1.6
51152.4	10000	41.5461	92.1066	-184	QK	2.4	-1	7.7	-1	1.1	0	0.315	0	2.214	0	7.029	1	1802	48	1.6
51152.5	10000	41.5461	92.1058	-189	QK	2.6	-1	7.9	-1	1.1	0	0.324	0	2.338	0	7.204	1	1853	34	1.6
51152.6	10000	41.5461	92.1050	-193	QK														39	1.6

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51152.7	10000	41.5461	92.1042	-197	QAL	2.7	0	8.2	2	1.2	1	0.329	-1	2.296	0	6.982	1	1884	48	1.6
51152.8	10000	41.5461	92.1033	-201	QAL	2.8	1	8.3	2	1.2	1	0.336	-1	2.355	0	7.019	1	1907	43	1.6
51152.9	10000	41.5461	92.1025	-204	QAL	2.7	0	7.9	1	1.2	1	0.336	-1	2.202	0	6.562	1	1917	34	1.6
51153.0	10000	41.5461	92.1017	-206	QAL	2.5	0	7.6	1	1.2	1	0.329	-1	2.044	0	6.218	0	1920	44	1.6
51153.1	10000	41.5461	92.1008	-209	QAL	2.5	0	7.8	1	1.2	1	0.327	-1	2.084	0	6.362	0	1924	47	1.5
51153.2	10000	41.5462	92.1000	-211	QAL	2.8	1	7.5	1	1.2	1	0.371	0	2.352	0	6.334	0	1941	35	1.5
51153.3	10000	41.5462	92.0992	-213	QAL	3.0	1	7.2	1	1.1	0	0.422	0	2.646	1	6.266	0	1940	37	1.5
51153.4	10000	41.5462	92.0984	-215	QAL	3.0	1	6.9	1	1.1	0	0.436	0	2.785	1	6.394	0	1920	31	1.5
51153.5	10000	41.5462	92.0975	-216	QAL	2.9	1	7.0	1	1.1	0	0.417	0	2.631	1	6.309	0	1902	40	1.5
51153.6	10000	41.5462	92.0967	-217	QAL	2.8	1	6.9	1	1.1	0	0.409	0	2.573	0	6.297	0	1900	39	1.5
51153.7	10000	41.5462	92.0959	-217	QAL	2.9	1	7.0	1	1.1	0	0.411	0	2.590	0	6.297	0	1893	40	1.5
51153.8	10000	41.5462	92.0950	-217	QK	2.7	0	7.0	1	1.1	0	0.390	0	2.429	0	6.226	0	1884	49	1.5
51153.9	10000	41.5462	92.0942	-218	QK	2.5	0	7.1	1	1.1	0	0.356	0	2.212	0	6.210	0	1866	32	1.5
51154.0	10000	41.5462	92.0934	-218	QK	2.3	-1	7.2	1	1.2	0	0.320	0	1.904	-1	5.953	-1	1865	48	1.5
51154.1	10000	41.5462	92.0926	-217	QK	2.2	-1	7.3	1	1.2	0	0.299	-1	1.753	-1	5.863	-1	1878	38	1.5
51154.2	10000	41.5462	92.0918	-216	QK	2.0	-1	7.1	1	1.2	0	0.288	-1	1.661	-1	5.771	-1	1879	44	1.5
51154.3	10000	41.5462	92.0909	-215	QK	2.2	-1	7.3	1	1.2	0	0.304	-1	1.805	-1	5.947	-1	1871	51	1.5
51154.4	10000	41.5462	92.0901	-214	QK	2.4	0	7.4	1	1.2	0	0.327	0	2.058	0	6.292	0	1873	57	1.5
51154.5	10000	41.5462	92.0893	-213	QK	2.5	0	7.8	1	1.2	0	0.316	0	2.115	0	6.687	0	1875	47	1.5
51154.6	10000	41.5462	92.0884	-211	QK	2.3	0	7.8	1	1.2	0	0.300	-1	2.016	-1	6.725	0	1882	41	1.5
51154.7	10000	41.5462	92.0876	-210	QK	2.1	-1	8.0	1	1.2	0	0.267	-1	1.845	-1	6.907	1	1887	41	1.5
51154.8	10000	41.5462	92.0868	-209	QK	2.2	-1	7.9	1	1.2	0	0.279	-1	1.856	-1	6.661	0	1862	47	1.5
51154.9	10000	41.5462	92.0860	-208	QK	2.3	0	7.7	1	1.2	0	0.303	-1	1.960	-1	6.462	0	1848	49	1.5
51155.0	10000	41.5462	92.0851	-207	QK	2.1	-1	7.7	1	1.2	0	0.266	-1	1.776	-1	6.669	0	1818	45	1.5
51155.1	10000	41.5462	92.0843	-206	QK	1.8	-1	7.6	1	1.2	0	0.240	-2	1.581	-1	6.576	0	1801	47	1.5
51155.2	10000	41.5462	92.0835	-205	QK	1.9	-1	7.5	1	1.2	0	0.250	-1	1.589	-1	6.367	0	1786	57	1.5
51155.3	10000	41.5462	92.0826	-204	QK	1.8	-1	7.5	1	1.2	0	0.242	-2	1.554	-2	6.411	0	1757	36	1.5
51155.4	10000	41.5462	92.0818	-203	QK	1.9	-1	7.4	1	1.1	0	0.255	-1	1.688	-1	6.629	0	1738	34	1.5
51155.5	10000	41.5462	92.0810	-202	QK	1.9	-1	7.6	1	1.1	0	0.243	-1	1.734	-1	7.134	1	1738	45	1.5
51155.6	10000	41.5462	92.0802	-201	QK	1.6	-2	7.9	1	1.1	0	0.201	-2	1.472	-2	7.328	1	1749	38	1.5
51155.7	10000	41.5462	92.0793	-200	QK	1.8	-2	8.0	1	1.2	0	0.220	-2	1.569	-1	7.141	1	1780	50	1.5
51155.8	10000	41.5462	92.0785	-199	QK	1.7	-2	8.1	1	1.2	0	0.217	-2	1.496	-2	6.897	1	1800	42	1.5
51155.9	10000	41.5462	92.0777	-198	QK	1.9	-1	8.0	1	1.2	0	0.231	-2	1.594	-1	6.910	1	1823	27	1.5
51156.0	10000	41.5463	92.0768	-197	QK	2.2	-1	8.5	2	1.2	0	0.256	-1	1.828	-1	7.137	1	1863	40	1.5
51156.1	10000	41.5463	92.0760	-196	QK	2.0	-1	8.7	2	1.2	0	0.228	-2	1.642	-1	7.196	1	1891	45	1.5
51156.2	10000	41.5463	92.0752	-196	QK	2.1	-1	8.6	2	1.2	0	0.241	-2	1.710	-1	7.085	1	1898	58	1.5
51156.3	10000	41.5463	92.0744	-197	QK	2.3	-1	8.5	2	1.2	0	0.268	-1	1.910	-1	7.117	1	1910	46	1.4
51156.4	10000	41.5463	92.0735	-198	QK	2.3	-1	8.5	2	1.2	0	0.265	-1	1.843	-1	6.944	1	1913	41	1.4
51156.5	10000	41.5463	92.0727	-198	QAL	2.1	-1	8.4	2	1.2	0	0.246	-2	1.664	-1	6.767	1	1914	37	1.4
51156.6	10000	41.5463	92.0719	-198	QAL	2.0	-1	8.0	2	1.2	0	0.248	-2	1.638	-1	6.608	1	1898	35	1.4
51156.7	10000	41.5463	92.0710	-200	QAL	2.0	-1	7.7	2	1.2	0	0.255	-1	1.691	-1	6.631	1	1895	48	1.4
51156.8	10000	41.5463	92.0702	-202	QAL	2.1	-1	7.7	2	1.2	0	0.272	-1	1.787	-1	6.579	1	1868	34	1.4
51156.9	10000	41.5463	92.0694	-204	QAL	2.0	-1	7.4	2	1.2	0	0.263	-1	1.655	-1	6.283	1	1856	43	1.4
51157.0	10000	41.5463	92.0686	-207	QAL	2.0	-1	7.2	2	1.2	0	0.276	-1	1.644	-1	5.959	0	1837	43	1.4
51157.1	10000	41.5463	92.0677	-210	QAL	2.0	-1	7.0	2	1.2	0	0.291	-1	1.711	-1	5.881	0	1821	46	1.4
51157.2	10000	41.5463	92.0669	-213	QAL	2.1	-1	6.9	2	1.2	0	0.301	-1	1.792	-1	5.963	0	1784	43	1.4
51157.3	10000	41.5463	92.0661	-216	QAL	2.0	-1	6.9	1	1.1	0	0.290	-1	1.763	-1	6.077	0	1785	52	1.4
51157.4	10000	41.5463	92.0652	-217	QAL	1.8	-1	6.6	2	1.2	0	0.267	-1	1.517	-1	5.691	-1	1751	48	1.4
51157.5	10000	41.5463	92.0644	-220	QAL	1.9	-1	6.7	2	1.2	0	0.283	-1	1.611	-1	5.701	-1	1749	47	1.4
51157.6	10000	41.5463	92.0636	-225	QAL	1.8	-1	6.5	2	1.2	0	0.285	-1	1.566	-1	5.497	-1	1757	40	1.4
51157.7	10000	41.5463	92.0628	-229	QAL	1.9	-1	6.4	2	1.2	0	0.293	-1	1.660	-1	5.672	-1	1761	42	1.4
51157.8	10000	41.5463	92.0619	-232	QAL	1.9	-1	6.3	0	1.1	0	0.295	-1	1.622	-1	5.506	-1	1781	51	1.4

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51157.9	10000	41.5463	92.0611	-236	QAL	2.0	-1	6.5	0	1.2	1	0.317	-1	1.741	-1	5.497	-1	1812	45	1.4
51158.0	10000	41.5463	92.0603	-241	QAL	2.1	-1	6.6	0	1.2	1	0.319	-1	1.764	-1	5.521	-1	1818	48	1.4
51158.1	10000	41.5463	92.0594	-244	QAL	2.3	0	6.6	0	1.2	1	0.343	0	1.874	-1	5.456	-1	1845	33	1.4
51158.2	10000	41.5463	92.0586	-249	QAL	2.3	0	6.9	0	1.2	1	0.337	0	1.894	-1	5.616	-1	1843	40	1.4
51158.3	10000	41.5463	92.0578	-254	QAL	2.4	0	7.2	1	1.2	1	0.335	-1	1.964	-1	5.869	0	1827	44	1.4
51158.4	10000	41.5463	92.0570	-258	QAL	2.3	0	7.7	1	1.2	1	0.296	-1	1.831	-1	6.176	0	1820	38	1.4
51158.5	10000	41.5463	92.0561	-262	QK	2.3	0	7.8	1	1.2	1	0.296	-1	1.915	-1	6.470	0	1784	49	1.4
51158.6	10000	41.5463	92.0553	-267	QK	2.3	0	7.9	1	1.2	0	0.295	-1	2.011	-1	6.822	0	1773	28	1.4
51158.7	10000	41.5463	92.0545	-272	QK	2.5	0	7.6	0	1.2	0	0.323	0	2.129	0	6.583	0	1773	39	1.4
51158.8	10000	41.5463	92.0537	-276	QK	2.4	0	7.3	0	1.1	0	0.325	0	2.118	0	6.509	0	1754	37	1.4
51158.9	10000	41.5464	92.0528	-281	QK	2.4	0	6.8	-1	1.1	0	0.360	0	2.141	0	5.942	-1	1769	45	1.4
51159.0	10000	41.5464	92.0520	-285	QK	2.5	0	6.9	0	1.1	0	0.368	0	2.312	0	6.274	0	1765	43	1.4
51159.1	10000	41.5464	92.0512	-290	QK	2.4	0	6.3	-1	1.1	0	0.378	0	2.145	0	5.678	-1	1760	44	1.4
51159.2	10000	41.5464	92.0503	-296	QK	2.3	0	6.4	-1	1.1	0	0.366	0	2.072	0	5.665	-1	1772	50	1.4
51159.3	10000	41.5464	92.0495	-302	QK	2.4	0	6.2	-1	1.1	0	0.383	0	2.067	0	5.403	-2	1762	46	1.4
51159.4	10000	41.5464	92.0487	-306	QK	2.1	-1	6.2	-1	1.1	0	0.341	0	1.875	-1	5.495	-1	1749	44	1.4
51159.5	10000	41.5464	92.0479	-311	QK	2.3	0	6.5	-1	1.1	0	0.350	0	2.050	0	5.863	-1	1751	43	1.4
51159.6	10000	41.5464	92.0470	-316	QK	2.1	-1	6.6	-1	1.1	0	0.324	0	1.990	-1	6.137	0	1728	38	1.4
51159.7	10000	41.5464	92.0462	-321	QK	2.0	-1	6.7	-1	1.1	0	0.296	-1	1.826	-1	6.171	0	1727	47	1.4
51159.8	10000	41.5464	92.0454	-326	QK	2.0	-1	7.0	0	1.0	-1	0.289	-1	1.971	-1	6.824	0	1727	33	1.4
51159.9	10000	41.5464	92.0446	-330	QK	2.1	-1	7.3	0	1.0	-1	0.281	-1	2.037	0	7.250	1	1726	46	1.4
51160.0	10000	41.5464	92.0437	-335	QK	2.2	-1	7.3	0	1.0	-1	0.296	-1	2.177	0	7.347	1	1725	42	1.4
51160.1	10000	41.5464	92.0429	-339	QK	2.1	-1	7.2	0	1.0	-1	0.290	-1	2.141	0	7.389	1	1700	43	1.4
51160.2	10000	41.5464	92.0421	-342	QK	2.0	-1	7.1	0	1.0	-1	0.274	-1	2.058	0	7.511	1	1678	43	1.4
51160.3	10000	41.5464	92.0412	-347	QK	2.2	-1	7.2	0	1.0	-1	0.300	-1	2.237	0	7.451	1	1678	37	1.4
51160.4	10000	41.5464	92.0404	-351	QK	2.2	-1	7.0	0	1.0	-1	0.318	0	2.321	0	7.308	1	1678	28	1.4
51160.5	10000	41.5464	92.0396	-355	QK	2.2	-1	6.8	-1	1.0	-1	0.331	0	2.233	0	6.736	0	1654	51	1.4
51160.6	10000	41.5464	92.0388	-359	QK	1.9	-1	6.2	-1	1.0	-1	0.306	-1	1.925	-1	6.300	0	1623	36	1.4
51160.7	10000	41.5464	92.0379	-362	QK	1.8	-1	6.2	-1	1.0	-1	0.291	-1	1.842	-1	6.326	0	1591	53	1.4
51160.8	10000	41.5464	92.0371	-365	QK	1.9	-1	6.3	-1	0.9	-1	0.295	-1	1.966	-1	6.672	0	1564	54	1.4
51160.9	10000	41.5464	92.0363	-369	QK	1.9	-1	6.1	-2	0.9	-2	0.306	-1	2.003	-1	6.551	0	1539	43	1.4
51161.0	10000	41.5464	92.0354	-372	QK	1.7	-2	6.2	-1	0.9	-2	0.277	-1	1.876	-1	6.765	0	1517	45	1.4
51161.1	10000	41.5464	92.0346	-375	QK	1.6	-2	6.3	-1	0.9	-2	0.256	-1	1.741	-1	6.810	0	1520	38	1.4
51161.2	10000	41.5464	92.0338	-377	QK	1.6	-2	6.2	-1	0.9	-2	0.262	-1	1.830	-1	6.992	1	1547	34	1.4
51161.3	10000	41.5464	92.0330	-380	QK	1.9	-1	6.5	-1	0.9	-2	0.290	-1	2.121	0	7.324	1	1574	60	1.4
51161.4	10000	41.5464	92.0321	-382	QK	2.1	-1	6.5	-1	0.9	-2	0.329	0	2.300	0	6.994	1	1606	36	1.4
51161.5	10000	41.5464	92.0313	-384	QK	2.2	-1	6.4	-1	1.0	-1	0.341	0	2.217	0	6.493	1	1649	45	1.4
51161.6	10000	41.5465	92.0305	-387	QK	2.3	-1	6.8	-1	1.0	-1	0.331	0	2.156	0	6.508	0	1685	32	1.4
51161.7	10000	41.5465	92.0296	-389	QK	2.1	-1	6.4	-1	1.0	-1	0.327	0	1.996	-1	6.101	-1	1705	42	1.4
51161.8	10000	41.5465	92.0288	-391	QK	2.4	0	6.2	-1	1.0	-1	0.382	0	2.275	0	5.959	-1	1700	50	1.4
51161.9	10000	41.5465	92.0280	-393	QK	2.4	0	6.3	-1	1.1	-1	0.380	0	2.263	0	5.960	-1	1690	41	1.4
51162.0	10000	41.5465	92.0272	-395	QK	2.3	0	6.5	-1	1.1	0	0.352	0	2.118	0	6.026	-1	1693	40	1.4
51162.1	10000	41.5465	92.0264	-397	QK	1.7	-2	6.6	-1	1.1	0	0.266	-1	1.601	-1	6.010	-1	1692	45	1.4
51162.2	10000	41.5465	92.0255	-398	QK	1.7	-2	6.9	0	1.1	0	0.243	-2	1.523	-2	6.278	0	1701	42	1.4
51162.3	10000	41.5465	92.0247	-400	QK	1.5	-2	6.9	0	1.1	0	0.223	-2	1.385	-2	6.202	0	1708	43	1.4
51162.4	10000	41.5465	92.0239	-402	QK	1.7	-2	7.1	0	1.2	1	0.237	-2	1.459	-2	6.145	0	1732	38	1.4
51162.5	10000	41.5465	92.0231	-403	QK	1.5	-2	7.2	0	1.2	1	0.207	-2	1.256	-2	6.063	-1	1758	26	1.4
51162.6	10000	41.5465	92.0222	-405	QK	1.5	-2	7.5	0	1.2	1	0.194	-2	1.194	-2	6.152	0	1781	42	1.4
51162.7	10000	41.5465	92.0214	-406	QK	1.7	-2	7.4	0	1.2	1	0.226	-2	1.380	-2	6.118	-1	1788	43	1.4
51162.8	10000	41.5465	92.0206	-408	QK	2.1	-1	7.5	0	1.2	1	0.282	-1	1.759	-1	6.248	0	1795	47	1.4
51162.9	10000	41.5466	92.0198	-409	QK	2.0	-1	7.2	0	1.2	1	0.276	-1	1.700	-1	6.159	0	1797	54	1.4
51163.0	10000	41.5466	92.0189	-410	QK	2.3	-1	7.4	0	1.2	1	0.304	-1	1.881	-1	6.193	0	1809	42	1.4

LINE 300 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51163.1	10000	41.5466	92.0181	-411	QK	2.3	0	7.2	0	1.2	0	0.318	0	1.988	-1	6.253	0	1793	41	1.4
51163.2	10000	41.5466	92.0173	-411	QK	2.3	-1	6.9	0	1.1	0	0.329	0	1.976	-1	6.011	-1	1776	41	1.4
51163.3	10000	41.5466	92.0165	-411	QK	2.3	0	6.7	-1	1.1	0	0.343	0	2.001	-1	5.827	-1	1764	37	1.4
51163.4	10000	41.5466	92.0156	-410	QK	2.3	-1	6.4	-1	1.1	0	0.356	0	2.030	0	5.696	-1	1757	39	1.4
51163.5	10000	41.5466	92.0148	-411	QK	2.2	-1	6.4	-1	1.1	0	0.341	0	1.967	-1	5.778	-1	1755	40	1.4
51163.6	10000	41.5466	92.0140	-413	QK	2.3	0	6.3	-1	1.1	0	0.371	0	2.136	0	5.756	-1	1753	34	1.4
51163.7	10000	41.5466	92.0132	-414	QK	2.3	-1	6.2	-1	1.1	0	0.368	0	2.054	0	5.585	-1	1744	35	1.4
51163.8	10000	41.5466	92.0123	-414	QK	2.3	0	6.3	-1	1.2	0	0.371	0	2.020	-1	5.440	-1	1753	37	1.4
51163.9	10000	41.5466	92.0115	-414	QK	2.5	0	6.3	-1	1.1	0	0.396	1	2.222	0	5.612	-1	1747	51	1.4
51164.0	10000	41.5466	92.0107	-413	QK	2.7	0	6.5	-1	1.1	0	0.413	1	2.329	0	5.645	-1	1742	45	1.4
51164.1	10000	41.5467	92.0099	-413	QK	2.4	0	6.6	-1	1.2	1	0.362	0	1.976	-1	5.462	-1	1737	46	1.3
51164.2	10000	41.5467	92.0090	-412	QK	2.3	-1	6.7	-1	1.3	1	0.340	0	1.780	-1	5.237	-2	1743	46	1.3
51164.3	10000	41.5467	92.0082	-410	QK	2.2	-1	6.4	-1	1.3	1	0.348	0	1.726	-1	4.962	-2	1726	45	1.3
51164.4	10000	41.5467	92.0074	-410	QK	2.2	-1	6.3	-1	1.2	1	0.350	0	1.781	-1	5.089	-2	1721	42	1.3
51164.5	10000	41.5467	92.0066	-409	QK	2.2	-1	6.6	-1	1.2	1	0.329	0	1.790	-1	5.437	-1	1715	51	1.3
51164.6	10000	41.5467	92.0057	-407	QK	2.1	-1	6.8	-1	1.2	1	0.304	-1	1.652	-1	5.430	-1	1733	42	1.3
51164.7	10000	41.5467	92.0049	-406	QK	2.1	-1	6.7	-1	1.3	1	0.308	-1	1.648	-1	5.347	-2	1744	28	1.3
51164.8	10000	41.5467	92.0041	-405	QK	2.1	-1	6.9	0	1.2	1	0.301	-1	1.699	-1	5.639	-1	1766	45	1.3
51164.9	10000	41.5467	92.0033	-403	QK	2.3	0	7.1	0	1.2	1	0.325	0	1.919	-1	5.912	-1	1783	45	1.3
51165.0	10000	41.5467	92.0024	-401	QK	2.4	0	7.5	0	1.2	1	0.328	0	2.015	-1	6.136	0	1819	55	1.3
51165.1	10000	41.5467	92.0016	-399	QK	2.5	0	7.5	0	1.3	1	0.336	0	2.016	-1	6.010	-1	1840	57	1.3
51165.2	10000	41.5468	92.0008	-397	QK	2.7	0	7.5	0	1.3	1	0.356	0	2.089	0	5.861	-1	1862	41	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47947.2	10000	41.4592	93.9988	-1211	QKA	2.3	0	7.2	0	1.3	1	0.323	0	1.807	-1	5.598	-1	1887	35	1.5
47947.1	10000	41.4592	93.9980	-1210	QKA	2.2	0	7.1	0	1.3	1	0.305	0	1.719	-1	5.632	-1	1888	49	1.5
47947.0	10000	41.4591	93.9973	-1208	QKA	2.0	-1	7.3	0	1.3	1	0.280	-1	1.612	-1	5.755	-1	1884	46	1.5
47946.9	10000	41.4591	93.9965	-1209	QKA	2.0	-1	7.5	0	1.2	1	0.273	-1	1.634	-1	5.986	-1	1888	50	1.5
47946.8	10000	41.4591	93.9957	-1211	QKA	2.0	-1	6.8	0	1.2	1	0.298	-1	1.649	-1	5.532	-1	1880	37	1.5
47946.7	10000	41.4591	93.9949	-1212	QKA	2.2	0	6.4	-1	1.2	1	0.343	0	1.842	-1	5.362	-2	1877	42	1.5
47946.6	10000	41.4591	93.9941	-1211	QKA	2.2	0	6.8	0	1.2	1	0.330	0	1.932	-1	5.856	-1	1892	41	1.5
47946.5	10000	41.4591	93.9933	-1210	QKA	2.1	-1	6.8	-1	1.2	1	0.310	0	1.822	-1	5.870	-1	1907	45	1.5
47946.4	10000	41.4591	93.9925	-1211	QKA	2.3	0	7.0	0	1.2	1	0.323	0	1.922	-1	5.958	-1	1911	34	1.5
47946.3	10000	41.4591	93.9917	-1212	QKA	2.1	-1	7.1	0	1.1	0	0.302	-1	1.899	-1	6.293	0	1911	53	1.5
47946.2	10000	41.4591	93.9910	-1211	QKA	2.1	-1	6.8	0	1.1	0	0.301	-1	1.841	-1	6.116	-1	1898	38	1.5
47946.1	10000	41.4591	93.9902	-1211	QKA	1.7	-1	7.3	0	1.1	0	0.233	-2	1.596	-1	6.842	0	1877	34	1.5
47946.0	10000	41.4591	93.9894	-1210	QKA	1.6	-2	7.4	0	1.1	0	0.218	-2	1.500	-2	6.880	0	1861	41	1.5
47945.9	10000	41.4591	93.9886	-1210	QKA	1.3	-2	7.3	0	1.1	0	0.182	-2	1.237	-2	6.785	0	1842	43	1.5
47945.8	10000	41.4591	93.9878	-1209	QKA	1.1	-3	7.6	1	1.1	0	0.146	-3	1.009	-2	6.910	0	1822	43	1.5
47945.7	10000	41.4591	93.9870	-1209	QKA	1.1	-3	7.2	0	1.1	0	0.157	-3	1.069	-2	6.827	0	1801	44	1.5
47945.6	10000	41.4591	93.9862	-1210	QKA	1.3	-2	6.8	0	1.1	0	0.191	-2	1.190	-2	6.228	-1	1800	51	1.5
47945.5	10000	41.4591	93.9854	-1211	QKA	1.7	-2	7.0	0	1.1	0	0.238	-1	1.496	-2	6.287	-1	1804	33	1.5
47945.4	10000	41.4591	93.9846	-1210	QKA	1.8	-1	6.8	0	1.1	0	0.259	-1	1.556	-1	6.011	-1	1830	48	1.5
47945.3	10000	41.4591	93.9839	-1210	QKA	1.8	-1	7.1	0	1.1	0	0.249	-1	1.553	-1	6.225	-1	1844	46	1.5
47945.2	10000	41.4591	93.9831	-1210	QKA	1.9	-1	7.2	0	1.2	1	0.268	-1	1.631	-1	6.092	-1	1846	45	1.5
47945.1	10000	41.4591	93.9823	-1210	QKA	1.9	-1	7.3	0	1.2	1	0.266	-1	1.646	-1	6.178	-1	1854	39	1.5
47945.0	10000	41.4591	93.9815	-1209	QKA	1.8	-1	7.1	0	1.2	1	0.256	-1	1.537	-1	5.995	-1	1860	42	1.5
47944.9	10000	41.4591	93.9807	-1208	QKA	1.9	-1	7.1	0	1.2	1	0.271	-1	1.597	-1	5.885	-1	1861	44	1.5
47944.8	10000	41.4591	93.9799	-1208	QKA	1.5	-2	7.0	0	1.2	1	0.220	-2	1.264	-2	5.734	-1	1841	34	1.5
47944.7	10000	41.4591	93.9791	-1208	QKA	1.6	-2	6.9	0	1.2	1	0.230	-2	1.358	-2	5.892	-1	1816	42	1.5
47944.6	10000	41.4591	93.9783	-1208	QKA	1.7	-2	6.7	-1	1.1	1	0.246	-1	1.462	-2	5.945	-1	1797	54	1.4
47944.5	10000	41.4591	93.9775	-1208	QKA	1.6	-2	6.8	0	1.1	0	0.228	-2	1.463	-2	6.421	0	1800	49	1.4
47944.4	10000	41.4591	93.9768	-1208	QKA	1.6	-2	7.0	0	1.1	0	0.233	-2	1.528	-1	6.558	0	1788	28	1.4
47944.3	10000	41.4591	93.9760	-1208	QKA	1.6	-2	6.9	0	1.0	0	0.233	-2	1.562	-1	6.704	0	1782	42	1.4
47944.2	10000	41.4591	93.9752	-1207	QKA	1.5	-2	7.1	0	1.0	-1	0.207	-2	1.488	-2	7.196	1	1764	36	1.4
47944.1	10000	41.4591	93.9744	-1207	QKA	1.4	-2	7.1	0	0.9	-1	0.190	-2	1.437	-2	7.552	1	1755	57	1.4
47944.0	10000	41.4591	93.9736	-1207	QKA	1.5	-2	7.0	0	0.9	-1	0.212	-2	1.608	-1	7.595	1	1751	43	1.4
47943.9	10000	41.4590	93.9728	-1207	QKA	1.6	-2	7.1	0	1.0	-1	0.220	-2	1.645	-1	7.493	1	1744	43	1.4
47943.8	10000	41.4590	93.9720	-1206	QKA	1.5	-2	7.1	0	1.0	-1	0.215	-2	1.566	-1	7.268	1	1732	51	1.4
47943.7	10000	41.4590	93.9712	-1206	QKA	1.7	-2	7.2	0	1.0	-1	0.233	-2	1.719	-1	7.381	1	1744	31	1.4
47943.6	10000	41.4590	93.9704	-1205	QKA	1.8	-1	7.8	1	1.0	-1	0.231	-2	1.810	-1	7.830	1	1749	45	1.4
47943.5	10000	41.4590	93.9697	-1204	QKA	1.8	-1	7.7	1	1.0	-1	0.229	-2	1.756	-1	7.680	1	1766	49	1.4
47943.4	10000	41.4590	93.9689	-1202	QKA	2.0	-1	7.6	1	1.1	0	0.267	-1	1.917	-1	7.193	1	1799	41	1.4
47943.3	10000	41.4590	93.9681	-1200	QKA	2.0	-1	7.5	0	1.1	0	0.265	-1	1.815	-1	6.852	0	1815	37	1.4
47943.2	10000	41.4590	93.9673	-1199	QKA	1.8	-1	7.7	1	1.1	0	0.235	-1	1.624	-1	6.909	0	1844	49	1.4
47943.1	10000	41.4590	93.9665	-1199	QKA	2.0	-1	7.2	0	1.2	1	0.277	-1	1.708	-1	6.172	-1	1861	40	1.4
47943.0	10000	41.4590	93.9657	-1199	QKA	2.0	-1	7.0	0	1.2	1	0.280	-1	1.602	-1	5.729	-1	1870	51	1.4
47942.9	10000	41.4590	93.9649	-1199	QKA	1.8	-1	6.9	0	1.2	1	0.267	-1	1.502	-1	5.632	-1	1881	40	1.4
47942.8	10000	41.4590	93.9641	-1200	QKA	1.9	-1	6.8	0	1.3	1	0.273	-1	1.484	-2	5.439	-2	1888	37	1.4
47942.7	10000	41.4590	93.9633	-1200	QKA	1.7	-1	6.9	0	1.2	1	0.250	-1	1.395	-2	5.588	-1	1896	34	1.4
47942.6	10000	41.4590	93.9626	-1198	QKA	1.7	-1	7.1	0	1.2	1	0.239	-1	1.357	-2	5.673	-1	1910	44	1.3
47942.5	10000	41.4590	93.9618	-1196	QKA	1.8	-1	7.2	0	1.3	1	0.254	-1	1.447	-2	5.693	-1	1914	28	1.3
47942.4	10000	41.4590	93.9610	-1196	QKA	1.8	-1	7.7	1	1.2	1	0.235	-1	1.486	-2	6.326	0	1929	47	1.3
47942.3	10000	41.4590	93.9602	-1197	QKA	1.7	-1	8.1	1	1.2	1	0.214	-2	1.453	-2	6.779	0	1935	50	1.3
47942.2	10000	41.4590	93.9594	-1198	QKA	1.7	-1	8.1	1	1.2	1	0.209	-2	1.385	-2	6.639	0	1950	39	1.3
47942.1	10000	41.4590	93.9586	-1198	QKA	1.8	-1	8.3	2	1.2	1	0.218	-2	1.499	-2	6.866	0	1956	45	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47942.0	10000	41.4590	93.9578	-1197	QKA	1.8	-1	8.7	2	1.2	1	0.211	-2	1.497	-2	7.100	1	1958	39	1.3
47941.9	10000	41.4590	93.9570	-1197	QKA	2.1	-1	9.0	2	1.2	1	0.231	-2	1.713	-1	7.429	1	1972	41	1.3
47941.8	10000	41.4590	93.9563	-1196	QKA	1.9	-1	9.0	2	1.2	1	0.216	-2	1.635	-1	7.578	1	1981	44	1.3
47941.7	10000	41.4590	93.9555	-1195	QKA	1.9	-1	8.8	2	1.2	1	0.211	-2	1.587	-1	7.526	1	1972	38	1.3
47941.6	10000	41.4590	93.9547	-1194	QKA	1.8	-1	9.0	2	1.2	1	0.205	-2	1.584	-1	7.743	1	1971	37	1.3
47941.5	10000	41.4590	93.9539	-1193	QKA	2.0	-1	8.9	2	1.2	1	0.223	-2	1.719	-1	7.710	1	1976	40	1.3
47941.4	10000	41.4590	93.9531	-1193	QKA	2.0	-1	8.7	2	1.2	1	0.225	-2	1.705	-1	7.594	1	1976	48	1.3
47941.3	10000	41.4590	93.9523	-1192	QKA	2.4	0	8.6	2	1.1	0	0.277	-1	2.096	0	7.577	1	1978	43	1.3
47941.2	10000	41.4590	93.9515	-1191	QKA	2.3	0	8.2	1	1.1	0	0.275	-1	2.024	0	7.351	1	1963	44	1.3
47941.1	10000	41.4590	93.9507	-1190	QKA	2.6	0	8.1	1	1.1	0	0.321	0	2.394	0	7.460	1	1958	48	1.3
47941.0	10000	41.4590	93.9499	-1190	QKA	2.5	0	7.9	1	1.1	0	0.323	0	2.367	0	7.331	1	1963	52	1.3
47940.9	10000	41.4590	93.9491	-1190	QKA	2.6	0	7.5	1	1.1	0	0.345	0	2.388	0	6.922	0	1954	48	1.3
47940.8	10000	41.4590	93.9482	-1189	QKA	2.5	0	7.8	1	1.1	0	0.316	0	2.304	0	7.291	1	1915	40	1.2
47940.7	10000	41.4590	93.9474	-1188	QKA	2.5	0	7.6	1	1.0	0	0.331	0	2.402	0	7.259	1	1902	44	1.2
47940.6	10000	41.4590	93.9466	-1188	QKA	2.3	0	7.4	0	1.0	0	0.307	0	2.181	0	7.107	1	1889	44	1.2
47940.5	10000	41.4590	93.9458	-1187	QKA	2.2	0	7.5	0	1.1	0	0.289	-1	2.041	0	7.065	0	1899	47	1.2
47940.4	10000	41.4590	93.9450	-1186	QKA	1.9	-1	7.6	1	1.1	0	0.245	-1	1.664	-1	6.782	0	1887	49	1.2
47940.3	10000	41.4590	93.9442	-1185	QKA	1.7	-1	7.2	0	1.2	1	0.242	-1	1.498	-2	6.186	-1	1882	44	1.2
47940.2	10000	41.4590	93.9433	-1185	QKA	1.8	-1	7.0	0	1.2	1	0.265	-1	1.533	-1	5.794	-1	1877	43	1.2
47940.1	10000	41.4590	93.9425	-1184	QKA	1.9	-1	6.7	-1	1.2	1	0.278	-1	1.552	-1	5.579	-1	1895	45	1.2
47940.0	10000	41.4590	93.9417	-1184	QKA	1.8	-1	7.2	0	1.2	1	0.254	-1	1.555	-1	6.109	-1	1894	39	1.2
47939.9	10000	41.4591	93.9409	-1183	QKA	1.8	-1	7.2	0	1.2	1	0.251	-1	1.551	-1	6.182	-1	1885	41	1.2
47939.8	10000	41.4591	93.9401	-1182	QKA	1.8	-1	7.1	0	1.1	0	0.261	-1	1.624	-1	6.224	-1	1851	29	1.2
47939.7	10000	41.4591	93.9393	-1181	QKA	2.1	-1	6.6	-1	1.1	0	0.314	0	1.862	-1	5.927	-1	1847	56	1.2
47939.6	10000	41.4591	93.9384	-1182	QKA	2.4	0	6.8	0	1.0	0	0.350	0	2.292	0	6.555	1	1830	57	1.2
47939.5	10000	41.4591	93.9376	-1181	QKA	2.4	0	6.6	-1	0.9	-1	0.365	1	2.556	1	6.994	0	1811	38	1.2
47939.4	10000	41.4591	93.9368	-1180	QKA	2.5	0	6.7	-1	0.9	-1	0.380	1	2.700	1	7.107	1	1800	53	1.2
47939.3	10000	41.4591	93.9360	-1180	QKA	2.5	0	6.3	-1	0.9	-1	0.390	1	2.609	1	6.686	0	1782	36	1.2
47939.2	10000	41.4591	93.9352	-1179	QKA	2.3	0	6.1	-1	1.0	-1	0.384	0	2.417	0	6.300	0	1764	51	1.2
47939.1	10000	41.4591	93.9344	-1178	QKA	2.4	0	6.1	-1	1.0	0	0.389	0	2.319	0	5.962	-1	1767	48	1.2
47939.0	10000	41.4591	93.9336	-1177	QKA	2.0	-1	6.5	-1	1.0	0	0.312	-1	1.985	-1	6.366	0	1752	38	1.2
47938.9	10000	41.4591	93.9327	-1176	QKA	1.9	-1	6.5	-1	1.1	0	0.290	-1	1.783	-1	6.153	-1	1742	49	1.2
47938.8	10000	41.4591	93.9319	-1175	QKA	1.9	-1	6.5	-1	1.1	0	0.294	-1	1.771	-1	6.015	-1	1758	36	1.2
47938.7	10000	41.4591	93.9311	-1174	QKA	1.8	-1	6.1	-1	1.1	0	0.299	-1	1.612	-1	5.401	-2	1759	30	1.2
47938.6	10000	41.4591	93.9303	-1173	QKA	1.9	-1	6.0	-1	1.1	0	0.308	-1	1.658	-1	5.380	-2	1765	47	1.2
47938.5	10000	41.4591	93.9295	-1172	QKA	2.0	-1	6.1	-1	1.1	0	0.329	-1	1.811	-1	5.500	-1	1768	47	1.2
47938.4	10000	41.4591	93.9287	-1171	QKA	2.0	-1	6.2	-1	1.1	0	0.328	-1	1.819	-1	5.539	-1	1763	58	1.2
47938.3	10000	41.4591	93.9278	-1170	QKA	2.2	-1	6.1	-1	1.1	0	0.358	-1	1.966	-1	5.494	-1	1763	48	1.2
47938.2	10000	41.4592	93.9270	-1170	QKA	2.1	-1	6.4	-1	1.1	0	0.322	-1	1.821	-1	5.653	-1	1794	35	1.2
47938.1	10000	41.4592	93.9262	-1168	QKA	2.0	-1	6.9	0	1.2	1	0.293	-1	1.711	-1	5.836	-1	1800	49	1.2
47938.0	10000	41.4592	93.9254	-1167	QKA	1.9	-1	6.9	0	1.2	1	0.282	-1	1.616	-1	5.740	-1	1823	46	1.2
47937.9	10000	41.4592	93.9246	-1166	QKA	2.3	0	7.0	0	1.3	1	0.333	-1	1.850	-1	5.554	-1	1845	56	1.2
47937.8	10000	41.4592	93.9238	-1165	QKA	2.4	0	6.9	0	1.3	1	0.347	-1	1.813	-1	5.227	-2	1870	44	1.2
47937.7	10000	41.4592	93.9230	-1164	QKA	2.4	0	6.9	0	1.3	1	0.345	-1	1.813	-1	5.259	-2	1882	41	1.2
47937.6	10000	41.4592	93.9221	-1163	QKA	2.3	0	7.2	0	1.3	1	0.325	-1	1.755	-1	5.394	-2	1921	47	1.2
47937.5	10000	41.4592	93.9213	-1162	QKA	2.3	0	7.2	0	1.4	1	0.325	-1	1.729	-1	5.328	-2	1922	48	1.2
47937.4	10000	41.4592	93.9205	-1160	QKA	2.1	-1	7.5	0	1.4	1	0.293	-1	1.549	-1	5.280	-2	1932	45	1.2
47937.3	10000	41.4592	93.9197	-1160	QKA	2.2	-1	7.5	0	1.4	1	0.296	-1	1.639	-1	5.537	-1	1928	47	1.2
47937.2	10000	41.4592	93.9189	-1159	QKA	1.8	-2	8.3	2	1.3	1	0.229	-2	1.349	-2	5.903	-1	1926	37	1.2
47937.1	10000	41.4592	93.9181	-1157	QKA	1.5	-2	8.8	2	1.3	1	0.182	-2	1.197	-2	6.574	0	1917	39	1.2
47937.0	10000	41.4592	93.9172	-1156	QKA	1.5	-2	8.8	2	1.3	1	0.180	-2	1.225	-2	6.815	0	1917	50	1.2
47936.9	10000	41.4592	93.9164	-1155	QKA	1.6	-2	8.3	2	1.2	1	0.195	-2	1.338	-2	6.856	0	1880	36	1.2

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47936.8	10000	41.4592	93.9156	-1155	QKA	1.8	-1	7.8	1	1.2	1	0.233	-2	1.564	-1	6.713	0	1872	42	1.2
47936.7	10000	41.4592	93.9148	-1154	QKA	1.9	-1	7.5	1	1.1	0	0.259	-1	1.734	-1	6.703	0	1836	41	1.2
47936.6	10000	41.4593	93.9140	-1153	QKA	2.0	-1	7.2	0	1.1	0	0.271	-1	1.803	-1	6.647	0	1782	28	1.2
47936.5	10000	41.4593	93.9132	-1152	QKA	1.9	-1	6.7	-1	1.0	0	0.290	-1	1.884	-1	6.492	0	1700	42	1.2
47936.4	10000	41.4593	93.9124	-1152	QKA	1.9	-1	6.2	-1	1.0	-1	0.297	-1	1.933	-1	6.511	0	1612	38	1.2
47936.3	10000	41.4593	93.9115	-1152	QKA	1.8	-1	5.7	-2	0.9	-2	0.324	0	2.125	0	6.551	0	1524	38	1.3
47936.2	10000	41.4593	93.9107	-1151	QKA	1.7	-1	5.5	-2	0.9	-2	0.311	0	2.024	0	6.500	0	1487	49	1.3
47936.1	10000	41.4593	93.9099	-1150	QKA	1.6	-2	5.5	-2	0.8	-2	0.299	-1	2.070	0	6.932	0	1460	48	1.3
47936.0	10000	41.4593	93.9091	-1149	QKA	1.4	-2	5.8	-2	0.8	-2	0.246	-1	1.788	-1	7.278	1	1464	51	1.3
47935.9	10000	41.4593	93.9083	-1147	QKA	1.4	-2	6.5	-1	0.8	-2	0.220	-2	1.800	-1	8.199	2	1501	47	1.3
47935.8	10000	41.4593	93.9075	-1146	QKA	1.8	-1	6.5	-1	0.9	-2	0.274	-1	2.067	0	7.547	1	1581	38	1.3
47935.7	10000	41.4593	93.9066	-1144	QKA	1.9	-1	6.5	-1	0.9	-1	0.297	-1	2.091	0	7.028	0	1666	49	1.3
47935.6	10000	41.4593	93.9058	-1143	QKA	1.9	-1	6.8	0	1.0	0	0.278	-1	1.867	-1	6.716	0	1762	40	1.3
47935.5	10000	41.4593	93.9050	-1142	QKA	2.0	-1	7.1	0	1.1	0	0.281	-1	1.895	-1	6.751	0	1817	38	1.3
47935.4	10000	41.4593	93.9042	-1141	QKA	2.0	-1	7.5	0	1.1	0	0.272	-1	1.894	-1	6.954	0	1838	36	1.3
47935.3	10000	41.4593	93.9034	-1141	QKA	2.3	0	7.0	0	1.1	0	0.333	0	2.202	0	6.609	0	1854	38	1.3
47935.2	10000	41.4593	93.9026	-1140	QKA	2.4	0	6.8	0	1.1	0	0.355	0	2.221	0	6.263	-1	1879	45	1.3
47935.1	10000	41.4593	93.9017	-1139	QKA	2.3	0	7.1	0	1.1	0	0.327	0	2.134	0	6.522	0	1890	46	1.3
47935.0	10000	41.4593	93.9009	-1138	QKA	2.5	0	7.5	0	1.1	0	0.330	0	2.220	0	6.732	0	1914	39	1.3
47934.9	10000	41.4593	93.9001	-1137	QKA	2.4	0	7.4	0	1.1	0	0.317	0	2.071	0	6.523	0	1921	52	1.3
47934.8	10000	41.4594	93.8993	-1136	QKA	2.3	0	7.4	0	1.2	1	0.307	0	1.900	-1	6.187	-1	1944	47	1.3
47934.7	10000	41.4594	93.8985	-1135	QKA	2.4	0	7.5	0	1.2	1	0.321	0	1.949	-1	6.067	-1	1990	29	1.3
47934.6	10000	41.4594	93.8977	-1134	QKA	2.6	0	7.8	1	1.3	1	0.329	0	2.032	0	6.170	-1	2028	45	1.4
47934.5	10000	41.4594	93.8969	-1134	QKA	3.0	1	7.3	0	1.3	1	0.410	1	2.387	0	5.819	-1	2060	36	1.4
47934.4	10000	41.4594	93.8960	-1133	QKA	3.2	2	7.3	0	1.3	1	0.437	1	2.500	0	5.721	-1	2080	46	1.4
47934.3	10000	41.4594	93.8952	-1132	QKA	3.3	2	7.0	0	1.3	1	0.479	2	2.663	1	5.569	-1	2094	47	1.4
47934.2	10000	41.4594	93.8944	-1130	QKA	3.4	2	7.1	0	1.2	1	0.479	2	2.781	1	5.799	-1	2085	48	1.4
47934.1	10000	41.4594	93.8936	-1128	QKA	3.6	2	6.9	0	1.2	1	0.523	3	2.916	1	5.577	-1	2080	40	1.4
47934.0	10000	41.4594	93.8928	-1130	QKA	3.3	2	6.9	0	1.2	1	0.487	2	2.767	1	5.687	-1	2063	43	1.4
47933.9	10000	41.4594	93.8920	-1131	QKA	3.4	2	6.6	-1	1.2	1	0.518	3	2.893	1	5.586	-1	2056	46	1.4
47933.8	10000	41.4594	93.8911	-1131	QKA	2.9	1	7.3	0	1.2	1	0.399	1	2.470	1	6.198	-1	2034	39	1.4
47933.7	10000	41.4594	93.8903	-1131	QKA	2.8	1	7.3	0	1.2	1	0.384	1	2.396	1	6.247	-1	2021	61	1.4
47933.6	10000	41.4594	93.8895	-1131	QKA	2.4	0	7.1	0	1.2	1	0.342	1	2.102	0	6.142	-1	1991	40	1.4
47933.5	10000	41.4594	93.8887	-1130	QKA	2.5	0	7.0	0	1.2	1	0.355	1	2.093	0	5.892	-1	2007	37	1.4
47933.4	10000	41.4594	93.8879	-1129	QKA	2.9	1	7.3	0	1.1	1	0.389	1	2.533	1	6.514	0	2010	45	1.4
47933.3	10000	41.4594	93.8871	-1129	QKA	3.2	2	7.2	0	1.1	1	0.447	2	2.897	1	6.477	0	2012	43	1.4
47933.2	10000	41.4594	93.8862	-1129	QKA	3.1	2	7.5	0	1.1	1	0.418	1	2.937	1	7.021	0	2011	43	1.4
47933.1	10000	41.4594	93.8854	-1129	QKA	3.6	3	7.3	0	1.1	1	0.492	2	3.321	2	6.744	0	2022	41	1.4
47933.0	10000	41.4595	93.8846	-1129	QKA	3.9	3	7.1	0	1.1	1	0.543	3	3.608	3	6.650	0	2026	38	1.4
47932.9	10000	41.4595	93.8838	-1129	QKA	4.0	3	7.3	0	1.1	1	0.542	3	3.700	3	6.831	0	2049	50	1.4
47932.8	10000	41.4595	93.8830	-1129	QKA	4.2	4	7.4	0	1.0	0	0.574	3	4.101	4	7.141	0	2076	32	1.4
47932.7	10000	41.4595	93.8822	-1130	QKA	4.3	4	6.9	-1	1.0	-1	0.625	4	4.310	4	6.897	0	2091	47	1.4
47932.6	10000	41.4595	93.8813	-1130	QKA	4.5	4	6.8	-1	0.9	-1	0.665	5	4.754	5	7.153	0	2104	47	1.4
47932.5	10000	41.4595	93.8805	-1131	QKA	4.6	4	6.6	-1	0.9	-1	0.698	5	4.892	5	7.012	0	2107	42	1.4
47932.4	10000	41.4595	93.8797	-1131	QKA	4.4	4	6.2	-1	0.9	-1	0.705	5	4.887	5	6.933	0	2106	52	1.4
47932.3	10000	41.4595	93.8789	-1132	QKA	4.5	4	6.3	-1	0.9	-1	0.706	5	5.103	6	7.226	0	2091	36	1.4
47932.2	10000	41.4595	93.8781	-1133	QKA	4.5	4	6.0	-2	0.9	-2	0.761	6	5.331	6	7.003	0	2056	43	1.4
47932.1	10000	41.4595	93.8773	-1134	QKA	4.4	4	5.8	-2	0.8	-2	0.753	6	5.349	6	7.104	0	2000	37	1.4
47932.0	10000	41.4595	93.8765	-1135	QKA	4.1	3	6.0	-1	0.9	-2	0.677	5	5.036	6	7.440	1	1990	44	1.4
47931.9	10000	41.4595	93.8756	-1137	QKA	3.9	3	6.1	-1	0.9	-1	0.641	4	4.431	4	6.910	0	2003	38	1.4
47931.8	10000	41.4595	93.8748	-1137	QKA	4.0	3	5.9	-2	0.9	-1	0.688	5	4.519	5	6.571	0	2030	28	1.4
47931.7	10000	41.4595	93.8740	-1138	QKA	4.2	4	6.3	-1	0.9	-1	0.669	5	4.704	5	7.028	0	2052	47	1.4

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47931.6	10000	41.4595	93.8732	-1139	QKA	4.0	3	6.5	-1	0.9	-1	0.618	4	4.471	4	7.232	1	2077	36	1.4
47931.5	10000	41.4595	93.8724	-1140	QKA	4.4	4	6.8	0	0.9	-1	0.654	5	4.872	5	7.445	1	2108	40	1.4
47931.4	10000	41.4595	93.8716	-1141	QKA	4.6	4	6.7	-1	1.0	-1	0.680	5	4.790	5	7.049	0	2143	51	1.4
47931.3	10000	41.4596	93.8707	-1142	QKA	4.5	4	6.5	-1	1.0	-1	0.689	5	4.479	4	6.502	0	2124	45	1.4
47931.2	10000	41.4596	93.8699	-1143	QKA	4.0	3	6.3	-1	1.0	0	0.643	4	3.997	3	6.214	-1	2084	49	1.4
47931.1	10000	41.4595	93.8691	-1144	QKA	3.8	3	6.7	-1	1.1	0	0.565	3	3.447	2	6.096	-1	2051	43	1.4
47931.0	10000	41.4596	93.8683	-1145	QKA	3.7	3	6.4	-1	1.1	0	0.584	4	3.327	2	5.700	-1	2026	51	1.4
47930.9	10000	41.4596	93.8675	-1147	QKA	3.8	3	6.1	-1	1.1	0	0.617	4	3.315	2	5.370	-2	2023	42	1.4
47930.8	10000	41.4596	93.8667	-1148	QKA	3.5	2	6.2	-1	1.1	0	0.561	3	3.123	2	5.567	-1	2014	51	1.4
47930.7	10000	41.4596	93.8659	-1148	QKA	3.7	3	6.8	0	1.1	0	0.539	3	3.496	2	6.489	0	2017	34	1.3
47930.6	10000	41.4596	93.8650	-1149	QKA	3.6	3	6.6	-1	0.9	-1	0.551	3	3.901	3	7.074	0	1989	47	1.3
47930.5	10000	41.4596	93.8642	-1150	QKA	3.8	3	6.6	-1	0.9	-1	0.577	3	4.364	4	7.560	1	1969	47	1.3
47930.4	10000	41.4596	93.8634	-1150	QKA	3.9	3	6.5	-1	0.8	-2	0.591	4	5.050	6	8.546	2	1927	43	1.3
47930.3	10000	41.4596	93.8626	-1151	QKA	4.1	3	6.5	-1	0.7	-3	0.623	4	5.583	7	8.964	3	1905	40	1.3
47930.2	10000	41.4596	93.8618	-1151	QKA	3.8	3	6.6	-1	0.7	-3	0.576	3	5.214	6	9.048	3	1865	45	1.3
47930.1	10000	41.4596	93.8610	-1152	QKA	3.7	3	6.4	-1	0.6	-3	0.583	4	5.752	7	9.869	4	1818	41	1.3
47930.0	10000	41.4596	93.8601	-1152	QKA	3.5	2	5.8	-2	0.6	-3	0.610	4	5.497	6	9.012	3	1767	46	1.3
47929.9	10000	41.4596	93.8593	-1153	QKA	3.7	3	5.9	-2	0.7	-3	0.621	4	5.193	6	8.365	2	1767	47	1.3
47929.8	10000	41.4596	93.8585	-1153	QKA	3.3	2	5.9	-2	0.7	-3	0.555	3	4.730	5	8.517	2	1753	38	1.3
47929.7	10000	41.4596	93.8577	-1153	QKA	3.1	1	5.8	-2	0.7	-3	0.536	3	4.223	4	7.879	1	1753	46	1.3
47929.6	10000	41.4596	93.8569	-1153	QKA	2.8	1	5.9	-2	0.8	-2	0.465	2	3.526	3	7.581	1	1742	46	1.3
47929.5	10000	41.4596	93.8561	-1153	QKA	2.6	1	6.2	-1	0.8	-2	0.424	1	3.388	2	7.994	2	1752	50	1.3
47929.4	10000	41.4596	93.8553	-1154	QKA	2.6	1	6.3	-1	0.9	-2	0.411	1	3.063	2	7.447	1	1786	45	1.3
47929.3	10000	41.4597	93.8544	-1153	QKA	2.7	1	6.7	-1	0.9	-1	0.397	1	3.000	1	7.554	1	1808	52	1.2
47929.2	10000	41.4597	93.8536	-1153	QKA	2.4	1	7.0	0	0.9	-1	0.342	0	2.644	1	7.719	1	1817	52	1.2
47929.1	10000	41.4597	93.8528	-1153	QKA	2.9	2	7.1	0	0.9	-1	0.402	1	3.109	2	7.741	1	1838	46	1.2
47929.0	10000	41.4597	93.8520	-1153	QKA	3.2	2	7.1	0	0.9	-1	0.455	2	3.488	2	7.663	1	1875	45	1.2
47928.9	10000	41.4597	93.8512	-1153	QKA	3.3	2	7.0	0	0.9	-1	0.476	2	3.524	3	7.406	1	1907	40	1.2
47928.8	10000	41.4597	93.8504	-1153	QKA	3.5	2	6.9	0	0.9	-1	0.507	2	3.759	3	7.413	1	1924	31	1.2
47928.7	10000	41.4597	93.8495	-1154	QKA	3.5	2	6.8	0	0.9	-1	0.517	2	3.831	3	7.402	1	1938	45	1.2
47928.6	10000	41.4597	93.8487	-1154	QKA	3.5	2	6.8	0	0.9	-1	0.506	2	3.793	3	7.493	1	1956	48	1.2
47928.5	10000	41.4597	93.8479	-1154	QKA	3.9	3	6.9	0	0.9	-1	0.559	3	4.194	4	7.505	1	2002	32	1.2
47928.4	10000	41.4597	93.8471	-1154	QKA	3.7	3	6.9	0	1.0	-1	0.541	3	3.889	3	7.193	1	2040	44	1.2
47928.3	10000	41.4597	93.8463	-1154	QKA	3.5	2	7.2	0	1.0	-1	0.486	2	3.561	3	7.331	1	2057	45	1.2
47928.2	10000	41.4597	93.8455	-1154	QKA	3.6	2	7.3	0	1.0	-1	0.492	2	3.713	3	7.541	1	2053	42	1.2
47928.1	10000	41.4597	93.8447	-1153	QKA	3.5	2	7.3	0	1.0	-1	0.473	2	3.513	3	7.431	1	2065	51	1.2
47928.0	10000	41.4597	93.8438	-1154	QKA	3.3	2	7.5	0	1.0	-1	0.444	2	3.320	2	7.472	1	2064	49	1.1
47927.9	10000	41.4597	93.8430	-1156	QKA	3.4	2	7.1	0	1.0	-1	0.483	2	3.387	2	7.016	0	2038	44	1.1
47927.8	10000	41.4597	93.8422	-1156	QKA	3.0	1	6.8	0	1.0	-1	0.438	2	2.997	1	6.849	0	1998	38	1.1
47927.7	10000	41.4597	93.8414	-1156	QKA	3.1	2	6.9	0	1.0	-1	0.448	2	3.203	2	7.155	1	1961	47	1.1
47927.6	10000	41.4597	93.8406	-1155	QKA	3.2	2	6.7	-1	0.9	-1	0.474	2	3.420	2	7.210	1	1934	39	1.1
47927.5	10000	41.4598	93.8398	-1155	QKA	2.8	1	6.9	0	1.0	-1	0.401	1	2.887	1	7.205	1	1921	47	1.1
47927.4	10000	41.4598	93.8389	-1154	QKA	3.0	1	6.9	0	1.0	0	0.430	1	2.883	1	6.711	0	1914	40	1.1
47927.3	10000	41.4598	93.8381	-1154	QKA	3.1	1	6.9	0	1.1	0	0.450	2	2.845	1	6.317	0	1909	44	1.1
47927.2	10000	41.4598	93.8373	-1153	QKA	3.8	1	7.5	0	1.1	1	0.375	1	2.488	0	6.629	0	1923	46	1.1
47927.1	10000	41.4598	93.8365	-1152	QKA	3.1	1	7.7	0	1.1	1	0.397	1	2.700	1	6.802	0	1943	38	1.1
47927.0	10000	41.4598	93.8357	-1150	QKA	3.0	1	7.9	0	1.2	1	0.376	1	2.502	1	6.660	0	1955	51	1.1
47926.9	10000	41.4598	93.8349	-1148	QKA	2.7	1	7.7	0	1.2	1	0.347	1	2.161	0	6.235	-1	1956	50	1.1
47926.8	10000	41.4598	93.8340	-1149	QKA	2.6	1	7.6	0	1.2	1	0.347	1	2.162	0	6.228	-1	1949	47	1.1
47926.7	10000	41.4598	93.8332	-1151	QKA	2.4	1	7.4	0	1.2	1	0.324	1	2.013	0	6.216	-1	1937	56	1.1
47926.6	10000	41.4598	93.8324	-1151	QKA	2.2	0	7.3	0	1.2	1	0.306	0	1.909	-1	6.248	-1	1917	46	1.1
47926.5	10000	41.4598	93.8316	-1150	QKA	2.4	0	7.0	0	1.1	0	0.336	0	2.081	0	6.185	-1	1904	37	1.1

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47926.4	10000	41.4598	93.8308	-1150	QKA	2.2	0	7.1	0	1.1	0	0.307	0	1.909	-1	6.216	-1	1876	31	1.1
47926.3	10000	41.4598	93.8300	-1149	QKA	2.0	-1	6.7	-1	1.1	0	0.294	-1	1.763	-1	5.996	-1	1855	41	1.0
47926.2	10000	41.4598	93.8292	-1149	QKA	1.8	-1	6.7	-1	1.1	0	0.269	-1	1.610	-1	5.996	-1	1837	52	1.0
47926.1	10000	41.4598	93.8284	-1148	QKA	2.0	-1	6.8	0	1.2	1	0.287	-1	1.697	-1	5.904	-1	1848	44	1.0
47926.0	10000	41.4598	93.8276	-1148	QKA	2.1	-1	6.9	0	1.1	1	0.301	-1	1.811	-1	6.021	-1	1862	44	1.0
47925.9	10000	41.4598	93.8268	-1148	QKA	2.1	-1	7.2	0	1.2	1	0.291	-1	1.797	-1	6.176	-1	1900	43	1.0
47925.8	10000	41.4598	93.8260	-1146	QKA	2.2	0	7.4	0	1.2	1	0.302	-1	1.848	-1	6.117	-1	1943	47	1.0
47925.7	10000	41.4598	93.8252	-1144	QKA	2.5	0	7.4	0	1.2	1	0.335	0	2.076	0	6.191	-1	1986	47	1.0
47925.6	10000	41.4598	93.8244	-1143	QKA	2.8	1	7.9	1	1.2	1	0.348	0	2.347	0	6.739	0	2018	42	1.0
47925.5	10000	41.4599	93.8236	-1142	QKA	3.0	1	8.4	2	1.2	1	0.356	0	2.528	1	7.094	0	2048	50	1.0
47925.4	10000	41.4599	93.8228	-1141	QKA	3.0	1	8.4	2	1.1	0	0.360	0	2.741	1	7.613	1	2062	45	1.0
47925.3	10000	41.4599	93.8219	-1141	QKA	3.1	2	8.7	2	1.1	0	0.361	0	2.914	1	8.079	2	2068	39	1.0
47925.2	10000	41.4599	93.8211	-1140	QKA	3.2	2	8.7	2	1.0	0	0.369	0	3.061	2	8.295	2	2069	40	1.0
47925.1	10000	41.4599	93.8203	-1139	QKA	3.2	2	8.6	2	1.0	-1	0.371	0	3.271	2	8.820	3	2057	43	1.0
47925.0	10000	41.4599	93.8195	-1139	QKA	3.3	2	8.5	2	1.0	-1	0.384	1	3.313	2	8.622	2	2057	58	1.0
47924.9	10000	41.4599	93.8187	-1138	QKA	3.1	2	8.5	2	1.0	0	0.364	0	3.022	2	8.294	2	2072	51	1.0
47924.8	10000	41.4599	93.8179	-1138	QKA	3.0	1	8.4	2	1.0	0	0.357	0	2.903	1	8.134	2	2077	55	1.0
47924.7	10000	41.4599	93.8171	-1137	QKA	3.3	2	8.6	2	1.1	0	0.383	0	2.935	1	7.657	1	2074	53	1.0
47924.6	10000	41.4599	93.8163	-1136	QKA	3.1	2	8.4	2	1.1	0	0.369	0	2.749	1	7.457	1	2057	47	1.0
47924.5	10000	41.4599	93.8155	-1135	QKA	3.4	2	8.2	1	1.1	0	0.411	1	3.029	2	7.368	1	2023	39	1.0
47924.4	10000	41.4599	93.8147	-1135	QKA	3.1	2	8.3	2	1.2	1	0.373	1	2.675	1	7.163	1	2014	43	1.0
47924.3	10000	41.4599	93.8139	-1135	QKA	2.9	1	8.3	1	1.2	1	0.349	0	2.469	0	7.065	0	1967	37	1.0
47924.2	10000	41.4599	93.8131	-1134	QKA	2.8	1	8.1	1	1.1	0	0.342	0	2.431	0	7.113	1	1908	41	1.0
47924.1	10000	41.4599	93.8123	-1133	QKA	2.9	1	7.9	1	1.1	0	0.364	0	2.594	1	7.128	1	1874	40	1.0
47924.0	10000	41.4599	93.8115	-1133	QKA	2.6	1	7.4	0	1.1	0	0.348	0	2.443	0	7.025	0	1832	49	1.0
47923.9	10000	41.4599	93.8107	-1131	QKA	2.5	0	7.4	0	1.1	0	0.339	0	2.318	0	6.831	0	1815	35	1.0
47923.8	10000	41.4599	93.8098	-1130	QKA	2.2	0	7.5	0	1.1	0	0.292	-1	2.010	0	6.882	0	1823	50	1.0
47923.7	10000	41.4599	93.8091	-1129	QKA	2.2	0	7.3	0	1.1	0	0.302	-1	2.105	0	6.970	0	1814	33	1.0
47923.6	10000	41.4599	93.8082	-1129	QKA	2.4	0	7.2	0	1.1	0	0.329	0	2.232	0	6.792	0	1825	48	1.0
47923.5	10000	41.4599	93.8074	-1128	QKA	2.5	0	6.8	0	1.1	0	0.363	0	2.307	0	6.354	0	1836	45	1.0
47923.4	10000	41.4599	93.8066	-1127	QKA	2.5	0	6.9	0	1.1	0	0.353	0	2.321	0	6.567	0	1834	44	1.0
47923.3	10000	41.4600	93.8058	-1127	QKA	2.3	0	6.9	0	1.1	0	0.333	0	2.179	0	6.543	0	1844	40	1.0
47923.2	10000	41.4600	93.8050	-1126	QKA	2.6	0	7.0	0	1.0	0	0.366	0	2.507	1	6.842	0	1847	40	1.0
47923.1	10000	41.4600	93.8042	-1126	QKA	2.5	0	6.9	0	1.0	-1	0.367	0	2.539	1	6.927	0	1840	49	1.0
47923.0	10000	41.4600	93.8034	-1125	QKA	2.5	0	6.6	0	1.1	0	0.383	0	2.472	0	6.454	0	1837	62	1.0
47922.9	10000	41.4600	93.8026	-1124	QKA	2.4	0	7.0	0	1.1	0	0.337	0	2.212	0	6.564	0	1854	48	1.0
47922.8	10000	41.4600	93.8018	-1123	QKA	2.4	0	7.3	0	1.1	0	0.324	0	2.139	0	6.596	0	1883	50	1.0
47922.7	10000	41.4600	93.8010	-1123	QKA	2.4	0	7.5	0	1.1	0	0.323	0	2.118	0	6.553	0	1897	47	1.0
47922.6	10000	41.4600	93.8002	-1122	QKA	2.4	0	7.8	0	1.2	1	0.305	0	1.977	-1	6.487	0	1912	41	1.0
47922.5	10000	41.4600	93.7994	-1121	QKA	2.3	0	7.8	0	1.2	1	0.293	-1	1.882	-1	6.417	0	1926	34	1.0
47922.4	10000	41.4600	93.7986	-1121	QKA	2.3	0	7.8	0	1.2	1	0.301	-1	1.811	-1	6.028	-1	1957	47	1.0
47922.3	10000	41.4600	93.7977	-1120	QKA	2.4	0	8.3	0	1.2	1	0.289	-1	1.803	-1	6.239	-1	1984	40	1.0
47922.2	10000	41.4600	93.7970	-1119	QKA	2.5	0	8.4	0	1.2	1	0.295	-1	1.914	-1	6.484	-1	1983	33	1.0
47922.1	10000	41.4600	93.7961	-1118	QKA	2.4	0	8.4	0	1.2	1	0.285	-1	1.900	-1	6.739	0	1972	35	1.0
47922.0	10000	41.4600	93.7953	-1118	QKA	2.4	0	8.1	0	1.2	1	0.296	-1	1.890	-1	6.245	-1	1977	46	1.0
47921.9	10000	41.4600	93.7945	-1117	QKA	2.6	0	7.8	0	1.2	1	0.329	-1	2.026	0	6.159	-1	1974	59	1.0
47921.8	10000	41.4600	93.7937	-1117	QKA	2.7	0	7.7	0	1.2	1	0.346	-1	2.073	0	6.000	-1	1993	37	1.0
47921.7	10000	41.4600	93.7929	-1117	QKA	2.9	0	7.5	0	1.2	1	0.389	-1	2.338	0	6.005	-1	1995	44	1.0
47921.6	10000	41.4600	93.7921	-1117	QKA	2.9	0	7.2	0	1.2	1	0.407	-1	2.371	0	5.824	-1	1995	44	1.0
47921.5	10000	41.4600	93.7913	-1118	QKA	2.9	1	6.9	0	1.2	1	0.419	-1	2.305	0	5.499	-1	2003	43	1.0
47921.4	10000	41.4600	93.7905	-1117	QKA	3.1	1	6.7	-1	1.2	1	0.459	-1	2.400	0	5.231	-2	2010	40	1.0
47921.3	10000	41.4601	93.7897	-1115	QKA	2.9	1	7.0	0	1.3	1	0.414	2	2.300	0	5.556	-1	2000	42	1.0

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47921.2	10000	41.4601	93.7889	-1113	QKA	2.9	1	6.9	0	1.3	1	0.423	1	2.316	0	5.479	-2	2000	27	1.0
47921.1	10000	41.4600	93.7881	-1116	QKA	2.8	1	6.8	0	1.3	1	0.415	1	2.224	0	5.355	-2	1976	40	1.0
47921.0	10000	41.4601	93.7873	-1117	QKA	2.6	0	6.6	-1	1.3	1	0.397	1	2.097	0	5.287	-2	1949	31	1.0
47920.9	10000	41.4601	93.7865	-1116	QKA	2.6	0	6.5	-1	1.3	1	0.402	1	2.087	0	5.189	-2	1927	36	1.0
47920.8	10000	41.4601	93.7856	-1116	QKA	2.6	0	6.4	-1	1.2	1	0.413	1	2.168	0	5.246	-2	1896	37	1.0
47920.7	10000	41.4601	93.7849	-1116	QKA	2.6	0	6.5	-1	1.1	1	0.396	1	2.238	0	5.651	-1	1878	44	1.0
47920.6	10000	41.4601	93.7840	-1116	QKA	2.7	1	6.4	-1	1.1	0	0.415	1	2.366	0	5.696	-1	1871	42	1.0
47920.5	10000	41.4601	93.7832	-1116	QKA	2.7	1	6.5	-1	1.1	0	0.423	1	2.544	1	6.010	-1	1862	43	1.0
47920.4	10000	41.4601	93.7824	-1115	QKA	2.7	1	6.8	0	1.0	0	0.396	1	2.574	1	6.493	0	1856	42	1.0
47920.3	10000	41.4601	93.7816	-1115	QKA	2.8	1	6.9	0	1.0	0	0.405	1	2.687	1	6.631	0	1863	53	1.0
47920.2	10000	41.4601	93.7808	-1115	QKA	2.9	1	7.2	0	1.0	0	0.406	1	2.811	1	6.919	0	1867	45	1.0
47920.1	10000	41.4601	93.7800	-1114	QKA	3.0	1	7.2	0	1.1	0	0.426	1	2.793	1	6.556	0	1884	41	1.0
47920.0	10000	41.4601	93.7792	-1113	QKA	3.0	1	6.9	0	1.1	0	0.437	2	2.679	1	6.127	-1	1892	38	1.0
47919.9	10000	41.4601	93.7784	-1113	QKA	2.9	1	6.5	-1	1.1	0	0.454	2	2.577	1	5.672	-1	1893	48	1.0
47919.8	10000	41.4601	93.7776	-1113	QKA	2.6	0	6.6	-1	1.2	1	0.400	2	2.193	0	5.478	-2	1916	33	1.0
47919.7	10000	41.4601	93.7768	-1113	QKA	2.8	1	6.3	-1	1.3	2	0.449	2	2.186	0	4.866	-2	1949	35	1.0
47919.6	10000	41.4601	93.7760	-1113	QKA	2.8	1	6.5	-1	1.3	2	0.428	1	2.083	0	4.861	-2	1986	41	1.0
47919.5	10000	41.4601	93.7752	-1112	QKA	2.7	1	6.3	-1	1.3	2	0.435	1	2.066	0	4.751	-2	1998	33	1.0
47919.4	10000	41.4601	93.7744	-1112	QKA	2.8	1	6.6	-1	1.3	2	0.427	1	2.102	0	4.924	-2	2018	48	1.0
47919.3	10000	41.4601	93.7735	-1112	QKA	2.9	1	6.5	-1	1.3	2	0.447	2	2.194	0	4.903	-2	2018	38	1.0
47919.2	10000	41.4601	93.7728	-1112	QKA	3.2	2	6.5	-1	1.3	2	0.491	2	2.385	0	4.861	-2	2024	46	1.0
47919.1	10000	41.4601	93.7719	-1112	QKA	3.4	2	6.2	-1	1.3	2	0.557	3	2.618	1	4.701	-2	2025	32	0.9
47919.0	10000	41.4601	93.7711	-1111	QKA	3.3	2	6.4	-1	1.3	2	0.520	3	2.557	1	4.915	-2	2026	42	0.9
47918.9	10000	41.4602	93.7703	-1111	QKA	3.4	2	6.3	-1	1.3	2	0.534	3	2.535	1	4.751	-2	2011	38	0.9
47918.8	10000	41.4602	93.7695	-1111	QKA	3.5	2	6.4	-1	1.3	2	0.573	3	2.602	1	4.537	-3	2011	30	0.9
47918.7	10000	41.4602	93.7687	-1110	QKA	3.4	2	6.1	-1	1.3	2	0.555	3	2.644	1	4.762	-2	2008	50	0.9
47918.6	10000	41.4602	93.7679	-1110	QKA	3.1	2	6.3	-1	1.3	2	0.482	3	2.354	1	4.884	-2	2017	48	0.9
47918.5	10000	41.4602	93.7671	-1110	QKA	3.0	2	6.2	-1	1.3	2	0.419	2	2.292	1	5.467	-2	2014	46	0.9
47918.4	10000	41.4602	93.7663	-1109	QKA	2.9	2	7.4	0	1.3	2	0.392	2	2.272	1	5.798	-1	1994	38	0.9
47918.3	10000	41.4602	93.7655	-1108	QKA	2.8	2	7.0	0	1.2	2	0.400	2	2.310	1	5.783	-1	1974	59	0.9
47918.2	10000	41.4602	93.7647	-1108	QKA	2.7	2	7.2	0	1.2	2	0.371	2	2.203	1	5.940	-1	1969	46	0.9
47918.1	10000	41.4602	93.7639	-1107	QKA	2.5	2	7.1	0	1.2	2	0.351	2	2.125	0	6.061	-1	1956	50	0.9
47918.0	10000	41.4602	93.7631	-1106	QKA	2.4	2	7.4	0	1.2	2	0.322	2	1.975	-1	6.125	-1	1940	42	0.9
47917.9	10000	41.4602	93.7623	-1105	QKA	2.4	2	7.3	0	1.2	2	0.325	2	1.923	-1	5.925	-1	1933	40	0.9
47917.8	10000	41.4602	93.7614	-1106	QKA	2.6	2	7.1	0	1.2	2	0.371	2	2.205	0	5.944	-1	1944	40	0.9
47917.7	10000	41.4602	93.7607	-1106	QKA	2.6	2	7.2	0	1.2	2	0.357	2	2.088	0	5.857	-1	1949	32	0.9
47917.6	10000	41.4602	93.7598	-1105	QKA	2.4	2	7.7	0	1.2	2	0.311	2	1.893	-1	6.083	-1	1954	34	0.9
47917.5	10000	41.4602	93.7590	-1105	QKA	2.4	2	7.7	0	1.2	2	0.306	2	1.860	-1	6.079	-1	1947	48	0.9
47917.4	10000	41.4602	93.7582	-1105	QKA	2.3	2	8.1	0	1.2	2	0.287	2	1.767	-1	6.151	-1	1954	43	0.9
47917.3	10000	41.4602	93.7574	-1105	QKA	2.4	2	7.9	0	1.2	2	0.301	2	1.799	-1	5.975	-1	1945	37	0.9
47917.2	10000	41.4602	93.7566	-1103	QKA	2.6	2	8.0	0	1.2	2	0.331	2	2.047	0	6.190	-1	1944	49	0.9
47917.1	10000	41.4602	93.7558	-1100	QKA	2.3	2	8.0	0	1.2	2	0.283	2	1.700	-1	6.011	-1	1932	45	0.9
47917.0	10000	41.4602	93.7550	-1102	QKA	2.1	2	8.1	0	1.2	2	0.266	2	1.578	-1	5.937	-1	1934	37	0.9
47916.9	10000	41.4602	93.7542	-1104	QKA	2.2	2	8.2	0	1.2	2	0.266	2	1.641	-1	6.167	-1	1929	54	0.9
47916.8	10000	41.4602	93.7534	-1103	QKA	2.3	2	8.2	0	1.2	2	0.282	2	1.781	-1	6.317	0	1929	47	0.9
47916.7	10000	41.4602	93.7526	-1103	QKA	2.1	2	8.4	0	1.2	2	0.261	2	1.682	-1	6.439	0	1922	38	0.9
47916.6	10000	41.4603	93.7518	-1102	QKA	2.2	2	8.2	0	1.2	2	0.260	2	1.693	-1	6.518	0	1922	37	0.9
47916.5	10000	41.4603	93.7510	-1101	QKA	2.1	2	8.2	0	1.2	2	0.254	2	1.490	-2	6.360	0	1910	48	0.9
47916.4	10000	41.4603	93.7502	-1099	QKA	2.1	2	8.2	0	1.2	2	0.262	2	1.689	-1	6.453	0	1910	40	0.9
47916.3	10000	41.4603	93.7493	-1098	QKA	2.4	2	8.2	0	1.2	2	0.297	2	1.922	-1	6.482	0	1914	35	0.9
47916.2	10000	41.4603	93.7486	-1098	QKA	2.6	2	7.8	0	1.3	2	0.337	2	2.078	0	6.165	-1	1925	37	0.9
47916.1	10000	41.4603	93.7477	-1097	QKA	2.5	2	7.6	1	1.3	2	0.331	2	1.978	-1	5.983	-1	1922	44	0.9

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NIMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47916.0	10000	41.4603	93.7469	-1096	QKA	2.8	1	7.7	1	1.2	1	0.358	0	2.228	0	6.217	-1	1933	36	0.8
47915.9	10000	41.4603	93.7461	-1096	QKA	3.1	2	7.2	1	1.2	1	0.434	1	2.601	-1	5.998	-1	1952	41	0.8
47915.8	10000	41.4603	93.7453	-1095	QKA	3.2	2	7.3	1	1.2	1	0.443	2	2.627	-1	5.927	-1	1958	44	0.9
47915.7	10000	41.4603	93.7445	-1096	QKA	3.2	2	7.3	1	1.2	1	0.430	1	2.536	1	5.898	-1	1977	48	0.9
47915.6	10000	41.4603	93.7437	-1095	QKA	3.3	2	7.6	1	1.2	1	0.433	1	2.740	1	6.327	0	1980	43	0.9
47915.5	10000	41.4603	93.7429	-1094	QKA	3.2	2	7.6	1	1.2	1	0.426	1	2.775	1	6.507	0	1986	52	0.9
47915.4	10000	41.4603	93.7421	-1094	QKA	3.4	2	7.9	1	1.1	0	0.436	1	3.015	2	6.917	0	2000	42	0.9
47915.3	10000	41.4603	93.7413	-1094	QKA	3.2	2	7.8	1	1.1	0	0.416	1	2.838	1	6.830	0	1994	45	0.9
47915.2	10000	41.4603	93.7405	-1093	QKA	2.9	1	8.0	1	1.2	1	0.361	0	2.414	0	6.693	0	1989	39	0.9
47915.1	10000	41.4603	93.7397	-1093	QKA	2.8	1	8.2	1	1.2	1	0.344	0	2.366	0	6.886	0	1991	39	0.9
47915.0	10000	41.4603	93.7389	-1092	QKA	2.6	1	8.0	1	1.2	1	0.328	0	2.212	0	6.752	0	1969	47	0.9
47914.9	10000	41.4603	93.7381	-1091	QKA	2.5	1	7.7	1	1.2	1	0.320	0	2.102	0	6.578	0	1951	42	0.9
47914.8	10000	41.4603	93.7372	-1090	QKA	2.5	1	7.9	1	1.2	1	0.318	0	2.171	0	6.827	0	1916	56	0.9
47914.7	10000	41.4603	93.7365	-1090	QKA	2.1	-1	7.7	1	1.1	0	0.279	-1	1.931	-1	6.917	0	1857	40	0.9
47914.6	10000	41.4603	93.7356	-1090	QKA	2.2	-1	7.1	0	1.1	0	0.315	0	2.014	0	6.394	0	1826	44	0.9
47914.5	10000	41.4603	93.7348	-1089	QKA	2.2	0	7.3	0	1.1	0	0.300	-1	2.047	0	6.830	0	1800	30	0.9
47914.4	10000	41.4603	93.7340	-1089	QKA	2.2	0	6.9	-1	1.0	0	0.318	0	2.202	0	6.919	0	1774	48	0.9
47914.3	10000	41.4603	93.7332	-1089	QKA	2.2	0	7.0	-1	0.9	0	0.314	0	2.293	0	7.291	1	1760	45	0.9
47914.2	10000	41.4603	93.7324	-1088	QKA	2.4	0	7.0	-1	0.9	0	0.346	0	2.556	1	7.381	1	1737	45	0.9
47914.1	10000	41.4604	93.7316	-1087	QKA	2.3	-1	6.4	-1	0.9	-1	0.365	0	2.501	0	6.846	0	1736	45	0.9
47914.0	10000	41.4604	93.7308	-1086	QKA	2.5	-1	6.2	-1	1.0	-1	0.405	1	2.637	1	6.517	0	1749	40	0.9
47913.9	10000	41.4604	93.7300	-1085	QKA	2.4	-1	6.4	-1	1.0	-1	0.378	1	2.534	1	6.706	0	1738	44	0.9
47913.8	10000	41.4604	93.7292	-1084	QKA	2.3	-1	6.3	-1	1.0	-1	0.362	0	2.337	0	6.458	0	1739	40	0.9
47913.7	10000	41.4604	93.7284	-1084	QKA	2.2	-1	6.7	-1	1.0	-1	0.326	0	2.254	0	6.907	0	1741	43	0.9
47913.6	10000	41.4604	93.7276	-1083	QKA	2.2	-1	6.6	-1	1.0	-1	0.338	0	2.250	0	6.666	0	1743	35	0.9
47913.5	10000	41.4604	93.7268	-1082	QKA	1.9	-1	6.3	-1	1.0	0	0.301	-1	1.855	-1	6.152	-1	1758	41	1.0
47913.4	10000	41.4604	93.7260	-1081	QKA	1.8	-1	6.7	-1	1.1	0	0.274	-1	1.704	-1	6.212	-1	1756	47	1.0
47913.3	10000	41.4604	93.7251	-1081	QKA	1.9	-1	6.9	-1	1.1	0	0.280	-1	1.781	-1	6.365	0	1789	35	1.0
47913.2	10000	41.4604	93.7243	-1080	QKA	2.1	-1	7.1	-1	1.1	0	0.289	-1	1.841	-1	6.374	0	1823	50	1.0
47913.1	10000	41.4604	93.7235	-1078	QKA	2.0	-1	7.3	-1	1.1	0	0.276	-1	1.795	-1	6.501	0	1847	55	1.0
47913.0	10000	41.4604	93.7227	-1077	QKA	2.3	0	7.3	-1	1.2	0	0.315	0	1.945	-1	6.283	-1	1903	51	1.0
47912.9	10000	41.4604	93.7219	-1076	QKA	2.4	0	7.5	0	1.2	0	0.322	0	2.018	-1	6.273	-1	1938	39	1.0
47912.8	10000	41.4604	93.7211	-1075	QKA	2.6	0	7.7	0	1.2	0	0.338	0	2.161	0	6.392	0	1979	43	1.0
47912.7	10000	41.4604	93.7203	-1074	QKA	2.1	1	7.6	0	1.2	0	0.402	1	2.533	1	6.307	0	2019	48	1.0
47912.6	10000	41.4604	93.7195	-1073	QKA	2.1	2	7.6	0	1.2	0	0.414	1	2.607	1	6.290	0	2041	40	1.0
47912.5	10000	41.4604	93.7187	-1073	QKA	2.4	2	7.8	0	1.2	0	0.438	1	2.834	1	6.473	0	2069	43	1.0
47912.4	10000	41.4604	93.7179	-1072	QKA	2.6	2	7.9	0	1.2	0	0.462	2	3.033	2	6.565	0	2094	45	1.1
47912.3	10000	41.4604	93.7170	-1071	QKA	2.7	2	7.8	0	1.2	0	0.469	2	3.079	2	6.559	0	2081	37	1.1
47912.2	10000	41.4604	93.7162	-1070	QKA	2.6	2	7.7	0	1.1	0	0.470	2	3.206	2	6.823	0	2060	39	1.1
47912.1	10000	41.4605	93.7154	-1070	QKA	2.7	2	7.7	0	1.1	0	0.486	2	3.380	2	6.960	0	2051	40	1.1
47912.0	10000	41.4605	93.7146	-1069	QKA	2.4	2	7.6	0	1.1	0	0.444	2	3.084	2	6.941	0	2051	38	1.1
47911.9	10000	41.4605	93.7137	-1069	QKA	2.4	2	7.8	0	1.1	0	0.429	1	3.075	2	7.175	1	2045	34	1.1
47911.8	10000	41.4605	93.7129	-1069	QKA	2.2	2	7.5	0	1.1	0	0.418	1	2.994	2	7.154	1	2047	53	1.1
47911.7	10000	41.4605	93.7121	-1068	QKA	2.3	2	7.8	0	1.1	0	0.420	1	3.104	2	7.392	1	2067	46	1.1
47911.6	10000	41.4605	93.7112	-1068	QKA	2.3	2	7.8	0	1.1	0	0.428	1	3.076	2	7.181	1	2077	40	1.2
47911.5	10000	41.4605	93.7104	-1067	QKA	2.3	2	7.9	0	1.2	0	0.420	1	2.726	1	6.489	0	2111	61	1.2
47911.4	10000	41.4605	93.7096	-1066	QKA	2.1	1	7.9	0	1.3	0	0.392	1	2.466	1	6.295	0	2110	56	1.2
47911.3	10000	41.4605	93.7088	-1065	QKA	2.0	1	7.9	0	1.3	0	0.377	1	2.351	1	6.240	-1	2100	46	1.2
47911.2	10000	41.4605	93.7079	-1064	QKA	1.9	1	7.7	0	1.4	0	0.388	1	2.242	1	5.772	-1	2091	48	1.2
47911.1	10000	41.4605	93.7071	-1063	QKA	1.8	1	7.6	0	1.4	0	0.381	1	2.048	1	5.369	-2	2083	35	1.2
47911.0	10000	41.4605	93.7063	-1061	QKA	2.0	1	7.3	0	1.4	0	0.376	1	1.988	-1	5.282	-2	2052	52	1.3
47910.9	10000	41.4606	93.7054	-1060	QKA	2.9	1	7.3	0	1.4	2	0.400	1	2.115	0	5.289	-2	2049	45	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47910.8	10000	41.4606	93.7046	-1062	QKA	2.9	1	7.4	0	1.3	2	0.395	1	2.264	0	5.728	-1	2052	34	1.3
47910.7	10000	41.4606	93.7038	-1061	QKA	3.2	2	7.5	1	1.3	1	0.426	1	2.557	-1	6.005	-1	2080	30	1.3
47910.6	10000	41.4606	93.7030	-1061	QKA	3.3	2	7.8	1	1.2	1	0.427	1	2.745	1	6.422	0	2089	40	1.3
47910.5	10000	41.4606	93.7021	-1061	QKA	3.3	2	8.0	1	1.2	1	0.406	1	2.717	1	6.689	0	2117	30	1.3
47910.4	10000	41.4606	93.7013	-1060	QKA	3.3	2	8.2	1	1.1	0	0.406	1	2.896	1	7.134	1	2122	41	1.3
47910.3	10000	41.4606	93.7005	-1059	QKA	3.4	2	8.2	1	1.2	0	0.418	1	3.032	2	7.247	1	2130	44	1.4
47910.2	10000	41.4606	93.6996	-1058	QKA	3.3	2	8.2	1	1.2	1	0.399	1	2.832	1	7.094	0	2130	37	1.4
47910.1	10000	41.4606	93.6988	-1057	QKA	3.2	2	8.4	1	1.2	1	0.381	1	2.651	1	6.954	0	2124	36	1.4
47910.0	10000	41.4606	93.6980	-1057	QKA	3.8	1	8.4	2	1.2	1	0.339	0	2.336	0	6.885	0	2102	41	1.4
47909.9	10000	41.4607	93.6972	-1056	QKA	3.0	1	8.2	1	1.2	1	0.367	0	2.453	0	6.683	0	2096	40	1.4
47909.8	10000	41.4607	93.6963	-1055	QKA	2.8	1	7.7	1	1.2	1	0.361	0	2.364	0	6.557	0	2063	53	1.4
47909.7	10000	41.4607	93.6955	-1054	QKA	2.7	1	8.2	1	1.2	1	0.336	0	2.277	0	6.768	0	2059	31	1.5
47909.6	10000	41.4607	93.6947	-1053	QKA	2.5	1	8.0	1	1.2	1	0.316	0	2.058	0	6.514	0	2057	54	1.5
47909.5	10000	41.4607	93.6938	-1054	QKA	2.3	1	8.1	1	1.2	1	0.287	-1	2.018	0	7.038	0	2052	44	1.5
47909.4	10000	41.4607	93.6930	-1054	QKA	2.4	1	8.1	1	1.2	1	0.294	-1	2.074	0	7.052	0	2052	38	1.5
47909.3	10000	41.4607	93.6922	-1054	QKA	2.4	1	8.2	1	1.2	1	0.292	-1	2.061	0	7.063	0	2044	42	1.5
47909.2	10000	41.4607	93.6914	-1053	QKA	2.1	1	8.0	1	1.2	1	0.260	-1	1.786	-1	6.863	0	2046	42	1.5
47909.1	10000	41.4607	93.6905	-1052	QKA	2.6	0	8.1	1	1.2	1	0.314	0	2.243	0	7.149	1	2089	41	1.5
47909.0	10000	41.4607	93.6897	-1053	QKA	2.9	1	8.1	1	1.1	0	0.357	0	2.561	1	7.174	1	2108	38	1.6
47908.9	10000	41.4607	93.6889	-1052	QKA	3.2	2	8.4	1	1.1	0	0.374	1	2.834	1	7.585	1	2126	35	1.6
47908.8	10000	41.4607	93.6880	-1052	QKA	3.3	2	8.5	1	1.1	0	0.393	1	2.948	1	7.506	1	2146	42	1.6
47908.7	10000	41.4608	93.6872	-1052	QKA	3.4	2	8.4	1	1.2	1	0.397	1	2.878	1	7.256	1	2163	28	1.6
47908.6	10000	41.4608	93.6864	-1052	QKA	3.3	2	8.2	1	1.2	1	0.402	1	2.835	1	7.046	0	2173	50	1.6
47908.5	10000	41.4608	93.6856	-1052	QKA	3.3	2	8.1	1	1.2	1	0.408	1	2.811	1	6.882	0	2181	51	1.6
47908.4	10000	41.4608	93.6847	-1052	QKA	3.3	2	7.9	1	1.2	1	0.421	1	2.742	1	6.506	0	2176	62	1.6
47908.3	10000	41.4608	93.6839	-1052	QKA	3.1	2	7.8	1	1.2	1	0.400	1	2.663	1	6.657	0	2183	50	1.7
47908.2	10000	41.4608	93.6831	-1051	QKA	3.0	2	7.4	1	1.3	1	0.400	1	2.586	1	6.464	0	2175	38	1.7
47908.1	10000	41.4608	93.6823	-1051	QKA	3.4	2	7.3	1	1.2	1	0.400	1	2.376	0	5.944	-1	2169	41	1.7
47908.0	10000	41.4608	93.6814	-1051	QKA	3.5	2	7.3	1	1.3	1	0.463	2	2.739	1	5.910	-1	2165	47	1.7
47907.9	10000	41.4608	93.6806	-1050	QKA	3.5	2	7.3	1	1.3	1	0.484	2	2.810	1	5.813	-1	2186	51	1.7
47907.8	10000	41.4608	93.6798	-1049	QKA	3.5	2	7.9	1	1.3	1	0.447	2	2.702	1	6.042	-1	2215	49	1.7
47907.7	10000	41.4608	93.6789	-1049	QKA	3.1	2	8.5	1	1.4	1	0.364	2	2.294	0	6.299	0	2250	42	1.7
47907.6	10000	41.4609	93.6781	-1050	QKA	3.3	2	8.5	1	1.4	1	0.387	2	2.421	1	6.264	-1	2284	44	1.7
47907.5	10000	41.4609	93.6773	-1050	QKA	3.6	2	8.2	1	1.4	1	0.444	2	2.595	1	5.845	-1	2347	40	1.8
47907.4	10000	41.4609	93.6764	-1049	QKA	3.8	2	8.4	1	1.4	1	0.455	2	2.760	1	6.062	-1	2385	43	1.8
47907.3	10000	41.4609	93.6756	-1049	QKA	3.7	2	8.3	1	1.4	1	0.448	2	2.650	1	5.921	-1	2408	37	1.8
47907.2	10000	41.4609	93.6748	-1048	QKA	3.8	2	8.6	1	1.4	1	0.438	2	2.763	1	6.303	0	2402	46	1.8
47907.1	10000	41.4609	93.6740	-1047	QKA	4.0	2	8.7	1	1.3	1	0.454	2	3.024	1	6.659	0	2393	46	1.8
47907.0	10000	41.4609	93.6731	-1047	QKA	4.2	2	8.4	1	1.3	1	0.502	2	3.351	1	6.672	0	2381	40	1.8
47906.9	10000	41.4609	93.6723	-1047	QKA	4.4	2	8.1	1	1.3	1	0.541	2	3.485	2	6.443	0	2365	40	1.8
47906.8	10000	41.4609	93.6715	-1046	QKA	4.2	2	8.5	1	1.2	1	0.499	2	3.513	2	7.040	0	2350	41	1.8
47906.7	10000	41.4609	93.6706	-1046	QKA	4.3	2	8.5	1	1.2	1	0.506	2	3.592	2	7.101	1	2358	61	1.8
47906.6	10000	41.4609	93.6698	-1046	QKA	4.3	2	8.8	1	1.2	1	0.486	2	3.533	2	7.263	1	2376	42	1.8
47906.5	10000	41.4609	93.6690	-1045	QKA	4.0	2	8.5	1	1.2	1	0.477	2	3.328	2	6.985	0	2391	35	1.8
47906.4	10000	41.4610	93.6682	-1045	QKA	4.1	2	8.1	1	1.2	1	0.505	2	3.194	2	6.328	0	2401	45	1.9
47906.3	10000	41.4610	93.6673	-1045	QKA	4.2	2	8.1	1	1.2	1	0.517	2	3.203	2	6.191	-1	2402	37	1.9
47906.2	10000	41.4610	93.6665	-1045	QKA	4.0	2	8.5	1	1.2	1	0.474	2	3.123	2	6.583	0	2407	44	1.9
47906.1	10000	41.4610	93.6657	-1045	QAL	3.7	2	8.3	1	1.2	1	0.446	2	2.771	1	6.213	0	2369	38	1.9
47906.0	10000	41.4610	93.6648	-1044	QAL	3.6	2	7.9	1	1.2	1	0.438	2	2.629	1	5.998	0	2339	55	1.9
47905.9	10000	41.4610	93.6640	-1044	QAL	3.6	2	7.8	1	1.2	1	0.452	2	2.608	1	5.771	0	2308	34	1.9
47905.8	10000	41.4610	93.6632	-1043	QAL	3.7	2	7.8	1	1.4	2	0.472	2	2.709	1	5.740	0	2298	41	1.9
47905.7	10000	41.4610	93.6624	-1043	QAL	3.6	2	7.4	1	1.3	2	0.483	1	2.754	1	5.707	-1	2287	51	1.9

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47905.6	10000	41.4610	93.6615	-1044	QAL	3.3	2	7.3	1	1.3	1	0.461	1	2.640	1	5.725	-1	2288	42	1.9
47905.5	10000	41.4610	93.6607	-1044	QAL	3.2	1	7.1	1	1.3	1	0.452	1	2.509	0	5.550	-1	2262	47	1.9
47905.4	10000	41.4610	93.6599	-1044	QAL	3.2	1	7.2	1	1.3	1	0.449	1	2.567	0	5.717	-1	2258	49	1.9
47905.3	10000	41.4611	93.6590	-1043	QAL	3.2	1	6.9	0	1.3	1	0.473	1	2.506	0	5.303	-1	2261	49	1.9
47905.2	10000	41.4611	93.6582	-1042	QAL	3.2	1	6.8	0	1.3	1	0.468	1	2.534	0	5.411	-1	2265	35	1.9
47905.1	10000	41.4611	93.6574	-1042	QAL	3.2	1	7.0	0	1.3	1	0.466	1	2.537	0	5.440	-1	2250	49	1.9
47905.0	10000	41.4611	93.6566	-1041	QAL	3.3	2	7.7	1	1.3	1	0.434	1	2.619	1	6.042	0	2238	55	1.9
47904.9	10000	41.4611	93.6557	-1042	QAL	3.6	2	7.7	1	1.2	1	0.464	1	2.898	1	6.239	0	2217	40	1.9
47904.8	10000	41.4611	93.6549	-1042	QAL	3.3	2	7.8	1	1.2	1	0.420	0	2.643	1	6.298	0	2207	44	1.9
47904.7	10000	41.4611	93.6541	-1042	QAL	3.3	2	7.9	1	1.2	1	0.420	0	2.652	1	6.311	0	2205	30	1.9
47904.6	10000	41.4611	93.6532	-1041	QAL	3.0	1	8.1	2	1.2	1	0.370	0	2.583	0	6.980	1	2184	48	1.9
47904.5	10000	41.4611	93.6524	-1041	QAL	2.8	1	8.3	2	1.2	1	0.335	-1	2.246	0	6.706	1	2177	47	1.9
47904.4	10000	41.4611	93.6516	-1041	QAL	2.8	1	8.5	2	1.3	1	0.326	-1	2.261	0	6.943	1	2187	46	1.9
47904.3	10000	41.4611	93.6508	-1040	QAL	2.6	1	8.2	2	1.3	1	0.322	-1	2.099	0	6.517	0	2205	48	1.9
47904.2	10000	41.4612	93.6499	-1040	QAL	2.4	0	8.6	2	1.3	1	0.279	-1	1.889	-1	6.781	1	2190	37	1.9
47904.1	10000	41.4612	93.6491	-1040	QAL	2.5	0	8.3	2	1.3	1	0.300	-1	1.968	-1	6.556	1	2191	52	1.9
47904.0	10000	41.4612	93.6483	-1040	QAL	2.6	0	7.9	1	1.2	1	0.335	-1	2.202	0	6.567	1	2189	47	1.9
47903.9	10000	41.4612	93.6474	-1039	QAL	3.1	1	8.0	1	1.2	1	0.384	0	2.533	0	6.601	1	2186	48	1.9
47903.8	10000	41.4612	93.6466	-1039	QAL	3.1	1	8.1	2	1.1	1	0.380	0	2.709	1	7.131	1	2173	48	1.9
47903.7	10000	41.4612	93.6458	-1040	QAL	3.2	1	8.1	1	1.1	1	0.397	0	2.911	1	7.340	2	2169	38	1.9
47903.6	10000	41.4612	93.6450	-1040	QAL	3.1	1	8.0	1	1.1	1	0.382	0	2.859	1	7.490	2	2168	44	1.9
47903.5	10000	41.4612	93.6441	-1039	QAL	3.3	2	7.7	1	1.1	1	0.423	0	2.986	1	7.061	1	2196	40	1.9
47903.4	10000	41.4612	93.6433	-1039	QAL	3.3	2	7.9	1	1.1	1	0.426	1	3.087	1	7.250	1	2200	25	1.9
47903.3	10000	41.4612	93.6425	-1039	QAL	3.3	2	8.0	1	1.1	1	0.411	0	2.885	1	7.019	1	2214	48	1.8
47903.2	10000	41.4612	93.6416	-1040	QAL	3.1	1	8.0	1	1.1	1	0.388	0	2.691	1	6.942	1	2247	46	1.8
47903.1	10000	41.4612	93.6408	-1040	QAL	3.6	2	8.2	2	1.1	1	0.439	1	3.203	2	7.300	1	2265	41	1.8
47903.0	10000	41.4612	93.6400	-1040	QAL	3.6	2	8.3	2	1.1	1	0.432	1	3.233	2	7.491	2	2285	51	1.8
47902.9	10000	41.4613	93.6392	-1040	QAL	3.8	2	8.2	2	1.1	1	0.464	1	3.460	2	7.457	2	2277	49	1.8
47902.8	10000	41.4613	93.6383	-1040	QAL	3.4	2	8.2	2	1.1	1	0.414	1	3.109	2	7.513	2	2245	35	1.8
47902.7	10000	41.4613	93.6375	-1041	QAL	3.7	2	8.4	2	1.1	1	0.441	1	3.392	2	7.686	2	2256	40	1.8
47902.6	10000	41.4613	93.6367	-1041	QAL	3.6	2	8.2	2	1.1	1	0.439	1	3.330	2	7.594	2	2243	46	1.8
47902.5	10000	41.4613	93.6358	-1041	QAL	3.6	2	8.2	2	1.1	1	0.438	1	3.289	2	7.503	2	2214	34	1.8
47902.4	10000	41.4613	93.6350	-1041	QAL	3.4	2	8.2	2	1.1	1	0.418	1	3.065	2	7.328	2	2176	41	1.8
47902.3	10000	41.4613	93.6342	-1041	QK	3.3	2	7.4	2	1.1	1	0.446	1	2.868	2	6.425	0	2104	56	1.7
47902.2	10000	41.4613	93.6334	-1040	QK	3.2	2	7.2	2	1.1	1	0.445	1	2.892	2	6.493	0	2056	37	1.7
47902.1	10000	41.4613	93.6325	-1040	QK	3.2	2	6.6	1	1.1	1	0.503	1	2.988	2	5.934	-1	2027	42	1.7
47902.0	10000	41.4613	93.6317	-1040	QK	3.0	2	6.0	1	1.1	1	0.536	2	2.881	2	5.378	-2	1985	35	1.7
47901.9	10000	41.4613	93.6309	-1040	QK	2.9	2	6.0	0	1.1	1	0.481	2	2.625	2	5.457	-1	1962	52	1.7
47901.8	10000	41.4614	93.6301	-1039	QK	2.7	2	5.9	0	1.1	1	0.489	2	2.605	2	5.326	-2	1945	32	1.7
47901.7	10000	41.4614	93.6292	-1040	QK	2.9	2	6.4	1	1.1	1	0.459	2	2.396	2	5.218	-2	1973	44	1.7
47901.6	10000	41.4614	93.6284	-1040	QK	2.5	1	6.6	1	1.2	1	0.448	2	2.512	2	5.603	-1	2051	47	1.6
47901.5	10000	41.4614	93.6276	-1040	QK	2.7	1	6.9	1	1.2	1	0.478	2	2.646	3	5.533	-1	2115	36	1.6
47901.4	10000	41.4614	93.6267	-1040	QK	2.9	1	7.6	1	1.2	1	0.536	3	3.132	3	5.843	-1	2188	41	1.6
47901.3	10000	41.4614	93.6259	-1040	QK	3.4	2	7.3	1	1.2	1	0.512	3	3.207	3	6.267	0	2248	53	1.6
47901.2	10000	41.4614	93.6251	-1040	QK	4.5	2	7.5	1	1.2	1	0.602	3	3.629	3	6.032	-1	2300	28	1.6
47901.1	10000	41.4614	93.6243	-1040	QK	4.7	3	7.3	1	1.2	1	0.606	3	3.708	4	6.116	-1	2338	35	1.6
47901.0	10000	41.4614	93.6234	-1040	QK	4.3	3	7.3	1	1.2	1	0.647	3	4.033	4	6.235	-1	2319	44	1.5
47900.9	10000	41.4614	93.6226	-1040	QK	4.2	3	7.3	1	1.1	1	0.590	3	3.579	3	6.069	-1	2294	42	1.5
47900.8	10000	41.4614	93.6218	-1040	QK	3.9	3	7.4	1	1.1	1	0.574	3	3.661	3	6.381	0	2246	45	1.5
47900.7	10000	41.4614	93.6209	-1041	QK	3.7	3	7.1	1	1.1	1	0.521	3	3.355	3	6.438	0	2211	46	1.5
47900.6	10000	41.4615	93.6201	-1040	QK	4.0	3	7.5	0	1.1	1	0.521	3	3.268	3	6.270	1	2178	37	1.5
47900.5	10000	41.4615	93.6193	-1040	QK	4.0	3	7.5	0	1.1	1	0.532	3	3.636	3	6.836	1	2169	49	1.4

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47900.4	10000	41.4615	93.6185	-1040	QK	4.1	3	7.6	0	1.0	-1	0.542	3	3.919	3	7.229	1	2160	47	1.4
47900.3	10000	41.4615	93.6176	-1040	QK	4.2	3	7.9	1	1.1	0	0.530	2	3.737	3	7.044	1	2154	55	1.4
47900.2	10000	41.4615	93.6168	-1040	QK	4.3	4	7.6	1	1.1	0	0.566	3	3.947	4	6.969	1	2127	38	1.4
47900.1	10000	41.4615	93.6160	-1041	QK	4.2	3	7.5	0	1.1	0	0.558	3	3.854	3	6.914	1	2127	44	1.4
47900.0	10000	41.4615	93.6152	-1041	QK	4.0	3	7.6	1	1.0	-1	0.522	2	3.783	3	7.253	1	2100	42	1.3
47899.9	10000	41.4615	93.6143	-1041	QK	3.8	3	7.6	1	1.0	-1	0.508	2	3.805	3	7.495	1	2081	49	1.3
47899.8	10000	41.4615	93.6135	-1041	QK	3.8	1	7.5	1	1.0	-1	0.430	1	3.253	2	7.568	2	2026	34	1.3
47899.7	10000	41.4615	93.6127	-1042	QK	2.8	1	7.6	0	1.0	-1	0.375	1	2.784	1	7.434	1	1995	37	1.3
47899.6	10000	41.4615	93.6119	-1043	QK	2.6	0	7.3	0	1.0	-1	0.364	0	2.696	1	7.409	1	1972	42	1.3
47899.5	10000	41.4615	93.6111	-1043	QK	2.8	0	7.3	0	0.9	-2	0.378	0	2.949	1	7.797	2	1977	43	1.2
47899.4	10000	41.4615	93.6102	-1042	QK	2.7	0	7.0	0	0.9	-1	0.391	1	2.887	1	7.375	1	1970	29	1.2
47899.3	10000	41.4615	93.6094	-1043	QK	2.9	1	6.9	0	0.9	-2	0.428	1	3.175	2	7.412	1	1951	43	1.2
47899.2	10000	41.4615	93.6086	-1043	QK	3.0	1	6.9	0	1.0	-1	0.434	1	3.082	2	7.094	1	1935	38	1.2
47899.1	10000	41.4615	93.6078	-1044	QK	3.1	2	7.1	0	1.0	-1	0.442	1	3.193	2	7.217	1	1954	52	1.2
47899.0	10000	41.4615	93.6070	-1044	QK	3.4	2	6.6	-1	1.0	-1	0.519	2	3.398	2	6.552	0	1958	36	1.1
47898.9	10000	41.4615	93.6061	-1045	QK	3.4	2	6.9	0	1.1	-1	0.495	2	3.273	2	6.607	0	1985	37	1.1
47898.8	10000	41.4615	93.6053	-1045	QK	3.4	2	7.2	1	1.1	-1	0.469	2	3.212	2	6.851	1	1966	36	1.1
47898.7	10000	41.4615	93.6045	-1045	QK	3.6	2	7.1	0	1.1	0	0.499	2	3.234	2	6.479	0	1964	43	1.1
47898.6	10000	41.4615	93.6037	-1045	QK	3.5	2	7.3	0	1.1	0	0.477	2	3.071	2	6.444	0	1959	44	1.1
47898.5	10000	41.4615	93.6029	-1045	QK	3.2	1	6.9	0	1.1	0	0.460	2	2.794	1	6.075	-1	1932	47	1.0
47898.4	10000	41.4615	93.6020	-1045	QK	3.1	1	6.7	-1	1.1	0	0.469	2	2.760	1	5.888	-1	1894	36	1.0
47898.3	10000	41.4615	93.6012	-1046	QK	3.0	1	6.7	-1	1.1	0	0.448	1	2.782	1	6.215	0	1867	43	1.0
47898.2	10000	41.4615	93.6004	-1047	QK	3.0	1	6.7	-1	1.1	0	0.449	1	2.820	1	6.277	0	1852	49	1.0
47898.1	10000	41.4615	93.5996	-1048	QK	3.0	1	6.6	-1	1.1	0	0.449	1	2.713	1	6.043	-1	1840	44	1.0
47898.0	10000	41.4615	93.5987	-1048	QK	2.8	1	6.9	0	1.0	-1	0.398	1	2.760	1	6.936	1	1816	35	0.9
47897.9	10000	41.4615	93.5979	-1049	QK	2.9	1	6.9	0	1.0	-1	0.423	1	2.869	1	6.783	0	1814	42	0.9
47897.8	10000	41.4615	93.5971	-1049	QK	3.0	1	7.5	1	1.0	-1	0.402	1	3.025	2	7.526	1	1827	36	0.9
47897.7	10000	41.4615	93.5963	-1049	QK	2.9	1	7.8	1	1.1	0	0.374	1	2.747	1	7.350	1	1854	46	0.9
47897.6	10000	41.4615	93.5955	-1049	QK	2.8	1	7.9	1	1.1	0	0.351	0	2.495	1	7.109	1	1879	41	0.9
47897.5	10000	41.4615	93.5946	-1049	QK	2.7	1	7.7	1	1.1	0	0.351	0	2.494	1	7.106	1	1873	49	0.8
47897.4	10000	41.4615	93.5938	-1049	QK	2.8	1	7.4	0	1.1	0	0.381	0	2.517	1	6.603	0	1883	38	0.8
47897.3	10000	41.4615	93.5930	-1048	QK	2.8	1	7.4	0	1.1	0	0.386	0	2.277	0	5.895	-1	1918	33	0.8
47897.2	10000	41.4615	93.5922	-1049	QK	2.6	1	7.4	0	1.1	0	0.358	0	2.088	0	5.833	-1	1940	43	0.8
47897.1	10000	41.4615	93.5914	-1050	QK	2.8	1	7.4	0	1.1	0	0.385	0	2.216	0	5.763	-1	1957	40	0.8
47897.0	10000	41.4615	93.5905	-1051	QK	2.8	1	7.4	0	1.2	0	0.395	1	2.248	0	5.699	-1	1968	43	0.8
47896.9	10000	41.4615	93.5897	-1052	QK	2.7	1	7.5	0	1.2	0	0.366	0	2.218	0	6.060	-1	1979	52	0.8
47896.8	10000	41.4615	93.5889	-1052	QK	2.8	1	7.8	1	1.3	0	0.359	0	2.158	0	6.007	-1	1995	39	0.7
47896.7	10000	41.4615	93.5881	-1052	QK	2.5	1	8.1	1	1.3	2	0.304	-1	1.854	-1	6.097	-1	2022	45	0.7
47896.6	10000	41.4615	93.5872	-1053	QK	2.4	1	8.1	1	1.3	2	0.291	-1	1.816	-1	6.232	0	2019	54	0.7
47896.5	10000	41.4615	93.5864	-1053	QK	2.4	1	8.4	2	1.3	2	0.287	-1	1.831	-1	6.377	0	2027	51	0.7
47896.4	10000	41.4615	93.5856	-1054	QK	2.4	1	8.4	2	1.3	2	0.287	-1	1.804	-1	6.283	0	2045	46	0.7
47896.3	10000	41.4615	93.5848	-1053	QK	2.4	1	8.2	1	1.3	2	0.292	-1	1.786	-1	6.118	-1	2048	35	0.7
47896.2	10000	41.4615	93.5840	-1053	QK	2.6	1	8.1	1	1.3	2	0.317	0	1.924	-1	6.072	-1	2033	39	0.7
47896.1	10000	41.4615	93.5831	-1054	QK	2.4	1	7.9	1	1.3	2	0.307	-1	1.802	-1	5.878	-1	2031	39	0.7
47896.0	10000	41.4615	93.5823	-1053	QK	2.5	1	7.7	1	1.3	1	0.330	0	1.980	-1	5.995	-1	1993	33	0.7
47895.9	10000	41.4615	93.5815	-1053	QK	2.4	1	7.6	1	1.3	1	0.310	-1	1.852	-1	5.982	-1	1975	45	0.6
47895.8	10000	41.4615	93.5807	-1053	QK	2.0	1	7.4	1	1.3	1	0.267	-1	1.521	-2	5.705	-1	1966	51	0.6
47895.7	10000	41.4615	93.5799	-1053	QK	1.9	1	7.3	1	1.3	1	0.265	-1	1.538	-2	5.798	-1	1948	55	0.6
47895.6	10000	41.4615	93.5790	-1052	QK	2.0	1	7.9	1	1.3	1	0.256	-1	1.593	-1	6.232	0	1926	42	0.6
47895.5	10000	41.4615	93.5782	-1052	QK	2.0	1	8.0	1	1.3	1	0.252	-1	1.591	-1	6.321	0	1931	32	0.6
47895.4	10000	41.4615	93.5774	-1052	QK	2.5	1	7.7	1	1.2	1	0.327	0	2.029	-1	6.198	0	1913	54	0.6
47895.3	10000	41.4615	93.5766	-1053	QK	2.6	0	7.6	0	1.2	1	0.340	0	2.091	0	6.158	0	1924	41	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47895.2	10000	41.4615	93.5757	-1053	QK	2.8	1	7.4	0	1.2	1	0.377	0	2.247	0	5.965	-1	1940	44	0.6
47895.1	10000	41.4615	93.5749	-1052	QK	2.3	2	7.1	0	1.2	1	0.461	2	2.690	0	5.839	-1	1944	41	0.6
47895.0	10000	41.4615	93.5741	-1052	QK	3.2	2	7.3	0	1.3	1	0.448	1	2.537	-1	5.665	-1	1960	39	0.6
47894.9	10000	41.4615	93.5733	-1051	QK	3.1	1	7.4	0	1.3	2	0.424	1	2.373	0	5.596	-1	1974	57	0.6
47894.8	10000	41.4615	93.5725	-1051	QK	3.1	1	7.2	0	1.4	2	0.424	1	2.237	0	5.273	-2	1968	47	0.6
47894.7	10000	41.4615	93.5716	-1050	QK	2.9	1	7.5	0	1.4	2	0.387	0	2.128	0	5.501	-1	1968	43	0.6
47894.6	10000	41.4615	93.5708	-1050	QK	2.9	1	7.6	1	1.4	2	0.386	0	2.140	0	5.545	-1	1950	43	0.6
47894.5	10000	41.4615	93.5700	-1049	QK	2.9	1	7.6	1	1.4	2	0.383	0	2.087	0	5.445	-1	1933	42	0.6
47894.4	10000	41.4615	93.5692	-1049	QK	2.8	1	7.7	1	1.4	2	0.364	0	1.996	-1	5.481	-1	1930	42	0.6
47894.3	10000	41.4615	93.5684	-1048	QK	2.6	1	7.4	0	1.4	2	0.346	0	1.875	-1	5.421	-2	1927	36	0.6
47894.2	10000	41.4615	93.5675	-1047	QK	2.6	1	7.0	0	1.3	2	0.378	0	1.993	-1	5.279	-2	1908	48	0.6
47894.1	10000	41.4615	93.5667	-1046	QK	2.7	1	7.2	0	1.3	2	0.375	0	2.019	-1	5.378	-2	1915	55	0.6
47894.0	10000	41.4615	93.5659	-1044	QK	2.6	1	7.3	0	1.3	2	0.349	0	1.908	-1	5.472	-1	1929	52	0.6
47893.9	10000	41.4615	93.5651	-1041	QK	2.6	1	7.3	0	1.3	2	0.352	0	1.894	-1	5.383	-2	1944	42	0.6
47893.8	10000	41.4615	93.5643	-1040	QK	2.5	1	7.6	0	1.3	2	0.334	0	1.946	-1	5.834	-1	1951	40	0.6
47893.7	10000	41.4615	93.5634	-1039	QK	2.5	1	7.5	0	1.3	2	0.334	0	1.911	-1	5.717	-1	1944	49	0.6
47893.6	10000	41.4615	93.5626	-1038	QK	2.7	1	7.4	0	1.4	2	0.362	0	1.936	-1	5.347	-2	1949	52	0.6
47893.5	10000	41.4615	93.5618	-1036	QK	2.8	1	7.6	0	1.4	2	0.365	0	1.942	-1	5.325	-2	1962	42	0.6
47893.4	10000	41.4615	93.5610	-1035	QK	2.7	1	7.6	1	1.4	2	0.352	0	1.900	-1	5.403	-2	1963	44	0.6
47893.3	10000	41.4615	93.5602	-1034	QK	2.5	1	7.7	1	1.4	2	0.332	0	1.854	-1	5.579	-1	1959	32	0.6
47893.2	10000	41.4615	93.5593	-1031	QK	2.6	1	7.6	1	1.3	2	0.342	0	1.993	-1	5.831	-1	1963	35	0.6
47893.1	10000	41.4615	93.5585	-1029	QK	2.7	1	7.6	1	1.3	1	0.351	0	2.086	0	5.946	-1	1951	45	0.6
47893.0	10000	41.4615	93.5577	-1027	QK	2.6	1	7.8	1	1.2	1	0.332	0	2.086	0	6.286	0	1938	45	0.6
47892.9	10000	41.4615	93.5569	-1026	QK	2.5	1	8.0	1	1.1	0	0.317	0	2.250	0	7.099	1	1905	44	0.6
47892.8	10000	41.4615	93.5560	-1023	QK	2.7	1	7.8	1	1.1	-1	0.354	0	2.565	1	7.253	1	1905	51	0.6
47892.7	10000	41.4615	93.5552	-1021	QK	2.9	1	7.6	1	1.1	0	0.379	0	2.718	1	7.170	1	1889	48	0.6
47892.6	10000	41.4615	93.5544	-1019	QK	3.0	1	7.1	0	1.1	0	0.427	1	2.787	1	6.520	0	1892	36	0.6
47892.5	10000	41.4615	93.5536	-1016	QK	2.9	1	7.4	0	1.1	0	0.398	1	2.616	1	6.567	0	1903	35	0.6
47892.4	10000	41.4615	93.5527	-1013	QK	3.1	1	7.3	0	1.1	0	0.426	1	2.746	1	6.440	0	1907	42	0.7
47892.3	10000	41.4615	93.5519	-1011	QK	3.3	2	7.1	0	1.1	0	0.463	2	2.879	1	6.218	0	1915	45	0.7
47892.2	10000	41.4615	93.5511	-1008	QK	3.2	1	7.3	0	1.1	0	0.434	1	2.751	1	6.333	0	1916	37	0.7
47892.1	10000	41.4615	93.5503	-1006	QK	2.9	1	7.3	0	1.1	0	0.399	1	2.484	1	6.224	0	1908	45	0.7
47892.0	10000	41.4615	93.5495	-1002	QK	2.8	1	7.5	0	1.1	0	0.375	0	2.504	1	6.683	0	1919	42	0.7
47891.9	10000	41.4615	93.5486	-1000	QK	2.6	1	7.7	0	1.1	0	0.339	0	2.306	1	6.801	0	1910	46	0.7
47891.8	10000	41.4615	93.5478	-998	QK	2.7	1	7.5	0	1.1	0	0.362	0	2.377	1	6.573	0	1905	49	0.7
47891.7	10000	41.4615	93.5470	-995	QK	2.2	1	7.6	1	1.2	-1	0.292	-1	1.855	-1	6.351	0	1906	39	0.7
47891.6	10000	41.4615	93.5462	-993	QK	2.4	1	8.1	1	1.2	-1	0.296	-1	1.981	-1	6.694	0	1925	41	0.7
47891.5	10000	41.4615	93.5454	-991	QK	2.3	1	7.7	1	1.2	-1	0.305	-1	1.914	-1	6.281	0	1938	48	0.7
47891.4	10000	41.4615	93.5445	-988	QK	2.3	1	8.2	1	1.3	-1	0.280	-1	1.833	-1	6.551	0	1942	44	0.7
47891.3	10000	41.4615	93.5437	-987	QK	2.3	1	7.6	1	1.3	-1	0.306	-1	1.832	-1	5.993	-1	1936	42	0.8
47891.2	10000	41.4615	93.5429	-984	QK	2.5	1	8.1	1	1.3	0	0.354	0	2.171	0	6.127	-1	1939	40	0.8
47891.1	10000	41.4615	93.5421	-982	QK	2.6	1	8.2	1	1.3	-1	0.304	-1	1.935	-1	6.369	0	1946	41	0.8
47891.0	10000	41.4615	93.5413	-981	QK	2.6	1	8.2	1	1.3	0	0.315	0	2.151	0	6.820	0	1951	44	0.8
47890.9	10000	41.4615	93.5404	-979	QK	2.2	1	8.5	1	1.2	-1	0.265	-1	1.831	-1	6.919	1	1950	46	0.8
47890.8	10000	41.4615	93.5396	-977	QK	2.4	1	8.7	1	1.2	-1	0.276	-1	1.989	-1	7.218	1	1964	43	0.8
47890.7	10000	41.4615	93.5388	-974	QK	2.8	1	8.2	1	1.2	0	0.341	0	2.348	0	6.880	1	1978	41	0.8
47890.6	10000	41.4615	93.5380	-972	QK	2.9	1	8.4	1	1.2	0	0.339	0	2.347	0	6.913	1	1991	47	0.8
47890.5	10000	41.4615	93.5372	-970	QK	2.6	1	8.3	1	1.2	-1	0.305	-1	2.160	0	7.075	1	1995	40	0.8
47890.4	10000	41.4615	93.5363	-967	QK	2.7	1	8.3	1	1.2	0	0.325	0	2.138	0	6.572	0	2001	43	0.8
47890.3	10000	41.4615	93.5355	-964	QK	2.8	1	8.0	1	1.2	0	0.351	0	2.189	0	6.235	0	2023	51	0.8
47890.2	10000	41.4615	93.5347	-964	QK	2.9	1	7.7	1	1.3	0	0.383	0	2.336	0	6.099	-1	2019	44	0.8
47890.1	10000	41.4615	93.5339	-969	QK	3.0	1	7.9	1	1.3	2	0.379	0	2.287	0	6.039	-1	2019	35	0.8

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47890.0	10000	41.4615	93.5331	-975	QK	2.6	0	7.5	0	1.3	1	0.345	0	1.991	-1	5.767	-1	2016	47	0.8
47889.9	10000	41.4615	93.5322	-973	QK	2.4	0	8.0	1	1.3	1	0.301	-1	1.874	-1	6.222	0	2024	41	0.8
47889.8	10000	41.4615	93.5314	-970	QK	2.3	0	8.0	1	1.3	2	0.289	-1	1.729	-1	5.986	-1	2029	47	0.8
47889.7	10000	41.4615	93.5306	-965	QK	2.7	0	7.4	0	1.2	1	0.366	0	2.222	0	6.070	-1	2020	40	0.8
47889.6	10000	41.4615	93.5298	-961	QK	3.0	1	7.9	1	1.2	1	0.379	0	2.456	0	6.486	0	2033	54	0.9
47889.5	10000	41.4615	93.5289	-958	QK	3.2	1	7.9	1	1.2	1	0.406	1	2.566	1	6.313	0	2064	48	0.9
47889.4	10000	41.4615	93.5281	-954	QAL	3.4	2	7.5	1	1.2	1	0.456	1	2.818	1	6.180	0	2089	31	0.9
47889.3	10000	41.4615	93.5273	-951	QAL	3.7	2	7.7	1	1.2	1	0.476	1	3.020	1	6.349	0	2102	23	0.9
47889.2	10000	41.4615	93.5265	-948	QAL	3.8	3	7.4	1	1.2	1	0.517	2	3.247	2	6.277	0	2094	41	0.9
47889.1	10000	41.4615	93.5257	-944	QAL	4.0	3	7.4	1	1.1	0	0.544	2	3.531	2	6.494	0	2086	51	0.9
47889.0	10000	41.4615	93.5248	-940	QAL	3.8	2	7.7	1	1.2	1	0.489	1	3.141	2	6.424	0	2100	59	0.9
47888.9	10000	41.4615	93.5240	-936	QAL	3.5	2	7.0	1	1.2	1	0.508	1	2.865	1	5.643	-1	2076	47	0.9
47888.8	10000	41.4615	93.5232	-932	QAL	3.5	2	6.9	1	1.2	1	0.502	1	2.772	1	5.522	-1	2048	38	0.9
47888.7	10000	41.4615	93.5224	-928	QAL	3.3	2	6.9	1	1.3	1	0.473	1	2.586	1	5.462	-1	2001	42	0.9
47888.6	10000	41.4615	93.5215	-924	QAL	3.5	2	7.0	0	1.2	1	0.501	1	2.912	1	5.814	0	1969	39	0.9
47888.5	10000	41.4615	93.5207	-920	QAL	3.5	2	7.3	1	1.2	1	0.488	1	2.912	1	5.970	0	1968	31	0.9
47888.4	10000	41.4615	93.5199	-915	QAL	3.3	2	8.1	1	1.2	1	0.412	0	2.720	1	6.605	1	1974	39	0.9
47888.3	10000	41.4615	93.5191	-911	QAL	3.3	2	8.2	2	1.2	1	0.405	0	2.762	1	6.820	1	1962	42	0.9
47888.2	10000	41.4615	93.5183	-906	QAL	3.4	2	8.5	2	1.2	1	0.402	0	2.959	1	7.363	2	1965	41	0.9
47888.1	10000	41.4615	93.5174	-901	QAL	3.4	2	8.6	2	1.1	0	0.397	0	3.075	1	7.753	2	1954	40	0.9
47888.0	10000	41.4615	93.5166	-897	QAL	3.4	2	8.4	2	1.1	0	0.409	0	3.137	2	7.666	2	1972	43	0.9
47887.9	10000	41.4615	93.5158	-893	QAL	3.2	1	8.6	2	1.1	0	0.369	0	2.805	1	7.606	2	1993	42	0.9
47887.8	10000	41.4615	93.5150	-888	QAL	3.2	1	8.5	2	1.1	0	0.373	0	2.785	1	7.471	2	1977	37	0.9
47887.7	10000	41.4615	93.5142	-883	QAL	3.1	1	7.5	1	1.1	0	0.414	1	2.760	1	6.664	1	1976	39	0.9
47887.6	10000	41.4615	93.5133	-877	QAL	3.3	2	7.4	1	1.1	0	0.441	1	2.978	1	6.748	1	1970	40	0.9
47887.5	10000	41.4615	93.5125	-871	QAL	3.2	1	7.6	1	1.1	0	0.418	0	2.909	1	6.963	1	1947	49	0.9
47887.4	10000	41.4615	93.5117	-866	QAL	3.1	1	7.7	1	1.1	0	0.404	0	2.836	1	7.028	1	1950	39	0.9
47887.3	10000	41.4615	93.5109	-860	QAL	3.0	1	8.0	1	1.1	0	0.370	0	2.714	1	7.336	2	1929	43	0.9
47887.2	10000	41.4615	93.5101	-854	QAL	3.0	1	8.0	1	1.1	0	0.373	0	2.730	1	7.312	2	1915	38	0.9
47887.1	10000	41.4615	93.5092	-847	QAL	2.9	1	7.6	1	1.1	0	0.386	0	2.623	1	6.792	1	1907	67	0.9
47887.0	10000	41.4615	93.5084	-841	QAL	2.9	1	7.5	1	1.1	0	0.383	0	2.578	1	6.736	1	1881	45	0.9
47886.9	10000	41.4615	93.5076	-833	QAL	2.6	1	7.2	1	1.1	0	0.357	0	2.268	1	6.352	0	1844	39	1.0
47886.8	10000	41.4615	93.5068	-825	QAL	2.8	1	6.8	0	1.1	0	0.406	0	2.536	1	6.249	0	1828	46	1.0
47886.7	10000	41.4615	93.5060	-817	QAL	2.6	1	6.4	0	1.1	0	0.408	0	2.421	1	5.933	0	1796	40	1.0
47886.6	10000	41.4615	93.5051	-809	QAL	2.7	1	6.4	0	1.1	0	0.424	0	2.554	1	6.031	0	1814	49	1.0
47886.5	10000	41.4615	93.5043	-800	QAL	2.7	1	6.3	0	1.1	0	0.424	0	2.503	1	5.905	0	1819	30	1.0
47886.4	10000	41.4615	93.5035	-791	QAL	2.3	1	6.3	0	1.1	0	0.373	0	2.156	1	5.773	0	1832	48	1.0
47886.3	10000	41.4615	93.5027	-781	QAL	2.3	1	6.5	0	1.1	0	0.347	0	2.054	1	5.912	0	1854	38	1.0
47886.2	10000	41.4615	93.5018	-772	QAL	2.5	1	7.1	1	1.2	1	0.344	0	2.046	1	5.952	0	1893	37	1.0
47886.1	10000	41.4615	93.5010	-761	QAL	2.3	1	7.4	1	1.3	1	0.309	-1	1.804	-1	5.842	0	1935	40	1.0
47886.0	10000	41.4615	93.5002	-751	QAL	2.7	1	7.4	1	1.2	1	0.359	0	2.133	0	5.942	0	1973	47	1.0
47885.9	10000	41.4615	93.4994	-740	QAL	2.7	1	7.6	1	1.3	1	0.351	0	2.023	-1	5.766	0	1984	44	1.0
47885.8	10000	41.4615	93.4986	-729	QAL	2.6	1	7.6	1	1.4	1	0.350	0	1.955	-1	5.590	-1	2010	49	1.0
47885.7	10000	41.4615	93.4977	-718	QAL	3.1	1	8.2	2	1.3	1	0.381	0	2.337	0	6.135	0	2026	42	1.0
47885.6	10000	41.4615	93.4969	-707	QAL	3.1	1	7.8	1	1.3	1	0.399	0	2.371	0	5.937	0	2041	47	1.0
47885.5	10000	41.4615	93.4961	-697	QAL	3.0	1	7.9	1	1.2	1	0.378	0	2.456	1	6.489	0	2051	43	1.0
47885.4	10000	41.4615	93.4953	-686	QAL	2.9	1	8.2	2	1.2	1	0.359	0	2.392	1	6.662	1	2058	52	1.0
47885.3	10000	41.4615	93.4944	-676	QAL	2.9	1	8.5	2	1.3	1	0.339	0	2.292	1	6.771	1	2076	52	1.0
47885.2	10000	41.4615	93.4936	-665	QAL	2.8	1	8.4	2	1.2	1	0.335	-1	2.322	1	6.922	1	2073	42	1.0
47885.1	10000	41.4615	93.4928	-653	QAL	2.7	1	8.8	2	1.2	1	0.303	-1	2.225	1	7.334	2	2070	46	1.0
47885.0	10000	41.4615	93.4920	-642	QK	2.7	1	8.4	2	1.2	1	0.316	0	2.248	1	7.109	1	2061	44	1.0
47884.9	10000	41.4615	93.4912	-630	QK	3.1	1	8.5	2	1.2	0	0.364	0	2.642	1	7.259	1	2055	43	1.0

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47884.8	10000	41.4615	93.4903	-617	QK	3.3	2	8.1	1	1.2	1	0.404	1	2.689	1	6.655	0	2036	39	1.0
47884.7	10000	41.4615	93.4895	-604	QK	3.2	1	7.5	0	1.2	1	0.422	1	2.615	1	6.200	0	2019	38	1.0
47884.6	10000	41.4615	93.4887	-593	QK	3.2	1	7.7	1	1.3	1	0.363	0	2.196	0	6.054	-1	2002	44	1.0
47884.5	10000	41.4615	93.4879	-581	QK	3.2	1	7.6	1	1.3	1	0.417	1	2.460	0	5.898	-1	2005	44	1.0
47884.4	10000	41.4615	93.4871	-569	QK	3.3	2	7.2	1	1.2	1	0.457	1	2.664	1	5.833	-1	1977	36	1.0
47884.3	10000	41.4615	93.4862	-558	QK	3.2	1	7.0	0	1.3	1	0.464	2	2.515	1	5.416	-2	1960	36	1.0
47884.2	10000	41.4615	93.4854	-547	QK	3.2	1	6.8	-1	1.3	2	0.478	2	2.461	2	5.150	-2	1982	35	1.0
47884.1	10000	41.4615	93.4846	-537	QK	3.3	2	6.9	0	1.3	1	0.476	2	2.572	1	5.401	-2	2000	40	1.0
47884.0	10000	41.4615	93.4838	-527	QK	3.4	2	7.0	0	1.2	1	0.486	2	2.80[illegible]	1	5.769	-1	2011	49	1.0
47883.9	10000	41.4615	93.4829	-517	QK	3.9	3	6.9	0	1.2	1	0.563	3	3.27[illegible]	2	5.820	-1	2001	51	1.0
47883.8	10000	41.4615	93.4821	-508	QK	3.4	2	6.5	-1	1.1	0	0.522	2	2.949	1	5.652	-1	1974	51	1.0
47883.7	10000	41.4616	93.4813	-499	QK	3.0	1	6.5	-1	1.2	0	0.455	1	2.511	1	5.523	-1	1973	40	1.0
47883.6	10000	41.4616	93.4805	-495	QK	2.9	1	6.6	-1	1.2	1	0.437	1	2.432	1	5.561	-1	1992	37	1.1
47883.5	10000	41.4616	93.4796	-486	QK	2.8	1	7.0	0	1.2	1	0.397	1	2.250	0	5.673	-1	1984	49	1.1
47883.4	10000	41.4616	93.4788	-480	QK	2.8	1	7.3	0	1.2	1	0.394	1	2.304	0	5.848	-1	1992	47	1.1
47883.3	10000	41.4616	93.4780	-475	QK	2.[illegible]	1	7.0	0	1.3	2	0.406	1	2.132	0	5.247	-2	2007	42	1.1
47883.2	10000	41.4616	93.4772	-470	QK	2.5	1	6.9	0	1.3	2	0.360	0	1.845	-1	5.130	-2	2042	36	1.1
47883.1	10000	41.4616	93.4763	-466	QK	2.6	1	7.5	0	1.4	2	0.348	0	1.910	-1	5.488	-1	2072	42	1.1
47883.0	10000	41.4617	93.4755	-463	QK	2.8	1	7.6	0	1.4	2	0.365	0	2.015	-1	5.527	-1	2080	35	1.1
47882.9	10000	41.4617	93.4747	-459	QK	3.0	1	7.8	1	1.4	2	0.387	1	2.226	0	5.750	-1	2102	47	1.1
47882.8	10000	41.4617	93.4738	-457	QK	3.1	1	7.5	0	1.3	1	0.408	1	2.366	0	5.800	-1	2090	35	1.1
47882.7	10000	41.4617	93.4730	-455	QK	2.8	1	7.6	0	1.3	1	0.376	0	2.240	0	5.954	-1	2079	28	1.1
47882.6	10000	41.4617	93.4722	-453	QK	2.9	1	8.0	1	1.2	1	0.366	0	2.425	0	6.632	0	2072	47	1.1
47882.5	10000	41.4617	93.4714	-452	QK	3.1	1	8.2	1	1.2	1	0.377	0	2.566	1	6.805	0	2061	56	1.1
47882.4	10000	41.4617	93.4706	-452	QK	3.2	1	7.8	1	1.2	1	0.409	1	2.719	1	6.649	0	2054	36	1.1
47882.3	10000	41.4618	93.4697	-456	QK	3.3	2	7.7	1	1.2	1	0.427	1	2.686	1	6.291	0	2051	45	1.1
47882.2	10000	41.4618	93.4689	-454	QK	3.0	1	7.7	1	1.2	1	0.393	1	2.552	1	6.486	0	2011	40	1.1
47882.1	10000	41.4618	93.4681	-457	QK	3.0	1	7.8	1	1.2	1	0.383	0	2.542	1	6.636	0	2019	48	1.1
47882.0	10000	41.4618	93.4672	-459	QK	2.9	1	7.6	1	1.2	1	0.379	0	2.447	1	6.451	0	2005	51	1.1
47881.9	10000	41.4618	93.4664	-460	QK	2.6	1	7.5	0	1.2	1	0.344	0	2.184	0	6.349	0	1994	48	1.1
47881.8	10000	41.4618	93.4656	-463	QK	2.6	1	7.2	0	1.2	1	0.364	0	2.191	0	6.021	-1	1999	37	1.1
47881.7	10000	41.4619	93.4648	-467	QK	2.6	1	7.2	0	1.2	1	0.356	0	2.103	0	5.904	-1	1995	43	1.2
47881.6	10000	41.4619	93.4639	-470	QK	2.6	1	7.5	0	1.2	1	0.345	0	2.194	0	6.362	0	2013	50	1.2
47881.5	10000	41.4619	93.4631	-474	QK	2.6	1	7.3	0	1.2	1	0.352	0	2.203	0	6.263	0	2037	38	1.2
47881.4	10000	41.4619	93.4623	-477	QK	2.[illegible]6	1	7.8	1	1.2	1	0.336	0	2.191	0	6.527	0	2019	41	1.2
47881.3	10000	41.4619	93.4615	-480	QK	2.[illegible]	1	7.7	1	1.2	1	0.353	0	2.221	0	6.293	0	2018	46	1.2
47881.2	10000	41.4619	93.4606	-483	QK	2.[illegible]	1	7.7	1	1.3	1	0.358	0	2.154	0	6.013	-1	2022	44	1.2
47881.1	10000	41.4619	93.4598	-488	QK	2.5	1	8.0	1	1.2	1	0.320	0	2.085	0	6.516	0	1991	43	1.2
47881.0	10000	41.4620	93.4590	-492	QK	2.4	1	8.8	2	1.2	1	0.278	-1	2.005	-1	7.222	1	1993	51	1.2
47880.9	10000	41.4620	93.4582	-496	QK	2.4	1	8.6	2	1.2	1	0.276	-1	1.907	-1	6.918	1	1983	42	1.2
47880.8	10000	41.4620	93.4573	-500	QK	2.4	1	8.6	2	1.3	1	0.275	-1	1.891	-1	6.872	1	1983	39	1.2
47880.7	10000	41.4620	93.4565	-504	QK	2.2	1	8.5	2	1.3	1	0.257	-1	1.730	-1	6.733	0	1992	42	1.2
47880.6	10000	41.4620	93.4557	-508	QK	2.1	-1	9.1	3	1.3	1	0.229	-2	1.668	-1	7.279	1	2017	34	1.2
47880.5	10000	41.4620	93.4548	-512	QK	2.2	-1	9.1	3	1.3	1	0.243	-1	1.883	-1	7.736	2	2019	38	1.2
47880.4	10000	41.4621	93.4540	-517	QK	2.2	-1	9.2	3	1.2	1	0.245	-1	1.856	-1	7.578	2	2026	34	1.2
47880.3	10000	41.4621	93.4532	-521	QK	2.3	0	8.6	2	1.2	1	0.267	-1	1.872	-1	7.003	1	2008	42	1.2
47880.2	10000	41.4621	93.4524	-526	QK	2.5	0	8.6	2	1.2	1	0.284	-1	2.109	0	7.429	1	1998	49	1.3
47880.1	10000	41.4621	93.4515	-531	QK	2.5	0	8.6	2	1.1	1	0.295	-1	2.314	0	7.839	2	1988	45	1.3
47880.0	10000	41.4621	93.4507	-536	QK	2.8	1	8.2	2	1.1	1	0.343	0	2.589	1	7.549	2	1969	51	1.3
47879.9	10000	41.4621	93.4499	-541	QK	3.1	1	7.7	1	1.1	1	0.396	1	2.788	1	7.045	1	1941	41	1.3
47879.8	10000	41.4621	93.4491	-546	QK	3.1	1	7.3	1	1.1	1	0.419	1	2.762	1	6.596	0	1943	42	1.3
47879.7	10000	41.4622	93.4482	-550	QK	3.2	1	7.1	0	1.2	0	0.446	1	2.700	1	6.055	-1	1961	42	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47879.6	10000	41.4622	93.4474	-555	QK	3.2	1	7.3	0	1.2	1	0.442	1	2.718	1	6.145	0	1988	33	1.3
47879.5	10000	41.4622	93.4466	-560	QK	3.1	1	7.1	0	1.2	1	0.429	1	2.568	1	5.991	-1	1989	41	1.3
47879.4	10000	41.4622	93.4458	-565	QK	2.9	1	7.1	0	1.3	1	0.404	1	2.299	0	5.697	-1	2006	41	1.3
47879.3	10000	41.4622	93.4449	-570	QK	2.4	0	7.3	0	1.3	1	0.332	0	1.889	-1	5.696	-1	2014	39	1.3
47879.2	10000	41.4622	93.4441	-575	QK	2.2	-1	7.4	0	1.3	2	0.296	-1	1.633	-1	5.511	-1	2026	50	1.3
47879.1	10000	41.4623	93.4433	-579	QK	2.0	-1	7.7	1	1.3	2	0.256	-1	1.498	-2	5.856	-1	2019	41	1.3
47879.0	10000	41.4623	93.4425	-584	QK	2.0	-1	7.8	1	1.3	1	0.261	-1	1.573	-1	6.035	-1	2025	42	1.3
47878.9	10000	41.4623	93.4416	-588	QK	2.0	-1	7.6	0	1.3	1	0.262	-1	1.540	-2	5.869	-1	2023	44	1.3
47878.8	10000	41.4623	93.4408	-592	QK	2.2	-1	7.9	1	1.3	2	0.281	-1	1.679	-1	5.982	-1	2047	45	1.3
47878.7	10000	41.4623	93.4400	-595	QK	2.3	0	8.1	1	1.3	2	0.289	-1	1.780	-1	6.150	0	2041	44	1.3
47878.6	10000	41.4623	93.4391	-599	QK	2.5	0	8.2	1	1.2	1	0.301	-1	1.985	-1	6.589	0	2045	41	1.3
47878.5	10000	41.4623	93.4383	-602	QK	2.5	0	8.2	1	1.2	1	0.305	-1	2.094	0	6.866	1	2034	40	1.3
47878.4	10000	41.4624	93.4375	-606	QK	2.9	1	8.5	2	1.2	1	0.335	0	2.334	0	6.966	1	2042	43	1.3
47878.3	10000	41.4624	93.4367	-609	QK	2.6	0	8.2	1	1.2	1	0.311	-1	2.156	0	6.940	1	2037	46	1.3
47878.2	10000	41.4624	93.4358	-611	QK	2.4	0	8.7	2	1.2	1	0.280	-1	2.037	0	7.285	1	2031	50	1.4
47878.1	10000	41.4624	93.4350	-614	QK	2.5	0	8.5	2	1.2	1	0.291	-1	2.004	-1	6.878	1	2014	36	1.4
47878.0	10000	41.4624	93.4342	-617	QK	2.2	-1	8.2	1	1.2	1	0.274	-1	1.867	-1	6.810	0	1998	39	1.4
47877.9	10000	41.4624	93.4334	-619	QK	2.4	0	8.2	1	1.2	1	0.290	-1	1.926	-1	6.650	0	2001	35	1.4
47877.8	10000	41.4625	93.4325	-621	QK	2.5	0	8.2	1	1.2	1	0.306	-1	2.063	0	6.748	0	2001	48	1.4
47877.7	10000	41.4625	93.4317	-623	QK	2.4	0	7.6	0	1.2	1	0.315	-1	2.002	-1	6.359	0	1979	43	1.4
47877.6	10000	41.4625	93.4309	-625	QK	2.5	0	7.6	0	1.2	1	0.337	0	2.143	0	6.366	0	1973	39	1.4
47877.5	10000	41.4625	93.4301	-627	QK	2.6	0	7.4	0	1.2	1	0.353	0	2.112	0	5.988	-1	1963	49	1.4
47877.4	10000	41.4625	93.4292	-629	QK	2.3	0	7.6	1	1.2	1	0.309	-1	1.958	-1	6.346	0	1955	32	1.4
47877.3	10000	41.4625	93.4284	-630	QK	2.3	0	7.6	1	1.2	1	0.304	-1	1.985	-1	6.524	0	1945	41	1.4
47877.2	10000	41.4625	93.4276	-632	QK	2.2	-1	7.6	1	1.1	0	0.286	-1	1.942	-1	6.781	0	1921	45	1.4
47877.1	10000	41.4626	93.4268	-634	QK	2.2	-1	7.3	0	1.1	0	0.298	-1	2.012	-1	6.760	0	1911	51	1.4
47877.0	10000	41.4626	93.4259	-635	QK	1.9	-1	7.6	1	1.0	-1	0.255	-1	1.919	-1	7.538	1	1893	40	1.4
47876.9	10000	41.4626	93.4251	-637	QK	2.1	-1	7.5	1	1.0	-1	0.276	-1	2.063	0	7.483	1	1882	37	1.4
47876.8	10000	41.4626	93.4243	-639	QK	2.2	-1	7.9	1	0.9	-2	0.312	-1	2.377	0	7.617	2	1869	38	1.4
47876.7	10000	41.4626	93.4234	-640	QK	2.1	-1	7.9	1	0.9	-2	0.299	-1	2.390	0	8.000	2	1834	30	1.4
47876.6	10000	41.4626	93.4226	-642	QK	2.1	-1	7.9	1	0.9	-2	0.298	-1	2.216	0	7.429	1	1826	34	1.4
47876.5	10000	41.4626	93.4218	-645	QK	1.9	-1	6.7	-1	1.0	-1	0.291	-1	2.008	-1	6.905	1	1835	43	1.4
47876.4	10000	41.4627	93.4210	-648	QK	1.8	-1	7.1	0	1.0	-1	0.260	-1	1.812	-1	6.982	1	1860	52	1.4
47876.3	10000	41.4627	93.4201	-650	QK	2.0	-1	6.9	0	1.1	0	0.292	-1	1.834	-1	6.285	0	1900	48	1.4
47876.2	10000	41.4627	93.4193	-653	QK	2.0	-1	7.2	0	1.1	0	0.279	-1	1.798	-1	6.438	0	1925	57	1.4
47876.1	10000	41.4627	93.4185	-656	QK	2.0	-1	7.8	1	1.1	0	0.256	-1	1.760	-1	6.874	1	1958	53	1.4
47876.0	10000	41.4627	93.4177	-659	QK	2.3	-1	7.5	0	1.2	1	0.301	-1	1.892	-1	6.292	0	2023	38	1.4
47875.9	10000	41.4627	93.4168	-662	QK	2.2	-1	7.5	0	1.2	1	0.293	-1	1.808	-1	6.172	0	2049	55	1.4
47875.8	10000	41.4627	93.4160	-665	QK	2.5	0	7.3	0	1.2	1	0.345	0	2.062	0	5.979	-1	2060	46	1.3
47875.7	10000	41.4628	93.4152	-669	QK	2.7	0	6.9	0	1.2	1	0.392	1	2.198	0	5.608	-1	2062	39	1.3
47875.6	10000	41.4628	93.4144	-673	QK	3.0	1	7.1	0	1.2	1	0.428	1	2.418	0	5.653	-1	2075	41	1.3
47875.5	10000	41.4628	93.4135	-677	QK	3.1	1	7.0	0	1.2	1	0.437	1	2.513	1	5.749	-1	2090	34	1.3
47875.4	10000	41.4628	93.4127	-682	QK	3.3	2	6.8	-1	1.2	1	0.481	2	2.631	1	5.473	-1	2097	37	1.3
47875.3	10000	41.4628	93.4119	-686	QK	3.4	2	6.6	-1	1.2	1	0.518	2	2.832	1	5.465	-1	2109	43	1.3
47875.2	10000	41.4628	93.4111	-691	QK	4.0	3	6.9	0	1.1	0	0.580	3	3.542	3	6.111	-1	2137	43	1.3
47875.1	10000	41.4628	93.4102	-696	QK	4.2	4	7.0	0	1.1	0	0.603	3	3.830	3	6.351	0	2159	52	1.3
47875.0	10000	41.4629	93.4094	-701	QK	4.3	4	7.1	0	1.1	0	0.616	4	3.964	4	6.438	0	2180	35	1.3
47874.9	10000	41.4629	93.4086	-707	QK	4.2	3	7.0	0	1.2	0	0.597	3	3.625	3	6.071	-1	2193	33	1.3
47874.8	10000	41.4629	93.4077	-714	QK	4.1	3	7.1	0	1.2	1	0.582	3	3.378	2	5.801	-1	2177	47	1.3
47874.7	10000	41.4629	93.4069	-720	QK	3.9	3	7.2	0	1.2	1	0.547	3	3.228	2	5.897	-1	2158	38	1.3
47874.6	10000	41.4629	93.4061	-727	QK	3.7	2	7.1	0	1.2	1	0.517	2	2.978	2	5.757	-1	2126	45	1.3
47874.5	10000	41.4629	93.4053	-733	CULTRL	3.6	999	6.5	999	1.2	999	0.555	999	2.942	999	5.300	999	2107	39	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47874.4	10000	41.4630	93.4044	-739	CULTRL	3.4	999	6.3	999	1.2	999	0.542	999	2.762	999	5.093	999	2076	46	1.3
47874.3	10000	41.4630	93.4036	-746	CULTRL	3.1	999	6.9	999	1.2	999	0.452	999	2.490	999	5.507	999	2041	41	1.3
47874.2	10000	41.4630	93.4028	-750	CULTRL	3.1	999	6.5	999	1.2	999	0.482	999	2.590	999	5.369	999	1982	36	1.2
47874.1	10000	41.4630	93.4020	-753	CULTRL	2.9	999	6.2	999	1.2	999	0.471	999	2.528	999	5.368	999	1943	35	1.2
47874.0	10000	41.4630	93.4011	-755	CULTRL	3.1	999	5.7	999	1.2	999	0.533	999	2.610	999	4.901	999	1920	31	1.2
47873.9	10000	41.4630	93.4003	-764	CULTRL	2.9	999	5.9	999	1.2	999	0.498	999	2.524	999	5.073	999	1909	40	1.2
47873.8	10000	41.4630	93.3995	-773	CULTRL	2.8	999	5.9	999	1.2	999	0.472	999	2.406	999	5.102	999	1894	40	1.2
47873.7	10000	41.4631	93.3987	-780	CULTRL	2.9	999	6.2	999	1.2	999	0.464	999	2.449	999	5.279	999	1905	41	1.2
47873.6	10000	41.4631	93.3978	-786	CULTRL	2.9	999	5.5	999	1.1	999	0.534	999	2.621	999	4.911	999	1895	46	1.2
47873.5	10000	41.4631	93.3970	-791	CULTRL	2.7	999	6.0	999	1.1	999	0.451	999	2.430	999	5.385	999	1908	36	1.2
47873.4	10000	41.4631	93.3962	-796	CULTRL	2.5	999	6.2	999	1.1	999	0.406	999	2.183	999	5.384	999	1933	39	1.2
47873.3	10000	41.4631	93.3954	-802	CULTRL	2.4	999	6.7	999	1.2	999	0.355	999	2.004	999	5.648	999	1949	48	1.2
47873.2	10000	41.4631	93.3945	-806	QK	2.4	0	6.8	-1	1.2	1	0.351	0	1.959	-1	5.585	-1	1956	45	1.2
47873.1	10000	41.4631	93.3937	-813	QK	2.6	0	6.8	-1	1.2	1	0.379	0	2.130	0	5.619	-1	1979	39	1.1
47873.0	10000	41.4632	93.3929	-820	QK	2.7	0	7.1	0	1.2	1	0.379	0	2.257	0	5.963	-1	2010	43	1.1
47872.9	10000	41.4632	93.3920	-825	QK	2.9	1	7.6	0	1.3	1	0.376	0	2.268	0	6.033	-1	2041	46	1.1
47872.8	10000	41.4632	93.3912	-829	QK	3.0	1	7.4	0	1.3	1	0.399	1	2.290	0	5.747	-1	2063	51	1.1
47872.7	10000	41.4632	93.3904	-833	QK	3.4	2	7.3	0	1.3	1	0.472	2	2.724	1	5.765	-1	2077	38	1.1
47872.6	10000	41.4632	93.3896	-837	QK	3.8	3	7.1	0	1.2	1	0.533	3	3.068	2	5.756	-1	2100	40	1.1
47872.5	10000	41.4632	93.3887	-841	QK	4.0	3	7.0	0	1.2	1	0.565	3	3.299	2	5.844	-1	2119	34	1.1
47872.4	10000	41.4632	93.3879	-844	QK	3.9	3	7.2	0	1.2	1	0.536	3	3.181	2	5.930	-1	2102	38	1.1
47872.3	10000	41.4633	93.3871	-846	QK	3.8	3	7.1	0	1.2	1	0.542	3	3.112	2	5.744	-1	2086	51	1.1
47872.2	10000	41.4633	93.3863	-849	QK	3.9	3	6.8	-1	1.2	1	0.570	3	3.183	2	5.586	-1	2098	55	1.1
47872.1	10000	41.4633	93.3854	-851	QK	3.9	3	7.1	0	1.2	1	0.552	3	3.308	2	5.991	-1	2092	43	1.0
47872.0	10000	41.4633	93.3846	-854	QK	3.6	2	7.3	0	1.2	1	0.498	2	2.979	2	5.985	-1	2094	38	1.0
47871.9	10000	41.4633	93.3838	-856	QK	3.3	2	7.1	0	1.2	1	0.466	2	2.759	1	5.921	-1	2091	37	1.0
47871.8	10000	41.4633	93.3829	-859	QK	3.4	2	7.7	1	1.2	1	0.442	1	2.827	1	6.402	0	2080	48	1.0
47871.7	10000	41.4634	93.3821	-860	QK	3.2	1	7.8	1	1.2	1	0.412	1	2.629	1	6.374	0	2104	51	1.0
47871.6	10000	41.4634	93.3813	-863	QK	3.2	1	7.9	1	1.2	1	0.405	1	2.574	1	6.360	0	2109	37	1.0
47871.5	10000	41.4634	93.3805	-866	QK	3.2	1	8.4	2	1.3	1	0.379	1	2.536	1	6.694	0	2116	49	1.0
47871.4	10000	41.4634	93.3797	-869	QK	3.0	1	8.4	2	1.3	1	0.361	1	2.330	1	6.452	0	2120	49	1.0
47871.3	10000	41.4634	93.3788	-868	QK	3.1	1	8.5	2	1.3	1	0.367	1	2.445	1	6.663	0	2123	41	1.0
47871.2	10000	41.4634	93.3780	-870	QK	3.2	1	8.8	2	1.3	1	0.362	1	2.498	1	6.903	1	2106	37	0.9
47871.1	10000	41.4634	93.3772	-872	QK	3.1	1	8.2	2	1.3	1	0.375	1	2.510	1	6.686	0	2102	42	0.9
47871.0	10000	41.4635	93.3763	-869	QK	3.1	1	8.4	2	1.3	1	0.371	1	2.468	1	6.643	0	2103	50	0.9
47870.9	10000	41.4635	93.3755	-872	QK	3.1	1	8.2	2	1.3	1	0.374	1	2.457	1	6.570	0	2104	39	0.9
47870.8	10000	41.4635	93.3747	-872	QK	3.1	1	8.0	2	1.3	1	0.389	1	2.519	1	6.482	0	2088	43	0.9
47870.7	10000	41.4635	93.3739	-870	QK	3.4	2	7.7	2	1.3	1	0.444	2	2.825	1	6.357	0	2111	32	0.9
47870.6	10000	41.4635	93.3730	-871	QK	3.5	2	7.5	2	1.3	1	0.462	2	2.867	1	6.208	0	2116	43	0.9
47870.5	10000	41.4635	93.3722	-871	QK	3.6	2	7.6	2	1.3	1	0.472	2	2.884	1	6.112	-1	2132	39	0.9
47870.4	10000	41.4635	93.3714	-872	QK	3.6	2	7.6	2	1.3	1	0.470	2	2.777	1	5.909	-1	2131	47	0.9
47870.3	10000	41.4636	93.3706	-870	QK	3.7	2	7.3	2	1.3	1	0.505	2	2.896	1	5.735	-1	2114	34	0.9
47870.2	10000	41.4636	93.3697	-869	QK	3.7	2	7.1	2	1.3	1	0.518	2	2.817	1	5.437	-1	2098	42	0.8
47870.1	10000	41.4636	93.3689	-868	QK	3.6	2	7.0	2	1.3	1	0.523	2	2.824	1	5.403	-2	2081	42	0.8
47870.0	10000	41.4635	93.3681	-867	QK	3.6	2	7.0	2	1.3	1	0.506	2	2.769	1	5.477	-1	2059	33	0.8
47869.9	10000	41.4635	93.3673	-866	QK	3.4	2	6.6	1	1.3	1	0.523	2	2.671	1	5.110	-2	2062	31	0.8
47869.8	10000	41.4635	93.3665	-865	QK	3.5	2	6.6	1	1.3	1	0.553	3	2.673	1	4.837	-2	2063	48	0.8
47869.7	10000	41.4635	93.3657	-863	QK	3.6	2	6.4	1	1.3	1	0.572	3	2.830	1	4.950	-2	2059	41	0.8
47869.6	10000	41.4635	93.3649	-861	QK	3.6	2	6.2	1	1.3	1	0.577	3	2.873	1	4.978	-2	2056	49	0.8
47869.5	10000	41.4635	93.3640	-859	QK	3.5	2	6.2	1	1.3	1	0.559	3	2.789	1	4.990	-2	2046	36	0.8
47869.4	10000	41.4635	93.3632	-856	QK	3.4	2	6.2	1	1.2	1	0.540	3	2.698	1	4.996	-2	2042	41	0.8
47869.3	10000	41.4635	93.3624	-854	QK	3.4	2	6.5	-1	1.2	1	0.522	2	2.757	1	5.280	-2	2046	47	0.8

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47869.2	10000	41.4635	93.3616	-851	QK	3.6	2	6.9	0	1.2	1	0.530	2	2.974	1	5.607	-1	2033	46	0.8
47869.1	10000	41.4635	93.3608	-848	QK	3.5	2	7.2	0	1.2	1	0.490	2	2.915	1	5.948	-1	2019	40	0.8
47869.0	10000	41.4635	93.3600	-844	QK	3.3	2	7.3	0	1.2	1	0.457	1	2.738	1	5.990	-1	2018	46	0.8
47868.9	10000	41.4635	93.3592	-840	QAL	3.3	2	7.6	1	1.2	1	0.442	1	2.732	1	6.184	0	2031	45	0.7
47868.8	10000	41.4634	93.3584	-836	QAL	3.6	2	8.0	1	1.2	1	0.446	1	2.980	1	6.679	1	2054	42	0.7
47868.7	10000	41.4634	93.3575	-832	QAL	3.6	2	8.0	1	1.2	1	0.449	1	2.942	1	6.551	1	2056	35	0.7
47868.6	10000	41.4634	93.3567	-827	QAL	3.4	2	7.8	1	1.2	1	0.432	1	2.756	1	6.378	0	2047	37	0.7
47868.5	10000	41.4634	93.3559	-823	QAL	3.6	2	8.1	1	1.2	1	0.442	1	2.942	1	6.654	1	2037	42	0.7
47868.4	10000	41.4634	93.3551	-818	QAL	3.6	2	7.8	1	1.2	1	0.466	1	3.077	1	6.606	1	2033	49	0.7
47868.3	10000	41.4634	93.3543	-813	QAL	3.9	3	7.5	1	1.2	1	0.518	2	3.336	2	6.437	0	2025	61	0.7
47868.2	10000	41.4634	93.3535	-807	QAL	3.8	3	7.1	1	1.2	1	0.538	2	3.257	2	6.052	0	1996	49	0.7
47868.1	10000	41.4634	93.3527	-801	QAL	3.8	2	6.9	0	1.1	0	0.553	2	3.412	2	6.175	0	1955	49	0.7
47868.0	10000	41.4634	93.3518	-794	QAL	4.0	3	6.9	0	1.0	0	0.587	2	3.839	3	6.542	1	1925	38	0.7
47867.9	10000	41.4634	93.3510	-788	QAL	4.1	3	6.6	0	1.0	0	0.624	3	4.082	3	6.545	1	1874	38	0.7
47867.8	10000	41.4634	93.3502	-781	QAL	3.7	2	6.6	0	1.0	0	0.557	2	3.615	2	6.494	0	1832	51	0.7
47867.7	10000	41.4633	93.3494	-773	QAL	3.5	2	6.5	0	1.1	0	0.539	2	3.263	2	6.050	0	1812	26	0.7
47867.6	10000	41.4633	93.3486	-765	QAL	3.2	1	6.2	0	1.1	0	0.516	2	3.058	1	5.924	0	1793	29	0.7
47867.5	10000	41.4633	93.3478	-756	QAL	3.0	1	6.4	0	1.0	0	0.477	1	2.934	1	6.153	0	1796	52	0.7
47867.4	10000	41.4633	93.3470	-748	QAL	3.0	1	6.5	0	1.1	0	0.463	1	2.725	1	5.891	0	1821	40	0.7
47867.3	10000	41.4633	93.3461	-739	QAL	2.9	1	6.7	0	1.2	1	0.436	1	2.498	0	5.723	-1	1848	39	0.7
47867.2	10000	41.4633	93.3453	-730	QAL	3.1	1	6.8	0	1.2	1	0.462	1	2.652	1	5.736	0	1874	42	0.7
47867.1	10000	41.4633	93.3445	-720	QAL	3.2	1	6.2	0	1.2	1	0.517	2	2.683	1	5.186	-1	1899	42	0.7
47867.0	10000	41.4633	93.3437	-710	QAL	3.2	1	6.6	0	1.2	1	0.484	1	2.682	1	5.539	-1	1900	22	0.7
47866.9	10000	41.4633	93.3429	-700	QAL	3.3	2	6.6	0	1.2	1	0.503	1	2.770	1	5.508	-1	1912	51	0.7
47866.8	10000	41.4633	93.3421	-690	QK	3.5	2	6.9	0	1.2	1	0.516	2	3.063	2	5.935	-1	1911	35	0.7
47866.7	10000	41.4633	93.3413	-680	QK	3.3	2	6.7	-1	1.1	0	0.497	2	2.986	2	6.009	-1	1882	42	0.7
47866.6	10000	41.4632	93.3405	-669	QK	3.2	1	6.5	-1	1.1	0	0.494	2	2.828	1	5.721	-1	1862	42	0.7
47866.5	10000	41.4632	93.3396	-658	QK	3.1	1	6.9	0	1.2	1	0.456	1	2.659	1	5.832	-1	1865	36	0.7
47866.4	10000	41.4632	93.3388	-647	QK	3.1	2	6.9	0	1.2	1	0.454	1	2.701	1	5.952	-1	1858	45	0.7
47866.3	10000	41.4632	93.3380	-636	QK	3.3	2	6.4	-1	1.2	1	0.519	2	2.859	1	5.504	-1	1861	45	0.7
47866.2	10000	41.4632	93.3372	-625	QK	3.1	1	6.6	-1	1.2	1	0.470	2	2.675	1	5.688	-1	1840	43	0.7
47866.1	10000	41.4632	93.3364	-614	QK	2.9	1	6.1	-1	1.2	1	0.471	2	2.331	1	4.952	-2	1806	52	0.7
47866.0	10000	41.4632	93.3356	-605	QK	2.9	1	6.0	-2	1.2	1	0.474	2	2.349	1	4.956	-2	1783	32	0.7
47865.9	10000	41.4632	93.3348	-596	QK	2.8	1	5.5	-2	1.2	1	0.503	2	2.371	1	4.714	-3	1756	36	0.7
47865.8	10000	41.4632	93.3340	-588	QK	2.6	1	5.2	-3	1.1	1	0.494	2	2.319	1	4.698	-3	1740	36	0.7
47865.7	10000	41.4632	93.3331	-578	QK	2.4	0	5.7	-2	1.1	1	0.414	2	2.145	0	5.185	-2	1740	52	0.7
47865.6	10000	41.4632	93.3323	-569	QK	2.2	-1	6.1	-2	1.1	1	0.357	1	1.923	-1	5.390	-2	1735	45	0.7
47865.5	10000	41.4631	93.3315	-558	QK	2.0	-1	6.0	-2	1.2	1	0.333	1	1.722	-1	5.171	-2	1747	43	0.8
47865.4	10000	41.4631	93.3307	-549	QK	1.8	-1	6.5	-1	1.2	1	0.283	1	1.586	-1	5.599	-1	1785	44	0.8
47865.3	10000	41.4631	93.3299	-539	QK	1.8	-2	6.6	-1	1.2	1	0.269	1	1.466	-2	5.454	-1	1815	41	0.8
47865.2	10000	41.4631	93.3291	-529	QK	1.7	-2	7.0	0	1.3	1	0.247	1	1.375	-2	5.578	-1	1854	56	0.8
47865.1	10000	41.4631	93.3283	-519	QK	1.8	-1	7.0	0	1.3	1	0.259	1	1.406	-2	5.423	-2	1860	37	0.8
47865.0	10000	41.4631	93.3275	-509	QK	1.9	-1	6.7	-1	1.3	1	0.278	1	1.412	-2	5.078	-2	1860	51	0.8
47864.9	10000	41.4631	93.3266	-499	QK	2.0	-1	6.6	-1	1.3	1	0.301	1	1.532	-2	5.084	-2	1860	49	0.8
47864.8	10000	41.4631	93.3258	-489	QK	2.0	-1	6.6	-1	1.3	1	0.303	1	1.482	-2	4.893	-2	1864	40	0.8
47864.7	10000	41.4631	93.3250	-478	QK	2.4	0	6.5	-1	1.4	1	0.368	1	1.715	-1	4.655	-3	1865	51	0.8
47864.6	10000	41.4631	93.3242	-469	QK	2.6	0	6.4	-1	1.4	1	0.398	1	1.831	-1	4.606	-3	1880	50	0.8
47864.5	10000	41.4631	93.3234	-460	QK	2.8	0	6.6	-1	1.4	1	0.427	1	2.011	-1	4.711	-3	1892	39	0.8
47864.4	10000	41.4630	93.3226	-451	QK	2.5	0	6.7	-1	1.4	1	0.370	1	1.716	-1	4.638	-3	1894	31	0.8
47864.3	10000	41.4630	93.3218	-443	QK	2.7	0	7.0	0	1.4	1	0.387	1	1.893	-1	4.893	-2	1918	48	0.9
47864.2	10000	41.4630	93.3209	-432	QK	3.0	1	7.2	0	1.4	1	0.408	1	2.097	0	5.135	-2	1947	48	0.9
47864.1	10000	41.4630	93.3201	-423	QK	3.1	1	7.7	1	1.4	2	0.408	1	2.288	0	5.606	-1	1976	47	0.9

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47864.0	10000	41.4630	93.3193	-416	QK	3.0	1	7.7	1	1.3	1	0.396	1	2.345	0	5.924	-1	1978	41	0.9
47863.9	10000	41.4630	93.3185	-409	QK	2.9	1	7.7	1	1.3	2	0.383	0	2.268	0	5.927	-1	1980	42	0.9
47863.8	10000	41.4630	93.3177	-402	QK	2.7	0	7.9	1	1.3	2	0.343	0	2.081	0	6.061	-1	1977	36	0.9
47863.7	10000	41.4630	93.3169	-395	QK	3.0	1	7.9	1	1.3	1	0.374	0	2.301	0	6.156	0	2011	48	0.9
47863.6	10000	41.4630	93.3161	-387	QK	2.6	0	7.5	0	1.3	1	0.352	0	2.106	0	5.981	-1	2001	52	0.9
47863.5	10000	41.4630	93.3152	-379	QK	2.4	0	7.3	0	1.3	1	0.330	0	1.889	-1	5.726	-1	2000	38	0.9
47863.4	10000	41.4630	93.3144	-372	QK	2.5	0	7.2	0	1.3	1	0.344	0	1.931	-1	5.614	-1	1997	51	1.0
47863.3	10000	41.4629	93.3136	-367	QK	2.7	0	7.2	0	1.4	2	0.375	0	1.987	-1	5.304	-2	2017	42	1.0
47863.2	10000	41.4629	93.3128	-362	QK	2.8	1	7.3	0	1.3	1	0.383	0	2.196	0	5.729	-1	2027	42	1.0
47863.1	10000	41.4629	93.3120	-356	QK	2.9	1	7.1	0	1.2	1	0.414	1	2.374	0	5.731	-1	2025	52	1.0
47863.0	10000	41.4629	93.3112	-351	QK	3.0	1	7.4	0	1.2	1	0.401	1	2.463	0	6.136	0	1995	44	1.0
47862.9	10000	41.4629	93.3104	-345	QK	3.2	1	7.6	1	1.2	1	0.421	1	2.667	1	6.337	0	1995	41	1.0
47862.8	10000	41.4629	93.3096	-340	QK	3.3	2	7.6	1	1.2	1	0.435	1	2.795	1	6.422	0	1986	30	1.0
47862.7	10000	41.4629	93.3087	-335	QK	3.1	1	7.5	0	1.2	1	0.408	1	2.538	1	6.226	0	1970	38	1.0
47862.6	10000	41.4629	93.3079	-330	QK	2.7	0	7.3	0	1.2	0	0.372	0	2.361	0	6.339	0	1943	55	1.1
47862.5	10000	41.4629	93.3071	-325	QK	2.7	0	6.9	0	1.2	1	0.394	1	2.224	0	5.640	-1	1925	32	1.1
47862.4	10000	41.4629	93.3063	-320	QK	2.5	0	6.8	-1	1.2	1	0.365	0	2.022	-1	5.546	-1	1926	41	1.1
47862.3	10000	41.4628	93.3055	-314	QK	2.2	-1	6.2	-1	1.2	1	0.358	0	1.760	-1	4.913	-2	1930	39	1.1
47862.2	10000	41.4628	93.3047	-309	QK	2.3	-1	6.3	-1	1.2	1	0.360	0	1.808	-1	5.025	-2	1919	34	1.1
47862.1	10000	41.4628	93.3039	-304	QK	2.0	-1	6.2	-1	1.2	1	0.328	0	1.591	-1	4.843	-2	1910	32	1.1
47862.0	10000	41.4628	93.3031	-299	QK	2.3	-1	6.5	-1	1.2	1	0.358	0	1.787	-1	4.988	-2	1906	36	1.1
47861.9	10000	41.4628	93.3022	-293	QK	2.1	-1	6.4	-1	1.2	1	0.334	0	1.716	-1	5.135	-2	1905	54	1.2
47861.8	10000	41.4628	93.3014	-285	QK	2.2	-1	6.9	0	1.2	1	0.316	0	1.733	-1	5.492	-1	1904	40	1.2
47861.7	10000	41.4628	93.3006	-279	QK	2.2	-1	6.9	-1	1.2	1	0.320	0	1.715	-1	5.360	-2	1889	53	1.2
47861.6	10000	41.4628	93.2998	-271	QK	2.1	-1	7.3	0	1.2	1	0.295	-1	1.724	-1	5.846	-1	1871	33	1.2
47861.5	10000	41.4628	93.2990	-262	QK	1.9	-1	7.5	1	1.2	2	0.254	-1	1.450	-2	5.705	-1	1874	36	1.2
47861.4	10000	41.4628	93.2982	-254	QK	1.8	-2	7.9	1	1.3	2	0.224	-2	1.345	-2	6.003	-1	1876	45	1.2
47861.3	10000	41.4628	93.2974	-246	QK	2.0	-1	7.7	1	1.3	1	0.258	-1	1.570	-1	6.085	-1	1876	42	1.2
47861.2	10000	41.4627	93.2966	-237	QK	2.1	-1	8.0	1	1.3	1	0.257	-1	1.597	-1	6.223	0	1887	52	1.2
47861.1	10000	41.4627	93.2957	-228	QK	1.9	-1	7.7	1	1.3	1	0.252	-1	1.556	-1	6.170	0	1902	35	1.3
47861.0	10000	41.4627	93.2949	-220	QK	1.7	-2	7.9	1	1.3	2	0.219	-2	1.322	-2	6.041	-1	1923	47	1.3
47860.9	10000	41.4627	93.2941	-210	QK	2.0	-1	8.1	1	1.3	1	0.246	-1	1.551	-2	6.310	0	1956	51	1.3
47860.8	10000	41.4627	93.2933	-201	QK	2.2	-1	8.0	1	1.2	1	0.275	-1	1.787	-1	6.487	0	1971	42	1.3
47860.7	10000	41.4627	93.2925	-192	QK	2.6	0	7.8	1	1.2	1	0.330	0	2.064	0	6.261	0	2005	55	1.3
47860.6	10000	41.4627	93.2917	-182	QK	2.6	0	7.6	0	1.3	1	0.347	0	2.079	0	5.998	-1	2034	58	1.3
47860.5	10000	41.4627	93.2909	-173	QK	2.7	0	7.5	0	1.3	1	0.365	0	2.164	0	5.930	-1	2067	61	1.3
47860.4	10000	41.4627	93.2900	-163	QK	2.5	0	7.6	1	1.3	1	0.324	0	1.916	-1	5.919	-1	2068	55	1.3
47860.3	10000	41.4627	93.2892	-154	QK	2.9	1	7.5	0	1.2	1	0.392	1	2.382	0	6.079	-1	2085	45	1.4
47860.2	10000	41.4627	93.2884	-145	QK	3.0	1	7.2	0	1.3	1	0.414	1	2.326	0	5.620	-1	2105	38	1.4
47860.1	10000	41.4626	93.2876	-136	QK	3.1	1	7.0	0	1.2	1	0.447	1	2.496	0	5.579	-1	2109	39	1.4
47860.0	10000	41.4626	93.2868	-127	QK	3.2	1	7.0	1	1.2	1	0.454	1	2.686	1	5.922	-1	2089	40	1.4
47859.9	10000	41.4626	93.2860	-119	QAL	3.0	1	7.4	1	1.1	0	0.406	1	2.612	1	6.431	0	2068	34	1.4
47859.8	10000	41.4626	93.2852	-112	QAL	3.1	1	7.1	1	1.2	1	0.437	1	2.694	1	6.167	0	2034	41	1.4
47859.7	10000	41.4626	93.2843	-104	QAL	3.1	1	7.4	1	1.1	0	0.414	0	2.759	1	6.661	1	2013	39	1.4
47859.6	10000	41.4626	93.2835	-98	QAL	3.0	1	7.5	1	1.1	1	0.394	0	2.614	1	6.632	1	1998	45	1.4
47859.5	10000	41.4626	93.2827	-93	QAL	2.9	1	7.5	1	1.2	1	0.381	0	2.489	0	6.538	1	1987	31	1.4
47859.4	10000	41.4626	93.2819	-89	QAL	2.6	0	7.6	1	1.2	1	0.337	0	2.199	0	6.526	1	1970	41	1.5
47859.3	10000	41.4626	93.2811	-84	QAL	2.2	-1	7.6	1	1.2	1	0.285	-1	1.848	-1	6.487	0	1959	34	1.5
47859.2	10000	41.4625	93.2803	-80	QAL	2.3	0	7.9	1	1.2	1	0.288	-1	1.891	-1	6.561	1	1960	34	1.5
47859.1	10000	41.4625	93.2795	-76	QAL	2.0	-1	8.4	2	1.2	1	0.242	-2	1.729	-1	7.147	1	1961	39	1.5
47859.0	10000	41.4625	93.2787	-72	QAL	2.3	0	7.8	1	1.2	1	0.293	-1	1.876	-1	6.368	0	1977	38	1.5
47858.9	10000	41.4625	93.2778	-70	QAL	2.3	0	8.0	1	1.2	1	0.290	-1	2.004	-1	6.904	1	1975	53	1.5

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47858.8	10000	41.4625	93.2770	-67	QAL	2.5	0	7.8	1	1.1	0	0.314	-1	2.329	0	7.408	2	1972	37	1.5
47858.7	10000	41.4625	93.2762	-64	QAL	2.6	0	7.7	1	1.1	0	0.336	-1	2.389	0	7.108	1	1984	51	1.5
47858.6	10000	41.4625	93.2754	-62	QAL	2.6	0	7.6	1	1.1	0	0.345	0	2.469	0	7.147	1	1986	42	1.5
47858.5	10000	41.4625	93.2746	-60	QAL	2.4	0	6.8	1	1.1	0	0.356	0	2.257	0	6.345	0	1996	31	1.5
47858.4	10000	41.4625	93.2738	-58	QAL	2.6	0	6.5	1	1.1	0	0.395	0	2.363	0	5.975	0	2006	39	1.5
47858.3	10000	41.4625	93.2730	-58	QAL	2.6	0	6.5	1	1.1	0	0.407	0	2.412	0	5.933	0	1993	34	1.6
47858.2	10000	41.4624	93.2722	-57	QAL	2.4	0	6.0	1	1.1	0	0.394	0	2.122	0	5.393	-1	1984	42	1.6
47858.1	10000	41.4624	93.2713	-57	QAL	2.6	0	6.3	1	1.2	1	0.416	0	2.232	0	5.359	-1	1983	40	1.6
47858.0	10000	41.4624	93.2705	-57	QAL	2.8	1	6.3	1	1.2	1	0.443	1	2.386	0	5.389	-1	1978	28	1.6
47857.9	10000	41.4624	93.2697	-58	QAL	3.0	1	6.6	1	1.2	1	0.455	1	2.552	0	5.613	-1	1981	33	1.6
47857.8	10000	41.4624	93.2689	-59	QAL	3.0	1	6.8	1	1.1	0	0.436	1	2.580	0	5.912	0	1967	45	1.6
47857.7	10000	41.4624	93.2681	-60	QAL	2.9	1	6.6	1	1.1	0	0.433	1	2.515	0	5.807	0	1952	32	1.6
47857.6	10000	41.4624	93.2673	-62	QAL	2.8	1	7.2	1	1.1	0	0.386	0	2.437	0	6.304	0	1960	41	1.6
47857.5	10000	41.4624	93.2665	-63	QAL	2.7	1	7.3	1	1.1	0	0.374	0	2.426	0	6.494	0	1954	46	1.6
47857.4	10000	41.4624	93.2657	-65	QAL	2.4	1	7.2	1	1.2	1	0.330	-1	2.041	0	6.185	0	1934	49	1.6
47857.3	10000	41.4624	93.2648	-67	QAL	2.3	1	7.5	1	1.2	1	0.306	-1	1.996	-1	6.531	1	1928	48	1.6
47857.2	10000	41.4624	93.2640	-69	QAL	2.2	0	6.9	1	1.2	1	0.323	-1	1.897	-1	5.880	0	1924	36	1.6
47857.1	10000	41.4623	93.2632	-71	QAL	2.3	1	7.2	1	1.1	0	0.323	-1	2.030	-1	6.282	0	1927	46	1.6
47857.0	10000	41.4623	93.2624	-73	QAL	2.3	1	7.4	1	1.2	1	0.315	-1	1.918	-1	6.091	0	1945	41	1.6
47856.9	10000	41.4623	93.2616	-75	QAL	2.2	1	7.4	1	1.2	1	0.300	-1	1.864	-1	6.216	0	1951	35	1.6
47856.8	10000	41.4623	93.2608	-78	QAL	2.3	1	7.8	1	1.2	1	0.293	-1	1.927	-1	6.578	1	1977	48	1.6
47856.7	10000	41.4623	93.2600	-80	QAL	2.4	1	8.0	1	1.2	1	0.305	-1	2.090	0	6.855	1	1990	55	1.6
47856.6	10000	41.4623	93.2592	-83	QAL	2.5	1	7.9	1	1.1	0	0.321	-1	2.212	0	6.896	1	1998	45	1.6
47856.5	10000	41.4623	93.2583	-86	QAL	2.7	2	8.2	1	1.1	0	0.327	-1	2.406	0	7.355	2	1988	37	1.6
47856.4	10000	41.4623	93.2575	-88	QAL	2.4	1	7.9	1	1.1	0	0.308	-1	2.112	0	6.862	1	1958	45	1.6
47856.3	10000	41.4623	93.2567	-91	QAL	2.5	1	7.2	1	1.0	0	0.343	0	2.422	0	7.054	1	1876	43	1.6
47856.2	10000	41.4623	93.2559	-93	QAL	2.5	0	6.5	-1	1.0	-1	0.385	0	2.622	1	6.817	1	1787	37	1.6
47856.1	10000	41.4623	93.2551	-95	QAL	2.5	0	6.0	-1	0.9	-1	0.410	0	2.689	1	6.560	1	1709	42	1.6
47856.0	10000	41.4622	93.2543	-96	QAL	2.4	0	5.5	-1	0.9	-1	0.429	1	2.672	1	6.229	0	1660	31	1.6
47855.9	10000	41.4622	93.2535	-98	QAL	2.1	-1	5.3	-1	0.9	-1	0.403	0	2.265	0	5.621	-1	1631	45	1.6
47855.8	10000	41.4622	93.2526	-99	WATER	2.1	999	5.0	999	1.0	999	0.424	999	2.141	999	5.054	999	1635	43	1.6
47855.7	10000	41.4622	93.2518	-100	WATER	2.4	999	5.2	999	1.0	999	0.459	999	2.431	999	5.298	999	1658	39	1.6
47855.6	10000	41.4622	93.2510	-101	WATER	2.4	999	5.4	999	1.0	999	0.445	999	2.406	999	5.413	999	1709	36	1.6
47855.5	10000	41.4622	93.2502	-102	WATER	2.5	999	5.7	999	1.0	999	0.441	999	2.422	999	5.493	999	1752	31	1.6
47855.4	10000	41.4622	93.2494	-103	WATER	2.5	999	5.6	999	1.0	999	0.450	999	2.443	999	5.433	999	1742	40	1.6
47855.3	10000	41.4622	93.2486	-103	WATER	2.4	999	5.6	999	1.0	999	0.430	999	2.510	999	5.844	999	1701	27	1.6
47855.2	10000	41.4622	93.2478	-104	WATER	2.4	999	5.5	999	0.9	999	0.436	999	2.799	999	6.424	999	1663	43	1.6
47855.1	10000	41.4622	93.2469	-104	WATER	2.2	999	5.9	999	0.8	999	0.376	999	2.605	999	6.934	999	1627	46	1.6
47855.0	10000	41.4622	93.2461	-104	WATER	1.8	999	5.6	999	0.9	999	0.327	999	2.132	999	6.518	999	1614	44	1.6
47854.9	10000	41.4622	93.2452	-104	WATER	1.9	999	6.0	999	0.9	999	0.317	999	2.041	999	6.434	999	1624	37	1.6
47854.8	10000	41.4622	93.2444	-103	WATER	2.1	999	6.0	999	0.9	999	0.355	999	2.247	999	6.325	999	1655	40	1.5
47854.7	10000	41.4622	93.2435	-104	QAL	2.3	0	5.9	-1	1.0	-1	0.393	0	2.369	0	6.028	0	1703	43	1.5
47854.6	10000	41.4622	93.2426	-104	QAL	2.5	0	6.1	0	1.0	0	0.402	0	2.369	0	5.889	0	1775	24	1.5
47854.5	10000	41.4622	93.2418	-104	QAL	2.5	0	6.1	0	1.1	0	0.407	0	2.222	0	5.455	-1	1821	48	1.5
47854.4	10000	41.4622	93.2409	-104	QAL	2.8	1	5.7	-1	1.1	0	0.494	1	2.476	1	5.017	-1	1842	43	1.5
47854.3	10000	41.4622	93.2401	-104	QAL	2.9	1	5.7	-1	1.1	0	0.508	1	2.658	1	5.235	-1	1824	43	1.5
47854.2	10000	41.4622	93.2392	-103	QAL	3.0	1	5.2	-1	1.0	-1	0.581	2	3.088	1	5.313	-1	1785	49	1.5
47854.1	10000	41.4621	93.2384	-103	QAL	3.0	1	4.9	-2	0.9	-1	0.605	2	3.193	2	5.279	-1	1742	40	1.5
47854.0	10000	41.4621	93.2375	-102	QAL	2.8	1	4.8	-2	0.9	-1	0.589	2	3.076	1	5.219	-1	1702	49	1.5
47853.9	10000	41.4621	93.2367	-102	QAL	2.9	1	4.6	-2	0.9	-1	0.630	2	3.166	2	5.026	-1	1665	34	1.5
47853.8	10000	41.4621	93.2358	-101	QAL	3.0	1	4.5	-2	0.9	-1	0.668	3	3.483	2	5.211	-1	1646	49	1.5
47853.7	10000	41.4621	93.2350	-101	QAL	2.7	0	4.8	-2	0.8	-2	0.554	2	3.255	2	5.872	0	1631	41	1.4

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47853.6	10000	41.4621	93.2341	-100	QAL	2.8	1	4.8	-2	0.9	-1	0.587	2	3.309	2	5.635	-1	1658	45	1.4
47853.5	10000	41.4621	93.2332	-99	QAL	2.5	0	5.3	-1	0.9	-1	0.466	1	2.675	1	5.737	0	1689	48	1.4
47853.4	10000	41.4621	93.2324	-98	QAL	2.4	0	5.6	-1	1.0	-1	0.419	0	2.427	0	5.789	0	1728	35	1.4
47853.3	10000	41.4621	93.2315	-97	QAL	2.5	0	6.0	0	1.0	0	0.410	0	2.467	0	6.023	0	1787	44	1.4
47853.2	10000	41.4621	93.2307	-97	QAL	2.4	0	6.1	0	1.0	0	0.389	0	2.356	0	6.052	0	1829	42	1.4
47853.1	10000	41.4621	93.2298	-96	QAL	2.2	0	6.5	0	1.1	0	0.337	0	2.056	0	6.100	0	1862	51	1.4
47853.0	10000	41.4621	93.2290	-96	QAL	2.4	0	6.5	0	1.1	0	0.364	0	2.076	0	5.700	-1	1908	54	1.4
47852.9	10000	41.4621	93.2281	-96	QAL	2.5	0	7.0	0	1.1	0	0.362	0	2.301	0	6.357	0	1908	42	1.4
47852.8	10000	41.4621	93.2273	-95	QAL	2.7	0	6.7	0	1.1	0	0.403	0	2.494	0	6.187	0	1901	45	1.4
47852.7	10000	41.4621	93.2264	-95	QAL	2.7	0	6.6	0	1.1	0	0.405	0	2.429	0	6.002	0	1848	51	1.3
47852.6	10000	41.4621	93.2256	-95	WATER	2.5	999	6.0	999	1.0	999	0.418	999	2.389	999	5.713	999	1780	44	1.3
47852.5	10000	41.4621	93.2247	-96	WATER	2.5	999	5.7	999	1.0	999	0.436	999	2.559	999	5.866	999	1690	46	1.3
47852.4	10000	41.4621	93.2239	-96	WATER	2.4	999	5.2	999	0.9	999	0.453	999	2.606	999	5.757	999	1623	38	1.3
47852.3	10000	41.4621	93.2230	-98	WATER	2.1	999	5.1	999	0.9	999	0.415	999	2.414	999	5.814	999	1580	30	1.3
47852.2	10000	41.4621	93.2222	-99	WATER	2.0	999	4.7	999	0.9	999	0.423	999	2.157	999	5.103	999	1585	44	1.3
47852.1	10000	41.4621	93.2213	-100	WATER	2.0	999	5.1	999	0.9	999	0.398	999	2.156	999	5.412	999	1602	41	1.3
47852.0	10000	41.4621	93.2204	-103	WATER	2.2	999	5.0	999	0.9	999	0.429	999	2.415	999	5.626	999	1663	41	1.2
47851.9	10000	41.4621	93.2196	-105	WATER	2.3	999	5.5	999	1.0	999	0.422	999	2.351	999	5.573	999	1725	43	1.2
47851.8	10000	41.4621	93.2187	-108	WATER	2.5	999	5.8	999	1.1	999	0.422	999	2.309	999	5.470	999	1821	52	1.2
47851.7	10000	41.4621	93.2179	-111	WATER	2.6	999	5.9	999	1.1	999	0.437	999	2.349	999	5.381	999	1878	49	1.2
47851.6	10000	41.4621	93.2170	-114	WATER	2.9	999	6.0	999	1.1	999	0.484	999	2.623	999	5.419	999	1888	44	1.2
47851.5	10000	41.4621	93.2162	-118	WATER	2.8	999	5.9	999	1.1	999	0.483	999	2.643	999	5.470	999	1854	46	1.2
47851.4	10000	41.4621	93.2153	-122	WATER	2.7	999	5.5	999	1.0	999	0.494	999	2.704	999	5.476	999	1784	55	1.2
47851.3	10000	41.4621	93.2145	-127	WATER	2.7	999	5.3	999	0.9	999	0.514	999	2.874	999	5.593	999	1687	58	1.1
47851.2	10000	41.4621	93.2136	-132	WATER	2.7	999	5.3	999	0.9	999	0.505	999	3.158	999	6.252	999	1628	39	1.1
47851.1	10000	41.4621	93.2128	-137	WATER	2.6	999	5.2	999	0.9	999	0.505	999	2.988	999	5.914	999	1581	39	1.1
47851.0	10000	41.4621	93.2119	-143	WATER	2.7	999	5.3	999	0.9	999	0.513	999	3.119	999	6.079	999	1560	51	1.1
47850.9	10000	41.4621	93.2110	-149	WATER	2.5	999	5.2	999	0.8	999	0.473	999	3.094	999	6.535	999	1520	35	1.1
47850.8	10000	41.4621	93.2102	-155	WATER	2.5	999	5.1	999	0.8	999	0.492	999	3.308	999	6.728	999	1470	38	1.1
47850.7	10000	41.4621	93.2093	-163	WATER	2.4	999	4.8	999	0.7	999	0.498	999	3.305	999	6.637	999	1431	41	1.1
47850.6	10000	41.4621	93.2085	-171	WATER	2.1	999	4.7	999	0.7	999	0.451	999	2.980	999	6.609	999	1432	42	1.1
47850.5	10000	41.4621	93.2076	-179	WATER	2.1	999	4.7	999	0.7	999	0.444	999	2.994	999	6.742	999	1445	43	1.0
47850.4	10000	41.4621	93.2068	-189	WATER	2.0	999	5.2	999	0.7	999	0.383	999	2.913	999	7.602	999	1468	38	1.0
47850.3	10000	41.4621	93.2059	-199	WATER	1.9	999	5.3	999	0.7	999	0.348	999	2.533	999	7.278	999	1474	43	1.0
47850.2	10000	41.4621	93.2051	-208	WATER	1.8	999	5.4	999	0.8	999	0.344	999	2.369	999	6.884	999	1522	35	1.0
47850.1	10000	41.4620	93.2042	-218	WATER	1.9	999	5.8	999	0.9	999	0.330	999	2.193	999	6.643	999	1614	44	1.0
47850.0	10000	41.4620	93.2034	-228	WATER	2.0	999	6.5	999	1.0	999	0.317	999	2.130	999	6.715	999	1729	48	1.0
47849.9	10000	41.4620	93.2025	-238	QAL	2.4	0	6.9	0	1.1	0	0.348	0	2.205	0	6.332	0	1830	39	0.9
47849.8	10000	41.4620	93.2017	-249	QAL	2.4	0	7.0	0	1.2	1	0.348	0	2.094	0	6.024	0	1854	53	0.9
47849.7	10000	41.4620	93.2008	-258	QAL	2.4	0	6.7	0	1.2	0	0.360	0	2.087	0	5.791	0	1849	49	0.9
47849.6	10000	41.4620	93.2000	-268	QAL	2.2	-1	6.6	0	1.1	0	0.329	-1	1.971	-1	5.989	0	1831	47	0.9
47849.5	10000	41.4620	93.1991	-277	QAL	2.2	0	6.9	0	1.1	0	0.324	-1	2.049	0	6.322	0	1799	41	0.9
47849.4	10000	41.4620	93.1982	-286	QK	2.0	-1	6.6	-1	1.1	0	0.303	-1	1.901	-1	6.270	0	1756	47	0.9
47849.3	10000	41.4620	93.1974	-297	QK	1.9	-1	6.5	-1	1.0	-1	0.296	-1	1.879	-1	6.338	0	1733	65	0.9
47849.2	10000	41.4620	93.1965	-306	QK	1.6	-2	6.3	-1	1.0	-1	0.256	-1	1.604	-1	6.269	0	1701	38	0.9
47849.1	10000	41.4620	93.1957	-315	QK	1.4	-2	6.3	-1	1.0	-1	0.227	-2	1.379	-2	6.066	-1	1692	48	0.8
47849.0	10000	41.4620	93.1948	-324	QK	1.4	-2	6.3	-1	1.0	-1	0.213	-2	1.366	-2	6.424	0	1695	27	0.8
47848.9	10000	41.4620	93.1940	-331	QK	1.6	-2	6.7	-1	1.1	-1	0.238	-2	1.516	-2	6.379	0	1726	39	0.8
47848.8	10000	41.4620	93.1931	-339	QK	1.7	-2	6.7	-1	1.1	-1	0.259	-1	1.598	-1	6.162	0	1760	41	0.8
47848.7	10000	41.4620	93.1923	-347	QK	1.9	-1	7.2	0	1.1	-1	0.266	-1	1.732	-1	6.505	0	1792	41	0.8
47848.6	10000	41.4620	93.1914	-353	QK	2.2	-1	7.1	0	1.1	0	0.310	-1	2.006	-1	6.461	0	1815	39	0.8
47848.5	10000	41.4620	93.1906	-359	QK	2.3	-1	7.4	0	1.1	0	0.304	-1	2.091	0	6.876	1	1836	46	0.8

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47848.4	10000	41.4620	93.1897	-366	QK	2.5	0	7.5	0	1.1	0	0.326	0	2.235	0	6.859	1	1872	44	0.8
47848.3	10000	41.4620	93.1888	-372	QK	2.5	0	7.6	0	1.2	0	0.336	0	2.188	0	6.518	0	1888	33	0.8
47848.2	10000	41.4620	93.1880	-378	QK	2.5	0	7.2	0	1.2	0	0.348	0	2.158	0	6.200	0	1855	39	0.8
47848.1	10000	41.4620	93.1871	-382	QK	2.4	0	7.3	0	1.1	0	0.325	0	2.109	0	6.489	0	1820	37	0.8
47848.0	10000	41.4620	93.1863	-387	QK	2.1	-1	6.8	-1	1.1	0	0.314	-1	1.885	-1	6.002	-1	1790	57	0.8
47847.9	10000	41.4620	93.1854	-392	QK	2.0	-1	6.9	0	1.2	0	0.281	-1	1.698	-1	6.038	-1	1758	38	0.7
47847.8	10000	41.4620	93.1846	-397	QK	2.0	-1	6.9	0	1.1	0	0.297	-1	1.805	-1	6.073	-1	1733	35	0.7
47847.7	10000	41.4620	93.1837	-402	QK	2.2	-1	6.6	-1	1.1	-1	0.328	0	2.031	0	6.187	0	1696	45	0.7
47847.6	10000	41.4620	93.1829	-407	QK	2.5	0	6.4	-1	1.0	-1	0.389	1	2.434	0	6.259	0	1684	35	0.7
47847.5	10000	41.4620	93.1820	-411	QK	2.5	0	6.6	-1	1.0	-1	0.388	1	2.516	1	6.480	0	1707	51	0.7
47847.4	10000	41.4620	93.1812	-415	QK	2.7	0	6.4	-1	1.1	0	0.430	1	2.545	1	5.922	-1	1749	37	0.7
47847.3	10000	41.4620	93.1803	-419	QK	3.2	1	6.6	-1	1.1	0	0.486	2	2.941	1	6.053	-1	1792	41	0.7
47847.2	10000	41.4620	93.1795	-423	QK	3.2	1	6.5	-1	1.2	0	0.487	2	2.783	1	5.711	-1	1838	59	0.7
47847.1	10000	41.4620	93.1786	-427	QK	3.1	1	6.5	-1	1.2	1	0.483	2	2.536	1	5.257	-2	1883	44	0.7
47847.0	10000	41.4620	93.1777	-431	QK	3.0	1	7.2	0	1.3	1	0.426	1	2.393	0	5.613	-1	1933	41	0.7
47846.9	10000	41.4620	93.1769	-435	QK	2.7	0	7.2	0	1.4	2	0.372	0	1.981	-1	5.327	-2	1973	49	0.7
47846.8	10000	41.4620	93.1760	-439	QK	2.8	1	7.5	0	1.4	2	0.376	0	2.048	0	5.443	-1	2000	46	0.7
47846.7	10000	41.4619	93.1752	-443	QK	2.7	0	7.6	1	1.4	2	0.358	0	1.996	-1	5.577	-1	2008	25	0.7
47846.6	10000	41.4619	93.1743	-448	QK	2.8	1	7.8	1	1.4	2	0.366	0	2.083	0	5.688	-1	2004	41	0.7
47846.5	10000	41.4619	93.1735	-452	QK	2.9	1	7.6	1	1.3	2	0.377	0	2.172	0	5.761	-1	1984	41	0.7
47846.4	10000	41.4619	93.1726	-456	QK	2.9	1	7.8	1	1.2	1	0.374	0	2.347	0	6.283	0	1981	52	0.7
47846.3	10000	41.4619	93.1718	-460	QK	3.1	1	7.6	1	1.2	1	0.416	1	2.533	1	6.093	-1	1968	44	0.7
47846.2	10000	41.4619	93.1709	-464	QK	3.2	1	7.5	0	1.2	1	0.421	1	2.609	1	6.199	0	1952	41	0.6
47846.1	10000	41.4619	93.1701	-468	QK	3.4	2	7.5	0	1.2	1	0.453	1	2.902	1	6.410	0	1947	51	0.6
47846.0	10000	41.4619	93.1692	-473	QK	3.3	1	7.7	1	1.1	1	0.430	1	2.909	1	6.770	0	1946	41	0.6
47845.9	10000	41.4619	93.1684	-479	QK	3.1	1	8.0	1	1.2	1	0.388	1	2.762	1	7.121	1	1954	41	0.6
47845.8	10000	41.4619	93.1675	-483	QK	3.1	1	7.9	1	1.2	1	0.389	1	2.662	1	6.841	1	1983	41	0.6
47845.7	10000	41.4619	93.1666	-488	QK	3.2	1	8.0	1	1.2	1	0.393	1	2.692	1	6.853	1	2007	36	0.6
47845.6	10000	41.4619	93.1658	-493	QK	3.5	2	8.3	1	1.2	1	0.371	0	2.647	1	7.133	1	2041	39	0.6
47845.5	10000	41.4619	93.1649	-499	QK	3.4	2	8.2	1	1.2	1	0.430	1	2.143	1	7.303	1	2061	40	0.6
47845.4	10000	41.4619	93.1641	-503	QK	3.6	2	8.5	1	1.2	1	0.400	1	2.932	1	7.333	1	2067	40	0.6
47845.3	10000	41.4619	93.1632	-508	QK	3.9	2	8.3	1	1.2	1	0.434	1	2.101	1	7.139	1	2054	48	0.6
47845.2	10000	41.4619	93.1624	-513	QK	4.2	2	8.4	1	1.2	1	0.529	2	2.327	2	6.287	1	2047	47	0.6
47845.1	10000	41.4619	93.1615	-517	QK	4.1	2	8.5	1	1.2	1	0.557	2	2.674	2	6.599	1	2026	43	0.6
47845.0	10000	41.4619	93.1607	-522	QK	3.9	2	7.4	1	1.2	1	0.550	2	2.518	2	6.398	1	1999	31	0.6
47844.9	10000	41.4619	93.1598	-527	QAL	4.4	2	7.5	1	1.2	1	0.533	2	2.253	2	6.105	1	1964	43	0.6
47844.8	10000	41.4619	93.1590	-531	QAL	4.3	2	7.4	1	1.2	1	0.471	2	2.873	2	6.094	1	1946	40	0.6
47844.7	10000	41.4619	93.1581	-535	QAL	4.5	2	7.3	1	1.2	1	0.462	2	2.824	2	6.109	1	1945	46	0.6
47844.6	10000	41.4619	93.1572	-539	QAL	4.3	2	7.2	1	1.2	1	0.494	2	2.927	2	5.922	1	1953	44	0.6
47844.5	10000	41.4619	93.1564	-544	QAL	4.3	2	7.1	1	1.2	1	0.425	1	2.872	2	6.754	1	1976	48	0.6
47844.4	10000	41.4619	93.1555	-548	QAL	4.3	2	7.7	1	1.2	1	0.435	1	2.884	2	6.632	1	1983	51	0.6
47844.3	10000	41.4619	93.1547	-552	QAL	4.6	2	7.6	1	1.1	1	0.484	2	2.259	2	6.733	1	1996	43	0.6
47844.2	10000	41.4619	93.1538	-556	QAL	4.9	2	7.5	1	1.1	1	0.551	2	2.848	2	6.988	1	2002	58	0.6
47844.1	10000	41.4619	93.1530	-560	QK	4.8	2	7.7	1	1.1	1	0.527	2	2.724	2	7.060	1	2003	45	0.6
47844.0	10000	41.4619	93.1521	-563	QK	4.7	2	8.0	1	1.1	1	0.499	2	2.661	2	7.336	1	1986	37	0.6
47843.9	10000	41.4619	93.1513	-566	QK	4.5	2	7.9	1	1.1	1	0.458	2	2.372	2	7.358	1	1992	55	0.6
47843.8	10000	41.4619	93.1504	-571	QK	4.3	2	8.1	1	1.1	1	0.440	2	2.031	2	6.886	1	1973	44	0.6
47843.7	10000	41.4619	93.1496	-576	QK	4.3	2	8.1	1	1.1	1	0.400	2	2.760	2	6.907	1	1976	45	0.6
47843.6	10000	41.4619	93.1487	-580	QK	4.0	2	8.1	1	1.1	1	0.367	1	2.491	2	6.791	1	1972	47	0.6
47843.5	10000	41.4618	93.1479	-583	QK	3.6	2	8.1	1	1.1	1	0.306	1	2.008	2	6.568	1	1970	39	0.6
47843.4	10000	41.4618	93.1470	-586	QK	3.7	2	8.2	1	1.1	1	0.330	1	2.096	2	6.361	1	1976	30	0.6
47843.3	10000	41.4618	93.1461	-589	QK	2.8	1	8.2	1	1.3	2	0.340	0	2.142	2	6.309	0	1978	49	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47843.2	10000	41.4618	93.1453	-592	QK	2.7	0	7.9	1	1.3	1	0.342	0	2.122	0	6.209	0	1963	37	0.6
47843.1	10000	41.4618	93.1444	-594	QK	2.9	1	7.7	1	1.2	1	0.380	0	2.387	0	6.282	0	1950	46	0.6
47843.0	10000	41.4618	93.1436	-598	QK	3.0	1	7.7	1	1.1	0	0.389	0	2.618	1	6.736	0	1920	39	0.6
47842.9	10000	41.4618	93.1427	-601	QK	3.1	1	7.7	1	1.2	0	0.406	1	2.701	1	6.645	0	1897	39	0.6
47842.8	10000	41.4618	93.1419	-604	QK	3.1	1	7.3	1	1.1	0	0.424	1	2.887	1	6.805	0	1870	38	0.6
47842.7	10000	41.4618	93.1410	-607	QK	3.0	1	7.3	0	1.0	-1	0.410	1	2.832	1	6.908	1	1837	40	0.6
47842.6	10000	41.4618	93.1402	-610	QK	3.0	1	6.8	-1	1.0	-1	0.441	1	2.995	2	6.796	0	1807	45	0.6
47842.5	10000	41.4618	93.1393	-613	QK	2.9	1	6.8	-1	1.0	-1	0.433	1	2.922	1	6.745	0	1789	48	0.6
47842.4	10000	41.4618	93.1385	-616	QK	2.9	1	6.9	0	1.1	0	0.423	1	2.617	1	6.193	0	1795	41	0.6
47842.3	10000	41.4618	93.1376	-619	QK	2.7	0	6.6	-1	1.2	1	0.408	1	2.262	0	5.540	-1	1815	44	0.6
47842.2	10000	41.4618	93.1367	-621	QK	2.4	0	6.7	-1	1.2	1	0.362	0	1.980	-1	5.465	-1	1824	54	0.6
47842.1	10000	41.4618	93.1359	-624	QK	2.5	0	6.7	-1	1.3	1	0.371	0	1.949	-1	5.250	-2	1842	47	0.6
47842.0	10000	41.4618	93.1350	-627	QK	2.4	0	7.0	0	1.3	2	0.344	0	1.824	-1	5.303	-2	1860	39	0.6
47841.9	10000	41.4618	93.1342	-630	QK	2.5	0	7.1	0	1.4	2	0.349	0	1.779	-1	5.098	-2	1894	38	0.6
47841.8	10000	41.4618	93.1333	-633	QK	2.3	0	7.2	0	1.4	3	0.324	0	1.655	-1	5.107	-2	1916	41	0.6
47841.7	10000	41.4618	93.1325	-635	QK	2.1	-1	7.3	0	1.4	2	0.284	-1	1.504	-2	5.302	-2	1911	45	0.6
47841.6	10000	41.4618	93.1316	-637	QK	2.1	-1	7.5	0	1.3	2	0.275	-1	1.532	-2	5.570	-1	1908	38	0.6
47841.5	10000	41.4618	93.1308	-639	QK	2.1	-1	7.6	1	1.3	2	0.281	-1	1.597	-1	5.681	-1	1914	45	0.6
47841.4	10000	41.4618	93.1299	-642	QK	2.3	0	7.6	1	1.3	2	0.298	-1	1.713	-1	5.742	-1	1917	45	0.6
47841.3	10000	41.4618	93.1291	-646	QK	2.4	0	8.1	1	1.3	1	0.293	-1	1.836	-1	6.257	0	1932	47	0.6
47841.2	10000	41.4618	93.1282	-648	QK	2.2	-1	8.2	1	1.3	1	0.264	-1	1.671	-1	6.331	0	1909	40	0.6
47841.1	10000	41.4618	93.1274	-649	QK	2.3	0	8.0	1	1.3	1	0.286	-1	1.812	-1	6.341	0	1912	46	0.6
47841.0	10000	41.4618	93.1265	-652	QK	2.4	0	8.2	1	1.3	1	0.288	-1	1.873	-1	6.502	0	1907	50	0.6
47840.9	10000	41.4618	93.1257	-654	QK	2.3	0	8.3	1	1.3	1	0.281	-1	1.832	-1	6.517	0	1900	40	0.6
47840.8	10000	41.4618	93.1248	-656	QK	2.3	0	7.9	1	1.2	1	0.291	-1	1.854	-1	6.377	0	1870	41	0.6
47840.7	10000	41.4618	93.1239	-659	QK	2.2	-1	7.9	1	1.2	1	0.277	-1	1.830	-1	6.613	0	1842	54	0.6
47840.6	10000	41.4618	93.1231	-661	QK	2.2	-1	7.5	1	1.2	1	0.294	-1	1.860	-1	6.321	0	1790	31	0.6
47840.5	10000	41.4618	93.1222	-664	QK	2.2	-1	7.1	1	1.1	1	0.314	-1	1.933	-1	6.164	0	1779	46	0.6
47840.4	10000	41.4618	93.1214	-666	QK	2.2	-1	7.0	1	1.1	1	0.307	-1	1.936	-1	6.313	0	1749	40	0.6
47840.3	10000	41.4617	93.1205	-668	QK	2.5	0	6.4	-1	1.1	1	0.388	1	2.228	0	5.738	-1	1753	47	0.6
47840.2	10000	41.4617	93.1197	-671	QK	2.6	0	6.1	-1	1.1	1	0.425	1	2.370	0	5.578	-1	1749	27	0.6
47840.1	10000	41.4617	93.1188	-673	QK	2.9	1	6.1	-1	1.1	2	0.473	2	2.614	1	5.526	-1	1754	42	0.6
47840.0	10000	41.4617	93.1180	-675	QK	3.1	1	6.3	-1	1.1	2	0.494	2	2.744	1	5.556	-1	1779	45	0.6
47839.9	10000	41.4617	93.1171	-677	QK	2.9	1	6.2	-1	1.2	2	0.479	2	2.525	1	5.275	-2	1800	47	0.6
47839.8	10000	41.4617	93.1163	-678	QK	2.8	1	6.1	-2	1.1	2	0.467	2	2.492	1	5.334	-2	1785	35	0.6
47839.7	10000	41.4617	93.1155	-677	QK	3.0	1	6.3	-1	1.2	2	0.471	2	2.560	1	5.434	-1	1794	27	0.6
47839.6	10000	41.4617	93.1147	-676	QK	2.7	0	6.6	-1	1.1	1	0.399	1	2.317	0	5.802	-1	1792	38	0.6
47839.5	10000	41.4617	93.1139	-679	QK	2.9	1	6.5	-1	1.1	1	0.437	1	2.623	1	6.000	-1	1800	36	0.6
47839.4	10000	41.4617	93.1131	-684	QK	2.7	0	6.7	-1	1.1	1	0.403	1	2.488	0	6.178	0	1811	57	0.6
47839.3	10000	41.4617	93.1123	-687	QK	2.8	1	6.6	-1	1.1	1	0.419	1	2.601	0	6.201	0	1804	39	0.6
47839.2	10000	41.4617	93.1115	-690	QK	3.1	1	6.6	-1	1.0	1	0.462	2	2.950	1	6.404	0	1799	44	0.6
47839.1	10000	41.4618	93.1107	-693	QK	3.5	1	6.8	-1	1.1	1	0.517	2	3.394	1	6.568	0	1831	25	0.6
47839.0	10000	41.4618	93.1098	-695	QK	3.5	1	6.4	-1	1.0	1	0.543	2	3.279	1	6.044	-1	1825	42	0.6
47838.9	10000	41.4618	93.1090	-697	QK	3.7	1	6.2	-1	1.1	1	0.592	2	3.594	1	6.066	-1	1817	35	0.6
47838.8	10000	41.4618	93.1082	-699	QK	3.4	1	6.2	-1	1.1	1	0.546	2	3.191	1	5.848	-1	1814	45	0.6
47838.7	10000	41.4618	93.1074	-701	QK	3.5	1	6.0	-1	1.1	1	0.538	2	3.028	1	5.625	-1	1821	34	0.6
47838.6	10000	41.4618	93.1066	-703	QK	3.7	1	6.2	-1	1.1	1	0.575	2	3.209	1	5.577	-1	1823	37	0.6
47838.5	10000	41.4618	93.1058	-705	QK	3.4	1	6.0	-2	1.1	1	0.567	2	3.245	1	5.113	-2	1848	49	0.6
47838.4	10000	41.4618	93.1050	-707	QK	3.5	1	6.3	-1	1.2	1	0.563	2	2.868	1	5.055	-2	1865	48	0.6
47838.3	10000	41.4618	93.1042	-708	QK	3.3	1	6.0	-1	1.2	1	0.525	3	2.921	1	5.189	-2	1878	57	0.6
47838.2	10000	41.4618	93.1034	-710	QK	3.3	1	6.3	-1	1.2	1	0.525	3	2.698	1	5.135	-2	1897	56	0.6
47838.1	10000	41.4618	93.1026	-710	QK	3.6	2	6.4	-1	1.3	1	0.551	3	2.759	1	5.008	-2	1896	45	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47838.0	10000	41.4618	93.1018	-710	QK	4.0	3	6.3	-1	1.3	2	0.625	4	3.041	2	4.863	-2	1917	34	0.6
47837.9	10000	41.4618	93.1010	-712	QK	3.4	2	6.2	-1	1.3	2	0.548	3	2.557	2	4.667	-3	1932	39	0.6
47837.8	10000	41.4618	93.1002	-714	QK	3.1	1	6.9	0	1.3	2	0.452	1	2.328	0	5.151	-2	1936	39	0.6
47837.7	10000	41.4618	93.0994	-715	QK	3.2	1	6.8	-1	1.4	2	0.468	2	2.349	0	5.017	-2	1929	46	0.6
47837.6	10000	41.4618	93.0986	-717	QK	2.9	1	7.0	0	1.3	2	0.413	1	2.154	0	5.212	-2	1950	45	0.6
47837.5	10000	41.4618	93.0977	-719	QK	2.6	0	7.2	0	1.4	2	0.367	0	1.919	-1	5.231	-2	1947	41	0.6
47837.4	10000	41.4618	93.0969	-720	QK	2.4	0	7.5	0	1.3	2	0.322	0	1.840	-1	5.705	-1	1947	46	0.6
47837.3	10000	41.4618	93.0961	-721	QK	2.0	-1	7.5	0	1.3	2	0.265	-1	1.524	-2	5.760	-1	1936	32	0.6
47837.2	10000	41.4618	93.0953	-722	QK	2.0	-1	7.9	1	1.3	2	0.254	-1	1.530	-2	6.029	-1	1937	50	0.6
47837.1	10000	41.4618	93.0945	-724	QK	2.1	-1	7.8	1	1.3	2	0.272	-1	1.577	-1	5.807	-1	1937	50	0.6
47837.0	10000	41.4618	93.0937	-725	QK	2.0	-1	7.7	1	1.4	2	0.260	-1	1.471	-2	5.656	-1	1958	44	0.6
47836.9	10000	41.4618	93.0929	-726	QK	2.2	-1	7.8	1	1.4	2	0.278	-1	1.543	-2	5.555	-1	1952	56	0.6
47836.8	10000	41.4618	93.0921	-727	QK	2.4	0	8.1	1	1.4	2	0.292	-1	1.731	-1	5.929	-1	1953	41	0.6
47836.7	10000	41.4618	93.0913	-729	QK	2.3	-1	7.8	1	1.4	2	0.289	-1	1.659	-1	5.746	-1	1940	40	0.6
47836.6	10000	41.4618	93.0905	-731	QK	2.2	-1	8.1	1	1.3	2	0.269	-1	1.635	-1	6.088	-1	1930	43	0.6
47836.5	10000	41.4618	93.0897	-732	QK	2.1	-1	8.0	1	1.3	2	0.265	-1	1.600	-1	6.049	-1	1915	41	0.6
47836.4	10000	41.4618	93.0889	-734	QK	2.1	-1	7.9	1	1.3	1	0.261	-1	1.599	-1	6.125	-1	1905	52	0.6
47836.3	10000	41.4618	93.0881	-735	QK	2.0	-1	8.1	1	1.2	1	0.251	-1	1.667	-1	6.630	0	1884	47	0.6
47836.2	10000	41.4618	93.0872	-736	QK	2.2	-1	7.9	1	1.2	0	0.281	-1	1.875	-1	6.681	0	1862	47	0.6
47836.1	10000	41.4618	93.0865	-738	QK	2.4	0	7.7	1	1.1	0	0.307	-1	2.068	0	6.735	0	1837	49	0.6
47836.0	10000	41.4618	93.0856	-739	QK	2.8	1	7.9	1	1.1	0	0.355	0	2.533	1	7.142	1	1833	56	0.6
47835.9	10000	41.4618	93.0848	-741	QK	2.8	1	7.5	1	1.0	-1	0.374	0	2.718	1	7.263	1	1812	42	0.6
47835.8	10000	41.4618	93.0840	-742	QK	3.0	1	7.1	0	1.0	-1	0.414	1	2.909	1	7.029	1	1793	41	0.6
47835.7	10000	41.4618	93.0832	-744	QK	3.1	1	7.0	0	1.0	-1	0.451	1	3.107	2	6.890	1	1784	41	0.6
47835.6	10000	41.4618	93.0824	-745	QK	3.3	2	6.7	-1	1.0	-1	0.489	2	3.296	2	6.742	0	1775	48	0.6
47835.5	10000	41.4618	93.0816	-746	QK	3.0	1	6.9	0	1.0	-1	0.443	1	3.107	2	7.015	1	1777	40	0.6
47835.4	10000	41.4618	93.0808	-747	QK	3.4	2	6.6	-1	1.0	-1	0.516	2	3.391	2	6.569	0	1797	41	0.6
47835.3	10000	41.4618	93.0800	-748	QK	3.3	2	6.4	-1	1.0	-1	0.524	2	3.426	2	6.533	0	1815	54	0.6
47835.2	10000	41.4618	93.0792	-749	QK	3.8	2	6.4	-1	1.1	-1	0.587	2	3.510	2	5.978	-1	1841	52	0.6
47835.1	10000	41.4618	93.0784	-750	QK	3.7	2	6.4	-1	1.1	-1	0.575	2	3.429	2	5.964	-1	1875	39	0.6
47835.0	10000	41.4618	93.0776	-751	QK	3.4	2	6.6	-1	1.1	-1	0.525	2	3.157	2	6.012	-1	1883	46	0.6
47834.9	10000	41.4618	93.0768	-752	QK	3.4	2	6.8	-1	1.1	-1	0.496	2	3.107	2	6.258	-1	1876	45	0.6
47834.8	10000	41.4618	93.0760	-753	QK	3.4	2	6.5	-1	1.1	-1	0.524	2	3.144	2	5.997	-1	1874	49	0.6
47834.7	10000	41.4618	93.0751	-753	QK	3.0	1	6.9	0	1.1	-1	0.435	1	2.742	2	6.301	-1	1871	36	0.6
47834.6	10000	41.4619	93.0743	-755	QK	2.9	1	6.7	-1	1.1	-1	0.436	1	2.564	2	5.887	-1	1881	36	0.6
47834.5	10000	41.4619	93.0735	-756	QK	3.0	2	6.6	-1	1.1	-1	0.450	1	2.838	2	6.305	-1	1889	50	0.6
47834.4	10000	41.4619	93.0727	-757	QK	3.2	2	7.2	0	1.0	-1	0.451	1	3.217	2	7.133	0	1902	35	0.6
47834.3	10000	41.4619	93.0719	-757	QK	3.2	2	7.4	0	1.0	-1	0.435	1	3.295	2	7.574	0	1908	34	0.6
47834.2	10000	41.4619	93.0711	-757	QK	3.6	2	7.6	0	1.0	-1	0.472	1	3.630	2	7.687	0	1949	43	0.6
47834.1	10000	41.4619	93.0703	-758	QK	3.6	2	8.0	0	1.0	-1	0.448	1	3.694	2	8.237	0	1968	37	0.6
47834.0	10000	41.4619	93.0695	-758	QK	3.6	2	8.0	0	1.0	-1	0.450	1	3.604	2	8.011	0	1963	47	0.6
47833.9	10000	41.4619	93.0687	-759	QK	3.4	1	8.0	0	1.0	-1	0.430	1	3.433	2	7.981	0	1956	50	0.6
47833.8	10000	41.4619	93.0679	-760	QK	3.0	1	8.1	0	1.1	-1	0.372	1	3.048	2	8.197	0	1938	40	0.6
47833.7	10000	41.4619	93.0671	-760	QK	3.0	1	8.2	0	1.1	-1	0.364	1	2.803	2	7.704	0	1922	42	0.6
47833.6	10000	41.4619	93.0663	-761	QK	3.3	1	8.2	0	1.1	-1	0.403	1	3.056	2	7.584	0	1924	37	0.6
47833.5	10000	41.4619	93.0655	-762	QK	3.0	1	8.1	0	1.1	-1	0.368	1	2.687	2	7.307	0	1896	46	0.6
47833.4	10000	41.4619	93.0647	-763	QK	2.8	1	8.0	0	1.1	-1	0.383	1	2.661	2	6.943	0	1883	38	0.6
47833.3	10000	41.4619	93.0639	-765	QK	2.7	1	7.8	0	1.2	-1	0.365	1	2.433	2	6.660	0	1885	44	0.6
47833.2	10000	41.4619	93.0630	-766	QK	2.6	1	7.8	0	1.2	-1	0.340	1	2.285	2	6.717	0	1880	44	0.6
47833.1	10000	41.4619	93.0622	-766	QK	2.8	1	7.3	0	1.2	-1	0.362	1	2.529	2	6.156	0	1886	44	0.6
47833.0	10000	41.4619	93.0614	-767	QK	2.7	1	7.1	0	1.2	-1	0.401	1	2.499	2	6.226	0	1877	50	0.6
47832.9	10000	41.4619	93.0606	-768	QK	2.9	1	7.4	0	1.1	0	0.389	1	2.511	1	6.463	0	1871	48	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47832.8	10000	41.4619	93.0598	-770	QK	2.8	1	7.0	0	1.2	0	0.404	1	2.461	0	6.087	-1	1863	37	0.6
47832.7	10000	41.4619	93.0590	-771	QK	2.7	0	7.3	0	1.1	0	0.366	0	2.432	0	6.642	0	1869	38	0.6
47832.6	10000	41.4619	93.0582	-771	QK	2.9	1	7.7	0	1.1	0	0.385	0	2.685	1	6.981	1	1886	41	0.6
47832.5	10000	41.4619	93.0574	-771	QK	3.0	1	7.4	0	1.1	0	0.405	1	2.601	1	6.427	0	1891	41	0.6
47832.4	10000	41.4619	93.0566	-771	QK	3.0	1	7.5	0	1.2	1	0.397	1	2.494	0	6.290	0	1906	42	0.6
47832.3	10000	41.4619	93.0558	-772	QK	2.7	0	8.1	1	1.2	1	0.334	0	2.179	0	6.523	0	1919	41	0.6
47832.2	10000	41.4619	93.0550	-772	QK	2.3	0	7.8	1	1.3	1	0.299	-1	1.858	-1	6.212	0	1916	39	0.6
47832.1	10000	41.4619	93.0542	-772	QK	2.4	0	8.1	1	1.2	1	0.295	-1	1.957	-1	6.626	0	1935	53	0.6
47832.0	10000	41.4619	93.0534	-772	QK	2.6	0	7.9	1	1.3	2	0.323	0	1.951	-1	6.031	-1	1943	40	0.6
47831.9	10000	41.4619	93.0526	-772	QK	2.4	0	7.8	1	1.4	2	0.307	-1	1.756	-1	5.719	-1	1939	43	0.6
47831.8	10000	41.4619	93.0518	-773	QK	2.3	0	8.1	1	1.3	2	0.287	-1	1.757	-1	6.120	-1	1942	47	0.6
47831.7	10000	41.4619	93.0509	-773	QK	2.2	-1	8.3	2	1.3	2	0.261	-1	1.650	-1	6.332	0	1945	30	0.6
47831.6	10000	41.4619	93.0501	-774	QK	2.4	0	8.0	1	1.3	2	0.298	-1	1.799	-1	6.042	-1	1966	48	0.6
47831.5	10000	41.4619	93.0493	-774	QK	2.7	0	7.8	1	1.3	2	0.351	0	2.061	0	5.874	-1	1980	36	0.6
47831.4	10000	41.4619	93.0485	-774	QK	2.7	0	7.6	0	1.3	2	0.358	0	2.028	-1	5.658	-1	1982	53	0.6
47831.3	10000	41.4619	93.0477	-775	QK	2.8	1	7.3	0	1.3	1	0.385	1	2.194	0	5.697	-1	1971	43	0.6
47831.2	10000	41.4619	93.0469	-776	QK	2.8	1	7.1	0	1.2	1	0.392	1	2.285	0	5.828	-1	1936	42	0.6
47831.1	10000	41.4619	93.0461	-776	QK	3.0	1	7.0	0	1.2	1	0.426	1	2.469	0	5.799	-1	1917	37	0.6
47831.0	10000	41.4619	93.0453	-777	QK	3.2	1	6.9	0	1.1	0	0.465	2	2.854	1	6.142	0	1906	44	0.6
47830.9	10000	41.4619	93.0445	-777	QK	3.3	2	6.7	-1	1.1	0	0.491	2	3.102	2	6.323	0	1871	35	0.6
47830.8	10000	41.4619	93.0437	-777	QK	3.2	1	7.2	0	1.0	-1	0.444	1	3.104	2	6.997	1	1847	45	0.6
47830.7	10000	41.4619	93.0429	-778	QK	3.1	1	6.9	0	1.0	-1	0.452	1	3.202	2	7.084	1	1821	29	0.6
47830.6	10000	41.4619	93.0421	-778	QK	3.2	1	7.4	0	1.0	-1	0.439	1	3.351	2	7.636	2	1811	34	0.6
47830.5	10000	41.4619	93.0413	-779	QK	3.7	2	7.4	0	0.9	-1	0.495	2	3.884	3	7.841	2	1833	37	0.6
47830.4	10000	41.4619	93.0405	-780	QK	3.7	2	7.2	0	1.0	-1	0.510	2	3.831	3	7.514	1	1850	30	0.6
47830.3	10000	41.4619	93.0396	-780	QK	3.8	2	7.4	0	1.0	-1	0.513	2	3.794	3	7.398	1	1851	36	0.6
47830.2	10000	41.4619	93.0388	-780	QK	3.8	2	7.5	0	1.1	-1	0.505	2	3.579	3	7.091	1	1870	40	0.6
47830.1	10000	41.4619	93.0380	-781	QK	3.5	2	7.4	0	1.1	0	0.481	2	3.258	3	6.781	0	1868	37	0.6
47830.0	10000	41.4619	93.0372	-781	QK	3.6	2	7.9	0	1.2	0	0.462	2	3.150	3	6.818	0	1888	38	0.6
47829.9	10000	41.4619	93.0364	-782	QK	3.4	2	7.6	0	1.2	0	0.441	2	2.860	3	6.487	0	1903	45	0.6
47829.8	10000	41.4619	93.0356	-782	QK	3.1	1	8.0	1	1.2	1	0.383	1	2.483	2	6.480	0	1914	44	0.6
47829.7	10000	41.4620	93.0348	-782	QK	3.0	1	7.9	1	1.3	1	0.378	1	2.370	2	6.271	0	1915	38	0.6
47829.6	10000	41.4620	93.0340	-782	QK	2.7	0	7.9	1	1.3	0	0.338	0	2.093	1	6.195	0	1907	38	0.6
47829.5	10000	41.4620	93.0332	-782	QK	2.4	0	7.7	1	1.3	0	0.311	-1	1.888	-1	6.077	-1	1891	39	0.6
47829.4	10000	41.4620	93.0324	-781	QK	2.3	0	7.7	1	1.3	0	0.302	-1	1.809	-1	5.982	-1	1899	39	0.6
47829.3	10000	41.4620	93.0316	-780	QK	2.5	0	7.8	1	1.3	0	0.323	0	1.938	-1	5.997	-1	1909	48	0.6
47829.2	10000	41.4620	93.0308	-780	QK	2.3	0	8.1	1	1.3	0	0.286	-1	1.768	-1	6.186	-1	1891	47	0.6
47829.1	10000	41.4620	93.0300	-782	QK	2.1	-1	8.1	1	1.3	0	0.256	-1	1.555	-2	6.078	-1	1859	38	0.6
47829.0	10000	41.4620	93.0292	-783	QK	1.9	-1	8.2	1	1.3	0	0.227	-2	1.455	-2	6.396	0	1832	34	0.6
47828.9	10000	41.4620	93.0284	-783	QK	1.8	-1	7.9	1	1.3	0	0.229	-2	1.367	-2	5.969	-1	1821	40	0.6
47828.8	10000	41.4620	93.0275	-783	QK	1.8	-1	8.1	1	1.3	0	0.227	-2	1.404	-2	6.189	0	1818	43	0.6
47828.7	10000	41.4620	93.0267	-780	QK	1.9	-1	7.8	1	1.3	0	0.241	-2	1.427	-2	5.922	-1	1831	35	0.6
47828.6	10000	41.4620	93.0259	-781	QK	1.7	-2	7.4	1	1.3	0	0.234	-2	1.307	-2	5.580	-1	1816	36	0.6
47828.5	10000	41.4620	93.0251	-783	QK	1.9	-1	7.3	1	1.3	0	0.267	-1	1.422	-2	5.333	-2	1833	43	0.6
47828.4	10000	41.4620	93.0243	-784	QK	2.0	-1	7.3	1	1.4	0	0.272	-1	1.482	-2	5.457	-1	1864	38	0.6
47828.3	10000	41.4620	93.0235	-785	QK	1.9	-1	7.2	1	1.3	0	0.268	-1	1.410	-2	5.258	-2	1898	37	0.6
47828.2	10000	41.4620	93.0227	-785	QK	2.1	-1	7.9	1	1.4	0	0.299	-1	1.592	-1	5.330	-2	1923	49	0.6
47828.1	10000	41.4620	93.0219	-786	QK	2.3	-1	7.1	1	1.4	0	0.329	-1	1.676	-1	5.093	-2	1944	39	0.6
47828.0	10000	41.4620	93.0211	-786	QK	2.3	-1	7.5	1	1.3	0	0.323	-1	1.687	-1	5.225	-2	1937	46	0.6
47827.9	10000	41.4620	93.0203	-787	QK	2.1	-1	7.8	1	1.4	0	0.282	-1	1.581	-2	5.605	-1	1942	46	0.6
47827.8	10000	41.4620	93.0195	-787	QK	2.0	-1	7.8	1	1.4	0	0.261	-1	1.507	-2	5.773	-1	1935	46	0.6
47827.7	10000	41.4620	93.0187	-788	QK	2.0	-1	7.8	1	1.3	0	0.259	-1	1.526	-2	5.889	-1	1941	45	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47827.6	10000	41.4620	93.0179	-788	QK	2.1	-1	8.1	1	1.3	1	0.261	-1	1.645	-1	6.302	0	1931	33	0.6
47827.5	10000	41.4620	93.0170	-789	QK	1.9	-1	8.4	2	1.3	1	0.227	-2	1.501	-2	6.617	0	1908	55	0.6
47827.4	10000	41.4620	93.0163	-790	QK	1.7	-2	8.7	2	1.2	1	0.190	-2	1.325	-2	6.967	1	1890	54	0.6
47827.3	10000	41.4620	93.0154	-790	QK	1.8	-2	8.8	2	1.2	1	0.203	-2	1.484	-2	7.300	1	1880	48	0.6
47827.2	10000	41.4620	93.0146	-791	QK	1.9	-1	8.8	2	1.2	1	0.220	-2	1.604	-1	7.298	1	1868	55	0.6
47827.1	10000	41.4620	93.0138	-791	QK	2.1	-1	8.2	1	1.2	1	0.258	-1	1.775	-1	6.872	1	1879	45	0.6
47827.0	10000	41.4620	93.0130	-790	QK	2.2	-1	8.1	1	1.2	0	0.274	-1	1.898	-1	6.935	1	1868	40	0.6
47826.9	10000	41.4620	93.0122	-789	QK	2.2	-1	8.4	2	1.2	0	0.260	-1	1.891	-1	7.276	1	1863	43	0.6
47826.8	10000	41.4620	93.0114	-788	QK	2.2	-1	8.4	2	1.1	0	0.260	-1	1.925	-1	7.411	1	1857	48	0.6
47826.7	10000	41.4620	93.0106	-787	QK	2.3	-1	8.0	1	1.1	0	0.281	-1	2.004	-1	7.138	1	1835	41	0.6
47826.6	10000	41.4620	93.0098	-787	QK	2.4	0	8.0	1	1.1	0	0.304	-1	2.184	0	7.190	1	1816	49	0.6
47826.5	10000	41.4620	93.0090	-787	QK	2.3	0	7.8	1	1.1	0	0.302	-1	2.179	0	7.220	1	1802	40	0.6
47826.4	10000	41.4620	93.0082	-786	QK	2.3	0	8.1	1	1.0	-1	0.280	-1	2.211	0	7.891	2	1785	44	0.6
47826.3	10000	41.4620	93.0074	-785	QK	2.2	-1	7.6	1	1.0	-1	0.291	-1	2.156	0	7.400	1	1775	53	0.6
47826.2	10000	41.4620	93.0066	-784	QK	2.2	-1	7.1	1	1.0	-1	0.307	-1	2.132	0	6.953	1	1751	44	0.7
47826.1	10000	41.4620	93.0058	-783	QK	2.5	0	7.2	0	1.0	-1	0.346	0	2.455	0	7.093	1	1746	46	0.7
47826.0	10000	41.4620	93.0049	-781	QK	2.6	0	7.2	1	1.0	-1	0.366	0	2.600	1	7.112	1	1756	51	0.7
47825.9	10000	41.4620	93.0041	-780	QK	2.8	1	7.1	1	1.1	-1	0.394	1	2.644	1	6.707	0	1797	46	0.7
47825.8	10000	41.4620	93.0033	-778	QK	2.9	1	7.4	1	1.1	0	0.394	1	2.702	1	6.864	1	1820	44	0.7
47825.7	10000	41.4620	93.0025	-775	QK	2.8	1	7.7	1	1.1	0	0.362	0	2.579	1	7.115	1	1826	33	0.7
47825.6	10000	41.4620	93.0017	-773	QK	2.7	0	8.0	1	1.1	0	0.337	0	2.526	1	7.499	1	1830	38	0.7
47825.5	10000	41.4620	93.0009	-771	QK	3.1	1	7.9	1	1.1	0	0.395	1	2.828	1	7.155	1	1852	42	0.7
47825.4	10000	41.4620	93.0001	-768	QK	3.1	1	7.5	0	1.2	0	0.417	1	2.653	1	6.365	0	1888	35	0.7
47825.3	10000	41.4620	92.9993	-764	QK	3.0	1	7.9	1	1.2	1	0.376	0	2.498	0	6.640	0	1906	35	0.7
47825.2	10000	41.4620	92.9985	-762	QK	2.7	1	8.1	1	1.2	1	0.332	0	2.260	0	6.805	0	1892	39	0.7
47825.1	10000	41.4620	92.9977	-758	QK	2.7	0	7.8	1	1.2	1	0.352	0	2.290	0	6.501	0	1904	44	0.7
47825.0	10000	41.4620	92.9969	-754	QK	2.7	0	7.3	1	1.2	1	0.373	0	2.290	0	6.132	0	1909	37	0.7
47824.9	10000	41.4620	92.9961	-750	QK	3.0	1	7.3	1	1.2	1	0.412	1	2.433	0	5.910	-1	1923	45	0.7
47824.8	10000	41.4620	92.9953	-746	QK	2.7	0	7.4	1	1.2	1	0.369	0	2.188	0	5.936	-1	1933	45	0.7
47824.7	10000	41.4620	92.9945	-743	QK	2.6	0	7.3	1	1.2	1	0.355	0	2.146	0	6.040	-1	1922	52	0.7
47824.6	10000	41.4620	92.9937	-739	QK	2.6	0	7.0	1	1.2	1	0.377	0	2.117	0	5.613	-1	1921	49	0.7
47824.5	10000	41.4620	92.9928	-736	QK	2.6	0	6.9	1	1.3	1	0.379	0	2.053	0	5.415	-2	1933	27	0.8
47824.4	10000	41.4620	92.9920	-732	QK	2.5	0	6.7	1	1.3	1	0.372	0	1.917	-1	5.148	-2	1939	48	0.8
47824.3	10000	41.4620	92.9912	-728	QK	2.5	-1	6.9	1	1.4	2	0.367	0	1.862	-1	5.070	-2	1947	54	0.8
47824.2	10000	41.4620	92.9904	-724	QK	2.5	-1	6.6	1	1.3	2	0.375	0	1.882	-1	5.021	-2	1939	37	0.8
47824.1	10000	41.4620	92.9896	-720	QK	2.4	-1	6.7	1	1.3	2	0.357	0	1.839	-1	5.149	-2	1936	47	0.8
47824.0	10000	41.4620	92.9888	-715	QK	2.4	0	6.9	1	1.3	2	0.353	0	1.866	-1	5.281	-2	1937	32	0.8
47823.9	10000	41.4620	92.9880	-711	QK	2.3	0	7.1	1	1.3	2	0.330	0	1.771	-1	5.362	-2	1938	44	0.8
47823.8	10000	41.4621	92.9872	-706	QK	2.4	0	7.1	1	1.4	2	0.338	0	1.753	-1	5.189	-2	1944	51	0.8
47823.7	10000	41.4621	92.9864	-701	QK	2.4	0	7.3	1	1.4	2	0.326	0	1.722	-1	5.281	-2	1948	58	0.8
47823.6	10000	41.4621	92.9856	-696	QK	2.4	0	7.3	1	1.4	2	0.337	0	1.829	-1	5.423	-2	1931	31	0.8
47823.5	10000	41.4621	92.9848	-691	QK	2.4	0	7.2	1	1.4	2	0.331	0	1.739	-1	5.246	-2	1931	49	0.8
47823.4	10000	41.4621	92.9840	-687	QK	2.5	0	7.3	1	1.4	2	0.340	0	1.765	-1	5.196	-2	1941	40	0.9
47823.3	10000	41.4621	92.9832	-683	QK	2.1	-1	7.0	1	1.4	2	0.301	-1	1.487	-2	4.936	-2	1938	35	0.9
47823.2	10000	41.4621	92.9824	-679	QK	2.3	0	7.1	1	1.4	2	0.327	0	1.641	-1	5.025	-2	1927	39	0.9
47823.1	10000	41.4621	92.9816	-674	QK	2.4	0	7.0	1	1.4	2	0.339	0	1.746	-1	5.154	-2	1922	42	0.9
47823.0	10000	41.4621	92.9807	-670	QK	2.4	0	7.4	1	1.3	2	0.316	0	1.820	-1	5.754	-1	1921	45	0.9
47822.9	10000	41.4621	92.9799	-666	QK	2.3	0	7.4	1	1.2	2	0.316	0	1.836	-1	5.813	-1	1952	34	0.9
47822.8	10000	41.4620	92.9791	-662	QK	2.6	0	7.3	1	1.2	2	0.355	0	2.150	0	6.053	-1	1973	38	0.9
47822.7	10000	41.4620	92.9783	-659	QK	2.9	1	7.7	1	1.2	2	0.399	1	2.358	0	5.913	-1	1990	38	0.9
47822.6	10000	41.4620	92.9775	-656	QK	3.1	1	7.7	1	1.2	2	0.403	1	2.626	1	6.522	0	2018	43	0.9
47822.5	10000	41.4620	92.9767	-653	QK	3.1	1	7.7	1	1.2	2	0.401	1	2.627	1	6.551	0	2039	48	0.9

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47822.4	10000	41.4620	92.9759	-650	QK	2.9	1	8.1	1	1.2	0	0.356	0	2.496	0	7.017	1	2041	37	0.9
47822.3	10000	41.4620	92.9751	-647	QK	3.1	1	7.6	1	1.2	0	0.401	1	2.614	0	6.512	0	2039	35	1.0
47822.2	10000	41.4620	92.9743	-645	QK	3.3	2	7.6	1	1.2	1	0.438	1	2.779	1	6.346	0	2032	45	1.0
47822.1	10000	41.4620	92.9735	-642	QK	3.0	1	8.1	1	1.2	1	0.376	0	2.515	1	6.695	0	2026	43	1.0
47822.0	10000	41.4620	92.9727	-640	QK	3.0	1	7.8	1	1.2	1	0.386	0	2.514	1	6.515	0	2000	55	1.0
47821.9	10000	41.4620	92.9719	-638	QK	3.0	1	7.6	1	1.2	1	0.400	1	2.553	1	6.375	0	1991	60	1.0
47821.8	10000	41.4620	92.9711	-635	QK	3.1	1	7.8	1	1.2	0	0.402	1	2.655	1	6.598	0	1991	60	1.0
47821.7	10000	41.4620	92.9703	-632	QK	3.3	2	7.5	1	1.2	0	0.440	1	2.823	1	6.423	0	1993	27	1.0
47821.6	10000	41.4620	92.9695	-630	QK	3.3	2	7.6	0	1.2	0	0.428	1	2.800	1	6.535	0	1989	35	1.0
47821.5	10000	41.4620	92.9687	-627	QK	3.1	1	8.0	1	1.1	0	0.392	1	2.738	1	6.992	1	1981	34	1.0
47821.4	10000	41.4620	92.9679	-624	QK	3.1	1	7.7	1	1.1	0	0.404	1	2.862	1	7.091	1	1971	46	1.0
47821.3	10000	41.4620	92.9671	-621	QK	3.1	1	8.4	2	1.0	-1	0.367	0	2.974	1	8.107	2	1984	38	1.1
47821.2	10000	41.4620	92.9663	-619	QK	3.1	1	8.3	1	1.0	-1	0.376	0	3.033	2	8.074	2	1963	39	1.1
47821.1	10000	41.4620	92.9655	-615	QK	2.9	1	8.2	1	1.0	-1	0.355	0	2.857	1	8.053	2	1945	40	1.1
47821.0	10000	41.4620	92.9647	-613	QK	2.8	1	8.5	2	1.0	-1	0.326	0	2.670	1	8.194	2	1950	38	1.1
47820.9	10000	41.4620	92.9639	-610	QK	2.7	0	8.2	1	1.1	-1	0.322	0	2.520	1	7.832	2	1938	45	1.1
47820.8	10000	41.4620	92.9630	-607	QK	2.5	0	8.1	1	1.1	0	0.311	-1	2.309	0	7.434	1	1950	50	1.1
47820.7	10000	41.4620	92.9622	-604	QK	2.7	0	8.1	1	1.1	0	0.336	0	2.362	0	7.039	1	1972	36	1.1
47820.6	10000	41.4620	92.9614	-600	QK	2.8	1	7.8	1	1.2	1	0.355	0	2.243	0	6.320	0	1982	51	1.1
47820.5	10000	41.4620	92.9606	-597	QK	2.7	0	8.0	1	1.3	1	0.333	0	2.120	0	6.360	0	1994	37	1.1
47820.4	10000	41.4620	92.9598	-594	QK	2.7	0	8.1	1	1.3	1	0.336	0	2.135	0	6.349	0	2001	43	1.1
47820.3	10000	41.4620	92.9590	-592	QK	3.0	1	7.6	1	1.3	1	0.386	0	2.338	0	6.055	-1	1989	47	1.2
47820.2	10000	41.4620	92.9582	-589	QK	3.0	1	7.9	1	1.2	1	0.382	0	2.441	0	6.391	0	1992	34	1.2
47820.1	10000	41.4620	92.9574	-587	QK	3.0	1	7.5	0	1.2	1	0.397	1	2.445	0	6.156	0	1970	32	1.2
47820.0	10000	41.4620	92.9566	-585	QK	2.7	0	7.6	0	1.2	1	0.354	0	2.203	0	6.231	0	1944	38	1.2
47819.9	10000	41.4620	92.9558	-584	QK	2.5	0	7.5	0	1.1	1	0.329	0	2.164	0	6.582	0	1920	50	1.2
47819.8	10000	41.4620	92.9550	-582	QK	2.6	0	7.5	0	1.1	1	0.362	0	2.296	0	6.343	0	1914	52	1.2
47819.7	10000	41.4620	92.9542	-581	QK	2.5	0	7.3	0	1.1	1	0.344	0	2.260	0	6.573	0	1914	40	1.2
47819.6	10000	41.4620	92.9534	-580	QK	2.4	0	7.1	0	1.1	1	0.338	0	2.190	0	6.475	0	1892	25	1.2
47819.5	10000	41.4620	92.9526	-578	QK	2.3	0	6.9	0	1.1	1	0.332	0	2.107	0	6.347	0	1870	38	1.2
47819.4	10000	41.4620	92.9518	-575	QK	2.5	0	6.9	0	1.1	1	0.359	0	2.324	0	6.475	0	1859	41	1.2
47819.3	10000	41.4620	92.9510	-572	QK	2.8	1	6.5	-1	1.0	-1	0.437	1	2.712	0	6.208	0	1851	41	1.3
47819.2	10000	41.4620	92.9502	-574	QK	2.6	1	6.3	-1	1.1	0	0.417	1	2.385	-1	5.715	-1	1857	53	1.3
47819.1	10000	41.4620	92.9494	-577	QK	2.6	1	6.2	-1	1.1	0	0.416	1	2.306	-1	5.549	-1	1855	39	1.3
47819.0	10000	41.4620	92.9486	-576	QK	2.6	1	5.9	-2	1.2	1	0.431	1	2.184	-1	5.072	-2	1867	45	1.3
47818.9	10000	41.4620	92.9478	-576	QK	2.4	1	6.5	-1	1.2	1	0.362	1	2.003	-1	5.534	-1	1905	47	1.3
47818.8	10000	41.4620	92.9470	-574	QK	2.6	1	6.7	-1	1.2	1	0.394	1	2.190	-1	5.555	-1	1945	44	1.3
47818.7	10000	41.4620	92.9462	-572	QK	2.6	1	6.9	0	1.2	1	0.369	1	2.120	-1	5.753	-1	1976	37	1.3
47818.6	10000	41.4620	92.9453	-571	QK	2.4	1	7.5	1	1.2	1	0.323	1	1.973	-1	6.102	-1	2001	57	1.3
47818.5	10000	41.4620	92.9445	-572	QK	2.7	1	7.3	1	1.1	0	0.370	1	2.357	0	6.366	0	2005	41	1.3
47818.4	10000	41.4620	92.9437	-572	QK	2.8	1	7.4	1	1.1	0	0.385	1	2.640	1	6.865	1	2012	36	1.3
47818.3	10000	41.4620	92.9429	-572	QK	2.8	1	7.8	1	1.0	-1	0.361	1	2.741	1	7.602	2	1995	51	1.3
47818.2	10000	41.4620	92.9421	-572	QK	3.0	1	7.8	1	1.0	-1	0.379	1	2.908	1	7.683	2	1977	42	1.3
47818.1	10000	41.4620	92.9413	-572	QK	2.7	1	8.1	1	1.0	-1	0.332	1	2.749	1	8.284	3	1957	43	1.3
47818.0	10000	41.4620	92.9405	-572	QK	2.4	1	7.9	1	0.9	-1	0.307	1	2.496	1	8.125	2	1923	46	1.4
47817.9	10000	41.4620	92.9397	-572	QK	2.4	1	7.6	1	1.0	-1	0.314	1	2.519	1	8.022	2	1901	46	1.4
47817.8	10000	41.4620	92.9389	-573	QK	2.2	1	7.8	1	1.0	-1	0.284	1	2.266	1	7.982	2	1880	42	1.4
47817.7	10000	41.4620	92.9381	-573	QK	2.2	1	7.9	1	1.0	-1	0.281	1	2.248	1	7.995	2	1868	23	1.4
47817.6	10000	41.4620	92.9373	-574	QK	2.5	1	7.5	1	1.0	-1	0.333	1	2.472	1	7.426	2	1882	36	1.4
47817.5	10000	41.4620	92.9365	-574	QK	2.6	1	7.1	1	1.0	-1	0.369	1	2.688	1	7.288	2	1892	43	1.4
47817.4	10000	41.4620	92.9357	-574	QK	2.8	1	6.8	-1	1.0	-1	0.406	1	2.751	1	6.777	1	1894	49	1.4
47817.3	10000	41.4620	92.9349	-575	QK	3.0	1	6.9	0	1.0	-1	0.434	1	2.989	2	6.893	1	1918	44	1.4

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47817.2	10000	41.4620	92.9341	-575	QK	2.9	1	6.8	-1	1.0	-1	0.427	1	2.886	1	6.765	0	1927	52	1.4
47817.1	10000	41.4620	92.9333	-577	QK	2.8	1	6.9	0	1.0	-1	0.403	1	2.795	1	6.941	1	1925	41	1.4
47817.0	10000	41.4620	92.9325	-578	QK	2.5	0	6.4	-1	1.0	-1	0.397	1	2.574	1	6.485	0	1913	37	1.4
47816.9	10000	41.4620	92.9317	-579	QK	2.5	0	6.7	-1	1.0	-1	0.378	0	2.538	1	6.707	0	1908	30	1.4
47816.8	10000	41.4620	92.9309	-581	QK	2.4	0	6.8	-1	1.0	-1	0.354	0	2.354	0	6.646	0	1906	47	1.4
47816.7	10000	41.4620	92.9301	-582	QK	2.5	0	6.5	-1	1.0	-1	0.386	0	2.441	0	6.327	0	1917	47	1.4
47816.6	10000	41.4620	92.9293	-584	QK	2.4	0	6.8	-1	1.1	-1	0.355	0	2.289	0	6.450	0	1941	48	1.4
47816.5	10000	41.4620	92.9285	-586	QK	2.5	0	6.9	0	1.1	0	0.360	0	2.307	0	6.408	0	1956	33	1.4
47816.4	10000	41.4620	92.9276	-587	QK	2.5	0	6.7	-1	1.2	0	0.377	0	2.204	0	5.852	-1	1973	38	1.4
47816.3	10000	41.4620	92.9268	-589	QK	2.7	0	7.2	0	1.2	1	0.374	0	2.182	0	5.837	-1	1999	40	1.4
47816.2	10000	41.4620	92.9260	-592	QK	2.5	0	6.7	-1	1.2	1	0.373	0	2.069	0	5.549	-1	1988	37	1.4
47816.1	10000	41.4620	92.9252	-595	QK	2.5	0	6.7	-1	1.2	1	0.375	0	2.050	0	5.471	-1	1990	32	1.4
47816.0	10000	41.4620	92.9244	-598	QK	2.3	-1	7.1	0	1.2	1	0.320	0	1.847	-1	5.781	-1	1975	38	1.4
47815.9	10000	41.4620	92.9236	-602	QK	2.2	-1	7.1	0	1.2	1	0.314	-1	1.800	-1	5.724	-1	1964	31	1.4
47815.8	10000	41.4620	92.9228	-604	QK	2.0	-1	7.5	0	1.3	1	0.271	-1	1.621	-1	5.985	-1	1972	42	1.4
47815.7	10000	41.4620	92.9220	-608	QK	2.3	0	7.4	0	1.2	1	0.312	-1	1.869	-1	5.990	-1	1987	38	1.4
47815.6	10000	41.4620	92.9212	-613	QK	2.1	-1	7.5	0	1.2	0	0.280	-1	1.806	-1	6.455	0	1988	48	1.4
47815.5	10000	41.4620	92.9204	-616	QK	2.0	-1	8.1	1	1.2	1	0.254	-1	1.686	-1	6.647	0	2009	54	1.4
47815.4	10000	41.4620	92.9196	-620	QK	1.8	-1	8.3	1	1.2	1	0.222	-2	1.480	-2	6.658	0	2009	44	1.4
47815.3	10000	41.4620	92.9188	-624	QK	1.9	-1	8.2	1	1.3	1	0.230	-2	1.478	-2	6.437	0	2025	37	1.4
47815.2	10000	41.4620	92.9180	-629	QK	2.0	-1	8.1	1	1.3	1	0.245	-1	1.568	-1	6.398	0	2026	48	1.4
47815.1	10000	41.4620	92.9172	-633	QK	2.1	-1	7.8	1	1.2	1	0.265	-1	1.670	-1	6.289	0	2002	36	1.4
47815.0	10000	41.4620	92.9164	-638	QK	1.9	-1	8.3	2	1.2	1	0.227	-2	1.594	-1	7.018	1	1986	41	1.4
47814.9	10000	41.4620	92.9156	-643	QK	2.2	-1	8.5	2	1.2	1	0.257	-1	1.801	-1	7.020	1	1994	38	1.4
47814.8	10000	41.4620	92.9148	-649	QK	2.3	0	8.4	2	1.2	1	0.278	-1	1.925	-1	6.935	1	1987	36	1.5
47814.7	10000	41.4620	92.9140	-653	QK	2.7	0	8.2	2	1.2	1	0.323	0	2.299	0	7.129	1	1996	42	1.5
47814.6	10000	41.4619	92.9132	-659	QK	2.7	0	7.9	1	1.2	1	0.341	0	2.397	0	7.031	1	1990	34	1.5
47814.5	10000	41.4619	92.9124	-665	QK	2.6	0	8.1	2	1.2	1	0.322	0	2.240	0	6.946	1	1984	25	1.5
47814.4	10000	41.4619	92.9116	-670	QK	2.6	0	8.3	2	1.2	1	0.311	0	2.198	0	7.06:	1	2004	59	1.5
47814.3	10000	41.4619	92.9108	-675	QK	2.6	0	8.3	2	1.2	1	0.314	0	2.124	0	6.770	0	2007	36	1.4
47814.2	10000	41.4619	92.9099	-680	QK	2.5	0	7.9	1	1.2	1	0.318	0	2.000	-1	6.285	0	2001	46	1.4
47814.1	10000	41.4619	92.9091	-686	QK	2.5	0	7.9	1	1.2	1	0.316	0	1.995	-1	6.323	0	1996	55	1.4
47814.0	10000	41.4619	92.9083	-692	QK	2.4	0	7.9	1	1.2	1	0.305	0	1.878	-1	6.149	0	1992	39	1.4
47813.9	10000	41.4619	92.9075	-698	QK	2.5	0	8.1	2	1.2	1	0.305	0	1.889	-1	6.189	0	2010	54	1.4
47813.8	10000	41.4619	92.9067	-705	QK	2.6	0	7.5	1	1.3	1	0.351	0	2.068	0	5.894	-1	2017	50	1.4
47813.7	10000	41.4619	92.9059	-711	QK	3.0	1	7.3	1	1.3	1	0.403	0	2.304	0	5.719	-1	2021	36	1.4
47813.6	10000	41.4619	92.9051	-717	QK	3.0	1	7.4	1	1.3	1	0.412	0	2.365	0	5.743	-1	2042	40	1.4
47813.5	10000	41.4619	92.9043	-722	QK	2.9	1	7.5	1	1.3	1	0.385	0	2.330	0	6.055	-1	2040	43	1.4
47813.4	10000	41.4619	92.9035	-728	QK	2.9	1	7.5	1	1.3	1	0.389	0	2.367	0	6.090	-1	2052	43	1.4
47813.3	10000	41.4619	92.9027	-734	QK	2.8	1	7.4	1	1.3	1	0.378	0	2.344	0	6.200	0	2045	39	1.4
47813.2	10000	41.4619	92.9019	-739	QK	2.7	1	7.5	1	1.2	1	0.362	-1	2.256	0	6.229	0	2051	30	1.4
47813.1	10000	41.4619	92.9011	-743	QK	2.5	1	8.3	2	1.2	1	0.302	-1	2.110	0	6.989	0	2050	42	1.4
47813.0	10000	41.4619	92.9003	-747	QK	2.4	1	7.9	1	1.2	1	0.303	-1	2.039	0	6.732	0	2040	54	1.4
47812.9	10000	41.4619	92.8995	-752	QK	2.5	1	7.5	1	1.2	1	0.331	-1	2.221	0	6.705	0	2012	43	1.4
47812.8	10000	41.4619	92.8987	-757	QK	2.4	1	7.6	1	1.2	1	0.319	-1	2.198	0	6.888	0	2009	49	1.4
47812.7	10000	41.4619	92.8979	-761	QK	2.4	1	7.6	1	1.2	1	0.323	-1	2.102	0	6.504	0	1999	48	1.4
47812.6	10000	41.4619	92.8971	-763	QK	2.2	1	7.2	1	1.2	1	0.305	-1	1.858	-1	6.100	-1	1996	50	1.4
47812.5	10000	41.4619	92.8963	-765	QK	2.1	-1	7.0	1	1.2	1	0.304	-1	1.825	-1	5.998	-1	1990	38	1.4
47812.4	10000	41.4619	92.8955	-772	QK	2.3	-1	6.9	1	1.2	1	0.329	-1	1.841	-1	5.602	-1	1997	33	1.4
47812.3	10000	41.4619	92.8947	-778	QK	2.2	-1	7.1	1	1.2	1	0.308	-1	1.806	-1	5.871	-1	2009	46	1.4
47812.2	10000	41.4619	92.8939	-783	QK	2.3	-1	7.8	1	1.3	1	0.300	-1	1.843	-1	6.151	-1	2039	48	1.4
47812.1	10000	41.4619	92.8931	-786	QK	2.4	0	7.8	1	1.3	1	0.310	-1	1.872	-1	6.043	-1	2051	30	1.4

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47812.0	10000	41.4619	92.8923	-790	QK	2.6	0	7.5	0	1.2	1	0.346	0	2.136	0	6.182	0	2047	33	1.4
47811.9	10000	41.4619	92.8914	-793	QK	2.9	1	8.1	1	1.5	1	0.362	0	2.421	0	6.693	0	2061	56	1.4
47811.8	10000	41.4619	92.8906	-797	QK	3.0	1	8.5	2	1.5	1	0.354	0	2.536	1	7.172	1	2061	43	1.4
47811.7	10000	41.4619	92.8898	-800	QK	3.0	1	8.4	2	1.5	0	0.356	0	2.588	1	7.264	1	2057	54	1.4
47811.6	10000	41.4619	92.8890	-803	QK	3.1	1	8.7	2	1.5	0	0.356	0	2.625	1	7.366	1	2042	36	1.3
47811.5	10000	41.4619	92.8882	-806	QK	2.8	0	8.6	2	1.4	0	0.321	0	2.423	0	7.543	2	2034	47	1.3
47811.4	10000	41.4619	92.8874	-809	QK	2.8	1	8.8	2	1.5	0	0.322	0	2.443	0	7.575	2	2043	46	1.3
47811.3	10000	41.4619	92.8866	-813	QK	2.7	0	8.9	2	1.5	1	0.307	-1	2.263	0	7.374	1	2065	54	1.3
47811.2	10000	41.4619	92.8858	-816	QK	2.7	0	8.4	2	1.5	1	0.325	0	2.199	0	6.759	0	2071	46	1.3
47811.1	10000	41.4619	92.8850	-819	QK	2.7	0	8.3	1	1.5	1	0.331	0	2.206	0	6.673	0	2076	45	1.3
47811.0	10000	41.4619	92.8842	-822	QK	2.8	1	8.0	1	1.5	1	0.352	0	2.243	0	6.379	0	2070	57	1.3
47810.9	10000	41.4619	92.8834	-825	QK	2.9	1	7.5	0	1.5	1	0.388	1	2.312	0	5.960	-1	2068	39	1.3
47810.8	10000	41.4619	92.8826	-828	QK	3.1	1	7.2	0	1.5	1	0.428	1	2.435	0	5.691	-1	2044	49	1.3
47810.7	10000	41.4619	92.8818	-831	QK	3.2	1	6.5	-1	1.5	1	0.489	2	2.629	1	5.381	-2	2009	41	1.3
47810.6	10000	41.4619	92.8810	-834	QK	3.3	2	6.2	-1	1.5	1	0.534	3	2.925	1	5.478	-1	1986	34	1.3
47810.5	10000	41.4619	92.8802	-836	QK	3.2	1	6.4	-1	1.5	1	0.494	2	2.789	1	5.640	-1	1969	38	1.3
47810.4	10000	41.4619	92.8794	-838	QK	3.1	1	6.0	-2	1.5	1	0.506	2	2.580	1	5.099	-2	1954	49	1.3
47810.3	10000	41.4619	92.8786	-840	QK	3.1	1	6.2	-1	1.5	1	0.501	2	2.623	1	5.230	-2	1967	38	1.3
47810.2	10000	41.4619	92.8778	-842	QK	3.1	1	6.2	-1	1.5	1	0.491	2	2.628	1	5.349	-2	1978	53	1.3
47810.1	10000	41.4619	92.8770	-843	QK	2.9	1	5.9	-2	1.5	1	0.488	2	2.660	1	5.446	-1	1965	42	1.3
47810.0	10000	41.4619	92.8762	-845	QK	3.1	1	6.2	-1	1.5	1	0.491	2	2.814	1	5.730	-1	1972	35	1.3
47809.9	10000	41.4619	92.8754	-847	QK	2.8	1	6.8	-1	1.5	1	0.410	1	2.455	0	5.994	-1	1965	40	1.3
47809.8	10000	41.4619	92.8746	-848	QK	2.9	1	6.6	-1	1.5	1	0.431	1	2.672	1	6.201	0	1956	47	1.3
47809.7	10000	41.4619	92.8737	-850	QK	3.1	1	6.8	-1	1.5	-1	0.460	2	3.062	2	6.656	0	1949	30	1.3
47809.6	10000	41.4619	92.8729	-851	QK	3.0	1	6.6	-1	1.5	-1	0.449	1	2.828	1	6.304	0	1929	41	1.3
47809.5	10000	41.4619	92.8721	-852	QK	2.8	1	6.6	-1	1.5	0	0.419	1	2.555	1	6.094	-1	1927	34	1.3
47809.4	10000	41.4619	92.8713	-854	QK	2.9	1	6.7	-1	1.5	0	0.437	1	2.507	1	5.735	-1	1944	39	1.3
47809.3	10000	41.4619	92.8705	-855	QK	2.7	0	6.7	-1	1.5	0	0.395	1	2.260	0	5.722	-1	1941	36	1.3
47809.2	10000	41.4619	92.8697	-856	QK	2.8	1	6.4	-1	1.5	1	0.446	1	2.383	0	5.338	-2	1955	42	1.3
47809.1	10000	41.4619	92.8689	-857	QK	2.7	0	6.4	-1	1.5	1	0.417	1	2.201	0	5.281	-2	1967	42	1.3
47809.0	10000	41.4619	92.8681	-859	QK	2.7	0	6.6	-1	1.5	1	0.407	1	2.152	0	5.287	-2	1974	45	1.3
47808.9	10000	41.4619	92.8673	-860	QK	2.9	1	6.8	-1	1.5	1	0.423	1	2.357	0	5.569	-1	1971	36	1.3
47808.8	10000	41.4618	92.8665	-861	QK	3.1	1	7.1	0	1.5	1	0.431	1	2.520	1	5.849	-1	1959	52	1.3
47808.7	10000	41.4618	92.8657	-861	QK	3.1	1	7.2	0	1.5	1	0.428	1	2.547	1	5.955	-1	1962	44	1.3
47808.6	10000	41.4618	92.8649	-862	QK	3.0	1	6.9	0	1.5	1	0.426	1	2.499	0	5.870	-1	1963	35	1.1
47808.5	10000	41.4618	92.8641	-863	QK	3.1	1	7.2	0	1.5	1	0.433	1	2.568	1	5.924	-1	1970	45	1.1
47808.4	10000	41.4618	92.8633	-863	QK	3.4	2	7.3	1	1.5	1	0.470	2	2.854	1	6.072	-1	1969	35	1.1
47808.3	10000	41.4618	92.8625	-864	QK	3.4	2	7.2	1	1.5	1	0.476	2	2.782	1	5.843	-1	1979	43	1.1
47808.2	10000	41.4618	92.8617	-864	QK	3.4	2	7.3	1	1.5	1	0.468	2	2.853	1	6.099	-1	2000	48	1.1
47808.1	10000	41.4618	92.8609	-865	QK	3.4	2	7.1	1	1.5	1	0.483	2	2.953	1	6.118	-1	2010	49	1.1
47808.0	10000	41.4618	92.8601	-864	QK	3.4	2	7.2	1	1.5	1	0.473	2	2.932	1	6.196	0	1993	41	1.1
47807.9	10000	41.4618	92.8593	-862	QK	3.4	2	7.1	1	1.5	1	0.476	2	2.759	1	5.798	-1	1989	40	1.1
47807.8	10000	41.4618	92.8585	-864	QK	3.0	2	6.9	0	1.5	1	0.425	1	2.386	0	5.614	-1	1977	36	1.1
47807.7	10000	41.4618	92.8577	-864	QK	2.7	1	7.0	0	1.5	1	0.380	1	2.139	0	5.631	-1	1978	51	1.1
47807.6	10000	41.4618	92.8569	-865	QK	2.4	1	7.0	0	1.5	1	0.350	0	2.015	-1	5.753	-1	1960	38	1.1
47807.5	10000	41.4618	92.8560	-867	QK	2.3	1	7.0	0	1.5	1	0.326	0	1.858	-1	5.694	-1	1943	38	1.1
47807.4	10000	41.4618	92.8552	-868	QK	2.1	1	7.0	0	1.5	1	0.280	-1	1.638	-1	5.843	-1	1957	41	1.1
47807.3	10000	41.4618	92.8544	-868	QK	1.8	-1	7.0	0	1.5	1	0.245	-1	1.399	-2	5.723	-1	1976	42	1.1
47807.2	10000	41.4618	92.8536	-869	QK	1.9	-1	7.0	0	1.5	1	0.236	-2	1.475	-2	6.256	0	1984	40	1.1
47807.1	10000	41.4618	92.8528	-870	QK	2.1	-1	7.0	0	1.5	1	0.263	-1	1.695	-1	6.450	0	1983	44	1.1
47807.0	10000	41.4618	92.8520	-869	QK	2.1	-1	7.0	0	1.5	1	0.276	-1	1.618	-1	5.853	-1	1969	33	1.1
47806.9	10000	41.4618	92.8512	-870	QK	2.1	-1	7.4	0	1.3	1	0.284	-1	1.633	-1	5.757	-1	1957	40	1.1

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47806.8	10000	41.4618	92.8504	-870	QK	2.0	-1	7.4	0	1.3	1	0.278	-1	1.597	-1	5.738	-1	1940	24	1.0
47806.7	10000	41.4618	92.8496	-870	QK	1.6	-2	6.9	0	1.3	1	0.232	-2	1.234	-2	5.310	-2	1888	33	1.0
47806.6	10000	41.4618	92.8488	-870	QK	1.7	-2	6.7	-1	1.2	1	0.261	-1	1.408	-2	5.397	-2	1830	45	1.0
47806.5	10000	41.4618	92.8480	-869	QK	1.8	-1	5.9	-2	1.2	1	0.309	-1	1.495	-2	4.843	-2	1776	44	1.0
47806.4	10000	41.4618	92.8472	-869	QK	1.7	-2	6.0	-2	1.2	0	0.276	-1	1.434	-2	5.190	-2	1727	34	1.0
47806.3	10000	41.4618	92.8464	-869	QK	1.8	-1	6.1	-2	1.1	-1	0.301	-1	1.737	-1	5.768	-1	1693	46	1.0
47806.2	10000	41.4618	92.8455	-868	QK	1.7	-2	5.8	-2	1.0	-1	0.300	-1	1.657	-1	5.523	-1	1679	31	1.0
47806.1	10000	41.4617	92.8447	-867	QAL	1.8	-1	5.6	-1	1.1	0	0.324	-1	1.688	-1	5.208	-1	1672	44	1.0
47806.0	10000	41.4617	92.8438	-867	QAL	2.2	0	5.8	-1	1.0	0	0.379	0	2.137	0	5.640	-1	1683	54	1.0
47805.9	10000	41.4617	92.8429	-865	QAL	2.1	-1	5.7	-1	1.1	0	0.365	0	1.922	-1	5.264	-1	1712	36	1.0
47805.8	10000	41.4617	92.8420	-864	QAL	2.1	-1	6.5	0	1.1	0	0.325	-1	1.976	-1	6.078	0	1750	47	1.0
47805.7	10000	41.4616	92.8412	-864	QAL	2.2	-1	6.5	0	1.1	0	0.334	-1	2.037	0	6.105	0	1784	35	1.0
47805.6	10000	41.4616	92.8403	-863	QAL	2.0	-1	7.0	0	1.1	0	0.286	-1	1.771	-1	6.196	0	1813	36	1.0
47805.5	10000	41.4616	92.8394	-862	QAL	2.2	-1	7.5	1	1.1	0	0.290	-1	2.005	-1	6.923	1	1834	44	1.0
47805.4	10000	41.4616	92.8386	-860	QAL	2.1	-1	8.0	1	1.1	0	0.262	-1	1.918	-1	7.312	2	1853	42	1.0
47805.3	10000	41.4615	92.8377	-859	QAL	2.3	0	7.8	1	1.1	0	0.291	-1	2.037	0	6.993	1	1862	45	1.0
47805.2	10000	41.4615	92.8368	-857	QAL	2.4	0	7.9	1	1.0	0	0.304	-1	2.293	0	7.541	2	1875	44	1.0
47805.1	10000	41.4615	92.8360	-856	QAL	2.6	0	7.9	1	1.1	0	0.329	-1	2.329	0	7.085	1	1905	29	1.0
47805.0	10000	41.4615	92.8351	-854	QAL	2.7	0	7.9	1	1.2	1	0.342	0	2.310	0	6.752	1	1920	39	1.0
47804.9	10000	41.4614	92.8342	-852	QAL	2.7	0	7.7	1	1.1	0	0.352	0	2.380	0	6.768	1	1941	51	1.0
47804.8	10000	41.4614	92.8334	-851	QAL	2.8	1	7.9	1	1.2	1	0.350	0	2.374	0	6.784	1	1961	31	1.0
47804.7	10000	41.4614	92.8325	-849	QAL	2.9	1	7.6	1	1.2	1	0.381	0	2.507	0	6.583	1	1965	30	0.9
47804.6	10000	41.4613	92.8316	-847	QK	2.8	0	8.2	1	1.1	0	0.337	0	2.452	0	7.268	1	1974	34	0.9
47804.5	10000	41.4613	92.8307	-845	QK	2.9	0	8.2	1	1.2	0	0.352	0	2.454	0	6.974	1	1974	35	0.9
47804.4	10000	41.4613	92.8299	-843	QK	2.8	1	8.0	1	1.2	0	0.354	0	2.463	0	6.956	1	1953	41	0.9
47804.3	10000	41.4613	92.8290	-843	QK	2.7	0	7.9	1	1.1	0	0.343	0	2.425	0	7.079	1	1941	30	0.9
47804.2	10000	41.4612	92.8281	-841	QK	2.6	0	8.1	1	1.1	0	0.325	0	2.369	0	7.279	1	1909	46	0.9
47804.1	10000	41.4612	92.8273	-839	QK	2.6	0	7.9	1	1.1	0	0.330	0	2.352	0	7.137	1	1896	53	0.9
47804.0	10000	41.4612	92.8264	-836	QK	2.7	0	7.6	1	1.1	0	0.353	0	2.447	0	6.934	1	1881	43	0.9
47803.9	10000	41.4612	92.8255	-835	QK	2.6	0	7.1	1	1.1	0	0.373	0	2.323	0	6.221	1	1876	42	0.9
47803.8	10000	41.4611	92.8247	-834	QK	2.4	0	7.0	1	1.1	0	0.348	0	2.200	0	6.314	1	1869	41	0.9
47803.7	10000	41.4611	92.8238	-832	QK	2.1	-1	7.2	1	1.1	-1	0.292	-1	1.890	-1	6.472	0	1873	37	0.9
47803.6	10000	41.4611	92.8229	-829	QK	2.1	-1	7.2	1	1.1	-1	0.297	-1	1.898	-1	6.386	0	1877	45	0.9
47803.5	10000	41.4611	92.8221	-828	QK	2.1	-1	7.1	1	1.1	-1	0.296	-1	1.849	-1	6.243	0	1897	42	0.9
47803.4	10000	41.4610	92.8212	-827	QK	2.1	-1	7.2	1	1.2	-1	0.298	-1	1.818	-1	6.105	-1	1900	33	0.9
47803.3	10000	41.4610	92.8203	-826	QK	1.8	-1	7.6	1	1.2	-1	0.243	-1	1.577	-1	6.495	0	1923	37	0.9
47803.2	10000	41.4610	92.8194	-826	QK	2.1	-1	8.1	1	1.1	-1	0.258	-1	1.823	-1	7.078	1	1934	49	0.9
47803.1	10000	41.4609	92.8186	-825	QK	2.2	-1	8.2	1	1.2	-1	0.271	-1	1.910	-1	7.054	1	1944	40	0.9
47803.0	10000	41.4609	92.8177	-824	QK	2.3	0	7.7	1	1.2	-1	0.301	-1	1.963	-1	6.515	0	1944	40	0.9
47802.9	10000	41.4609	92.8168	-822	QK	2.4	0	7.8	1	1.2	-1	0.303	-1	1.983	-1	6.544	0	1966	47	0.9
47802.8	10000	41.4609	92.8160	-821	QK	2.7	0	7.6	1	1.2	0	0.351	0	2.175	0	6.202	0	1975	46	0.9
47802.7	10000	41.4608	92.8151	-820	QK	2.7	0	7.6	1	1.2	0	0.351	0	2.219	0	6.316	0	1985	32	0.9
47802.6	10000	41.4608	92.8142	-819	QK	3.2	1	7.3	1	1.2	1	0.432	1	2.561	0	5.934	-1	2005	39	0.9
47802.5	10000	41.4608	92.8134	-818	QK	3.1	1	6.8	-1	1.2	0	0.450	1	2.483	0	5.524	-1	1995	37	0.9
47802.4	10000	41.4608	92.8125	-817	QK	3.2	1	6.8	-1	1.3	1	0.467	2	2.535	1	5.433	-1	2003	49	0.9
47802.3	10000	41.4607	92.8116	-816	QK	3.6	2	6.8	-1	1.3	2	0.532	3	2.885	1	5.423	-2	1993	47	0.9
47802.2	10000	41.4607	92.8108	-815	QK	3.6	2	6.8	-1	1.2	2	0.546	3	2.861	1	5.243	-2	1976	53	0.8
47802.1	10000	41.4607	92.8099	-814	QK	3.8	2	6.8	-1	1.3	2	0.587	3	3.112	2	5.298	-2	1965	40	0.8
47802.0	10000	41.4607	92.8090	-813	QAL	3.7	2	6.8	0	1.2	2	0.598	3	2.972	1	4.973	-1	1958	48	0.8
47801.9	10000	41.4606	92.8082	-812	QAL	3.2	1	6.6	0	1.3	2	0.493	2	2.596	1	5.266	-1	1935	34	0.8
47801.8	10000	41.4606	92.8073	-811	QAL	3.2	1	6.5	0	1.3	2	0.485	1	2.452	1	5.053	-1	1925	38	0.8
47801.7	10000	41.4606	92.8064	-810	QAL	3.2	1	6.5	0	1.3	2	0.486	1	2.455	0	5.055	-1	1927	26	0.8

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47801.6	10000	41.4606	92.8055	-809	QAL	3.1	1	6.4	0	1.2	1	0.490	1	2.536	0	5.179	-1	1930	53	0.8
47801.5	10000	41.4605	92.8047	-808	QAL	3.5	2	6.4	0	1.2	1	0.541	2	2.793	1	5.164	-1	1932	51	0.8
47801.4	10000	41.4605	92.8038	-806	QK	3.2	1	6.4	-1	1.2	1	0.496	2	2.613	1	5.270	-2	1926	42	0.8
47801.3	10000	41.4605	92.8029	-806	QK	3.4	2	6.4	-1	1.2	0	0.525	2	2.902	1	5.528	-1	1893	54	0.8
47801.2	10000	41.4604	92.8021	-806	QK	3.8	3	5.8	-2	1.1	0	0.655	4	3.348	2	5.114	-2	1890	38	0.8
47801.1	10000	41.4604	92.8012	-805	QK	4.1	3	5.7	-2	1.1	0	0.710	5	3.621	3	5.103	-2	1912	34	0.8
47801.0	10000	41.4604	92.8003	-803	QK	4.4	4	6.0	-2	1.1	0	0.742	5	3.986	4	5.370	-2	1928	37	0.8
47800.9	10000	41.4604	92.7995	-801	QK	4.1	3	6.6	-1	1.1	0	0.622	4	3.606	3	5.795	-1	1947	46	0.8
47800.8	10000	41.4603	92.7986	-801	QK	3.8	3	6.9	0	1.2	0	0.548	3	3.232	2	5.901	-1	1960	48	0.8
47800.7	10000	41.4603	92.7977	-801	QK	3.8	3	6.9	0	1.2	0	0.551	3	3.215	2	5.836	-1	1984	44	0.8
47800.6	10000	41.4603	92.7968	-801	QAL	3.7	2	6.7	0	1.2	1	0.550	2	3.062	1	5.565	-1	2003	39	0.8
47800.5	10000	41.4603	92.7960	-800	QAL	3.3	2	7.5	1	1.3	1	0.438	1	2.616	1	5.979	0	2004	51	0.8
47800.4	10000	41.4602	92.7951	-799	QAL	2.8	1	7.8	1	1.2	1	0.359	0	2.289	0	6.379	0	1979	46	0.8
47800.3	10000	41.4602	92.7942	-797	QK	2.1	-1	8.2	1	1.2	1	0.251	-1	1.647	-1	6.559	0	1969	38	0.8
47800.2	10000	41.4602	92.7934	-796	QK	2.3	0	8.0	1	1.2	1	0.290	-1	1.911	-1	6.601	0	1955	24	0.8
47800.1	10000	41.4601	92.7925	-795	QK	2.4	0	8.1	1	1.2	1	0.301	-1	2.030	0	6.749	0	1950	52	0.8
47800.0	10000	41.4601	92.7916	-793	QK	2.1	-1	8.3	1	1.2	1	0.259	-1	1.779	-1	6.879	1	1940	49	0.8
47799.9	10000	41.4601	92.7908	-792	QK	2.1	-1	8.8	2	1.2	1	0.234	-2	1.668	-1	7.115	1	1940	36	0.8
47799.8	10000	41.4601	92.7899	-790	QK	2.0	-1	8.9	2	1.2	1	0.228	-2	1.662	-1	7.299	1	1934	45	0.8
47799.7	10000	41.4600	92.7890	-789	QK	2.1	-1	8.7	2	1.2	1	0.246	-1	1.755	-1	7.129	1	1948	47	0.8
47799.6	10000	41.4600	92.7881	-787	QK	2.4	0	8.2	1	1.2	1	0.289	-1	1.970	-1	6.818	0	1926	44	0.8
47799.5	10000	41.4600	92.7873	-785	QK	1.9	-1	8.2	1	1.3	1	0.226	-2	1.467	-2	6.484	0	1925	46	0.8
47799.4	10000	41.4600	92.7864	-784	QK	1.7	-2	7.9	1	1.3	1	0.218	-2	1.341	-2	6.147	0	1917	38	0.8
47799.3	10000	41.4599	92.7856	-782	QK	1.9	-1	8.2	1	1.3	1	0.235	-2	1.479	-2	6.300	0	1908	46	0.8
47799.2	10000	41.4599	92.7847	-780	QK	1.7	-2	7.6	1	1.3	1	0.223	-2	1.340	-2	6.009	-1	1893	58	0.8
47799.1	10000	41.4599	92.7838	-778	QK	1.7	-2	7.1	1	1.2	1	0.245	-1	1.406	-2	5.739	-1	1877	45	0.7
47799.0	10000	41.4598	92.7829	-776	QK	1.7	-2	7.2	1	1.3	1	0.236	-2	1.352	-2	5.738	-1	1855	51	0.7
47798.9	10000	41.4598	92.7821	-774	QK	1.6	-2	7.2	1	1.3	1	0.224	-2	1.273	-2	5.675	-1	1860	35	0.7
47798.8	10000	41.4598	92.7812	-772	QK	2.0	-1	7.4	1	1.3	1	0.264	-1	1.576	-1	5.965	-1	1855	48	0.7
47798.7	10000	41.4598	92.7803	-769	QK	2.0	-1	7.5	1	1.3	1	0.266	-1	1.602	-1	6.017	-1	1854	47	0.7
47798.6	10000	41.4597	92.7795	-766	QK	2.0	-1	7.1	1	1.3	1	0.287	-1	1.598	-1	5.558	-1	1860	49	0.7
47798.5	10000	41.4597	92.7786	-764	QK	2.3	0	7.0	1	1.3	1	0.327	0	1.771	-1	5.415	-2	1875	49	0.7
47798.4	10000	41.4597	92.7777	-761	QK	2.5	0	7.4	1	1.3	1	0.341	0	1.905	-1	5.584	-1	1889	42	0.7
47798.3	10000	41.4597	92.7769	-758	QK	2.5	0	7.2	1	1.4	1	0.349	0	1.860	-1	5.337	-2	1900	49	0.7
47798.2	10000	41.4596	92.7760	-756	QK	2.5	0	7.2	1	1.3	1	0.346	0	1.856	-1	5.361	-2	1897	45	0.7
47798.1	10000	41.4596	92.7751	-753	QK	2.3	0	7.0	1	1.4	1	0.333	0	1.705	-1	5.124	-2	1893	54	0.7
47798.0	10000	41.4596	92.7742	-750	QK	2.5	0	7.0	1	1.3	1	0.359	0	1.917	-1	5.346	-2	1889	44	0.7
47797.9	10000	41.4596	92.7734	-747	QK	2.5	0	7.2	1	1.3	1	0.345	0	1.973	-1	5.713	-1	1877	55	0.7
47797.8	10000	41.4595	92.7725	-744	QK	2.4	0	7.4	1	1.2	1	0.331	0	2.058	0	6.218	0	1867	34	0.7
47797.7	10000	41.4595	92.7716	-741	QK	2.4	0	7.1	1	1.2	1	0.339	0	2.096	0	6.189	0	1865	38	0.7
47797.6	10000	41.4595	92.7708	-739	QK	2.5	0	7.2	1	1.1	1	0.352	0	2.246	0	6.373	0	1867	42	0.7
47797.5	10000	41.4594	92.7699	-737	QK	2.5	0	6.9	1	1.1	1	0.364	0	2.251	0	6.186	0	1850	26	0.7
47797.4	10000	41.4594	92.7690	-735	QK	2.7	0	6.6	1	1.1	1	0.405	1	2.542	1	6.282	0	1850	50	0.7
47797.3	10000	41.4594	92.7682	-733	QK	2.4	-1	6.8	1	1.1	1	0.353	0	2.187	0	6.199	0	1842	36	0.7
47797.2	10000	41.4594	92.7673	-731	QK	2.3	-1	6.9	1	1.2	1	0.341	0	2.033	0	5.967	-1	1847	43	0.7
47797.1	10000	41.4593	92.7664	-729	QK	2.1	-1	6.9	1	1.2	1	0.310	-1	1.811	-1	5.838	-1	1833	42	0.7
47797.0	10000	41.4593	92.7655	-727	QK	1.9	-1	7.0	1	1.3	1	0.267	-1	1.472	-2	5.503	-1	1831	51	0.7
47796.9	10000	41.4593	92.7647	-725	QK	1.6	-2	7.0	1	1.2	1	0.224	-2	1.266	-2	5.640	-1	1815	43	0.7
47796.8	10000	41.4593	92.7638	-723	QK	1.7	-2	7.6	1	1.2	1	0.229	-2	1.398	-2	6.104	-1	1817	37	0.7
47796.7	10000	41.4592	92.7629	-721	QK	1.6	-2	7.4	1	1.2	1	0.219	-2	1.309	-2	5.977	-1	1812	39	0.7
47796.6	10000	41.4592	92.7621	-718	QK	1.8	-1	7.5	1	1.2	1	0.239	-2	1.483	-2	6.214	0	1826	45	0.6
47796.5	10000	41.4592	92.7612	-716	QK	1.6	-2	7.3	0	1.2	0	0.221	-2	1.393	-2	6.299	0	1817	50	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47796.4	10000	41.4592	92.7603	-713	QK	1.7	-2	7.5	0	1.2	1	0.230	-2	1.459	-2	6.342	0	1828	38	0.6
47796.3	10000	41.4591	92.7595	-710	QK	1.9	-1	7.3	0	1.1	0	0.261	-1	1.704	-1	6.531	0	1808	34	0.6
47796.2	10000	41.4591	92.7586	-706	QK	2.1	-1	7.4	0	1.1	0	0.287	-1	1.923	-1	6.691	0	1810	40	0.6
47796.1	10000	41.4591	92.7577	-702	QK	2.2	-1	7.1	0	1.2	0	0.302	-1	1.866	-1	6.184	0	1825	20	0.6
47796.0	10000	41.4591	92.7569	-696	QK	2.0	-1	7.6	0	1.2	1	0.265	-1	1.670	-1	6.311	0	1822	42	0.6
47795.9	10000	41.4590	92.7560	-689	QK	1.8	-2	7.6	0	1.2	1	0.233	-2	1.470	-2	6.305	0	1798	34	0.6
47795.8	10000	41.4590	92.7551	-685	QK	1.8	-1	7.5	0	1.2	1	0.245	-1	1.539	-2	6.276	0	1787	41	0.6
47795.7	10000	41.4590	92.7543	-680	QK	1.6	-2	7.4	0	1.2	1	0.219	-2	1.327	-2	6.047	-1	1764	45	0.6
47795.6	10000	41.4589	92.7534	-672	QK	1.4	-2	7.2	0	1.3	1	0.196	-2	1.105	-2	5.646	-1	1764	41	0.6
47795.5	10000	41.4589	92.7525	-665	QK	1.3	-3	6.9	0	1.3	1	0.186	-2	0.987	-3	5.306	-2	1756	43	0.6
47795.4	10000	41.4589	92.7516	-656	QK	1.3	-2	7.0	0	1.3	1	0.182	-2	0.990	-3	5.452	-1	1740	37	0.6
47795.3	10000	41.4589	92.7508	-646	QK	1.3	-2	6.8	-1	1.2	1	0.196	-2	1.077	-3	5.498	-1	1740	40	0.6
47795.2	10000	41.4588	92.7499	-635	QK	1.4	-2	6.8	-1	1.3	1	0.213	-2	1.145	-2	5.388	-2	1755	50	0.6
47795.1	10000	41.4588	92.7490	-623	QK	1.7	-2	6.9	-1	1.3	1	0.245	-1	1.294	-2	5.284	-2	1766	46	0.6
47795.0	10000	41.4588	92.7482	-611	QK	2.0	-1	6.7	-1	1.3	1	0.299	-1	1.587	-1	5.311	-2	1765	49	0.6
47794.9	10000	41.4588	92.7473	-599	QK	2.0	-1	7.0	0	1.2	1	0.294	-1	1.689	-1	5.750	-1	1762	33	0.6
47794.8	10000	41.4587	92.7464	-586	QK	2.2	-1	7.0	0	1.2	1	0.311	-1	1.760	-1	5.669	-1	1766	36	0.6
47794.7	10000	41.4587	92.7456	-572	QK	2.1	-1	6.8	-1	1.2	1	0.305	-1	1.724	-1	5.646	-1	1779	41	0.6
47794.6	10000	41.4587	92.7447	-557	QK	2.4	0	7.1	0	1.3	1	0.342	0	1.917	-1	5.611	-1	1784	43	0.6
47794.5	10000	41.4586	92.7438	-542	QK	2.5	0	6.7	-1	1.3	1	0.378	0	1.972	-1	5.211	-2	1782	34	0.6
47794.4	10000	41.4586	92.7430	-528	QK	2.5	0	6.5	-1	1.2	1	0.394	1	2.037	0	5.171	-2	1779	49	0.6
47794.3	10000	41.4586	92.7421	-514	QK	2.5	0	6.6	-1	1.3	1	0.383	0	1.983	-1	5.175	-2	1805	36	0.6
47794.2	10000	41.4586	92.7412	-500	QK	2.9	1	6.3	-1	1.2	1	0.461	2	2.370	0	5.140	-2	1807	32	0.6
47794.1	10000	41.4585	92.7403	-488	QK	3.1	1	6.6	-1	1.2	1	0.462	2	2.537	1	5.487	-1	1816	43	0.6
47794.0	10000	41.4585	92.7395	-476	QK	2.9	1	6.5	-1	1.2	1	0.454	1	2.434	0	5.362	-2	1805	35	0.6
47793.9	10000	41.4585	92.7386	-465	QK	2.8	1	6.2	-1	1.2	1	0.458	1	2.398	0	5.232	-2	1808	29	0.6
47793.8	10000	41.4585	92.7377	-455	QK	2.7	1	6.4	-1	1.1	0	0.425	1	2.360	0	5.556	-1	1793	30	0.6
47793.7	10000	41.4584	92.7369	-449	QK	2.4	0	6.7	-1	1.1	0	0.364	0	2.109	0	5.794	-1	1786	50	0.6
47793.6	10000	41.4584	92.7361	-445	QK	2.2	-1	7.1	0	1.2	0	0.310	-1	1.877	-1	6.049	-1	1785	41	0.6
47793.5	10000	41.4584	92.7352	-443	QK	1.8	-1	7.4	0	1.2	0	0.243	-1	1.454	-2	5.976	-1	1790	45	0.6
47793.4	10000	41.4585	92.7344	-442	QK	1.6	-2	7.2	1	1.2	0	0.220	-2	1.288	-2	5.855	-1	1778	40	0.6
47793.3	10000	41.4585	92.7336	-443	QK	1.5	-2	7.8	1	1.2	0	0.195	-2	1.212	-2	6.208	0	1787	33	0.6
47793.2	10000	41.4585	92.7328	-444	QK	1.1	-3	8.0	1	1.2	0	0.139	-3	0.914	-3	6.580	0	1772	42	0.6
47793.1	10000	41.4585	92.7319	-446	QK	1.1	-3	8.2	1	1.2	0	0.135	-3	0.896	-3	6.658	0	1783	41	0.6
47793.0	10000	41.4585	92.7311	-450	QK	1.2	-3	8.4	2	1.3	0	0.139	-3	0.930	-3	6.666	0	1798	45	0.6
47792.9	10000	41.4585	92.7303	-453	QK	1.2	-3	7.9	1	1.2	0	0.149	-3	0.990	-3	6.632	0	1793	40	0.6
47792.8	10000	41.4585	92.7295	-457	QK	1.4	-2	7.9	1	1.1	0	0.172	-2	1.188	-2	6.904	1	1786	37	0.6
47792.7	10000	41.4585	92.7287	-461	QK	1.4	-2	7.9	1	1.1	0	0.181	-2	1.266	-2	6.997	1	1800	40	0.6
47792.6	10000	41.4585	92.7279	-466	QK	1.8	-1	7.9	1	1.1	0	0.230	-2	1.609	-1	6.989	1	1797	45	0.6
47792.5	10000	41.4585	92.7270	-470	QK	2.1	-1	7.7	1	1.2	0	0.272	-1	1.792	-1	6.592	0	1802	47	0.6
47792.4	10000	41.4585	92.7262	-473	QK	2.2	-1	7.2	0	1.1	0	0.309	-1	2.026	-1	6.553	0	1774	40	0.6
47792.3	10000	41.4585	92.7254	-476	QK	2.4	0	7.0	0	1.1	0	0.346	0	2.275	0	6.568	0	1757	37	0.6
47792.2	10000	41.4586	92.7246	-479	QK	2.7	0	7.0	0	1.1	0	0.379	0	2.408	0	6.355	0	1746	35	0.6
47792.1	10000	41.4586	92.7238	-481	QK	2.7	0	6.8	-1	1.2	1	0.404	1	2.369	0	5.864	-1	1743	51	0.6
47792.0	10000	41.4586	92.7229	-483	QK	2.7	0	6.3	-1	1.1	1	0.436	1	2.460	0	5.644	-1	1733	39	0.6
47791.9	10000	41.4586	92.7221	-483	QK	2.7	0	6.1	-2	1.1	1	0.447	1	2.486	1	5.558	-1	1717	43	0.6
47791.8	10000	41.4586	92.7213	-484	QK	2.7	0	6.0	-2	1.0	1	0.453	1	2.616	1	5.770	-1	1702	42	0.6
47791.7	10000	41.4586	92.7205	-484	QK	2.9	1	6.2	-1	1.1	0	0.478	2	2.617	1	5.479	-1	1722	50	0.6
47791.6	10000	41.4586	92.7197	-483	QK	2.9	1	5.9	-2	1.1	0	0.490	2	2.623	1	5.354	-2	1713	31	0.6
47791.5	10000	41.4586	92.7188	-482	QK	2.7	1	5.7	-2	1.1	0	0.480	2	2.477	1	5.157	-2	1708	38	0.6
47791.4	10000	41.4586	92.7180	-480	QK	2.5	1	5.5	-2	1.1	0	0.452	1	2.360	0	5.224	-2	1692	28	0.6
47791.3	10000	41.4586	92.7172	-478	QK	2.3	0	6.2	-1	1.1	0	0.379	0	2.135	0	5.634	-1	1681	37	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47791.2	10000	41.4586	92.7164	-477	QK	2.3	-1	6.4	-1	1.1	0	0.353	0	2.068	0	5.860	-1	1684	40	0.6
47791.1	10000	41.4586	92.7156	-475	QK	2.2	-1	6.1	-1	1.1	0	0.366	0	2.010	-1	5.487	-1	1693	35	0.6
47791.0	10000	41.4587	92.7147	-473	QK	2.0	-1	6.2	-1	1.1	0	0.324	0	1.890	-1	5.838	-1	1689	50	0.6
47790.9	10000	41.4587	92.7139	-471	QK	1.8	-2	6.4	-1	1.1	0	0.274	-1	1.607	-1	5.855	-1	1688	38	0.6
47790.8	10000	41.4587	92.7131	-469	QK	2.0	-1	7.0	0	1.1	0	0.287	-1	1.806	-1	6.300	0	1705	36	0.6
47790.7	10000	41.4587	92.7123	-468	QK	1.8	-1	7.8	1	1.1	0	0.236	-2	1.623	-1	6.872	1	1719	38	0.6
47790.6	10000	41.4587	92.7115	-466	QK	2.0	-1	7.6	0	1.1	0	0.260	-1	1.747	-1	6.709	0	1731	53	0.6
47790.5	10000	41.4587	92.7106	-465	QK	1.9	-1	7.1	0	1.1	0	0.273	-1	1.707	-1	6.250	0	1733	50	0.6
47790.4	10000	41.4587	92.7098	-463	QK	2.0	-1	7.9	1	1.1	0	0.251	-1	1.783	-1	7.096	1	1739	41	0.6
47790.3	10000	41.4587	92.7090	-462	QK	2.0	-1	7.7	1	1.1	0	0.266	-1	1.814	-1	6.833	0	1747	45	0.6
47790.2	10000	41.4587	92.7082	-461	QK	2.3	0	7.7	1	1.1	0	0.304	-1	2.128	0	7.005	1	1756	41	0.6
47790.1	10000	41.4587	92.7074	-460	QK	2.4	0	7.1	0	1.0	-1	0.345	0	2.324	0	6.733	0	1733	34	0.6
47790.0	10000	41.4587	92.7065	-460	QK	2.6	0	6.6	-1	1.0	-1	0.395	1	2.526	1	6.395	0	1731	50	0.6
47789.9	10000	41.4588	92.7057	-460	QK	2.8	1	6.5	-1	1.0	-1	0.438	1	2.888	1	6.593	0	1703	27	0.7
47789.8	10000	41.4588	92.7049	-460	QK	2.7	0	6.4	-1	0.9	-1	0.418	1	2.851	1	6.815	0	1696	45	0.7
47789.7	10000	41.4588	92.7041	-459	QK	2.5	0	6.1	-2	1.0	-1	0.416	1	2.538	1	6.104	-1	1689	52	0.7
47789.6	10000	41.4588	92.7033	-459	QK	2.2	-1	6.5	-1	1.1	0	0.341	0	2.061	0	6.047	-1	1674	50	0.7
47789.5	10000	41.4588	92.7025	-458	QK	2.0	-1	6.9	0	1.1	0	0.282	-1	1.805	-1	6.404	0	1674	33	0.7
47789.4	10000	41.4588	92.7016	-457	QK	1.5	-2	7.2	0	1.1	0	0.206	-2	1.339	-2	6.511	0	1676	50	0.7
47789.3	10000	41.4588	92.7008	-456	QK	1.4	-2	7.5	0	1.1	0	0.190	-2	1.291	-2	6.797	0	1686	43	0.7
47789.2	10000	41.4588	92.7000	-454	QK	1.0	-3	7.6	1	1.1	0	0.131	-3	0.885	-3	6.744	0	1707	41	0.7
47789.1	10000	41.4588	92.6992	-451	QK	1.4	-2	8.1	1	1.2	0	0.175	-2	1.200	-2	6.871	1	1727	50	0.7
47789.0	10000	41.4588	92.6983	-448	QK	1.7	-2	8.0	1	1.1	0	0.212	-2	1.547	-2	7.307	1	1727	52	0.7
47788.9	10000	41.4588	92.6975	-445	QK	1.9	-1	7.7	1	1.0	-1	0.252	-1	1.862	-1	7.397	1	1750	44	0.7
47788.8	10000	41.4588	92.6967	-442	QK	1.9	-1	7.7	1	1.1	0	0.249	-1	1.764	-1	7.080	1	1764	47	0.7
47788.7	10000	41.4589	92.6959	-439	QK	2.1	-1	7.8	1	1.1	0	0.266	-1	1.895	-1	7.136	1	1776	53	0.7
47788.6	10000	41.4589	92.6951	-435	QK	2.3	0	7.6	0	1.1	0	0.299	-1	2.053	0	6.874	1	1795	44	0.7
47788.5	10000	41.4589	92.6943	-430	QK	2.5	0	7.6	0	1.2	0	0.329	0	2.158	0	6.569	0	1794	34	0.7
47788.4	10000	41.4589	92.6934	-426	QK	2.0	-1	7.3	0	1.2	0	0.276	-1	1.756	-1	6.368	0	1797	41	0.7
47788.3	10000	41.4589	92.6926	-421	QK	1.9	-1	7.6	0	1.2	0	0.249	-1	1.578	-1	6.332	0	1809	39	0.7
47788.2	10000	41.4589	92.6918	-416	QK	1.8	-1	7.9	0	1.2	0	0.232	-2	1.480	-2	6.372	0	1805	42	0.7
47788.1	10000	41.4589	92.6910	-411	QK	1.8	-1	7.5	0	1.2	0	0.242	-2	1.490	-2	6.168	0	1808	35	0.7
47788.0	10000	41.4589	92.6902	-406	QK	1.7	-2	7.6	1	1.2	0	0.229	-2	1.441	-2	6.304	0	1810	39	0.7
47787.9	10000	41.4589	92.6893	-400	QK	1.7	-2	7.8	1	1.2	0	0.224	-2	1.431	-2	6.386	0	1806	36	0.7
47787.8	10000	41.4589	92.6885	-395	QK	1.5	-2	8.0	1	1.3	0	0.190	-2	1.211	-2	6.386	0	1825	45	0.7
47787.7	10000	41.4589	92.6877	-389	QK	1.5	-2	8.2	1	1.3	0	0.187	-2	1.202	-2	6.423	0	1820	42	0.7
47787.6	10000	41.4589	92.6869	-383	QK	1.5	-2	8.1	1	1.3	0	0.189	-2	1.155	-2	6.113	-1	1829	35	0.7
47787.5	10000	41.4590	92.6861	-377	QK	1.6	-2	7.8	1	1.3	0	0.212	-2	1.280	-2	6.040	-1	1830	50	0.7
47787.4	10000	41.4590	92.6852	-372	QK	1.5	-2	7.8	1	1.3	0	0.199	-2	1.163	-2	5.838	-1	1817	49	0.7
47787.3	10000	41.4590	92.6844	-367	QK	1.6	-2	7.7	1	1.4	0	0.207	-2	1.135	-2	5.493	-1	1821	39	0.7
47787.2	10000	41.4590	92.6836	-361	QK	1.4	-2	7.6	1	1.4	0	0.180	-2	0.954	-3	5.305	-2	1812	41	0.7
47787.1	10000	41.4590	92.6828	-355	QK	1.4	-2	7.3	1	1.4	0	0.191	-2	0.996	-3	5.225	-2	1792	38	0.7
47787.0	10000	41.4590	92.6820	-349	QK	1.5	-2	7.3	1	1.4	0	0.207	-2	1.073	-3	5.193	-2	1792	44	0.7
47786.9	10000	41.4590	92.6811	-344	QK	1.4	-2	7.3	1	1.3	0	0.193	-2	1.061	-3	5.487	-1	1782	41	0.7
47786.8	10000	41.4590	92.6803	-338	QK	1.2	-3	7.3	1	1.3	0	0.162	-3	0.946	-3	5.820	-1	1771	31	0.7
47786.7	10000	41.4590	92.6795	-329	QK	1.4	-2	7.5	1	1.2	0	0.182	-2	1.161	-2	6.376	0	1751	47	0.7
47786.6	10000	41.4590	92.6787	-322	QK	1.4	-2	7.3	1	1.2	0	0.179	-2	1.154	-2	6.439	0	1713	51	0.7
47786.5	10000	41.4590	92.6779	-319	QK	1.5	-2	7.3	1	1.1	0	0.204	-2	1.378	-2	6.768	0	1675	43	0.7
47786.4	10000	41.4590	92.6770	-318	QK	1.5	-2	7.5	1	1.0	0	0.203	-2	1.464	-2	7.220	1	1646	38	0.7
47786.3	10000	41.4591	92.6762	-315	QK	1.7	-2	7.0	0	1.1	0	0.242	-2	1.742	-1	7.202	1	1626	41	0.7
47786.2	10000	41.4591	92.6754	-312	QK	1.7	-2	6.7	-1	1.1	0	0.256	-1	1.760	-1	6.880	1	1605	54	0.7
47786.1	10000	41.4591	92.6746	-308	QK	1.8	-1	6.7	-1	1.0	-1	0.269	-1	1.880	-1	6.995	1	1590	47	0.7

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47786.0	10000	41.4591	92.6738	-305	QK	2.0	-1	6.4	-1	1.0	-1	0.312	-1	2.085	0	6.681	0	1585	43	0.7
47785.9	10000	41.4591	92.6729	-302	QK	2.3	-1	6.6	-1	0.9	-2	0.343	0	2.469	0	7.191	0	1611	26	0.7
47785.8	10000	41.4591	92.6721	-299	QK	2.2	-1	6.7	-1	0.9	-2	0.324	0	2.369	0	7.303	1	1645	39	0.7
47785.7	10000	41.4591	92.6713	-296	QK	2.3	0	6.6	-1	0.9	-2	0.350	0	2.435	0	6.960	1	1669	38	0.7
47785.6	10000	41.4591	92.6705	-293	QK	2.2	-1	6.8	-1	1.0	-1	0.325	0	2.270	0	6.991	1	1655	46	0.7
47785.5	10000	41.4591	92.6697	-291	QK	2.3	0	7.0	0	1.0	-1	0.335	0	2.339	0	6.974	1	1668	41	0.7
47785.4	10000	41.4591	92.6689	-288	QK	2.3	0	7.0	0	1.0	-1	0.327	0	2.291	0	6.997	1	1684	50	0.7
47785.3	10000	41.4591	92.6680	-285	QK	2.1	-1	7.0	0	1.0	-1	0.301	-1	2.104	0	6.999	1	1721	47	0.7
47785.2	10000	41.4591	92.6672	-284	QK	1.9	-1	7.2	0	1.0	-1	0.257	-1	1.804	-1	7.015	1	1726	46	0.8
47785.1	10000	41.4591	92.6664	-282	QK	2.1	-1	7.3	0	1.1	0	0.292	-1	2.012	-1	6.880	1	1738	42	0.8
47785.0	10000	41.4592	92.6656	-281	QK	2.0	-1	7.6	1	1.1	0	0.260	-1	1.849	-1	7.116	1	1748	38	0.8
47784.9	10000	41.4592	92.6647	-279	QK	1.9	-1	7.9	1	1.1	0	0.246	-1	1.828	-1	7.426	1	1763	37	0.8
47784.8	10000	41.4592	92.6639	-277	QK	1.6	-2	7.8	1	1.0	-1	0.210	-2	1.571	-1	7.476	1	1754	48	0.8
47784.7	10000	41.4592	92.6631	-275	QK	1.9	-1	7.4	0	1.1	-1	0.252	-1	1.770	-1	7.036	1	1742	38	0.8
47784.6	10000	41.4592	92.6623	-274	QK	1.8	-1	7.2	0	1.1	-1	0.257	-1	1.755	-1	6.833	0	1732	48	0.8
47784.5	10000	41.4592	92.6615	-272	QK	2.1	-1	7.0	0	1.1	0	0.297	-1	1.925	-1	6.487	0	1742	31	0.8
47784.4	10000	41.4592	92.6607	-271	QK	1.9	-1	6.9	-1	1.1	-1	0.278	-1	1.798	-1	6.466	0	1726	38	0.8
47784.3	10000	41.4592	92.6598	-269	QK	1.8	-1	6.8	-1	1.0	-1	0.270	-1	1.803	-1	6.686	0	1717	48	0.8
47784.2	10000	41.4592	92.6590	-266	QK	1.6	-2	6.8	-1	1.1	-1	0.234	-2	1.507	-2	6.440	0	1722	45	0.8
47784.1	10000	41.4592	92.6582	-264	QK	1.9	-1	6.6	-1	1.0	-1	0.283	-1	1.829	-1	6.464	0	1724	43	0.8
47784.0	10000	41.4592	92.6574	-262	QK	1.7	-2	6.9	0	1.0	-1	0.240	-2	1.611	-1	6.707	0	1726	45	0.8
47783.9	10000	41.4593	92.6566	-260	QK	1.5	-2	7.4	0	1.1	-1	0.198	-2	1.372	-2	6.946	1	1719	41	0.8
47783.8	10000	41.4593	92.6557	-259	QK	1.2	-3	7.3	0	1.1	-1	0.167	-3	1.159	-2	6.929	1	1715	44	0.8
47783.7	10000	41.4593	92.6549	-257	QK	1.0	-3	7.5	0	1.1	0	0.137	-3	0.926	-3	6.769	0	1717	45	0.8
47783.6	10000	41.4593	92.6541	-256	QK	1.2	-3	7.4	0	1.1	0	0.161	-3	1.049	-3	6.511	0	1716	33	0.8
47783.5	10000	41.4593	92.6533	-254	QK	1.3	-3	7.0	0	1.1	0	0.183	-3	1.140	-3	6.238	0	1700	46	0.8
47783.4	10000	41.4593	92.6525	-253	QK	1.1	-3	6.9	0	1.2	0	0.155	-3	0.880	-3	5.672	-1	1696	35	0.8
47783.3	10000	41.4593	92.6516	-251	QK	1.0	-3	6.8	0	1.2	0	0.145	-3	0.778	-3	5.357	-2	1705	33	0.8
47783.2	10000	41.4593	92.6508	-250	QK	1.2	-3	6.5	0	1.2	0	0.160	-3	0.852	-3	5.334	-2	1691	45	0.8
47782.7	10000	41.4594	92.6467	-219	QK	1.3	-2	6.4	-1	1.2	0	0.181	-3	0.967	-3	5.339	-2	1682	45	0.8
47782.6	10000	41.4594	92.6459	-235	QK	1.4	-2	5.9	-1	1.2	0	0.213	-2	1.096	-2	5.142	-2	1673	34	0.8
47782.5	10000	41.4594	92.6451	-241	QK	1.7	-2	6.0	-1	1.2	0	0.229	-2	1.180	-2	5.161	-2	1680	33	0.8
47782.4	10000	41.4594	92.6443	-244	QK	1.9	-1	6.3	-1	1.2	0	0.268	-2	1.475	-2	5.503	-1	1702	38	0.8
47782.3	10000	41.4594	92.6434	-244	QK	1.9	-1	6.5	-1	1.1	0	0.295	-1	1.713	-1	5.808	-1	1719	40	0.8
47782.2	10000	41.4594	92.6426	-243	QK	1.9	-1	6.9	-1	1.1	0	0.283	-1	1.760	-1	6.214	0	1721	39	0.8
47782.1	10000	41.4594	92.6418	-243	QK	2.2	-1	6.8	-1	1.1	0	0.324	-1	1.947	-1	6.004	-1	1736	42	0.8
47782.0	10000	41.4594	92.6410	-243	QK	2.2	-1	7.0	0	1.1	0	0.320	-1	1.954	-1	6.098	-1	1747	43	0.8
47781.9	10000	41.4594	92.6402	-243	QK	2.1	-1	7.4	0	1.2	0	0.284	-1	1.777	-1	6.253	0	1752	57	0.8
47781.8	10000	41.4594	92.6393	-243	QK	2.1	-1	7.2	0	1.2	0	0.293	-1	1.817	-1	6.203	0	1747	33	0.8
47781.7	10000	41.4594	92.6385	-243	QK	1.9	-1	6.9	0	1.2	0	0.269	-1	1.535	-2	5.717	-1	1749	52	0.8
47781.6	10000	41.4594	92.6377	-244	QK	1.5	-2	7.1	0	1.2	0	0.216	-2	1.287	-2	5.951	-1	1732	33	0.8
47781.5	10000	41.4594	92.6369	-244	QK	1.6	-2	7.0	0	1.2	0	0.223	-2	1.332	-2	5.974	-1	1730	32	0.8
47781.4	10000	41.4594	92.6361	-246	QK	1.4	-2	7.3	0	1.2	0	0.189	-2	1.211	-2	6.413	0	1719	46	0.8
47781.3	10000	41.4595	92.6353	-246	QK	1.2	-3	7.0	0	1.1	0	0.166	-3	1.063	-3	6.397	0	1705	48	0.9
47781.2	10000	41.4595	92.6344	-248	QK	1.5	-2	7.1	0	1.1	0	0.213	-2	1.323	-2	6.220	0	1705	47	0.9
47781.1	10000	41.4595	92.6336	-250	QK	1.5	-2	7.3	0	1.1	0	0.210	-2	1.324	-2	6.297	0	1707	38	0.9
47781.0	10000	41.4595	92.6328	-253	QK	1.8	-2	7.6	0	1.1	0	0.239	-2	1.641	-1	6.854	1	1698	40	0.9
47780.9	10000	41.4595	92.6320	-255	QK	2.0	-1	7.4	0	1.1	0	0.270	-2	1.918	-1	7.106	1	1726	35	0.9
47780.8	10000	41.4595	92.6311	-258	QK	2.0	-1	7.1	0	1.1	0	0.274	-1	1.911	-1	6.971	1	1736	51	0.9
47780.7	10000	41.4595	92.6303	-260	QK	2.3	-1	6.9	0	1.1	0	0.311	-1	2.023	-1	6.506	0	1752	37	0.9
47780.6	10000	41.4595	92.6295	-263	QK	2.3	0	7.0	0	1.1	0	0.340	0	2.126	-1	6.256	0	1757	48	0.9
47780.5	10000	41.4595	92.6287	-265	QK	2.2	-1	7.0	0	1.1	0	0.315	0	1.973	-1	6.258	0	1770	45	0.9

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47780.4	10000	41.4595	92.6279	-268	QK	2.3	0	6.7	-1	1.1	0	0.339	0	1.993	-1	5.872	-1	1781	23	0.9
47780.3	10000	41.4595	92.6271	-269	QK	2.1	-1	6.9	0	1.2	1	0.309	-1	1.781	-1	5.771	-1	1802	41	0.9
47780.2	10000	41.4595	92.6262	-271	QK	2.1	-1	6.5	-1	1.2	1	0.325	0	1.749	-1	5.384	-2	1810	36	0.9
47780.1	10000	41.4596	92.6254	-276	QK	2.2	-1	6.4	-1	1.2	1	0.342	0	1.831	-1	5.361	-2	1808	45	0.9
47780.0	10000	41.4596	92.6246	-280	QK	2.2	-1	6.4	-1	1.2	1	0.340	0	1.804	-1	5.308	-2	1811	36	0.9
47779.9	10000	41.4596	92.6238	-284	QK	2.2	-1	6.6	-1	1.2	1	0.332	0	1.854	-1	5.575	-1	1821	51	0.9
47779.8	10000	41.4596	92.6230	-287	QK	2.4	0	6.8	-1	1.2	0	0.353	0	2.040	0	5.774	-1	1841	42	1.0
47779.7	10000	41.4596	92.6221	-291	QK	2.4	0	7.1	0	1.2	0	0.336	0	2.047	0	6.085	-1	1855	40	1.0
47779.6	10000	41.4596	92.6213	-295	QK	2.5	0	6.9	0	1.1	0	0.359	0	2.153	0	6.001	-1	1853	40	1.0
47779.5	10000	41.4596	92.6205	-298	QK	2.4	0	7.4	0	1.2	0	0.331	0	2.114	0	6.382	0	1857	41	1.0
47779.4	10000	41.4596	92.6197	-301	QK	2.3	0	7.5	0	1.2	1	0.306	-1	1.948	-1	6.369	0	1864	42	1.0
47779.3	10000	41.4596	92.6189	-303	QK	2.4	0	8.0	1	1.2	1	0.303	-1	2.028	-1	6.695	0	1877	59	1.0
47779.2	10000	41.4596	92.6180	-307	QK	2.4	0	8.4	2	1.2	1	0.287	-1	2.052	0	7.144	1	1888	54	1.0
47779.1	10000	41.4596	92.6172	-311	QK	2.4	0	8.8	2	1.2	1	0.270	-1	1.972	-1	7.293	1	1894	46	1.0
47779.0	10000	41.4596	92.6164	-317	QK	2.3	0	8.6	2	1.2	1	0.268	-1	1.903	-1	7.102	1	1895	44	1.0
47778.9	10000	41.4596	92.6156	-323	QK	2.1	-1	8.6	2	1.2	1	0.250	-1	1.782	-1	7.118	1	1899	43	1.0
47778.8	10000	41.4597	92.6148	-327	QK	2.1	-1	8.3	1	1.2	1	0.253	-1	1.698	-1	6.715	0	1899	38	1.0
47778.7	10000	41.4597	92.6139	-332	QK	2.1	-1	8.6	2	1.3	1	0.240	-2	1.643	-1	6.847	1	1902	46	1.0
47778.6	10000	41.4597	92.6131	-337	QK	1.9	-1	7.7	1	1.3	1	0.246	-1	1.489	-2	6.053	-1	1886	39	1.0
47778.5	10000	41.4597	92.6123	-341	QK	1.8	-1	7.0	0	1.3	1	0.261	-1	1.425	-2	5.452	-1	1862	46	1.1
47778.4	10000	41.4597	92.6115	-345	QK	1.8	-1	6.5	-1	1.3	1	0.276	-1	1.395	-2	5.049	-2	1854	30	1.1
47778.3	10000	41.4597	92.6107	-350	QK	1.6	-2	6.6	-1	1.3	1	0.241	-2	1.243	-2	5.154	-2	1845	35	1.1
47778.2	10000	41.4597	92.6098	-354	QK	1.9	-1	6.7	-1	1.3	1	0.280	-1	1.499	-2	5.351	-2	1848	31	1.1
47778.1	10000	41.4597	92.6090	-359	QK	2.0	-1	6.6	-1	1.2	1	0.297	-1	1.616	-1	5.437	-1	1850	48	1.1
47778.0	10000	41.4597	92.6082	-365	QK	2.3	-1	6.5	-1	1.2	1	0.346	0	1.816	-1	5.242	-2	1853	40	1.1
47777.9	10000	41.4597	92.6074	-370	QK	2.5	-1	7.1	0	1.2	1	0.355	0	2.122	0	5.982	-1	1873	33	1.1
47777.8	10000	41.4597	92.6066	-375	QK	2.8	0	7.3	0	1.2	1	0.382	0	2.380	0	6.239	0	1906	39	1.1
47777.7	10000	41.4597	92.6057	-380	QK	2.7	0	7.8	1	1.1	1	0.346	0	2.455	0	7.087	1	1896	35	1.1
47777.6	10000	41.4598	92.6049	-386	QK	3.1	0	8.0	1	1.1	1	0.381	0	2.832	0	7.426	1	1919	35	1.1
47777.5	10000	41.4598	92.6041	-392	QK	3.0	0	8.0	1	1.1	1	0.376	0	2.790	0	7.414	1	1910	44	1.1
47777.4	10000	41.4598	92.6033	-397	QK	3.0	0	8.3	1	1.1	1	0.364	0	2.813	0	7.722	2	1932	42	1.2
47777.3	10000	41.4598	92.6025	-402	QK	2.9	0	8.0	1	1.1	0	0.364	0	2.765	0	7.607	2	1932	40	1.2
47777.2	10000	41.4598	92.6017	-407	QK	2.6	0	7.9	1	1.1	1	0.328	0	2.281	0	6.952	1	1938	44	1.2
47777.1	10000	41.4598	92.6008	-413	QK	2.4	0	7.9	1	1.1	1	0.304	0	2.168	0	7.130	1	1943	47	1.2
47777.0	10000	41.4598	92.6000	-419	QK	2.7	0	7.8	1	1.2	1	0.340	0	2.251	0	6.628	0	1961	44	1.2
47776.9	10000	41.4597	92.5992	-424	QK	2.5	0	7.9	1	1.2	1	0.320	0	2.038	0	6.366	0	1947	42	1.2
47776.8	10000	41.4597	92.5984	-430	QK	2.2	0	7.5	1	1.2	1	0.282	-1	1.769	-1	6.280	0	1947	46	1.2
47776.7	10000	41.4597	92.5976	-435	QK	2.3	0	7.7	1	1.2	1	0.310	-1	1.891	-1	6.108	-1	1941	43	1.2
47776.6	10000	41.4597	92.5968	-441	QK	2.5	0	8.0	1	1.2	1	0.300	-1	1.927	-1	6.420	0	1953	40	1.2
47776.5	10000	41.4597	92.5960	-446	QK	2.5	0	8.3	2	1.2	1	0.312	-1	2.159	-1	6.929	1	1967	45	1.2
47776.4	10000	41.4597	92.5952	-451	QK	2.5	0	8.0	1	1.2	1	0.300	-1	2.070	-1	6.892	1	1969	49	1.2
47776.3	10000	41.4597	92.5944	-457	QK	2.4	0	8.0	1	1.2	1	0.301	-1	1.997	-1	6.637	0	1985	40	1.2
47776.2	10000	41.4597	92.5936	-462	QK	2.5	0	8.3	2	1.2	1	0.319	-1	2.166	-1	6.790	1	2018	34	1.2
47776.1	10000	41.4596	92.5928	-468	QK	2.8	0	8.6	2	1.2	1	0.344	-1	2.343	-1	6.816	1	2054	44	1.2
47776.0	10000	41.4596	92.5920	-474	QK	2.6	0	8.3	2	1.2	1	0.322	-1	2.148	-1	6.673	1	2050	39	1.2
47775.9	10000	41.4596	92.5912	-479	QK	2.6	0	8.3	2	1.2	1	0.317	-1	2.044	-1	6.440	0	2064	43	1.2
47775.8	10000	41.4596	92.5904	-484	QK	2.5	0	8.4	2	1.2	1	0.298	-1	1.860	-1	6.248	0	2065	48	1.2
47775.7	10000	41.4596	92.5896	-489	QK	2.6	0	8.4	2	1.2	1	0.309	-1	1.992	-1	6.928	1	2064	31	1.2
47775.6	10000	41.4596	92.5888	-494	QK	2.6	0	8.4	2	1.2	1	0.309	-1	1.986	-1	6.172	0	2057	39	1.2
47775.5	10000	41.4596	92.5880	-498	QK	2.5	0	8.4	2	1.2	1	0.296	-1	1.847	-1	6.235	0	2055	55	1.2
47775.4	10000	41.4596	92.5872	-504	QK	2.6	0	8.4	2	1.2	1	0.324	-1	1.943	-1	5.996	-1	2043	36	1.2
47775.3	10000	41.4595	92.5863	-509	QK	2.7	0	8.1	1	1.3	0	0.329	0	1.972	-1	5.991	-1	2048	47	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47775.2	10000	41.4595	92.5856	-514	QK	2.6	0	8.1	1	1.3	1	0.327	0	2.045	0	6.260	0	2022	36	1.3
47775.1	10000	41.4595	92.5847	-518	QAL	2.7	1	7.6	1	1.2	1	0.360	0	2.273	0	6.317	0	1988	42	1.3
47775.0	10000	41.4595	92.5839	-523	QAL	2.7	0	7.6	1	1.2	1	0.353	0	2.202	0	6.246	0	1948	36	1.3
47774.9	10000	41.4595	92.5831	-527	QAL	2.5	0	7.1	0	1.2	1	0.352	0	2.052	0	5.827	0	1906	32	1.3
47774.8	10000	41.4595	92.5823	-532	QAL	2.6	0	6.5	0	1.1	0	0.401	0	2.286	0	5.700	-1	1871	56	1.3
47774.7	10000	41.4595	92.5815	-536	QAL	2.4	0	6.8	0	1.1	0	0.353	0	2.176	0	6.168	0	1837	40	1.3
47774.6	10000	41.4595	92.5807	-540	QAL	2.4	0	6.7	0	1.1	0	0.359	0	2.190	0	6.100	0	1792	38	1.3
47774.5	10000	41.4594	92.5799	-544	QAL	2.6	0	6.2	0	1.1	0	0.415	0	2.420	0	5.829	0	1763	42	1.3
47774.4	10000	41.4594	92.5791	-548	QAL	2.3	0	6.3	0	1.1	0	0.372	0	2.129	0	5.720	-1	1749	31	1.3
47774.3	10000	41.4594	92.5783	-552	QAL	2.2	-1	6.3	0	1.1	0	0.347	0	2.006	-1	5.787	0	1750	35	1.3
47774.2	10000	41.4594	92.5775	-556	QAL	2.2	0	6.6	0	1.0	0	0.342	0	2.223	0	6.491	0	1745	49	1.3
47774.1	10000	41.4594	92.5767	-560	QAL	1.9	-1	6.5	0	1.0	-1	0.296	-1	1.934	-1	6.540	1	1729	46	1.3
47774.0	10000	41.4594	92.5759	-563	QAL	2.0	-1	6.2	0	1.0	-1	0.315	-1	1.990	-1	6.312	0	1736	46	1.3
47773.9	10000	41.4594	92.5751	-567	QAL	2.0	-1	6.4	0	1.0	-1	0.315	-1	2.032	-1	6.450	0	1746	43	1.3
47773.8	10000	41.4594	92.5743	-571	QAL	2.1	-1	6.6	0	1.0	0	0.312	-1	2.040	0	6.531	1	1768	24	1.3
47773.7	10000	41.4593	92.5735	-574	QAL	2.3	0	6.6	0	0.9	-1	0.349	0	2.438	0	6.990	1	1780	48	1.3
47773.6	10000	41.4593	92.5727	-579	QAL	2.3	0	6.9	0	0.9	-1	0.328	-1	2.395	0	7.306	2	1789	31	1.3
47773.5	10000	41.4593	92.5719	-584	QAL	2.1	-1	6.8	0	1.0	-1	0.309	-1	2.169	0	7.015	1	1785	30	1.3
47773.4	10000	41.4593	92.5711	-589	QAL	2.3	0	6.8	0	1.0	0	0.330	-1	2.242	0	6.804	1	1778	50	1.3
47773.3	10000	41.4593	92.5703	-593	QAL	2.2	0	6.7	0	1.0	0	0.330	-1	2.196	0	6.661	1	1763	45	1.3
47773.2	10000	41.4593	92.5694	-593	QAL	2.1	-1	6.7	0	1.0	-1	0.320	-1	2.186	0	6.837	1	1760	43	1.3
47773.1	10000	41.4593	92.5686	-595	QAL	1.9	-1	6.3	0	0.9	-1	0.306	-1	2.036	0	6.644	1	1747	44	1.3
47773.0	10000	41.4593	92.5678	-597	QK	1.7	-2	6.1	-1	1.0	-1	0.284	-1	1.796	-1	6.333	0	1722	39	1.3
47772.9	10000	41.4592	92.5670	-600	QK	1.7	-2	6.2	-1	0.9	-1	0.279	-1	1.826	-1	6.536	0	1685	39	1.3
47772.8	10000	41.4592	92.5662	-602	QK	1.8	-1	5.8	-2	0.9	-2	0.321	0	1.996	-1	6.222	0	1669	39	1.2
47772.7	10000	41.4592	92.5654	-604	QK	1.9	-1	5.9	-2	0.9	-2	0.331	0	2.175	0	6.567	0	1664	40	1.2
47772.6	10000	41.4592	92.5646	-606	QK	2.0	-1	5.9	-2	0.9	-2	0.340	0	2.259	0	6.636	0	1657	44	1.2
47772.5	10000	41.4592	92.5638	-608	QK	2.0	-1	5.6	-2	0.9	-2	0.353	0	2.205	0	6.238	0	1641	36	1.2
47772.4	10000	41.4592	92.5630	-609	QK	2.0	-1	5.8	-2	0.9	-2	0.335	0	2.131	0	6.355	0	1630	29	1.2
47772.3	10000	41.4592	92.5622	-611	QK	2.2	-1	6.1	-2	0.9	-2	0.354	0	2.406	0	6.797	0	1638	47	1.2
47772.2	10000	41.4592	92.5614	-611	QAL	2.1	-1	5.8	-1	0.9	-2	0.362	0	2.237	0	6.186	0	1660	44	1.2
47772.1	10000	41.4591	92.5606	-611	QAL	2.2	0	6.5	0	1.0	-1	0.339	0	2.251	0	6.633	1	1710	44	1.2
47772.0	10000	41.4591	92.5598	-611	QAL	2.1	-1	6.3	0	1.0	-1	0.326	0	2.096	0	6.431	0	1731	48	1.2
47771.9	10000	41.4591	92.5590	-611	QAL	2.0	-1	6.2	0	1.0	-1	0.326	-1	1.963	-1	6.029	0	1763	53	1.2
47771.8	10000	41.4591	92.5582	-611	QAL	2.4	0	6.3	0	1.0	0	0.379	0	2.357	0	6.226	0	1800	43	1.2
47771.7	10000	41.4591	92.5574	-610	QAL	2.4	0	6.3	0	1.1	0	0.391	0	2.448	0	6.262	0	1814	49	1.2
47771.6	10000	41.4591	92.5566	-609	QAL	2.5	0	5.9	-1	1.1	0	0.421	0	2.340	0	5.564	-1	1844	30	1.2
47771.5	10000	41.4591	92.5558	-608	QAL	2.7	0	6.0	-1	1.1	0	0.447	0	2.491	0	5.576	-1	1882	44	1.2
47771.4	10000	41.4591	92.5550	-606	QAL	2.6	0	6.0	-1	1.1	0	0.429	0	2.350	0	5.480	-1	1864	46	1.1
47771.3	10000	41.4590	92.5542	-604	QAL	2.7	0	6.0	-1	1.1	0	0.447	0	2.396	0	5.358	-1	1872	46	1.1
47771.2	10000	41.4590	92.5533	-601	QAL	2.8	0	6.0	0	1.1	0	0.466	0	2.501	0	5.369	-1	1867	43	1.1
47771.1	10000	41.4590	92.5526	-598	QAL	2.2	-1	5.8	-1	1.1	0	0.384	0	1.967	-1	5.119	-1	1867	39	1.1
47771.0	10000	41.4590	92.5517	-595	QAL	2.4	0	5.8	-1	1.2	0	0.419	0	2.088	0	4.979	-1	1890	49	1.1
47770.9	10000	41.4590	92.5509	-592	QAL	2.3	0	6.1	0	1.2	0	0.382	0	1.958	-1	5.131	-1	1887	45	1.1
47770.8	10000	41.4590	92.5501	-589	QAL	2.4	0	6.2	0	1.2	0	0.389	0	2.016	-1	5.183	-1	1888	39	1.1
47770.7	10000	41.4590	92.5493	-586	QAL	2.5	0	6.2	0	1.2	0	0.404	0	2.038	0	5.049	-1	1904	36	1.1
47770.6	10000	41.4589	92.5485	-582	QAL	2.4	0	6.1	0	1.2	0	0.391	0	1.952	-1	4.995	-1	1916	31	1.1
47770.5	10000	41.4589	92.5477	-579	QAL	2.3	0	6.5	0	1.2	0	0.347	0	1.811	-1	5.222	-1	1923	46	1.1
47770.4	10000	41.4589	92.5469	-576	QAL	2.3	0	7.0	1	1.3	1	0.324	-1	1.798	-1	5.540	-1	1919	46	1.1
47770.3	10000	41.4589	92.5461	-572	QAL	1.9	-1	7.6	1	1.2	1	0.251	-1	1.570	-1	6.253	0	1898	54	1.0
47770.2	10000	41.4589	92.5453	-569	QAL	2.1	-1	7.8	1	1.2	1	0.264	-1	1.767	-1	6.699	1	1907	46	1.0
47770.1	10000	41.4589	92.5445	-565	QAL	2.1	-1	8.0	1	1.2	1	0.260	-1	1.810	-1	6.961	1	1922	40	1.0

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47770.0	10000	41.4589	92.5437	-562	QAL	2.2	0	7.9	1	1.1	0	0.285	-1	1.962	-1	6.892	1	1942	43	1.0
47769.9	10000	41.4589	92.5429	-559	QAL	2.5	0	7.8	1	1.2	1	0.316	-1	2.101	0	6.657	1	1954	30	1.0
47769.8	10000	41.4588	92.5421	-556	QAL	2.7	1	7.8	1	1.2	1	0.352	0	2.346	0	6.667	1	1970	35	1.0
47769.7	10000	41.4588	92.5413	-553	QAL	2.9	1	7.6	1	1.1	1	0.380	0	2.528	0	6.652	1	1976	47	1.0
47769.6	10000	41.4588	92.5405	-550	QAL	3.1	1	7.5	1	1.2	1	0.414	0	2.528	0	6.105	0	2000	41	1.0
47769.5	10000	41.4588	92.5397	-547	QK	2.9	1	7.3	1	1.3	1	0.400	1	2.299	0	5.750	-1	2005	42	1.0
47769.4	10000	41.4588	92.5389	-544	QK	2.9	1	7.4	0	1.3	1	0.389	1	2.286	0	5.886	-1	1993	41	1.0
47769.3	10000	41.4588	92.5381	-541	QK	2.6	1	7.3	0	1.2	1	0.353	0	2.096	0	5.933	-1	1965	42	0.9
47769.2	10000	41.4588	92.5372	-539	QK	2.5	0	7.5	0	1.2	1	0.328	0	2.048	0	6.252	0	1941	46	0.9
47769.1	10000	41.4588	92.5365	-536	QK	2.3	0	7.4	0	1.2	0	0.309	-1	1.976	-1	6.405	0	1917	36	0.9
47769.0	10000	41.4587	92.5356	-534	QK	2.4	0	7.3	0	1.1	0	0.327	0	2.157	0	6.605	0	1880	41	0.9
47768.9	10000	41.4587	92.5348	-530	QK	2.4	0	7.0	0	1.1	0	0.345	0	2.283	0	6.612	0	1843	41	0.9
47768.8	10000	41.4587	92.5340	-526	QK	2.5	0	7.1	0	1.0	-1	0.355	0	2.455	0	6.923	1	1809	35	0.9
47768.7	10000	41.4587	92.5332	-525	QK	2.3	0	6.8	-1	1.0	-1	0.343	0	2.343	0	6.826	0	1784	35	0.9
47768.6	10000	41.4587	92.5324	-523	QK	2.4	0	6.9	0	1.0	-1	0.354	0	2.441	0	6.898	1	1788	31	0.9
47768.5	10000	41.4587	92.5316	-520	QK	2.6	0	7.1	0	1.0	-1	0.360	0	2.487	0	6.904	1	1783	46	0.9
47768.4	10000	41.4587	92.5308	-517	QK	2.6	0	7.0	0	1.0	-1	0.375	0	2.571	1	6.851	1	1780	41	0.9
47768.3	10000	41.4586	92.5300	-514	QK	2.6	0	7.1	0	1.1	0	0.365	0	2.444	0	6.697	0	1815	46	0.8
47768.2	10000	41.4586	92.5292	-510	QK	2.3	0	7.1	0	1.2	0	0.329	0	2.021	-1	6.149	0	1852	35	0.8
47768.1	10000	41.4586	92.5284	-507	QK	2.4	0	7.1	0	1.2	1	0.331	0	1.967	-1	5.944	-1	1879	52	0.8
47768.0	10000	41.4586	92.5276	-503	QK	2.7	0	7.2	0	1.2	1	0.372	0	2.134	0	5.743	-1	1907	36	0.8
47767.9	10000	41.4586	92.5268	-499	QK	2.8	0	7.3	0	1.2	1	0.380	0	2.297	0	6.050	-1	1907	46	0.8
47767.8	10000	41.4586	92.5260	-495	QK	2.6	0	7.3	0	1.2	1	0.353	0	2.125	0	6.017	-1	1936	39	0.8
47767.7	10000	41.4586	92.5252	-491	QK	2.6	0	7.4	0	1.3	1	0.354	0	2.094	0	5.915	-1	1953	40	0.8
47767.6	10000	41.4586	92.5244	-487	QK	2.8	1	6.8	-1	1.2	1	0.412	1	2.317	0	5.626	-1	1954	60	0.8
47767.5	10000	41.4585	92.5236	-484	QK	2.1	1	6.9	0	1.1	1	0.456	1	2.849	1	6.240	0	1925	35	0.8
47767.4	10000	41.4585	92.5228	-480	QAL	2.2	1	6.7	0	1.1	1	0.469	1	2.870	1	6.115	0	1913	48	0.8
47767.3	10000	41.4585	92.5220	-477	QAL	2.2	1	6.9	0	1.0	1	0.457	1	3.042	1	6.663	1	1888	44	0.8
47767.2	10000	41.4585	92.5211	-473	QAL	2.4	1	6.9	0	1.0	1	0.484	1	3.281	1	6.776	1	1887	43	0.8
47767.1	10000	41.4585	92.5203	-468	QAL	2.7	2	6.7	0	1.0	1	0.556	2	3.857	1	6.937	1	1878	40	0.8
47767.0	10000	41.4585	92.5195	-465	QAL	2.7	2	6.6	0	0.9	1	0.561	2	4.055	1	7.233	1	1874	37	0.7
47766.9	10000	41.4585	92.5187	-468	QAL	2.5	2	7.0	0	1.0	1	0.501	1	3.544	1	7.067	1	1869	39	0.7
47766.8	10000	41.4585	92.5179	-469	QAL	2.4	2	6.8	0	1.0	1	0.497	1	3.264	1	6.563	1	1873	48	0.7
47766.7	10000	41.4584	92.5171	-469	QAL	2.1	2	6.9	0	1.0	1	0.450	1	3.197	2	7.098	1	1871	47	0.7
47766.6	10000	41.4584	92.5163	-469	QAL	2.9	1	6.6	0	1.0	1	0.434	1	2.848	1	6.569	1	1868	37	0.7
47766.5	10000	41.4584	92.5155	-471	QAL	2.9	1	6.4	0	1.0	1	0.457	1	2.802	1	6.137	0	1877	39	0.7
47766.4	10000	41.4584	92.5147	-474	QAL	2.6	0	6.6	0	1.1	0	0.400	1	2.476	1	6.190	0	1854	41	0.7
47766.3	10000	41.4584	92.5139	-477	QK	2.6	0	6.7	-1	1.1	1	0.392	1	2.375	1	6.062	-1	1852	46	0.7
47766.2	10000	41.4584	92.5131	-481	QK	2.8	0	6.9	0	1.1	1	0.404	1	2.489	1	6.157	0	1850	42	0.7
47766.1	10000	41.4584	92.5123	-485	QK	2.7	0	7.1	0	1.1	1	0.385	1	2.472	1	6.426	0	1863	38	0.7
47766.0	10000	41.4584	92.5115	-490	QK	3.0	1	7.1	0	1.2	1	0.425	1	2.575	1	6.059	-1	1876	43	0.7
47765.9	10000	41.4583	92.5107	-496	QK	3.0	1	7.1	0	1.1	1	0.429	1	2.645	1	6.160	0	1893	50	0.7
47765.8	10000	41.4583	92.5099	-504	QK	3.0	1	7.2	0	1.2	1	0.425	1	2.622	1	6.171	0	1914	48	0.7
47765.7	10000	41.4583	92.5091	-511	QK	3.3	1	7.1	0	1.2	1	0.466	2	2.765	1	5.934	-1	1952	36	0.7
47765.6	10000	41.4583	92.5083	-518	QK	3.4	2	7.0	0	1.2	1	0.487	2	2.821	1	5.793	-1	1975	47	0.7
47765.5	10000	41.4583	92.5075	-525	QK	3.5	2	7.1	0	1.2	1	0.490	2	2.939	1	6.001	-1	1995	35	0.6
47765.4	10000	41.4583	92.5067	-532	QK	3.4	2	7.1	0	1.2	1	0.488	2	2.961	1	6.071	-1	1991	40	0.6
47765.3	10000	41.4583	92.5059	-538	QK	3.2	2	7.4	0	1.2	1	0.434	2	2.749	1	6.331	-1	1999	43	0.6
47765.2	10000	41.4582	92.5051	-544	QK	3.5	2	7.6	0	1.2	1	0.466	2	2.916	1	6.265	0	2015	41	0.6
47765.1	10000	41.4582	92.5042	-553	QK	3.2	1	7.4	0	1.2	1	0.432	2	2.563	1	5.938	-1	1989	46	0.6
47765.0	10000	41.4582	92.5034	-562	QK	3.2	1	7.4	0	1.2	1	0.429	2	2.554	1	5.948	-1	1958	27	0.6
47764.9	10000	41.4582	92.5026	-570	QK	3.2	1	7.4	0	1.2	1	0.428	1	2.629	1	6.143	0	1936	50	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47764.8	10000	41.4582	92.5018	-578	QK	2.8	1	7.2	0	1.2	1	0.395	1	2.323	0	5.875	-1	1900	49	0.6
47764.7	10000	41.4582	92.5010	-586	QK	3.0	1	7.5	0	1.2	0	0.407	1	2.603	0	6.402	0	1885	42	0.6
47764.6	10000	41.4582	92.5002	-594	QK	3.3	2	7.2	0	1.1	0	0.460	2	2.930	1	6.369	0	1861	47	0.6
47764.5	10000	41.4582	92.4994	-601	QK	3.1	1	7.3	0	1.1	0	0.431	1	2.934	1	6.811	0	1807	48	0.6
47764.4	10000	41.4581	92.4986	-609	QK	3.1	1	7.7	1	1.0	-1	0.399	1	3.048	2	7.642	2	1772	46	0.6
47764.3	10000	41.4581	92.4978	-618	QK	2.9	1	8.1	1	0.9	-2	0.358	0	3.112	2	8.704	3	1749	30	0.6
47764.2	10000	41.4581	92.4970	-627	QK	2.4	0	8.1	1	0.9	-2	0.300	-1	2.619	1	8.716	3	1704	42	0.6
47764.1	10000	41.4581	92.4962	-635	QK	2.2	-1	7.8	1	0.9	-2	0.286	-1	2.497	0	8.730	3	1670	41	0.6
47764.0	10000	41.4581	92.4954	-645	QK	2.0	-1	7.7	1	1.0	-1	0.264	-1	2.133	0	8.071	2	1646	48	0.6
47763.9	10000	41.4581	92.4946	-653	QK	1.6	-2	7.7	1	0.9	-2	0.203	-2	1.667	-1	8.213	2	1615	65	0.6
47763.8	10000	41.4581	92.4938	-662	QK	1.5	-2	7.6	0	1.0	-1	0.204	-2	1.612	-1	7.898	2	1623	39	0.6
47763.7	10000	41.4580	92.4930	-671	QK	1.5	-2	7.1	0	0.9	-1	0.213	-2	1.610	-1	7.545	2	1602	45	0.6
47763.6	10000	41.4580	92.4922	-679	QK	1.6	-2	6.7	-1	1.0	-1	0.244	-1	1.652	-1	6.760	0	1586	30	0.6
47763.5	10000	41.4580	92.4914	-686	QK	1.9	-1	6.6	-1	1.0	-1	0.284	-1	1.850	-1	6.524	0	1585	48	0.6
47763.4	10000	41.4580	92.4906	-695	QK	2.0	-1	6.9	0	1.0	-1	0.289	-1	2.025	-1	7.005	1	1608	41	0.6
47763.3	10000	41.4580	92.4898	-706	QK	2.0	-1	6.5	-1	1.0	-1	0.304	-1	2.024	-1	6.666	0	1631	46	0.6
47763.2	10000	41.4580	92.4890	-715	QK	2.4	0	6.4	-1	1.0	-1	0.374	0	2.374	0	6.350	0	1650	38	0.6
47763.1	10000	41.4580	92.4881	-723	QK	2.3	0	6.4	-1	1.0	-1	0.362	0	2.339	0	6.460	0	1652	32	0.6
47763.0	10000	41.4579	92.4874	-731	QK	2.4	0	6.7	-1	1.0	-1	0.351	0	2.339	0	6.669	0	1688	46	0.6
47762.9	10000	41.4579	92.4865	-737	QK	2.1	-1	6.8	-1	1.0	-1	0.313	-1	2.048	0	6.539	0	1724	32	0.6
47762.8	10000	41.4579	92.4857	-744	QK	1.9	-1	6.8	-1	1.0	-1	0.276	-1	1.811	-1	6.550	0	1763	43	0.6
47762.7	10000	41.4579	92.4849	-750	QK	2.1	-1	6.7	-1	1.1	0	0.320	0	1.993	-1	6.223	0	1790	48	0.6
47762.6	10000	41.4579	92.4841	-756	QK	2.2	-1	6.9	0	1.1	0	0.323	0	1.992	-1	6.165	0	1809	35	0.6
47762.5	10000	41.4579	92.4833	-761	QK	2.3	0	7.1	0	1.1	0	0.326	0	2.051	0	6.289	0	1839	56	0.6
47762.4	10000	41.4579	92.4825	-766	QK	2.5	0	7.1	0	1.2	1	0.358	0	2.160	0	6.035	-1	1876	42	0.6
47762.3	10000	41.4579	92.4817	-771	QK	2.8	1	7.0	0	1.2	1	0.399	1	2.398	0	6.012	-1	1892	40	0.6
47762.2	10000	41.4578	92.4809	-775	QK	2.9	1	7.0	0	1.2	1	0.411	1	2.478	0	6.025	-1	1907	39	0.6
47762.1	10000	41.4578	92.4801	-779	QK	2.9	1	7.0	0	1.2	1	0.414	1	2.398	0	5.797	-1	1899	51	0.6
47762.0	10000	41.4578	92.4793	-782	QK	2.9	1	7.0	0	1.2	1	0.414	1	2.412	0	5.821	-1	1910	37	0.6
47761.9	10000	41.4578	92.4785	-784	QK	3.1	1	7.1	0	1.2	1	0.435	1	2.595	1	5.962	-1	1915	37	0.6
47761.8	10000	41.4578	92.4777	-787	QK	3.2	1	7.0	0	1.2	1	0.464	2	2.719	1	5.857	-1	1916	39	0.6
47761.7	10000	41.4578	92.4769	-790	QK	3.2	1	7.2	0	1.2	1	0.443	1	2.705	1	6.111	-1	1922	45	0.6
47761.6	10000	41.4578	92.4760	-792	QK	3.1	1	7.6	1	1.2	1	0.403	1	2.530	1	6.270	0	1926	37	0.6
47761.5	10000	41.4578	92.4752	-794	QK	3.2	1	7.8	1	1.2	1	0.408	1	2.616	1	6.416	0	1936	38	0.6
47761.4	10000	41.4578	92.4744	-795	QK	3.6	2	8.1	1	1.2	1	0.437	1	3.075	2	7.040	1	1945	39	0.6
47761.3	10000	41.4578	92.4736	-796	QK	3.4	2	8.1	1	1.1	1	0.424	1	3.068	2	7.237	1	1923	31	0.6
47761.2	10000	41.4578	92.4728	-797	QK	3.4	2	8.1	1	1.1	1	0.417	1	3.086	2	7.405	1	1907	38	0.6
47761.1	10000	41.4579	92.4720	-798	QK	3.2	2	7.9	1	1.1	1	0.412	1	3.036	2	7.361	1	1885	52	0.6
47761.0	10000	41.4579	92.4711	-798	QK	3.2	2	7.8	1	1.1	0	0.414	1	3.048	2	7.364	1	1853	46	0.6
47760.9	10000	41.4579	92.4703	-799	QK	3.3	2	7.4	1	1.0	-1	0.449	1	3.259	2	7.259	1	1850	44	0.6
47760.8	10000	41.4579	92.4695	-799	QK	3.3	2	7.3	1	1.0	-1	0.451	1	3.351	2	7.436	1	1837	47	0.6
47760.7	10000	41.4579	92.4687	-800	QK	3.4	2	7.3	1	1.0	-1	0.463	2	3.474	3	7.497	1	1826	37	0.6
47760.6	10000	41.4579	92.4679	-800	QK	3.5	2	7.2	1	1.0	-1	0.484	2	3.687	3	7.613	2	1825	39	0.6
47760.5	10000	41.4579	92.4671	-800	QK	3.6	2	7.1	1	0.9	-1	0.509	2	3.791	3	7.449	1	1821	46	0.6
47760.4	10000	41.4579	92.4662	-800	QK	3.5	2	7.4	1	0.9	-2	0.475	2	3.793	3	7.992	2	1821	40	0.6
47760.3	10000	41.4579	92.4654	-800	QK	3.5	2	7.3	1	0.9	-2	0.474	2	3.752	3	7.917	2	1840	41	0.6
47760.2	10000	41.4579	92.4646	-800	QK	3.4	2	7.2	1	0.9	-2	0.468	2	3.703	3	7.905	2	1814	42	0.6
47760.1	10000	41.4579	92.4638	-800	QK	3.2	2	7.0	1	0.9	-2	0.461	2	3.622	3	7.864	2	1788	52	0.6
47760.0	10000	41.4579	92.4630	-799	QK	2.9	1	7.0	0	0.9	-2	0.417	2	3.193	2	7.661	2	1765	39	0.6
47759.9	10000	41.4579	92.4621	-798	QK	2.7	1	7.3	0	0.9	-1	0.366	1	2.811	1	7.686	2	1731	34	0.6
47759.8	10000	41.4579	92.4613	-796	QK	2.6	1	7.1	0	0.9	-2	0.360	1	2.817	1	7.836	2	1698	48	0.6
47759.7	10000	41.4579	92.4605	-795	QK	2.6	0	6.9	0	0.9	-2	0.377	0	2.786	1	7.383	1	1685	35	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47759.6	10000	41.4579	92.4597	-793	QK	2.7	0	6.7	-1	0.9	-2	0.395	1	3.046	2	7.711	2	1662	36	0.6
47759.5	10000	41.4579	92.4589	-791	QK	2.7	0	6.8	-1	0.9	-2	0.395	1	2.972	1	7.528	1	1670	53	0.6
47759.4	10000	41.4580	92.4581	-788	QK	2.8	0	6.6	-1	0.9	-2	0.416	1	2.991	2	7.196	1	1689	46	0.6
47759.3	10000	41.4580	92.4572	-786	QK	2.8	1	6.7	-1	0.9	-1	0.426	1	3.016	2	7.077	1	1737	30	0.6
47759.2	10000	41.4580	92.4564	-782	QK	3.3	2	6.6	-1	1.0	-1	0.495	2	3.350	2	6.767	0	1781	32	0.6
47759.1	10000	41.4580	92.4556	-779	QK	3.2	1	7.1	0	1.0	-1	0.443	1	3.179	2	7.174	1	1814	53	0.6
47759.0	10000	41.4580	92.4548	-775	QK	2.9	1	7.1	0	1.0	-1	0.403	1	2.993	2	7.420	1	1826	46	0.6
47758.9	10000	41.4580	92.4540	-771	QK	2.8	1	7.4	0	1.0	-1	0.380	0	2.767	1	7.276	1	1844	45	0.6
47758.8	10000	41.4580	92.4532	-767	QK	3.0	1	7.4	0	1.0	-1	0.399	1	2.957	1	7.418	1	1855	51	0.6
47758.7	10000	41.4580	92.4523	-763	QK	3.0	1	7.7	1	1.0	-1	0.389	1	3.035	2	7.812	2	1859	36	0.6
47758.6	10000	41.4580	92.4515	-758	QK	3.0	1	7.7	1	1.0	-1	0.387	0	3.011	2	7.781	2	1850	39	0.6
47758.5	10000	41.4580	92.4507	-752	QK	2.7	0	7.8	1	1.0	-1	0.341	0	2.788	1	8.165	2	1850	43	0.6
47758.4	10000	41.4580	92.4499	-746	QK	2.6	0	7.7	1	1.0	-1	0.339	0	2.582	1	7.621	2	1858	48	0.6
47758.3	10000	41.4580	92.4491	-740	QK	2.7	0	8.0	1	1.1	0	0.345	0	2.577	1	7.466	1	1862	37	0.6
47758.2	10000	41.4580	92.4483	-734	QK	2.7	0	7.7	1	1.1	-1	0.356	0	2.595	1	7.292	1	1850	54	0.6
47758.1	10000	41.4580	92.4474	-730	QK	2.6	0	7.9	1	1.0	-1	0.331	0	2.551	1	7.715	2	1836	40	0.6
47758.0	10000	41.4580	92.4466	-726	QK	2.7	0	8.2	1	1.0	-1	0.332	0	2.712	1	8.163	2	1822	52	0.6
47757.9	10000	41.4580	92.4458	-721	QK	2.7	0	7.9	1	0.9	-2	0.340	0	2.881	1	8.471	3	1784	48	0.6
47757.8	10000	41.4580	92.4450	-714	QK	2.6	0	7.9	1	0.9	-2	0.332	0	2.930	1	8.820	3	1743	46	0.6
47757.7	10000	41.4580	92.4442	-708	QK	2.6	0	8.2	1	0.9	-2	0.314	-1	2.998	2	9.545	4	1726	39	0.6
47757.6	10000	41.4581	92.4434	-702	QK	2.6	0	8.1	1	0.8	-3	0.316	0	3.150	2	9.979	5	1728	37	0.6
47757.5	10000	41.4581	92.4425	-694	QK	2.5	0	8.6	2	0.9	-2	0.289	-1	2.928	1	10.136	5	1725	36	0.6
47757.4	10000	41.4581	92.4417	-686	QK	2.4	0	8.1	1	1.0	-1	0.294	-1	2.507	1	8.540	3	1738	45	0.6
47757.3	10000	41.4581	92.4409	-679	QK	2.4	0	7.5	0	1.0	-1	0.325	0	2.462	0	7.574	2	1749	36	0.6
47757.2	10000	41.4581	92.4401	-671	QK	2.5	0	7.6	1	1.0	-1	0.328	0	2.406	0	7.329	1	1780	32	0.6
47757.1	10000	41.4581	92.4393	-664	QK	2.5	0	7.3	0	1.1	0	0.347	0	2.337	0	6.741	0	1792	44	0.6
47757.0	10000	41.4581	92.4384	-655	QK	2.7	0	6.9	0	1.1	-1	0.388	1	2.546	1	6.556	0	1763	44	0.6
47756.9	10000	41.4581	92.4376	-647	QK	2.7	0	6.9	0	1.0	-1	0.391	1	2.560	1	6.552	0	1742	44	0.6
47756.8	10000	41.4581	92.4368	-638	QK	2.9	1	6.2	-1	1.0	-1	0.463	2	2.953	1	6.378	0	1714	47	0.6
47756.7	10000	41.4581	92.4360	-629	QK	3.0	1	6.4	-1	0.9	-2	0.465	2	3.356	2	7.222	1	1687	50	0.6
47756.6	10000	41.4581	92.4352	-620	QK	3.0	1	6.4	-1	0.9	-2	0.469	2	3.494	3	7.448	1	1646	42	0.6
47756.5	10000	41.4581	92.4344	-611	QK	2.9	1	6.4	-1	0.9	-2	0.468	2	3.465	3	7.406	1	1611	52	0.6
47756.4	10000	41.4581	92.4335	-601	QK	2.7	1	6.1	-1	0.8	-3	0.443	2	3.419	2	7.725	2	1593	43	0.6
47756.3	10000	41.4581	92.4327	-591	QK	2.6	1	6.0	-2	0.8	-3	0.430	2	3.164	2	7.365	1	1593	41	0.6
47756.2	10000	41.4581	92.4319	-581	QK	2.5	1	5.7	-2	0.8	-3	0.438	2	3.106	2	7.099	1	1595	36	0.6
47756.1	10000	41.4581	92.4311	-570	QK	2.4	1	6.1	-2	0.8	-3	0.390	2	2.825	1	7.245	1	1602	57	0.6
47756.0	10000	41.4581	92.4303	-560	QK	2.2	1	5.9	-2	0.8	-3	0.376	2	2.534	1	6.748	0	1608	45	0.6
47755.9	10000	41.4582	92.4295	-550	QK	2.0	1	6.2	-1	0.9	-2	0.329	1	2.262	1	6.883	1	1621	42	0.6
47755.8	10000	41.4582	92.4286	-540	QK	1.9	1	6.6	-1	0.9	-2	0.289	-1	2.103	0	7.266	1	1633	52	0.6
47755.7	10000	41.4582	92.4278	-530	QK	2.2	1	6.8	-1	0.9	-2	0.330	0	2.387	0	7.228	1	1656	44	0.6
47755.6	10000	41.4582	92.4270	-521	QK	2.4	1	6.7	-1	0.9	-2	0.356	0	2.499	0	7.026	1	1692	45	0.6
47755.5	10000	41.4582	92.4262	-511	QK	2.4	1	6.9	0	0.9	-1	0.353	0	2.414	0	6.845	1	1722	29	0.6
47755.4	10000	41.4582	92.4254	-502	QK	2.2	1	6.5	-1	1.0	-1	0.330	0	2.050	0	6.204	0	1749	41	0.6
47755.3	10000	41.4582	92.4246	-494	QK	2.1	1	6.7	-1	1.1	-1	0.314	-1	1.945	-1	6.194	0	1752	50	0.6
47755.2	10000	41.4582	92.4237	-486	QK	2.0	1	6.8	-1	1.1	-1	0.292	-1	1.749	-1	5.998	-1	1763	38	0.6
47755.1	10000	41.4582	92.4229	-478	QK	2.2	1	6.5	-1	1.1	-1	0.342	0	1.940	-1	5.676	-1	1759	43	0.6
47755.0	10000	41.4582	92.4221	-471	QK	1.9	1	6.8	-1	1.1	-1	0.286	-1	1.660	-1	5.806	-1	1741	30	0.6
47754.9	10000	41.4582	92.4213	-463	QK	1.7	-2	6.8	-1	1.2	-1	0.256	-1	1.468	-2	5.736	-1	1739	55	0.6
47754.8	10000	41.4582	92.4205	-457	QK	1.5	-2	7.1	0	1.2	-1	0.210	-2	1.220	-2	5.823	-1	1734	46	0.6
47754.7	10000	41.4582	92.4197	-454	QK	1.5	-2	7.5	0	1.2	-1	0.206	-2	1.267	-2	6.138	0	1734	36	0.6
47754.6	10000	41.4582	92.4188	-450	QK	1.7	-2	7.7	1	1.2	-1	0.217	-2	1.394	-2	6.431	0	1747	41	0.6
47754.5	10000	41.4582	92.4180	-446	QK	1.7	-2	7.4	0	1.2	1	0.236	-2	1.463	-2	6.207	0	1761	39	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GECL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47754.4	10000	41.4582	92.4172	-443	QK	1.8	-2	7.3	0	1.2	1	0.244	-1	1.508	-2	6.175	0	1777	42	0.6
47754.3	10000	41.4582	92.4164	-441	QK	2.0	-1	6.7	-1	1.2	0	0.293	-1	1.709	-1	5.839	-1	1792	48	0.6
47754.2	10000	41.4583	92.4156	-440	QK	2.0	-1	6.6	-1	1.2	0	0.307	-1	1.738	-1	5.657	-1	1793	39	0.6
47754.1	10000	41.4583	92.4147	-438	QK	2.2	-1	6.2	-1	1.1	0	0.353	0	1.909	-1	5.404	-2	1769	56	0.6
47754.0	10000	41.4583	92.4139	-437	QK	2.3	0	6.3	-1	1.1	0	0.365	0	2.111	0	5.784	-1	1755	53	0.6
47753.9	10000	41.4583	92.4131	-436	QK	2.2	-1	6.5	-1	1.1	0	0.341	0	2.066	0	6.066	-1	1724	40	0.6
47753.8	10000	41.4583	92.4123	-436	QK	2.1	-1	6.5	-1	1.0	-1	0.324	0	2.031	0	6.276	0	1702	47	0.6
47753.7	10000	41.4583	92.4115	-436	QK	2.1	-1	7.1	0	1.0	-1	0.293	-1	2.008	-1	6.861	1	1697	44	0.6
47753.6	10000	41.4583	92.4107	-436	QK	2.2	-1	7.4	0	1.0	-1	0.290	-1	2.077	0	7.163	1	1695	41	0.6
47753.5	10000	41.4583	92.4099	-436	QK	2.2	-1	7.8	1	1.0	-1	0.279	-1	2.172	0	7.791	2	1690	41	0.6
47753.4	10000	41.4583	92.4090	-436	QK	2.4	0	7.9	1	1.0	-1	0.304	-1	2.519	1	8.274	3	1702	42	0.6
47753.3	10000	41.4583	92.4082	-435	QK	2.5	0	7.5	0	0.9	-2	0.332	0	2.666	1	8.024	2	1713	36	0.6
47753.2	10000	41.4583	92.4074	-435	QK	2.7	0	7.2	0	0.9	-1	0.375	0	2.853	1	7.617	2	1710	52	0.6
47753.1	10000	41.4583	92.4066	-434	QK	2.9	1	7.2	0	0.9	-2	0.407	1	3.135	2	7.703	2	1712	43	0.6
47753.0	10000	41.4583	92.4058	-434	QK	2.7	0	7.1	0	0.9	-2	0.380	0	2.961	1	7.792	2	1683	37	0.6
47752.9	10000	41.4583	92.4050	-433	QK	2.6	0	6.8	-1	0.9	-2	0.378	0	2.769	1	7.322	1	1676	54	0.6
47752.8	10000	41.4583	92.4041	-432	QK	2.5	0	6.8	-1	1.0	-1	0.364	0	2.589	1	7.104	1	1684	40	0.6
47752.7	10000	41.4583	92.4033	-431	QK	2.5	0	7.2	0	1.0	-1	0.346	0	2.470	0	7.137	1	1692	40	0.6
47752.6	10000	41.4583	92.4025	-429	QK	2.4	0	7.3	0	1.1	0	0.333	0	2.290	0	6.874	1	1715	36	0.6
47752.5	10000	41.4583	92.4017	-428	QK	2.3	-1	7.2	0	1.1	0	0.314	-1	2.055	0	6.546	0	1746	62	0.6
47752.4	10000	41.4583	92.4009	-426	QK	2.3	-1	7.3	0	1.1	0	0.307	-1	2.038	0	6.631	0	1765	46	0.6
47752.3	10000	41.4583	92.4001	-425	QK	2.4	0	7.1	0	1.1	0	0.344	0	2.223	0	6.464	0	1804	33	0.6
47752.2	10000	41.4584	92.3992	-423	QK	2.3	0	7.7	1	1.1	0	0.301	-1	2.109	0	7.004	1	1828	52	0.6
47752.1	10000	41.4584	92.3984	-421	QK	2.3	0	7.6	1	1.1	0	0.308	-1	2.176	0	7.057	1	1827	40	0.6
47752.0	10000	41.4584	92.3976	-419	QK	2.1	-1	7.6	1	1.1	0	0.279	-1	1.988	-1	7.138	1	1830	40	0.6
47751.9	10000	41.4584	92.3968	-417	QK	2.2	-1	7.6	1	1.0	-1	0.288	-1	2.162	0	7.496	1	1810	47	0.6
47751.8	10000	41.4584	92.3960	-416	QK	2.3	0	7.7	1	1.0	-1	0.302	-1	2.269	0	7.523	1	1814	40	0.6
47751.7	10000	41.4584	92.3951	-414	QK	2.2	-1	7.9	1	1.0	-1	0.282	-1	2.128	0	7.547	2	1815	40	0.6
47751.6	10000	41.4584	92.3943	-412	QK	2.1	-1	7.9	1	1.1	-1	0.259	-1	1.860	-1	7.175	1	1804	33	0.6
47751.5	10000	41.4584	92.3935	-411	QK	2.1	-1	7.6	1	1.1	-1	0.279	-1	1.908	-1	6.850	1	1784	45	0.6
47751.4	10000	41.4584	92.3927	-409	QK	2.0	-1	7.7	1	1.1	-1	0.260	-1	1.805	-1	6.948	1	1779	51	0.6
47751.3	10000	41.4584	92.3919	-407	QK	2.0	-1	7.5	1	1.1	-1	0.271	-1	1.882	-1	6.939	1	1765	44	0.6
47751.2	10000	41.4584	92.3911	-406	QK	2.0	-1	7.3	1	1.1	-1	0.272	-1	1.819	-1	6.690	0	1767	40	0.6
47751.1	10000	41.4584	92.3902	-405	QK	2.1	-1	7.3	1	1.1	-1	0.287	-1	1.977	-1	6.885	1	1759	38	0.6
47751.0	10000	41.4584	92.3894	-404	QK	2.1	-1	7.2	1	1.1	0	0.296	-1	2.056	0	6.943	1	1743	40	0.6
47750.9	10000	41.4584	92.3886	-403	QK	2.2	-1	6.9	0	1.1	0	0.321	-1	2.117	0	6.585	0	1740	34	0.6
47750.8	10000	41.4584	92.3878	-401	QK	2.2	-1	7.0	1	1.1	0	0.319	-1	2.031	0	6.374	0	1744	43	0.6
47750.7	10000	41.4584	92.3870	-401	QK	2.3	-1	6.6	-1	1.1	0	0.346	-1	2.024	-1	5.847	-1	1747	34	0.6
47750.6	10000	41.4584	92.3862	-401	QK	2.4	-1	6.7	-1	1.2	0	0.355	-1	2.034	-1	5.756	-1	1742	41	0.6
47750.5	10000	41.4584	92.3853	-401	QK	2.2	-1	6.9	0	1.2	0	0.327	-1	1.[illegible]	-1	5.799	-1	1752	51	0.6
47750.4	10000	41.4585	92.3845	-401	QK	2.0	-1	6.9	0	1.2	0	0.283	-1	1.629	-1	5.757	-1	1746	49	0.6
47750.3	10000	41.4585	92.3837	-402	QK	1.7	-2	7.3	0	1.2	0	0.240	-2	1.446	-2	6.016	-1	1759	44	0.6
47750.2	10000	41.4585	92.3829	-402	QK	1.6	-2	7.5	0	1.2	0	0.208	-2	1.309	-2	6.287	0	1758	40	0.5
47750.1	10000	41.4585	92.3821	-403	QK	1.5	-2	7.9	0	1.2	0	0.195	-2	1.345	-2	6.910	1	1757	42	0.5
47750.0	10000	41.4585	92.3813	-404	QK	1.5	-2	8.5	1	1.2	0	0.177	-2	1.335	-2	7.545	2	1764	37	0.5
47749.9	10000	41.4585	92.3804	-406	QK	1.7	-2	8.6	1	1.2	0	0.194	-2	1.480	-2	7.627	2	1792	38	0.5
47749.8	10000	41.4585	92.3796	-408	QK	1.6	-2	8.5	1	1.2	0	0.190	-2	1.467	-2	7.711	2	1800	39	0.5
47749.7	10000	41.4585	92.3788	-409	QK	1.8	-2	8.5	1	1.2	0	0.205	-2	1.527	-2	7.440	1	1816	43	0.5
47749.6	10000	41.4585	92.3780	-412	QK	1.8	-2	8.5	1	1.2	0	0.207	-2	1.500	-2	7.245	1	1813	47	0.5
47749.5	10000	41.4585	92.3772	-414	QK	2.0	-1	8.5	1	1.2	0	0.235	-2	1.733	-1	7.384	1	1819	38	0.5
47749.4	10000	41.4585	92.3764	-418	QK	1.9	-1	8.3	1	1.2	0	0.234	-2	1.654	-1	7.073	1	1817	43	0.5
47749.3	10000	41.4585	92.3755	-421	QK	2.1	-1	7.8	1	1.2	0	0.265	-1	1.789	-1	6.747	0	1816	44	0.5

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47749.2	10000	41.4585	92.3747	-424	QK	2.1	-1	7.5	0	1.2	1	0.282	-1	1.781	-1	6.311	0	1797	42	0.5
47749.1	10000	41.4585	92.3739	-428	QK	2.2	-1	7.1	0	1.2	0	0.306	-1	1.851	-1	6.043	-1	1759	53	0.5
47749.0	10000	41.4585	92.3731	-433	QK	1.9	-1	7.0	0	1.1	0	0.271	-1	1.737	-1	6.400	0	1713	53	0.5
47748.9	10000	41.4585	92.3723	-437	QK	2.1	-1	6.6	-1	1.1	0	0.315	0	1.952	-1	6.190	0	1672	40	0.5
47748.8	10000	41.4585	92.3714	-442	QK	1.7	-2	6.4	-1	1.0	-1	0.270	-1	1.641	-1	6.088	-1	1639	36	0.5
47748.7	10000	41.4585	92.3706	-446	QK	1.7	-2	6.4	-1	1.0	-1	0.260	-1	1.606	-1	6.167	0	1620	45	0.5
47748.6	10000	41.4585	92.3698	-451	QK	1.8	-2	6.4	-1	1.0	-1	0.274	-1	1.757	-1	6.417	0	1605	39	0.5
47748.5	10000	41.4586	92.3690	-456	QK	1.6	-2	6.5	-1	0.9	-1	0.245	-1	1.694	-1	6.927	1	1603	50	0.5
47748.4	10000	41.4586	92.3682	-461	QK	1.8	-2	6.7	-1	1.0	-1	0.261	-1	1.830	-1	7.023	1	1617	46	0.5
47748.3	10000	41.4586	92.3674	-465	QK	2.2	-1	6.7	-1	1.0	-1	0.333	0	2.332	0	7.002	1	1650	45	0.5
47748.2	10000	41.4586	92.3665	-471	QK	2.1	-1	6.9	0	1.0	-1	0.307	-1	2.144	0	6.975	1	1695	35	0.5
47748.1	10000	41.4586	92.3657	-475	QK	2.2	-1	7.1	0	1.0	-1	0.309	-1	2.233	0	7.230	1	1728	42	0.5
47748.0	10000	41.4586	92.3649	-481	QK	2.4	0	7.0	0	1.0	-1	0.344	0	2.357	0	6.849	1	1758	32	0.5
47747.9	10000	41.4586	92.3641	-485	QK	2.4	0	7.3	0	1.0	-1	0.322	0	2.303	0	7.157	1	1760	40	0.5
47747.8	10000	41.4586	92.3633	-490	QK	2.2	-1	7.6	1	1.1	-1	0.283	-1	2.032	0	7.189	1	1758	47	0.5
47747.7	10000	41.4586	92.3625	-495	QK	1.8	-1	7.6	0	1.1	0	0.243	-1	1.679	-1	6.907	1	1756	54	0.5
47747.6	10000	41.4586	92.3616	-500	QK	1.4	-2	7.7	1	1.2	0	0.189	-2	1.227	-2	6.506	0	1768	49	0.5
47747.5	10000	41.4586	92.3608	-504	QK	1.6	-2	7.7	1	1.2	0	0.206	-2	1.364	-2	6.616	0	1752	36	0.5
47747.4	10000	41.4586	92.3600	-509	QK	1.7	-2	7.4	0	1.2	0	0.229	-2	1.423	-2	6.220	0	1745	32	0.5
47747.3	10000	41.4586	92.3592	-514	QK	1.7	-2	7.3	0	1.2	0	0.239	-2	1.497	-2	6.271	0	1739	33	0.5
47747.2	10000	41.4586	92.3584	-519	QK	1.7	-2	7.3	0	1.2	0	0.233	-2	1.397	-2	6.000	-1	1743	43	0.5
47747.1	10000	41.4586	92.3576	-523	QK	1.8	-2	6.8	-1	1.3	1	0.262	-1	1.425	-2	5.429	-2	1735	56	0.5
47747.0	10000	41.4586	92.3567	-528	QK	1.8	-1	6.9	-1	1.2	1	0.262	-1	1.502	-2	5.725	-1	1722	46	0.5
47746.9	10000	41.4586	92.3559	-531	QK	1.9	-1	6.7	-1	1.2	1	0.292	-1	1.682	-1	5.754	-1	1702	36	0.5
47746.8	10000	41.4586	92.3551	-533	QK	1.9	-1	6.6	-1	1.1	0	0.285	-1	1.718	-1	6.027	-1	1695	52	0.5
47746.7	10000	41.4586	92.3543	-536	QK	2.0	-1	7.0	0	1.1	0	0.294	-1	1.876	-1	6.388	0	1692	44	0.5
47746.6	10000	41.4586	92.3535	-544	QK	2.2	-1	7.1	0	1.1	0	0.306	-1	2.018	-1	6.603	0	1681	48	0.5
47746.5	10000	41.4586	92.3527	-550	QK	2.3	0	6.8	-1	1.0	-1	0.342	0	2.286	0	6.677	0	1652	46	0.5
47746.4	10000	41.4586	92.3519	-555	QK	2.5	0	6.9	0	0.9	-2	0.361	0	2.707	1	7.492	1	1644	38	0.5
47746.3	10000	41.4586	92.3511	-560	QK	2.7	0	7.1	0	0.9	-2	0.383	0	2.923	1	7.630	2	1648	37	0.5
47746.2	10000	41.4586	92.3503	-564	QK	2.8	0	7.0	0	1.0	-1	0.398	1	2.847	1	7.152	1	1647	39	0.5
47746.1	10000	41.4586	92.3495	-568	QK	2.8	0	6.9	0	1.0	-1	0.399	1	2.687	1	6.732	0	1645	35	0.5
47746.0	10000	41.4586	92.3487	-571	QK	2.5	0	6.8	-1	1.1	-1	0.368	0	2.368	0	6.430	0	1649	34	0.5
47745.9	10000	41.4586	92.3479	-575	QK	2.3	-1	6.6	-1	1.1	0	0.344	0	2.134	0	6.206	0	1644	42	0.5
47745.8	10000	41.4586	92.3471	-578	QK	2.0	-1	6.4	-1	1.0	-1	0.312	-1	1.958	-1	6.274	0	1643	37	0.5
47745.7	10000	41.4586	92.3463	-582	QK	2.1	-1	6.4	-1	1.1	0	0.324	0	1.929	-1	5.959	-1	1652	46	0.5
47745.6	10000	41.4586	92.3455	-586	QK	2.1	-1	6.2	-1	1.0	-1	0.346	0	2.042	0	5.898	-1	1660	59	0.5
47745.5	10000	41.4586	92.3447	-589	QK	2.2	-1	6.6	-1	1.0	-1	0.342	0	2.294	0	6.706	0	1679	46	0.5
47745.4	10000	41.4585	92.3439	-593	QK	2.1	-1	6.8	-1	1.0	-1	0.315	-1	2.098	0	6.668	0	1708	46	0.5
47745.3	10000	41.4585	92.3431	-597	QK	2.4	0	6.9	-1	1.0	-1	0.344	0	2.364	0	6.878	1	1735	46	0.5
47745.2	10000	41.4585	92.3423	-601	QK	2.4	0	7.0	0	1.0	-1	0.344	0	2.380	0	6.917	1	1746	40	0.5
47745.1	10000	41.4585	92.3415	-606	QK	2.3	0	7.4	0	1.1	0	0.315	-1	2.028	-1	6.442	0	1784	41	0.5
47745.0	10000	41.4585	92.3407	-610	QK	2.1	-1	7.9	1	1.2	1	0.267	-1	1.729	-1	6.474	0	1808	38	0.5
47744.9	10000	41.4585	92.3399	-615	QK	1.8	-2	8.2	1	1.3	1	0.217	-2	1.416	-2	6.515	0	1827	36	0.6
47744.8	10000	41.4585	92.3391	-621	QK	1.8	-2	8.4	2	1.3	2	0.210	-2	1.356	-2	6.442	0	1848	44	0.6
47744.7	10000	41.4585	92.3383	-626	QK	1.7	-2	8.1	1	1.3	1	0.213	-2	1.351	-2	6.332	0	1840	45	0.6
47744.6	10000	41.4585	92.3375	-632	QK	1.8	-2	7.9	1	1.3	1	0.224	-2	1.402	-2	6.269	0	1816	47	0.6
47744.5	10000	41.4585	92.3367	-638	QK	1.7	-2	8.2	1	1.3	1	0.207	-2	1.335	-2	6.460	0	1828	46	0.6
47744.4	10000	41.4585	92.3359	-643	QK	1.9	-1	7.9	1	1.2	1	0.246	-1	1.618	-1	6.570	0	1824	49	0.6
47744.3	10000	41.4585	92.3351	-649	QK	2.0	-1	7.4	0	1.1	0	0.276	-1	1.846	-1	6.699	0	1809	31	0.6
47744.2	10000	41.4585	92.3343	-654	QK	2.3	0	6.8	-1	1.1	-1	0.334	0	2.176	0	6.508	0	1795	39	0.6
47744.1	10000	41.4584	92.3335	-659	QK	2.4	0	6.5	-1	1.0	-1	0.374	0	2.352	0	6.286	0	1779	46	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47744.0	10000	41.4584	92.3327	-666	QK	2.6	0	6.9	0	1.0	-1	0.374	0	2.473	0	6.618	0	1777	54	0.6
47743.9	10000	41.4584	92.3319	-672	QK	2.4	0	7.1	0	1.1	-1	0.334	0	2.252	0	6.745	0	1781	35	0.6
47743.8	10000	41.4584	92.3311	-677	QK	2.6	0	6.8	-1	1.0	-1	0.376	0	2.458	0	6.529	0	1781	43	0.6
47743.7	10000	41.4584	92.3303	-683	QK	2.4	0	7.1	0	1.0	-1	0.342	0	2.312	0	6.752	0	1779	50	0.6
47743.6	10000	41.4584	92.3295	-688	QK	2.4	0	7.1	0	1.1	0	0.344	0	2.267	0	6.645	0	1770	38	0.6
47743.5	10000	41.4584	92.3287	-692	QK	2.2	-1	7.4	0	1.1	0	0.293	-1	1.988	-1	6.786	0	1775	43	0.6
47743.4	10000	41.4584	92.3279	-697	QK	2.0	-1	7.5	0	1.1	0	0.273	-1	1.874	-1	6.862	1	1763	36	0.6
47743.3	10000	41.4584	92.3271	-702	QK	2.3	0	7.0	0	1.1	0	0.329	0	2.055	0	6.250	0	1768	49	0.6
47743.2	10000	41.4584	92.3263	-707	QK	2.3	0	6.7	-1	1.1	0	0.338	0	2.102	0	6.213	0	1760	35	0.6
47743.1	10000	41.4584	92.3255	-712	QK	2.5	0	6.8	-1	1.1	0	0.362	0	2.286	0	6.309	0	1740	43	0.6
47743.0	10000	41.4583	92.3248	-718	QK	2.6	0	6.7	-1	1.1	0	0.385	0	2.347	0	6.089	-1	1735	39	0.6
47742.9	10000	41.4583	92.3239	-724	QK	2.4	0	7.0	0	1.1	0	0.349	0	2.231	0	6.398	0	1733	38	0.6
47742.8	10000	41.4583	92.3232	-730	QK	2.6	0	6.7	-1	1.1	0	0.389	1	2.359	0	6.062	-1	1725	42	0.6
47742.7	10000	41.4583	92.3224	-736	QK	2.7	0	6.2	-1	1.1	0	0.432	1	2.523	1	5.840	-1	1726	36	0.6
47742.6	10000	41.4583	92.3215	-742	QK	2.6	0	6.2	-1	1.0	-1	0.417	1	2.559	1	6.139	0	1719	35	0.6
47742.5	10000	41.4583	92.3208	-748	QK	2.7	0	6.3	-1	1.0	-1	0.427	1	2.776	1	6.504	0	1718	38	0.7
47742.4	10000	41.4583	92.3200	-754	QK	2.4	0	6.3	-1	1.0	-1	0.377	0	2.407	0	6.386	0	1722	45	0.7
47742.3	10000	41.4583	92.3192	-760	QK	2.4	0	6.3	-1	0.9	-1	0.380	0	2.534	0	6.663	0	1729	44	0.7
47742.2	10000	41.4583	92.3184	-767	QK	2.6	0	6.2	-1	1.0	-1	0.419	1	2.699	1	6.442	0	1758	36	0.7
47742.1	10000	41.4583	92.3176	-773	QK	2.6	0	6.7	-1	0.9	-2	0.393	1	2.817	1	7.163	1	1782	43	0.7
47742.0	10000	41.4583	92.3168	-780	QK	2.6	0	6.9	0	1.0	-1	0.371	0	2.657	1	7.161	1	1803	55	0.7
47741.9	10000	41.4583	92.3160	-786	QK	2.5	0	7.5	0	1.0	-1	0.330	0	2.594	1	7.855	2	1807	41	0.7
47741.8	10000	41.4583	92.3152	-791	QK	2.5	0	7.4	0	1.0	-1	0.338	0	2.609	1	7.716	2	1804	49	0.7
47741.7	10000	41.4582	92.3144	-797	QK	2.5	0	7.1	0	0.9	-2	0.351	0	2.640	1	7.524	1	1774	34	0.7
47741.6	10000	41.4582	92.3136	-802	QK	2.2	-1	6.7	-1	1.0	-1	0.329	0	2.263	1	6.876	1	1735	52	0.7
47741.5	10000	41.4582	92.3128	-806	QK	2.1	-1	6.4	-1	1.0	-1	0.326	0	2.176	0	6.679	1	1691	41	0.7
47741.4	10000	41.4582	92.3120	-811	QK	2.0	-1	5.9	-2	1.0	-1	0.333	0	2.068	0	6.214	0	1645	37	0.7
47741.3	10000	41.4582	92.3112	-816	QK	1.7	-2	6.3	-1	0.9	-1	0.280	-1	1.845	-1	6.602	0	1606	40	0.7
47741.2	10000	41.4582	92.3104	-820	QK	1.6	-2	6.0	-2	1.0	-1	0.266	-1	1.671	-1	6.281	0	1578	46	0.7
47741.1	10000	41.4582	92.3096	-824	QK	1.6	-2	6.2	-1	1.0	-1	0.250	-1	1.532	-2	6.125	-1	1574	40	0.7
47741.0	10000	41.4582	92.3088	-827	QK	1.7	-2	6.4	-1	1.0	-1	0.258	-1	1.583	-1	6.139	0	1613	41	0.7
47740.9	10000	41.4582	92.3080	-830	QK	1.9	-1	6.6	-1	1.0	-1	0.282	-1	1.821	-1	6.464	0	1664	35	0.7
47740.8	10000	41.4582	92.3072	-832	QK	2.0	-1	7.1	0	1.0	-1	0.279	-1	1.935	-1	6.924	1	1706	41	0.7
47740.7	10000	41.4582	92.3064	-834	QK	2.3	0	6.9	0	1.0	-1	0.339	0	2.298	0	6.785	0	1743	41	0.7
47740.6	10000	41.4581	92.3056	-836	QK	2.4	0	7.2	0	1.1	-1	0.337	0	2.287	0	6.783	0	1780	41	0.7
47740.5	10000	41.4581	92.3048	-837	QK	2.4	0	7.3	0	1.1	0	0.328	0	2.224	0	6.777	0	1809	51	0.7
47740.4	10000	41.4581	92.3040	-839	QK	2.6	0	7.1	0	1.1	0	0.363	0	2.402	0	6.616	0	1825	50	0.7
47740.3	10000	41.4581	92.3032	-840	QK	2.6	0	7.0	0	1.1	-1	0.377	0	2.489	0	6.602	0	1819	41	0.7
47740.2	10000	41.4581	92.3024	-842	QK	2.4	0	7.1	0	1.1	0	0.338	0	2.270	0	6.711	0	1803	32	0.7
47740.1	10000	41.4581	92.3016	-843	QK	2.2	-1	6.8	-1	1.1	0	0.320	0	1.983	-1	6.188	0	1800	31	0.7
47740.0	10000	41.4581	92.3008	-844	QK	1.9	-1	7.4	0	1.1	0	0.254	-1	1.692	-1	6.669	0	1797	39	0.7
47739.9	10000	41.4581	92.3000	-846	QK	2.0	-1	7.1	0	1.1	0	0.276	-1	1.816	-1	6.582	0	1801	39	0.7
47739.8	10000	41.4581	92.2992	-847	QK	2.0	-1	7.0	0	1.1	0	0.284	-1	1.816	-1	6.386	0	1816	43	0.7
47739.7	10000	41.4581	92.2984	-848	QK	1.8	-1	7.2	0	1.1	0	0.256	-1	1.677	-1	6.543	0	1818	45	0.7
47739.6	10000	41.4581	92.2976	-851	QK	1.8	-1	7.6	1	1.1	0	0.240	-2	1.693	-1	7.051	1	1830	42	0.7
47739.5	10000	41.4581	92.2968	-851	QK	2.2	-1	7.9	1	1.1	0	0.282	-1	2.065	-1	7.328	1	1845	42	0.7
47739.4	10000	41.4580	92.2960	-852	QK	2.3	0	8.0	1	1.0	-1	0.290	-1	2.267	0	7.827	2	1847	53	0.7
47739.3	10000	41.4580	92.2952	-853	QK	2.4	0	8.1	1	1.1	0	0.291	-1	2.258	0	7.766	2	1865	33	0.7
47739.2	10000	41.4580	92.2944	-855	QK	2.3	0	8.1	1	1.1	0	0.283	-1	2.068	0	7.298	1	1867	41	0.7
47739.1	10000	41.4580	92.2936	-857	QK	2.5	0	8.1	1	1.1	0	0.308	-1	2.288	0	7.429	1	1869	36	0.7
47739.0	10000	41.4580	92.2928	-858	QK	2.3	0	8.3	2	1.1	0	0.274	-1	2.075	0	7.582	2	1887	45	0.7
47738.9	10000	41.4580	92.2920	-860	QK	2.1	-1	8.3	2	1.1	0	0.255	-1	1.891	-1	7.425	2	1878	39	0.7

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47738.8	10000	41.4580	92.2912	-861	QK	1.7	-2	8.1	1	1.2	0	0.215	-2	1.514	-2	7.039	1	1868	49	0.8
47738.7	10000	41.4580	92.2904	-862	QK	1.7	-2	8.1	1	1.2	1	0.214	-2	1.431	-2	6.696	0	1860	46	0.8
47738.6	10000	41.4580	92.2896	-863	QK	1.6	-2	7.6	0	1.3	1	0.217	-2	1.287	-2	5.933	-1	1849	45	0.8
47738.5	10000	41.4580	92.2888	-865	QK	1.7	-2	7.8	1	1.2	1	0.220	-2	1.421	-2	6.454	0	1839	37	0.7
47738.4	10000	41.4580	92.2880	-866	QK	1.7	-2	7.6	1	1.2	1	0.224	-2	1.404	-2	6.266	0	1825	48	0.7
47738.3	10000	41.4579	92.2872	-867	QK	1.7	-2	7.7	1	1.2	1	0.221	-2	1.358	-2	6.136	0	1806	52	0.7
47738.2	10000	41.4579	92.2865	-868	QK	1.6	-2	7.3	0	1.2	1	0.218	-2	1.291	-2	5.915	-1	1815	44	0.7
47738.1	10000	41.4579	92.2856	-870	QK	1.9	-1	7.2	0	1.2	1	0.262	-1	1.512	-2	5.774	-1	1817	45	0.7
47738.0	10000	41.4579	92.2849	-871	QK	1.8	-2	7.1	0	1.3	1	0.252	-1	1.415	-2	5.613	-1	1811	46	0.7
47737.9	10000	41.4579	92.2841	-872	QK	1.7	-2	7.4	0	1.2	1	0.234	-2	1.454	-2	6.200	0	1799	48	0.7
47737.8	10000	41.4579	92.2833	-873	QK	1.7	-2	7.1	0	1.2	1	0.234	-2	1.351	-2	5.780	-1	1790	55	0.7
47737.7	10000	41.4579	92.2825	-874	QK	1.4	-2	7.3	0	1.3	1	0.197	-2	1.147	-2	5.812	-1	1786	33	0.7
47737.6	10000	41.4579	92.2817	-875	QK	1.7	-2	7.2	0	1.2	1	0.239	-2	1.398	-2	5.850	-1	1778	39	0.7
47737.5	10000	41.4579	92.2809	-876	QK	1.8	-2	7.4	0	1.3	1	0.241	-2	1.392	-2	5.781	-1	1768	41	0.7
47737.4	10000	41.4579	92.2801	-877	QK	1.7	-2	7.6	0	1.3	1	0.219	-2	1.325	-2	6.048	-1	1765	44	0.7
47737.3	10000	41.4579	92.2793	-879	QK	2.0	-1	7.8	1	1.1	0	0.251	-1	1.717	-1	6.849	1	1754	38	0.7
47737.2	10000	41.4578	92.2785	-879	QK	1.9	-1	7.5	0	1.1	0	0.257	-1	1.735	-1	6.763	0	1747	51	0.7
47737.1	10000	41.4578	92.2777	-880	QK	1.9	-1	7.8	1	1.0	-1	0.247	-1	1.829	-1	7.415	1	1736	44	0.7
47737.0	10000	41.4578	92.2769	-881	QK	1.9	-1	7.6	1	1.0	-1	0.255	-1	1.860	-1	7.281	1	1729	47	0.7
47736.9	10000	41.4578	92.2761	-883	QK	2.1	-1	7.6	0	1.1	0	0.277	-1	1.977	-1	7.128	1	1735	44	0.7
47736.8	10000	41.4578	92.2753	-884	QK	2.2	-1	7.9	1	1.0	-1	0.274	-1	2.116	0	7.715	2	1740	37	0.7
47736.7	10000	41.4578	92.2745	-885	QK	2.0	-1	8.1	1	1.0	-1	0.248	-1	1.982	-1	7.990	2	1733	42	0.7
47736.6	10000	41.4578	92.2737	-885	QK	1.9	-1	7.8	1	1.1	0	0.245	-1	1.764	-1	7.211	1	1743	40	0.7
47736.5	10000	41.4578	92.2729	-885	QK	2.2	-1	8.1	1	1.1	0	0.268	-1	1.940	-1	7.242	1	1743	39	0.7
47736.4	10000	41.4578	92.2721	-885	QK	2.2	-1	7.5	0	1.1	0	0.289	-1	1.894	-1	6.560	0	1747	44	0.7
47736.3	10000	41.4578	92.2713	-885	QK	2.2	-1	7.7	1	1.2	0	0.291	-1	1.918	-1	6.592	0	1757	44	0.7
47736.2	10000	41.4578	92.2705	-885	QK	2.0	-1	7.7	1	1.1	0	0.260	-1	1.732	-1	6.666	0	1756	43	0.7
47736.1	10000	41.4578	92.2697	-885	QK	1.9	-1	7.5	0	1.2	0	0.254	-1	1.618	-1	6.379	0	1764	39	0.7
47736.0	10000	41.4577	92.2689	-884	QK	2.0	-1	7.2	0	1.2	1	0.280	-1	1.694	-1	6.049	-1	1764	39	0.7
47735.9	10000	41.4577	92.2681	-884	QK	2.0	-1	7.3	0	1.2	1	0.267	-1	1.616	-1	6.055	-1	1758	50	0.7
47735.8	10000	41.4577	92.2673	-883	QK	1.9	-1	7.1	0	1.2	1	0.265	-1	1.574	-1	5.946	-1	1771	34	0.7
47735.7	10000	41.4577	92.2665	-882	QK	1.9	-1	7.5	0	1.2	1	0.259	-1	1.580	-1	6.097	-1	1773	38	0.6
47735.6	10000	41.4577	92.2657	-881	QK	1.8	-1	7.7	1	1.2	1	0.237	-2	1.528	-2	6.456	0	1772	50	0.6
47735.5	10000	41.4577	92.2649	-880	QK	1.8	-1	7.5	0	1.2	1	0.240	-2	1.503	-2	6.274	0	1778	56	0.6
47735.4	10000	41.4577	92.2641	-878	QK	1.9	-1	7.4	0	1.2	1	0.251	-1	1.578	-1	6.280	0	1780	32	0.6
47735.3	10000	41.4577	92.2633	-877	QK	2.0	-1	7.4	0	1.2	1	0.268	-1	1.663	-1	6.210	0	1789	44	0.6
47735.2	10000	41.4577	92.2625	-875	QK	2.0	-1	7.2	0	1.2	1	0.274	-1	1.702	-1	6.203	0	1798	47	0.6
47735.1	10000	41.4577	92.2617	-873	QK	2.0	-1	7.4	0	1.2	1	0.267	-1	1.637	-1	6.133	0	1797	35	0.6
47735.0	10000	41.4577	92.2609	-872	QK	2.1	-1	7.3	0	1.2	1	0.286	-1	1.739	-1	6.079	-1	1797	54	0.6
47734.9	10000	41.4576	92.2601	-870	QK	2.2	-1	7.0	0	1.3	1	0.319	-1	1.821	-1	5.717	-1	1800	47	0.6
47734.8	10000	41.4576	92.2593	-867	QK	2.3	-1	7.0	0	1.3	1	0.324	-1	1.800	-1	5.562	-1	1798	45	0.6
47734.7	10000	41.4576	92.2585	-865	QK	2.2	-1	6.9	0	1.2	1	0.326	-1	1.806	-1	5.537	-1	1786	37	0.6
47734.6	10000	41.4576	92.2577	-863	QK	2.3	-1	7.1	0	1.2	1	0.329	-1	1.923	-1	5.851	-1	1794	45	0.6
47734.5	10000	41.4576	92.2569	-860	QK	2.5	-1	7.0	0	1.3	1	0.351	-1	2.013	-1	5.728	-1	1815	46	0.6
47734.4	10000	41.4576	92.2561	-857	QK	2.7	-1	6.8	0	1.2	1	0.397	-1	2.244	0	5.647	-1	1828	40	0.6
47734.3	10000	41.4576	92.2553	-855	QK	2.8	-1	6.9	-1	1.2	1	0.410	-1	2.376	0	5.791	-1	1844	48	0.6
47734.2	10000	41.4576	92.2545	-852	QK	2.9	-1	6.9	-1	1.2	1	0.417	-1	2.390	0	5.732	-1	1836	43	0.6
47734.1	10000	41.4576	92.2537	-850	QK	3.1	-1	6.9	0	1.1	1	0.454	-1	2.757	1	6.077	-1	1843	49	0.6
47734.0	10000	41.4576	92.2529	-847	QK	3.1	-1	7.0	0	1.2	1	0.437	-1	2.603	1	5.953	-1	1850	32	0.5
47733.9	10000	41.4576	92.2521	-844	QK	2.8	-1	6.6	-1	1.2	1	0.424	-1	2.354	0	5.554	-1	1832	41	0.5
47733.8	10000	41.4576	92.2513	-842	QK	2.6	-1	7.2	0	1.2	1	0.354	-1	2.208	0	6.239	0	1809	36	0.5
47733.7	10000	41.4575	92.2505	-839	QK	2.4	0	7.5	0	1.2	0	0.322	0	2.087	0	6.490	0	1799	44	0.5

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47733.6	10000	41.4575	92.2497	-835	QK	2.1	-1	7.6	0	1.1	0	0.279	-1	1.836	-1	6.591	0	1789	56	0.5
47733.5	10000	41.4575	92.2489	-833	QK	2.2	-1	7.4	0	1.1	0	0.300	-1	2.006	-1	6.691	0	1784	46	0.5
47733.4	10000	41.4575	92.2482	-830	QK	1.9	-1	7.5	0	1.1	0	0.258	-1	1.730	-1	6.694	0	1767	36	0.5
47733.3	10000	41.4575	92.2474	-827	QK	2.1	-1	7.4	0	1.1	0	0.279	-1	1.907	-1	6.834	0	1753	48	0.5
47733.2	10000	41.4575	92.2466	-824	QK	2.1	-1	7.2	0	1.1	0	0.293	-1	1.923	-1	6.556	0	1732	41	0.5
47733.1	10000	41.4575	92.2458	-821	QK	2.3	-1	6.5	-1	1.1	0	0.348	0	2.048	0	5.888	-1	1701	34	0.5
47733.0	10000	41.4575	92.2450	-818	QK	2.0	-1	6.1	-2	1.1	0	0.331	0	1.828	-1	5.520	-1	1665	44	0.5
47732.9	10000	41.4575	92.2442	-816	QK	2.4	0	5.7	-2	1.1	0	0.412	1	2.176	0	5.287	-2	1650	43	0.5
47732.8	10000	41.4575	92.2434	-813	QK	2.0	-1	5.7	-2	1.1	0	0.352	0	1.776	-1	5.048	-2	1654	47	0.5
47732.7	10000	41.4575	92.2426	-811	QK	2.0	-1	5.5	-2	1.1	0	0.372	0	1.775	-1	4.773	-2	1654	37	0.5
47732.6	10000	41.4574	92.2418	-808	QK	2.2	-1	5.5	-2	1.2	1	0.395	1	1.836	-1	4.647	-3	1649	37	0.5
47732.5	10000	41.4574	92.2410	-806	QK	2.3	0	6.2	-1	1.2	1	0.372	0	1.929	-1	5.185	-2	1665	39	0.5
47732.4	10000	41.4574	92.2402	-804	QK	2.2	-1	6.3	-1	1.2	0	0.344	0	1.876	-1	5.458	-1	1682	35	0.5
47732.3	10000	41.4574	92.2394	-802	QK	2.4	0	6.4	-1	1.1	0	0.369	0	2.087	0	5.652	-1	1693	44	0.5
47732.2	10000	41.4574	92.2386	-799	QK	2.0	-1	6.4	-1	1.1	0	0.309	-1	1.736	-1	5.614	-1	1678	49	0.5
47732.1	10000	41.4574	92.2378	-795	QK	2.3	0	6.3	-1	1.1	0	0.366	0	2.087	0	5.701	-1	1663	51	0.5
47732.0	10000	41.4574	92.2370	-790	QK	2.3	0	6.3	-1	1.1	0	0.367	0	2.163	0	5.899	-1	1649	53	0.5
47731.9	10000	41.4574	92.2362	-788	QK	2.4	0	6.1	-1	1.0	-1	0.398	1	2.439	0	6.128	-1	1653	47	0.5
47731.8	10000	41.4574	92.2354	-787	QK	2.6	0	5.7	-2	1.0	-1	0.451	1	2.663	1	5.901	-1	1659	31	0.5
47731.7	10000	41.4574	92.2346	-785	QK	2.5	0	6.1	-1	1.0	-1	0.411	1	2.419	0	5.882	-1	1687	37	0.5
47731.6	10000	41.4574	92.2339	-782	QK	2.6	0	6.2	-1	1.1	-1	0.414	1	2.435	0	5.876	-1	1698	46	0.5
47731.5	10000	41.4574	92.2331	-778	QK	2.5	0	6.7	-1	1.0	-1	0.378	0	2.431	0	6.429	0	1718	42	0.5
47731.4	10000	41.4574	92.2323	-774	QK	2.4	0	7.0	0	1.1	0	0.339	0	2.145	0	6.330	0	1749	38	0.5
47731.3	10000	41.4574	92.2315	-771	QK	2.2	-1	7.1	0	1.1	0	0.312	-1	1.936	-1	6.208	0	1769	42	0.5
47731.2	10000	41.4574	92.2308	-768	QK	2.1	-1	7.3	0	1.2	1	0.296	-1	1.777	-1	6.008	-1	1767	40	0.5
47731.1	10000	41.4574	92.2300	-765	QK	1.9	-1	7.4	0	1.2	1	0.254	-1	1.595	-1	6.288	0	1761	35	0.5
47731.0	10000	41.4574	92.2292	-761	QK	2.2	-1	7.2	0	1.1	0	0.304	-1	1.913	-1	6.293	0	1737	36	0.5
47730.9	10000	41.4574	92.2284	-758	QK	2.1	-1	7.0	0	1.2	1	0.294	-1	1.757	-1	5.981	-1	1717	50	0.5
47730.8	10000	41.4574	92.2277	-755	QK	2.2	-1	6.7	-1	1.2	0	0.323	0	1.798	-1	5.571	-1	1703	52	0.5
47730.7	10000	41.4573	92.2269	-752	QK	2.2	-1	6.4	-1	1.1	0	0.352	0	2.015	-1	5.727	-1	1663	28	0.5
47730.6	10000	41.4573	92.2261	-749	QK	2.4	0	6.5	-1	1.1	0	0.373	0	2.229	0	5.985	-1	1666	47	0.5
47730.5	10000	41.4573	92.2253	-746	QK	2.3	0	6.1	-2	1.0	-1	0.375	0	2.176	0	5.801	-1	1671	41	0.5
47730.4	10000	41.4573	92.2246	-742	QK	2.4	0	6.1	-2	1.1	0	0.402	1	2.293	0	5.704	-1	1675	36	0.5
47730.3	10000	41.4573	92.2238	-739	QK	2.2	-1	6.0	-2	1.0	-1	0.362	0	2.078	0	5.743	-1	1675	44	0.5
47730.2	10000	41.4573	92.2230	-735	QK	2.4	0	6.2	-1	1.0	-1	0.391	1	2.329	0	5.960	-1	1704	45	0.5
47730.1	10000	41.4573	92.2222	-732	QK	2.5	0	6.1	-2	1.0	-1	0.410	1	2.509	1	6.123	-1	1731	30	0.5
47730.0	10000	41.4573	92.2215	-728	QK	2.7	0	6.5	-1	1.0	-1	0.415	1	2.669	1	6.428	0	1761	37	0.5
47729.9	10000	41.4573	92.2207	-724	QK	2.4	0	6.1	-2	1.0	-1	0.398	1	2.312	0	5.813	-1	1761	44	0.5
47729.8	10000	41.4573	92.2199	-720	QK	2.5	0	6.3	-1	1.0	-1	0.388	1	2.402	1	6.189	0	1765	46	0.5
47729.7	10000	41.4573	92.2191	-716	QK	2.4	0	6.3	-1	1.0	-1	0.381	0	2.335	0	6.123	-1	1757	40	0.5
47729.6	10000	41.4573	92.2184	-713	QK	2.6	0	6.6	-1	1.1	0	0.389	1	2.363	1	6.074	-1	1770	34	0.5
47729.5	10000	41.4573	92.2176	-709	QK	2.4	0	6.8	-1	1.0	-1	0.356	0	2.322	0	6.531	0	1746	39	0.5
47729.4	10000	41.4573	92.2168	-703	QK	2.3	0	6.6	-1	1.1	-1	0.354	0	2.224	0	6.288	0	1732	46	0.5
47729.3	10000	41.4573	92.2160	-698	QK	2.1	-1	6.5	-1	1.1	0	0.320	-1	1.949	-1	6.101	-1	1715	43	0.5
47729.2	10000	41.4573	92.2153	-694	QK	2.4	0	6.7	-1	1.1	0	0.360	1	2.293	0	6.368	0	1697	50	0.5
47729.1	10000	41.4573	92.2145	-691	QK	2.5	0	6.9	-1	1.1	0	0.358	1	2.296	0	6.420	0	1684	37	0.5
47729.0	10000	41.4573	92.2137	-689	QK	2.6	0	6.6	-1	1.1	0	0.391	1	2.400	0	6.135	0	1681	41	0.5
47728.9	10000	41.4573	92.2129	-686	QK	2.6	0	6.0	-2	1.0	-1	0.426	1	2.534	1	5.953	-1	1666	41	0.5
47728.8	10000	41.4573	92.2122	-682	QK	2.4	0	5.7	-2	1.0	-1	0.419	1	2.392	0	5.703	-1	1650	42	0.5
47728.7	10000	41.4573	92.2114	-679	QK	2.4	0	5.7	-2	1.0	-1	0.429	1	2.524	1	5.884	-1	1639	39	0.5
47728.6	10000	41.4573	92.2106	-675	QK	2.6	0	5.5	-2	0.9	-2	0.470	2	2.826	1	6.019	-1	1618	45	0.5
47728.5	10000	41.4573	92.2098	-672	QK	2.4	0	5.4	-2	0.9	-2	0.453	1	2.864	1	6.323	0	1592	45	0.5

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47728.4	10000	41.4573	92.2091	-668	QK	2.4	0	5.1	-3	0.8	-2	0.483	2	2.875	1	5.955	-1	1568	41	0.5
47728.3	10000	41.4573	92.2083	-664	QK	2.1	-1	5.3	-3	0.9	-2	0.390	1	2.384	0	6.110	-1	1548	32	0.5
47728.2	10000	41.4573	92.2075	-660	QK	1.9	-1	5.6	-2	0.9	-2	0.347	0	2.095	0	6.045	-1	1550	23	0.5
47728.1	10000	41.4573	92.2067	-657	QK	2.2	-1	5.6	-2	1.0	-1	0.400	1	2.221	0	5.554	-1	1584	33	0.5
47728.0	10000	41.4573	92.2060	-653	QK	2.1	-1	5.7	-2	1.0	-1	0.374	0	2.131	0	5.702	-1	1599	41	0.5
47727.9	10000	41.4573	92.2052	-648	QK	2.2	-1	6.2	-1	1.1	0	0.348	0	2.013	-1	5.789	-1	1638	46	0.5
47727.8	10000	41.4573	92.2044	-645	QK	2.1	-1	6.2	-1	1.1	0	0.332	0	1.833	-1	5.528	-1	1659	36	0.5
47727.7	10000	41.4573	92.2036	-645	QK	1.9	-1	6.4	-1	1.1	0	0.290	-1	1.629	-1	5.617	-1	1684	45	0.5
47727.6	10000	41.4573	92.2029	-641	QK	2.0	-1	6.6	-1	1.2	0	0.305	-1	1.745	-1	5.722	-1	1711	48	0.5
47727.5	10000	41.4573	92.2021	-631	QK	2.1	-1	6.5	-1	1.1	0	0.317	0	1.829	-1	5.760	-1	1710	42	0.5
47727.4	10000	41.4573	92.2013	-616	QK	1.9	-1	6.7	-1	1.1	0	0.290	-1	1.740	-1	5.994	-1	1701	41	0.5
47727.3	10000	41.4573	92.2005	-624	QK	1.8	-1	6.7	-1	1.1	0	0.269	-1	1.628	-1	6.047	-1	1688	38	0.5
47727.2	10000	41.4573	92.1998	-631	QK	1.7	-2	6.6	-1	1.1	0	0.258	-1	1.501	-2	5.808	-1	1677	53	0.6
47727.1	10000	41.4573	92.1990	-629	QK	1.8	-1	6.6	-1	1.1	0	0.278	-1	1.617	-1	5.825	-1	1693	42	0.6
47727.0	10000	41.4573	92.1982	-624	QK	1.9	-1	6.7	-1	1.2	0	0.289	-1	1.661	-1	5.741	-1	1701	59	0.6
47726.9	10000	41.4572	92.1974	-618	QK	2.0	-1	6.8	-1	1.1	0	0.294	-1	1.776	-1	6.046	-1	1703	39	0.6
47726.8	10000	41.4573	92.1967	-617	QK	2.0	-1	7.0	0	1.1	0	0.281	-1	1.716	-1	6.108	-1	1712	44	0.6
47726.7	10000	41.4572	92.1959	-618	QK	1.9	-1	7.1	0	1.1	0	0.261	-1	1.627	-1	6.226	0	1708	34	0.6
47726.6	10000	41.4572	92.1951	-616	QK	2.1	-1	7.0	0	1.2	1	0.293	-1	1.718	-1	5.871	-1	1718	50	0.6
47726.5	10000	41.4572	92.1944	-614	QK	2.1	-1	6.8	-1	1.2	0	0.307	-1	1.774	-1	5.770	-1	1695	40	0.6
47726.4	10000	41.4572	92.1936	-611	QK	1.9	-1	6.8	-1	1.2	0	0.277	-1	1.590	-1	5.732	-1	1679	40	0.6
47726.3	10000	41.4572	92.1928	-607	QK	1.7	-2	6.7	-1	1.2	0	0.258	-1	1.490	-2	5.782	-1	1663	45	0.6
47726.2	10000	41.4572	92.1920	-604	QK	1.7	-2	6.1	-1	1.2	1	0.270	-1	1.394	-2	5.162	-2	1656	40	0.6
47726.1	10000	41.4572	92.1913	-599	QK	1.7	-2	6.1	-2	1.2	0	0.275	-1	1.424	-2	5.179	-2	1635	34	0.6
47726.0	10000	41.4572	92.1905	-596	QK	1.6	-2	6.2	-1	1.2	0	0.252	-1	1.342	-2	5.323	-2	1621	44	0.6
47725.9	10000	41.4572	92.1897	-595	QK	1.3	-3	6.4	-1	1.2	0	0.196	-2	1.061	-3	5.423	-2	1606	38	0.6
47725.8	10000	41.4572	92.1889	-594	QK	1.2	-3	6.3	-1	1.2	0	0.193	-2	1.055	-3	5.460	-1	1600	47	0.6
47725.7	10000	41.4572	92.1882	-591	QK	1.2	-3	6.3	-1	1.2	0	0.188	-2	1.065	-3	5.673	-1	1563	44	0.6
47725.6	10000	41.4572	92.1874	-589	QK	1.2	-3	6.3	-2	1.1	0	0.191	-2	1.034	-3	5.399	-2	1540	47	0.6
47725.5	10000	41.4572	92.1866	-587	QK	1.1	-3	6.1	-1	1.1	0	0.179	-2	1.036	-3	5.783	-1	1500	43	0.6
47725.4	10000	41.4572	92.1858	-584	QK	1.0	-3	5.9	-2	1.0	-1	0.165	-3	0.929	-3	5.645	-1	1478	48	0.6
47725.3	10000	41.4572	92.1851	-581	QK	1.3	-2	5.7	-2	1.0	-1	0.222	-2	1.220	-2	5.506	-1	1463	48	0.6
47725.2	10000	41.4572	92.1843	-577	QK	1.5	-2	5.2	-3	0.9	-2	0.286	-1	1.610	-1	5.630	-1	1433	46	0.6
47725.1	10000	41.4572	92.1835	-573	QK	1.4	-2	4.9	-3	0.9	-1	0.292	-1	1.526	-2	5.218	-2	1418	34	0.6
47725.0	10000	41.4572	92.1827	-571	QK	1.7	-2	5.0	-3	1.0	-1	0.359	0	1.685	-1	4.691	-3	1426	39	0.6
47724.9	10000	41.4572	92.1819	-570	QK	1.8	-2	5.0	-3	1.0	-1	0.358	0	1.840	-1	5.147	-2	1429	58	0.6
47724.8	10000	41.4572	92.1812	-569	QK	1.8	-1	5.0	-3	1.0	-1	0.371	0	1.790	-1	4.827	-2	1446	36	0.6
47724.7	10000	41.4572	92.1804	-567	QK	1.9	-1	5.0	-3	1.1	-1	0.388	1	1.792	-1	4.617	-3	1459	57	0.6
47724.6	10000	41.4572	92.1796	-566	QK	1.9	-1	5.0	-3	1.1	-1	0.394	1	1.792	-1	4.545	-3	1450	45	0.6
47724.5	10000	41.4572	92.1788	-564	QK	1.7	-2	5.0	-3	1.1	0	0.351	0	1.633	-1	4.656	-3	1450	43	0.6
47724.4	10000	41.4572	92.1781	-562	QK	2.0	-1	5.3	-3	1.1	0	0.383	0	1.979	-1	5.163	-2	1462	45	0.6
47724.3	10000	41.4572	92.1773	-560	QK	1.8	-1	5.2	-3	1.0	0	0.335	0	1.867	-1	5.573	-1	1478	46	0.6
47724.2	10000	41.4572	92.1765	-558	QK	1.8	-2	5.2	-3	1.0	0	0.335	0	1.772	-1	5.283	-2	1475	29	0.6
47724.1	10000	41.4572	92.1758	-556	QK	1.7	-2	5.4	-3	1.0	0	0.318	0	1.784	-1	5.606	-1	1478	47	0.6
47724.0	10000	41.4572	92.1750	-554	QK	1.6	-2	5.5	-2	0.9	-1	0.302	-1	1.822	-1	6.041	-1	1474	43	0.6
47723.9	10000	41.4572	92.1742	-551	QK	1.8	-1	5.7	-2	0.9	0	0.330	0	2.037	-1	6.170	0	1492	34	0.6
47723.8	10000	41.4572	92.1734	-550	QK	1.8	-2	5.7	-2	0.9	0	0.326	0	1.955	-1	5.996	-1	1504	51	0.6
47723.7	10000	41.4572	92.1727	-549	QK	1.4	-2	5.7	-2	0.9	-1	0.253	-1	1.536	-2	6.065	-1	1494	49	0.6
47723.6	10000	41.4572	92.1719	-547	QK	1.5	-2	5.8	-2	1.0	-1	0.251	-1	1.519	-2	6.043	-1	1476	47	0.6
47723.5	10000	41.4572	92.1711	-545	QK	1.7	-2	5.9	-2	0.9	-1	0.263	-1	1.626	-1	6.175	0	1482	50	0.6
47723.4	10000	41.4572	92.1703	-544	QK	1.7	-2	5.8	-2	0.9	-1	0.290	-1	1.799	-1	6.197	0	1471	34	0.6
47723.3	10000	41.4572	92.1696	-542	QK	1.8	-1	5.8	-2	0.9	-2	0.317	0	2.071	0	6.533	0	1457	38	0.6

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47723.2	10000	41.4572	92.1688	-540	QK	1.5	-2	5.9	-2	0.9	-2	0.250	-1	1.689	-1	6.755	0	1455	32	0.7
47723.1	10000	41.4571	92.1680	-539	QK	1.4	-2	5.7	-2	0.9	-2	0.251	-1	1.637	-1	6.518	0	1454	43	0.7
47723.0	10000	41.4571	92.1672	-538	QK	1.5	-2	5.6	-2	0.9	-2	0.273	-1	1.715	-1	6.294	0	1445	38	0.7
47722.9	10000	41.4571	92.1665	-538	QK	1.7	-2	5.4	-3	0.8	-2	0.325	0	2.056	0	6.318	0	1440	37	0.7
47722.8	10000	41.4571	92.1657	-536	QK	1.6	-2	5.1	-3	0.8	-2	0.316	0	1.897	-1	6.010	-1	1409	34	0.7
47722.7	10000	41.4571	92.1649	-536	QK	1.5	-2	4.7	-3	0.8	-3	0.318	0	1.831	-1	5.754	-1	1384	44	0.7
47722.6	10000	41.4571	92.1641	-535	QK	1.4	-2	4.5	-4	0.8	-2	0.303	-1	1.610	-1	5.322	-2	1376	46	0.7
47722.5	10000	41.4571	92.1634	-534	QK	1.6	-2	4.4	-4	0.9	-2	0.355	0	1.790	-1	5.038	-2	1379	45	0.7
47722.4	10000	41.4571	92.1626	-533	QK	1.5	-2	4.6	-4	0.9	-3	0.329	0	1.739	-1	5.287	-2	1370	45	0.7
47722.3	10000	41.4571	92.1618	-532	QK	1.5	-2	4.7	-3	0.9	-2	0.331	0	1.810	-1	5.470	-1	1379	29	0.7
47722.2	10000	41.4571	92.1610	-532	QK	1.3	-3	4.8	-3	0.9	-2	0.265	-1	1.443	-2	5.442	-1	1391	37	0.7
47722.1	10000	41.4571	92.1603	-531	QK	1.3	-3	5.0	-3	0.9	-2	0.263	-1	1.469	-2	5.585	-1	1419	44	0.7
47722.0	10000	41.4571	92.1595	-531	QK	1.2	-3	5.6	-2	0.9	-1	0.222	-2	1.305	-2	5.871	-1	1438	36	0.7
47721.9	10000	41.4571	92.1587	-531	QK	1.4	-2	5.9	-2	1.0	-1	0.233	-2	1.425	-2	6.103	-1	1463	42	0.7
47721.8	10000	41.4571	92.1579	-530	QK	1.3	-2	6.1	-2	1.0	-1	0.222	-2	1.332	-2	6.012	-1	1475	30	0.7
47721.7	10000	41.4571	92.1572	-530	QK	1.6	-2	6.0	-2	1.0	-1	0.258	-1	1.494	-2	5.793	-1	1498	48	0.6
47721.6	10000	41.4571	92.1564	-530	QK	1.8	-2	6.3	-1	1.0	-1	0.283	-1	1.721	-1	6.074	-1	1519	38	0.6
47721.5	10000	41.4571	92.1556	-529	QK	2.1	-1	6.6	-1	1.0	-1	0.315	0	2.013	-1	6.383	0	1550	51	0.6
47721.4	10000	41.4571	92.1548	-530	QK	2.3	0	6.8	-1	1.0	-1	0.344	0	2.244	0	6.530	0	1573	42	0.6
47721.3	10000	41.4571	92.1541	-530	QK	2.3	0	6.4	-1	1.0	-1	0.362	0	2.270	0	6.270	0	1590	36	0.6
47721.2	10000	41.4571	92.1533	-531	QK	2.2	-1	6.2	-1	1.0	-1	0.351	0	2.098	0	5.977	-1	1586	56	0.6
47721.1	10000	41.4571	92.1525	-532	QK	2.1	-1	6.0	-2	1.0	-1	0.345	0	2.075	0	6.022	-1	1574	51	0.6
47721.0	10000	41.4571	92.1517	-533	QK	2.1	-1	6.0	-2	1.0	-1	0.342	0	2.079	0	6.081	-1	1563	36	0.6
47720.9	10000	41.4571	92.1510	-534	QK	1.7	-2	5.5	-2	1.0	-1	0.300	-1	1.583	-1	5.281	-2	1547	35	0.6
47720.8	10000	41.4571	92.1502	-535	QK	1.5	-2	5.4	-3	1.0	-1	0.273	-1	1.414	-2	5.172	-2	1509	51	0.6
47720.7	10000	41.4571	92.1494	-537	QK	1.2	-3	5.5	-2	1.1	-1	0.218	-2	1.104	-2	5.055	-2	1485	44	0.6
47720.6	10000	41.4571	92.1486	-538	QK	1.1	-3	5.5	-2	1.1	-1	0.199	-2	1.009	-3	5.068	-2	1479	41	0.6
47720.5	10000	41.4571	92.1479	-539	QK	0.9	-3	5.6	-2	1.1	-1	0.170	-3	0.865	-3	5.082	-2	1477	44	0.6
47720.4	10000	41.4571	92.1471	-540	QK	0.9	-3	5.7	-2	1.1	-1	0.158	-3	0.793	-3	5.009	-2	1474	41	0.6
49175.6	10000	41.4573	92.1460	-540	QK	1.7	-2	6.0	-2	0.9	-2	0.288	-1	1.906	-1	6.611	0	1420	47	1.6
49175.5	10000	41.4573	92.1452	-542	QK	1.7	-2	6.1	-2	0.9	-2	0.282	-1	1.854	-1	6.576	0	1425	51	1.6
49175.4	10000	41.4573	92.1444	-544	QK	1.8	-2	5.9	-2	0.9	-2	0.295	-1	1.906	-1	6.459	0	1431	42	1.6
49175.3	10000	41.4574	92.1435	-546	QK	1.8	-1	6.0	-2	0.9	-2	0.299	-1	1.962	-1	6.554	0	1449	55	1.6
49175.2	10000	41.4574	92.1427	-548	QK	2.0	-1	6.0	-2	1.0	-2	0.329	0	2.004	-1	6.098	-1	1490	42	1.6
49175.1	10000	41.4574	92.1419	-550	QK	2.1	-1	6.4	-1	1.1	-1	0.321	0	1.942	-1	6.054	-1	1544	36	1.6
49175.0	10000	41.4574	92.1410	-551	QK	2.2	-1	6.6	-1	1.0	-1	0.333	0	2.145	0	6.446	0	1582	47	1.6
49174.9	10000	41.4574	92.1402	-553	QK	2.0	-1	6.8	-1	1.0	-1	0.297	-1	1.930	-1	6.502	0	1606	53	1.6
49174.8	10000	41.4574	92.1394	-555	QK	2.0	-1	6.7	-1	1.0	-1	0.296	-1	1.923	-1	6.501	0	1622	34	1.6
49174.7	10000	41.4574	92.1385	-558	QK	2.0	-1	6.7	-1	1.0	-1	0.298	-1	1.915	-1	6.425	0	1613	47	1.6
49174.6	10000	41.4574	92.1377	-561	QK	1.9	-1	6.5	-1	1.0	-1	0.299	-1	1.893	-1	6.331	0	1584	50	1.6
49174.5	10000	41.4574	92.1368	-563	QK	1.8	-2	6.3	-1	1.0	-1	0.280	-1	1.813	-1	6.472	0	1533	40	1.6
49174.4	10000	41.4574	92.1360	-566	QK	1.8	-1	6.1	-2	0.9	-2	0.303	-1	2.074	0	6.854	0	1478	38	1.6
49174.3	10000	41.4574	92.1352	-569	QK	1.8	-1	5.7	-2	0.9	-2	0.318	0	2.038	0	6.404	0	1442	54	1.5
49174.2	10000	41.4574	92.1343	-572	QK	1.9	-1	5.4	-2	0.8	-2	0.353	0	2.251	0	6.375	0	1402	53	1.5
49174.1	10000	41.4574	92.1335	-574	QK	1.8	-1	5.4	-3	0.8	-2	0.343	0	2.205	0	6.427	0	1390	41	1.5
49174.0	10000	41.4574	92.1327	-577	QK	1.7	-2	5.6	-2	0.8	-2	0.304	-1	2.041	0	6.703	0	1400	55	1.5
49173.9	10000	41.4574	92.1318	-580	QK	1.9	-1	5.9	-2	0.8	-2	0.322	-1	2.246	0	6.974	0	1422	37	1.5
49173.8	10000	41.4574	92.1310	-583	QK	2.0	-1	6.0	-2	0.9	-2	0.348	0	2.397	0	6.884	0	1456	41	1.5
49173.7	10000	41.4574	92.1302	-586	QK	2.0	-1	6.2	-1	0.9	-2	0.339	0	2.193	0	6.472	0	1485	41	1.5
49173.6	10000	41.4574	92.1293	-589	QK	1.9	-1	6.2	-1	0.9	-2	0.309	-1	2.046	0	6.616	0	1501	39	1.5
49173.5	10000	41.4574	92.1285	-592	QK	2.1	-1	6.4	-1	1.0	-2	0.327	0	2.170	0	6.641	0	1534	55	1.5
49173.4	10000	41.4575	92.1277	-596	QK	2.4	0	6.3	-1	1.0	-1	0.375	0	2.422	0	6.451	0	1539	43	1.5

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49173.3	10000	41.4575	92.1268	-600	QK	2.7	0	6.2	-1	1.0	-1	0.434	1	2.718	1	6.260	0	1563	41	1.5
49173.2	10000	41.4575	92.1260	-602	QK	2.5	0	6.0	-2	1.0	-1	0.416	1	2.433	0	5.846	-1	1598	31	1.5
49173.1	10000	41.4575	92.1251	-605	QK	2.5	0	6.0	-2	1.1	0	0.414	1	2.294	0	5.548	-1	1625	55	1.5
49173.0	10000	41.4575	92.1243	-607	QK	2.4	0	6.2	-1	1.1	0	0.394	1	2.143	0	5.442	-1	1675	42	1.5
49172.9	10000	41.4575	92.1235	-609	QK	2.7	0	6.5	-1	1.2	0	0.417	1	2.313	0	5.546	-1	1719	46	1.5
49172.8	10000	41.4575	92.1226	-611	QK	2.8	1	6.8	-1	1.2	1	0.418	1	2.316	0	5.540	-1	1762	46	1.4
49172.7	10000	41.4575	92.1218	-614	QK	2.9	1	7.1	0	1.2	1	0.406	1	2.349	0	5.783	-1	1807	49	1.4
49172.6	10000	41.4575	92.1210	-616	QK	2.8	1	7.1	0	1.2	1	0.398	1	2.276	0	5.714	-1	1829	49	1.4
49172.5	10000	41.4575	92.1201	-618	QK	2.9	1	7.1	0	1.2	1	0.408	1	2.345	0	5.752	-1	1822	42	1.4
49172.4	10000	41.4575	92.1193	-619	QK	3.1	1	7.1	0	1.2	0	0.433	1	2.635	1	6.082	-1	1830	32	1.4
49172.3	10000	41.4575	92.1185	-620	QK	3.2	1	7.0	0	1.1	0	0.458	1	2.844	1	6.205	0	1809	41	1.4
49172.2	10000	41.4575	92.1176	-621	QK	3.0	1	6.9	0	1.1	0	0.440	1	2.826	1	6.428	0	1783	33	1.4
49172.1	10000	41.4575	92.1168	-621	QK	2.6	0	6.7	-1	1.0	-1	0.389	1	2.563	1	6.588	0	1743	38	1.4
49172.0	10000	41.4575	92.1160	-622	QK	2.6	0	6.5	-1	1.0	-1	0.393	1	2.532	1	6.437	0	1706	44	1.4
49171.9	10000	41.4575	92.1151	-622	QK	2.5	0	6.2	-1	1.0	-1	0.406	1	2.429	0	5.977	-1	1684	51	1.4
49171.8	10000	41.4575	92.1143	-622	QK	2.7	0	6.2	-1	1.0	-1	0.435	1	2.619	1	6.026	-1	1677	41	1.4
49171.7	10000	41.4576	92.1134	-622	QK	2.6	0	6.5	-1	1.0	-1	0.393	1	2.458	0	6.255	0	1658	42	1.4
49171.6	10000	41.4576	92.1126	-622	QK	2.5	0	6.6	-1	1.0	-1	0.371	0	2.494	0	6.728	0	1649	52	1.4
49171.5	10000	41.4576	92.1118	-621	QK	2.3	0	6.5	-1	1.0	-1	0.358	0	2.300	0	6.426	0	1653	48	1.4
49171.4	10000	41.4576	92.1109	-620	QK	2.5	0	6.7	-1	1.0	-1	0.367	0	2.500	0	6.804	0	1662	43	1.4
49171.3	10000	41.4576	92.1101	-620	QK	2.3	-1	6.9	-1	1.0	-1	0.331	0	2.296	0	6.938	1	1660	42	1.4
49171.2	10000	41.4576	92.1093	-619	QK	2.4	0	7.4	0	1.0	-1	0.321	0	2.457	0	7.647	2	1658	37	1.4
49171.1	10000	41.4576	92.1084	-619	QK	2.1	-1	7.4	0	0.9	-2	0.281	-1	2.222	0	7.905	2	1641	52	1.4
49171.0	10000	41.4576	92.1076	-619	QK	1.9	-1	7.2	0	0.9	-1	0.270	-1	2.053	0	7.593	2	1618	34	1.4
49170.9	10000	41.4576	92.1068	-618	QK	2.0	-1	7.2	0	1.0	-1	0.279	-1	2.085	0	7.477	1	1611	50	1.4
49170.8	10000	41.4576	92.1059	-618	QK	2.1	-1	7.4	0	1.0	-1	0.288	-1	2.199	0	7.625	2	1616	44	1.4
49170.7	10000	41.4576	92.1051	-619	QK	2.2	-1	7.3	0	1.0	-1	0.298	-1	2.241	0	7.520	2	1630	47	1.4
49170.6	10000	41.4576	92.1042	-620	QK	2.1	-1	7.4	0	1.0	-1	0.291	-1	2.109	0	7.255	1	1658	53	1.4
49170.5	10000	41.4576	92.1034	-621	QK	1.9	-1	7.6	0	1.1	-1	0.247	-1	1.790	0	7.252	1	1675	67	1.4
49170.4	10000	41.4576	92.1026	-622	QK	2.0	-1	7.5	0	1.1	-1	0.268	-1	1.797	0	6.708	0	1715	39	1.4
49170.3	10000	41.4576	92.1017	-624	QK	2.1	-1	7.3	0	1.1	-1	0.289	-1	1.872	0	6.476	-1	1747	41	1.4
49170.2	10000	41.4576	92.1009	-625	QK	2.0	-1	6.9	0	1.2	-1	0.290	-1	1.732	0	5.961	-1	1764	37	1.4
49170.1	10000	41.4576	92.1001	-626	QK	2.2	-1	6.9	0	1.2	-1	0.320	-1	1.836	0	5.730	-1	1782	47	1.4
49170.0	10000	41.4576	92.0992	-624	QK	2.3	-1	7.4	0	1.2	-1	0.341	-1	1.880	0	5.509	-1	1784	51	1.4
49169.9	10000	41.4576	92.0984	-627	QK	2.7	-1	7.3	0	1.1	-1	0.422	-1	2.356	0	5.590	-1	1785	42	1.4
49169.8	10000	41.4576	92.0976	-631	QK	2.8	-1	7.1	0	1.1	-1	0.441	-1	2.562	0	5.808	-1	1788	40	1.4
49169.7	10000	41.4576	92.0967	-634	QK	2.7	-1	6.8	0	1.1	-1	0.394	-1	2.479	0	6.294	-1	1794	47	1.4
49169.6	10000	41.4576	92.0959	-635	QK	2.9	-1	7.0	0	1.1	-1	0.413	-1	2.568	0	6.217	0	1810	41	1.4
49169.5	10000	41.4576	92.0951	-636	QK	2.8	-1	7.3	0	1.1	-1	0.385	-1	2.439	0	6.340	0	1815	37	1.3
49169.4	10000	41.4577	92.0942	-636	QK	2.8	-1	7.1	0	1.1	-1	0.390	-1	2.496	0	6.395	0	1805	46	1.3
49169.3	10000	41.4577	92.0934	-636	QK	2.6	-1	7.2	0	1.1	-1	0.363	-1	2.338	0	6.447	0	1798	48	1.3
49169.2	10000	41.4577	92.0925	-637	QK	2.2	-1	7.4	0	1.2	-1	0.296	-1	1.901	0	6.429	0	1784	51	1.3
49169.1	10000	41.4577	92.0917	-637	QK	2.4	-1	7.2	0	1.1	-1	0.337	-1	2.115	0	6.283	0	1762	41	1.3
49169.0	10000	41.4577	92.0909	-636	QK	2.3	-1	6.8	0	1.1	-1	0.344	-1	2.095	0	6.091	-1	1722	35	1.3
49168.9	10000	41.4577	92.0900	-635	QK	2.2	-1	6.8	0	1.1	-1	0.322	-1	2.096	0	6.516	0	1683	55	1.3
49168.8	10000	41.4577	92.0892	-633	QK	2.4	-1	6.7	0	1.1	-1	0.356	-1	2.395	0	6.730	0	1666	49	1.3
49168.7	10000	41.4577	92.0884	-632	QK	2.5	-1	6.5	0	1.1	-1	0.361	-1	2.283	0	6.325	0	1665	55	1.3
49168.6	10000	41.4577	92.0875	-630	QK	2.6	-1	6.6	0	1.1	-1	0.383	-1	2.378	0	6.217	0	1690	38	1.3
49168.5	10000	41.4577	92.0867	-628	QK	2.6	-1	6.5	0	1.1	-1	0.399	-1	2.432	0	6.094	-1	1693	45	1.3
49168.4	10000	41.4577	92.0859	-626	QK	2.7	-1	6.6	0	1.1	-1	0.384	-1	2.325	0	6.045	-1	1710	37	1.3
49168.3	10000	41.4577	92.0850	-623	QK	2.7	-1	6.6	0	1.1	-1	0.402	-1	2.522	0	6.277	-1	1708	52	1.3
49168.2	10000	41.4577	92.0842	-620	QK	2.8	-1	6.3	0	1.1	0	0.439	-1	2.499	0	5.694	-1	1727	38	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49168.1	10000	41.4577	92.0834	-615	QK	2.9	1	6.5	-1	1.1	0	0.439	1	2.598	1	5.913	-1	1734	31	1.3
49168.0	10000	41.4577	92.0825	-612	QK	2.9	1	6.8	-1	1.1	0	0.428	1	2.724	1	6.364	0	1752	47	1.3
49167.9	10000	41.4577	92.0817	-610	QK	2.9	1	6.8	-1	1.1	0	0.431	1	2.761	1	6.402	0	1745	40	1.3
49167.8	10000	41.4577	92.0808	-606	QK	2.9	1	7.1	0	1.1	0	0.410	1	2.733	1	6.662	0	1764	42	1.4
49167.7	10000	41.4577	92.0800	-602	QK	3.0	1	7.1	0	1.1	0	0.428	1	2.759	1	6.447	0	1772	42	1.3
49167.6	10000	41.4577	92.0792	-598	QK	3.1	1	7.0	0	1.2	0	0.444	1	2.690	1	6.060	-1	1819	42	1.3
49167.5	10000	41.4578	92.0783	-594	QK	2.9	1	7.5	0	1.1	0	0.383	1	2.568	1	6.698	0	1829	43	1.3
49167.4	10000	41.4578	92.0775	-588	QK	2.8	0	7.5	0	1.2	0	0.368	1	2.346	0	6.379	0	1841	46	1.3
49167.3	10000	41.4578	92.0767	-583	QK	2.8	0	7.3	0	1.2	0	0.376	1	2.335	0	6.207	0	1816	41	1.3
49167.2	10000	41.4578	92.0758	-577	QK	2.6	0	7.1	0	1.1	0	0.366	1	2.264	0	6.188	0	1783	45	1.3
49167.1	10000	41.4578	92.0750	-571	QK	2.6	0	6.8	-1	1.1	0	0.382	1	2.457	0	6.427	0	1736	43	1.3
49167.0	10000	41.4578	92.0742	-563	QK	2.4	0	6.6	-1	1.0	-1	0.357	1	2.373	0	6.639	0	1677	54	1.3
49166.9	10000	41.4578	92.0733	-556	QK	2.2	-1	6.5	-1	0.9	-1	0.343	1	2.351	0	6.846	1	1617	44	1.3
49166.8	10000	41.4578	92.0725	-548	QK	2.2	-1	6.2	-1	1.0	-1	0.359	1	2.310	0	6.441	0	1580	41	1.3
49166.7	10000	41.4578	92.0717	-539	QK	1.9	-1	6.2	-1	0.9	-2	0.317	1	2.155	0	6.806	0	1550	40	1.3
49166.6	10000	41.4578	92.0708	-530	QK	1.8	-1	6.3	-1	0.9	-2	0.293	-1	1.952	-1	6.670	0	1569	31	1.3
49166.5	10000	41.4578	92.0700	-520	QK	1.8	-1	6.8	-1	0.9	-1	0.271	-1	1.943	-1	7.184	1	1591	27	1.3
49166.4	10000	41.4578	92.0691	-509	QK	1.7	-2	6.7	-1	1.0	-1	0.250	-1	1.642	-1	6.559	0	1619	40	1.3
49166.3	10000	41.4578	92.0683	-497	QK	1.6	-2	7.1	0	1.1	0	0.231	-2	1.508	-2	6.520	0	1660	49	1.3
49166.2	10000	41.4578	92.0675	-485	QK	1.8	-2	6.9	0	1.1	0	0.258	-1	1.612	-1	6.244	0	1695	38	1.3
49166.1	10000	41.4578	92.0666	-472	QK	1.8	-1	7.1	0	1.1	0	0.257	-1	1.611	-1	6.260	0	1729	44	1.3
49166.0	10000	41.4578	92.0658	-459	QK	2.0	-1	7.0	0	1.1	0	0.277	-1	1.706	-1	6.150	0	1753	53	1.3
49165.9	10000	41.4578	92.0650	-445	QK	2.0	-1	7.2	0	1.1	0	0.281	-1	1.847	-1	6.564	0	1765	54	1.3
49165.8	10000	41.4578	92.0641	-431	QK	2.1	-1	7.1	0	1.1	0	0.300	-1	1.879	-1	6.268	0	1773	38	1.3
49165.7	10000	41.4578	92.0633	-418	QK	2.3	0	7.3	0	1.1	0	0.313	-1	2.089	0	6.678	0	1782	37	1.3
49165.6	10000	41.4579	92.0625	-404	QK	2.6	0	7.4	0	1.0	-1	0.346	0	2.448	0	7.084	1	1789	48	1.3
49165.5	10000	41.4579	92.0616	-390	QK	2.4	0	8.1	0	1.0	-1	0.301	-1	2.349	0	7.817	2	1801	29	1.3
49165.4	10000	41.4579	92.0608	-376	QK	2.5	0	8.3	0	1.0	-1	0.300	-1	2.452	0	8.183	2	1800	46	1.3
49165.3	10000	41.4579	92.0600	-363	QK	2.5	0	8.4	0	1.0	-1	0.294	-1	2.402	0	8.183	2	1796	30	1.3
49165.2	10000	41.4579	92.0591	-350	QK	2.6	0	8.6	0	1.0	-1	0.297	-1	2.438	0	8.221	2	1799	43	1.3
49165.1	10000	41.4579	92.0583	-338	QK	2.8	0	8.7	0	1.1	-1	0.318	0	2.608	1	8.208	2	1802	37	1.3
49165.0	10000	41.4579	92.0574	-326	QK	2.7	0	8.5	0	1.1	-1	0.318	0	2.509	1	7.899	2	1807	41	1.3
49164.9	10000	41.4579	92.0566	-315	QK	2.5	0	8.4	0	1.1	-1	0.292	-1	2.191	0	7.496	1	1815	55	1.3
49164.8	10000	41.4579	92.0558	-306	QK	2.7	0	8.3	0	1.1	0	0.321	0	2.349	0	7.310	1	1811	48	1.3
49164.7	10000	41.4579	92.0549	-296	QK	2.6	0	7.9	0	1.2	0	0.325	0	2.266	0	6.978	1	1814	45	1.3
49164.6	10000	41.4579	92.0541	-288	QK	2.9	0	8.1	0	1.2	0	0.362	0	2.450	0	6.767	1	1835	46	1.3
49164.5	10000	41.4579	92.0533	-281	QK	2.8	0	7.8	0	1.2	0	0.340	0	2.269	0	6.677	1	1837	38	1.3
49164.4	10000	41.4579	92.0524	-274	QK	2.5	0	7.8	0	1.2	0	0.323	0	2.058	0	6.377	1	1828	35	1.3
49164.3	10000	41.4579	92.0516	-269	QK	2.6	0	7.7	0	1.2	0	0.340	0	2.123	0	6.248	1	1825	49	1.3
49164.2	10000	41.4579	92.0508	-264	QK	2.7	0	7.7	0	1.2	0	0.354	0	2.276	0	6.437	1	1816	42	1.3
49164.1	10000	41.4579	92.0499	-260	QK	2.6	0	7.7	0	1.2	0	0.339	0	2.201	0	6.489	1	1803	37	1.3
49164.0	10000	41.4579	92.0491	-257	QK	2.8	0	7.6	0	1.2	0	0.375	0	2.421	0	6.463	1	1795	40	1.3
49163.9	10000	41.4579	92.0482	-255	QK	2.6	0	7.5	0	1.1	0	0.351	0	2.332	0	6.653	1	1785	36	1.3
49163.8	10000	41.4579	92.0474	-254	QK	2.6	0	7.1	0	1.1	0	0.368	0	2.422	0	6.581	1	1757	57	1.3
49163.7	10000	41.4579	92.0466	-254	QK	2.8	0	7.3	0	1.1	0	0.388	0	2.694	1	6.935	1	1750	38	1.3
49163.6	10000	41.4579	92.0457	-254	QK	2.9	0	7.2	0	1.1	0	0.410	0	2.751	1	6.706	1	1743	43	1.3
49163.5	10000	41.4580	92.0449	-255	QK	2.9	0	7.0	0	1.1	0	0.413	0	2.593	1	6.284	1	1744	48	1.3
49163.4	10000	41.4580	92.0441	-256	QK	2.9	0	6.8	-1	1.1	0	0.425	0	2.612	1	6.151	1	1755	32	1.3
49163.3	10000	41.4580	92.0432	-258	QK	2.8	0	7.1	-1	1.1	0	0.392	0	2.547	1	6.504	1	1738	52	1.3
49163.2	10000	41.4580	92.0424	-261	QK	2.7	0	7.1	-1	1.1	0	0.374	0	2.407	1	6.444	1	1725	39	1.3
49163.1	10000	41.4580	92.0416	-265	QK	2.8	0	7.0	-1	1.1	0	0.397	0	2.525	1	6.355	0	1732	49	1.3
49163.0	10000	41.4580	92.0407	-268	QK	2.7	0	6.8	-1	1.1	0	0.399	1	2.365	0	5.932	-1	1730	41	1.3

LINE 310 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49162.9	10000	41.4580	92.0399	-272	QK	2.6	0	6.6	-1	1.1	0	0.388	1	2.351	0	6.054	-1	1732	35	1.3
49162.8	10000	41.4580	92.0390	-276	QK	2.5	0	6.5	-1	1.1	0	0.392	1	2.273	0	5.797	-1	1738	47	1.3
49162.7	10000	41.4580	92.0382	-279	QK	2.3	0	6.6	-1	1.1	0	0.353	0	2.064	0	5.846	-1	1736	57	1.3
49162.6	10000	41.4580	92.0374	-283	QK	2.2	-1	6.6	-1	1.1	0	0.329	0	1.907	-1	5.790	-1	1761	44	1.3
49162.5	10000	41.4580	92.0365	-286	QK	2.4	0	6.9	0	1.1	0	0.342	0	2.071	0	6.058	-1	1765	48	1.3
49162.4	10000	41.4580	92.0357	-290	QK	2.2	-1	6.9	0	1.2	0	0.319	0	1.894	-1	5.929	-1	1758	49	1.2
49162.3	10000	41.4580	92.0349	-293	QK	2.2	-1	7.1	0	1.1	0	0.314	-1	1.954	-1	6.225	0	1757	48	1.2
49162.2	10000	41.4580	92.0340	-295	QK	2.2	-1	7.4	0	1.2	1	0.291	-1	1.819	-1	6.244	0	1752	39	1.2
49162.1	10000	41.4580	92.0332	-297	QK	2.2	-1	7.9	1	1.2	0	0.272	-1	1.871	-1	6.885	1	1755	56	1.2
49162.0	10000	41.4580	92.0324	-298	QK	2.5	0	7.8	0	1.2	0	0.319	0	2.143	0	6.719	0	1769	47	1.2
49161.9	10000	41.4580	92.0315	-300	QK	2.7	0	7.5	0	1.1	0	0.358	0	2.346	0	6.555	0	1765	42	1.2
49161.8	10000	41.4580	92.0307	-300	QK	2.7	0	7.3	0	1.2	0	0.370	0	2.355	0	6.361	0	1761	47	1.2
49161.7	10000	41.4581	92.0299	-301	QK	2.8	0	7.5	0	1.2	0	0.372	0	2.414	0	6.487	0	1770	40	1.2
49161.6	10000	41.4581	92.0291	-300	QK	2.6	0	7.6	1	1.2	0	0.340	0	2.234	0	6.578	0	1798	51	1.2
49161.5	10000	41.4581	92.0282	-299	QK	2.6	0	7.9	1	1.1	0	0.323	0	2.237	0	6.923	1	1805	36	1.2
49161.4	10000	41.4581	92.0274	-299	QK	2.6	0	7.6	1	1.2	0	0.342	0	2.254	0	6.582	0	1805	39	1.2
49161.3	10000	41.4581	92.0266	-298	QK	2.5	1	7.7	1	1.2	1	0.328	0	2.110	0	6.426	0	1797	42	1.2
49161.2	10000	41.4581	92.0257	-297	QK	2.4	0	7.6	0	1.2	1	0.313	-1	1.935	-1	6.172	0	1781	43	1.2
49161.1	10000	41.4581	92.0249	-296	QK	2.3	0	7.9	1	1.2	1	0.292	-1	1.880	-1	6.446	0	1786	45	1.2
49161.0	10000	41.4581	92.0241	-296	QK	2.2	-1	7.7	1	1.2	1	0.286	-1	1.846	-1	6.465	0	1783	39	1.2
49160.9	10000	41.4582	92.0233	-296	QK	2.6	0	7.5	0	1.2	1	0.345	0	2.124	0	6.159	0	1782	40	1.2
49160.8	10000	41.4582	92.0224	-297	QK	2.8	1	7.5	1	1.2	1	0.372	0	2.244	0	6.041	-1	1803	49	1.2
49160.7	10000	41.4582	92.0216	-298	QK	2.8	1	7.7	1	1.2	1	0.362	0	2.348	0	6.477	0	1804	41	1.2
49160.6	10000	41.4582	92.0208	-300	QK	3.0	1	7.8	1	1.2	1	0.383	0	2.582	1	6.742	0	1815	43	1.2
49160.5	10000	41.4582	92.0199	-302	QK	3.1	1	8.0	1	1.1	1	0.394	1	2.729	1	6.919	1	1847	37	1.2
49160.4	10000	41.4582	92.0191	-306	QK	3.1	1	7.6	1	1.1	0	0.409	1	2.778	1	6.794	0	1850	42	1.2
49160.3	10000	41.4582	92.0183	-309	QK	3.4	1	7.6	1	1.1	1	0.448	1	3.019	2	6.737	1	1843	47	1.2
49160.2	10000	41.4582	92.0175	-313	QK	3.1	1	7.2	1	1.1	1	0.428	1	2.814	1	6.577	1	1832	45	1.2
49160.1	10000	41.4583	92.0166	-318	QK	3.1	1	7.2	1	1.0	1	0.432	1	2.973	2	6.884	1	1799	39	1.2
49160.0	10000	41.4583	92.0158	-323	QK	3.1	1	6.9	1	1.0	1	0.454	1	3.038	2	6.695	0	1788	50	1.2
49159.9	10000	41.4583	92.0150	-328	QK	3.1	1	6.7	0	1.0	1	0.463	1	2.982	2	6.435	0	1764	47	1.2
49159.8	10000	41.4583	92.0141	-334	QK	3.1	1	6.8	0	1.0	1	0.454	1	3.048	2	6.715	0	1750	50	1.2
49159.7	10000	41.4583	92.0133	-339	QK	3.1	1	6.7	0	1.0	1	0.465	1	2.979	2	6.402	0	1732	52	1.2
49159.6	10000	41.4583	92.0125	-345	QK	3.0	1	6.7	0	1.0	1	0.445	1	2.911	2	6.544	0	1722	44	1.2
49159.5	10000	41.4583	92.0117	-351	QK	2.9	1	7.3	0	1.0	1	0.402	1	2.823	2	7.021	0	1717	37	1.2
49159.4	10000	41.4583	92.0108	-358	QK	2.6	1	7.0	0	1.1	1	0.378	1	2.450	2	6.479	0	1724	45	1.2
49159.3	10000	41.4584	92.0100	-364	QK	2.6	1	7.1	0	1.1	1	0.365	1	2.348	2	6.430	0	1721	36	1.2
49159.2	10000	41.4584	92.0092	-370	QK	2.4	1	7.8	1	1.1	1	0.314	-1	2.162	2	6.895	0	1734	46	1.2
49159.1	10000	41.4584	92.0084	-377	QK	2.4	1	7.7	1	1.2	1	0.305	-1	1.987	-1	6.517	0	1737	51	1.2
49159.0	10000	41.4584	92.0075	-383	QK	2.5	1	7.7	1	1.2	1	0.324	-1	2.115	2	6.528	0	1755	51	1.2
49158.9	10000	41.4584	92.0067	-389	QK	2.6	1	7.9	1	1.2	1	0.327	-1	2.087	2	6.392	0	1777	48	1.2
49158.8	10000	41.4584	92.0059	-395	QK	2.7	1	7.6	1	1.2	1	0.359	0	2.315	2	6.441	0	1771	49	1.2
49158.7	10000	41.4584	92.0050	-401	QK	2.8	1	7.5	1	1.2	1	0.401	1	2.571	2	6.405	0	1769	44	1.2
49158.6	10000	41.4584	92.0042	-407	QK	2.9	1	7.5	1	1.2	1	0.410	1	2.624	2	6.394	0	1777	42	1.2
49158.5	10000	41.4585	92.0034	-414	QK	3.0	1	7.0	1	1.1	1	0.434	1	2.667	2	6.145	0	1758	35	1.2
49158.4	10000	41.4585	92.0026	-420	QK	3.0	1	6.9	1	1.1	1	0.435	1	2.805	2	6.444	0	1734	49	1.2
49158.3	10000	41.4585	92.0017	-426	QK	2.9	1	7.0	1	1.1	1	0.420	1	2.750	2	6.550	0	1718	35	1.2
49158.2	10000	41.4585	92.0009	-432	QK	2.8	1	6.9	0	1.0	-1	0.411	1	2.725	1	6.627	0	1702	45	1.2

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48425.4	10000	41.3691	93.9991	-1208	QKA	2.2	0	4.7	-3	0.8	-2	0.459	2	2.631	1	5.731	-1	1472	44	1.6
48425.5	10000	41.3691	93.9983	-1207	QKA	2.0	-1	4.6	-3	0.8	-2	0.437	1	2.612	1	5.973	-1	1432	44	1.6
48425.6	10000	41.3691	93.9974	-1208	QKA	1.9	-1	4.3	-4	0.7	-3	0.452	2	2.677	1	5.922	-1	1374	36	1.6
48425.7	10000	41.3691	93.9965	-1209	QKA	1.9	-1	4.2	-4	0.7	-3	0.460	2	2.903	1	6.314	0	1311	45	1.6
48425.8	10000	41.3691	93.9957	-1209	QKA	1.6	-2	3.5	-5	0.6	-4	0.463	2	2.766	1	5.976	-1	1188	40	1.6
48425.9	10000	41.3690	93.9948	-1209	QKA	1.5	-2	3.5	-5	0.5	-4	0.421	1	2.853	1	6.780	0	1127	30	1.6
48426.0	10000	41.3690	93.9939	-1210	QKA	1.4	-2	3.7	-4	0.5	-4	0.382	1	2.823	1	7.382	1	1147	48	1.6
48426.1	10000	41.3690	93.9931	-1210	QKA	1.8	-1	3.9	-4	0.5	-4	0.452	2	3.568	3	7.902	2	1224	49	1.6
48426.2	10000	41.3690	93.9922	-1210	QKA	2.3	0	4.3	-4	0.6	-4	0.531	3	3.885	3	7.312	1	1327	42	1.6
48426.3	10000	41.3690	93.9913	-1211	QKA	2.6	0	4.9	-3	0.6	-3	0.520	3	4.012	4	7.716	1	1444	47	1.6
48426.4	10000	41.3690	93.9905	-1211	QKA	2.6	0	5.3	-2	0.7	-2	0.489	2	3.484	2	7.131	1	1550	41	1.6
48426.5	10000	41.3690	93.9896	-1211	QKA	2.7	1	5.9	-1	0.8	-2	0.451	2	3.352	2	7.434	1	1627	41	1.6
48426.6	10000	41.3690	93.9888	-1212	QKA	2.9	1	6.2	0	0.9	-2	0.466	2	3.343	2	7.171	1	1704	30	1.6
48426.7	10000	41.3690	93.9879	-1212	QKA	3.1	2	6.8	0	1.0	-1	0.462	2	3.244	2	7.017	0	1759	40	1.6
48426.8	10000	41.3689	93.9870	-1212	QKA	3.0	1	7.1	0	1.0	0	0.426	1	2.904	1	6.812	0	1797	44	1.6
48426.9	10000	41.3689	93.9861	-1214	QKA	2.7	1	7.2	0	1.1	0	0.384	1	2.500	0	6.513	0	1834	46	1.6
48427.0	10000	41.3689	93.9853	-1214	QKA	2.8	1	7.4	0	1.2	1	0.372	1	2.356	0	6.328	0	1872	57	1.6
48427.1	10000	41.3689	93.9844	-1214	QKA	3.2	2	7.3	0	1.2	1	0.437	2	2.682	1	6.132	-1	1906	42	1.6
48427.2	10000	41.3689	93.9836	-1215	QKA	3.4	2	7.6	0	1.2	1	0.442	2	2.825	1	6.387	0	1946	42	1.6
48427.3	10000	41.3689	93.9827	-1215	QKA	3.4	2	7.4	0	1.2	1	0.452	2	2.856	1	6.321	0	1944	52	1.6
48427.4	10000	41.3689	93.9818	-1216	QKA	3.3	2	7.3	0	1.2	1	0.458	2	2.809	1	6.140	-1	1936	39	1.6
48427.5	10000	41.3689	93.9810	-1217	QKA	3.0	1	7.2	0	1.2	1	0.418	1	2.615	1	6.250	-1	1921	46	1.6
48427.6	10000	41.3689	93.9801	-1217	QKA	3.2	2	7.1	0	1.1	0	0.450	2	2.952	1	6.565	0	1900	48	1.6
48427.7	10000	41.3688	93.9792	-1218	QKA	3.2	2	6.7	-1	1.1	0	0.478	2	3.020	2	6.321	0	1861	41	1.6
48427.8	10000	41.3688	93.9784	-1219	QKA	2.8	1	7.2	0	1.1	0	0.391	1	2.650	1	6.772	0	1849	41	1.7
48427.9	10000	41.3688	93.9775	-1219	QKA	2.6	0	6.7	-1	1.0	0	0.396	1	2.546	1	6.428	0	1813	37	1.7
48428.0	10000	41.3688	93.9766	-1219	QKA	2.9	1	6.7	-1	1.0	0	0.429	1	2.755	1	6.421	0	1812	52	1.7
48428.1	10000	41.3688	93.9758	-1219	QKA	2.9	1	6.5	-1	1.1	0	0.452	2	2.899	1	6.411	0	1810	40	1.7
48428.2	10000	41.3688	93.9749	-1219	QKA	2.9	1	6.6	-1	1.1	0	0.445	2	2.646	1	5.946	-1	1824	40	1.7
48428.3	10000	41.3688	93.9740	-1219	QKA	3.0	1	6.7	-1	1.2	1	0.439	1	2.528	1	5.758	-1	1843	50	1.7
48428.4	10000	41.3688	93.9732	-1220	QKA	3.0	1	7.1	0	1.2	1	0.421	1	2.512	1	5.971	-1	1888	45	1.7
48428.5	10000	41.3687	93.9723	-1220	QKA	3.4	2	6.7	-1	1.2	2	0.500	2	2.867	1	5.737	-1	1906	39	1.7
48428.6	10000	41.3687	93.9714	-1220	QKA	3.5	2	6.8	0	1.2	2	0.510	2	2.932	1	5.749	-1	1926	42	1.7
48428.7	10000	41.3687	93.9706	-1220	QKA	3.4	2	6.8	0	1.2	2	0.497	2	2.920	1	5.875	-1	1931	46	1.7
48428.8	10000	41.3687	93.9697	-1221	QKA	3.1	1	6.7	-1	1.1	1	0.457	2	2.768	1	6.063	-1	1909	59	1.7
48428.9	10000	41.3687	93.9688	-1221	QKA	3.1	1	6.6	-1	1.0	0	0.473	2	3.142	2	6.643	1	1893	48	1.7
48429.0	10000	41.3687	93.9680	-1221	QKA	3.1	1	6.7	-1	1.0	-1	0.455	2	2.988	1	6.565	0	1877	48	1.7
48429.1	10000	41.3687	93.9671	-1221	QKA	2.9	1	6.7	-1	1.0	0	0.434	1	2.842	1	6.550	0	1851	45	1.7
48429.2	10000	41.3687	93.9662	-1221	QKA	2.5	1	7.0	0	1.1	0	0.360	1	2.376	0	6.606	0	1838	40	1.7
48429.3	10000	41.3687	93.9654	-1220	QKA	2.4	1	7.2	0	1.1	0	0.330	1	2.158	0	6.543	0	1828	44	1.7
48429.4	10000	41.3686	93.9645	-1221	QKA	2.4	1	7.2	0	1.1	0	0.337	1	2.190	0	6.495	0	1825	30	1.7
48429.5	10000	41.3686	93.9636	-1221	QKA	2.8	1	7.0	0	1.1	0	0.391	1	2.404	0	6.143	-1	1846	40	1.7
48429.6	10000	41.3686	93.9628	-1221	QKA	3.1	1	6.8	0	1.2	1	0.458	2	2.642	1	5.765	-1	1863	41	1.7
48429.7	10000	41.3686	93.9619	-1221	QKA	3.0	1	6.6	-1	1.1	1	0.453	2	2.642	1	5.828	-1	1864	50	1.7
48429.8	10000	41.3686	93.9610	-1221	QKA	3.0	1	6.9	0	1.1	1	0.440	2	2.683	1	6.103	-1	1890	41	1.7
48429.9	10000	41.3686	93.9602	-1221	QKA	3.0	1	6.9	0	1.1	1	0.436	2	2.704	1	6.198	-1	1905	51	1.7
48430.0	10000	41.3686	93.9593	-1220	QKA	3.1	1	6.8	0	1.1	1	0.458	2	2.811	1	6.137	-1	1922	45	1.7
48430.1	10000	41.3686	93.9585	-1220	QKA	3.0	1	6.7	-1	1.1	1	0.458	2	2.721	1	5.939	-1	1929	30	1.7
48430.2	10000	41.3685	93.9576	-1220	QKA	3.0	1	6.9	0	1.1	1	0.437	2	2.658	1	6.086	-1	1925	50	1.7
48430.3	10000	41.3685	93.9567	-1219	QKA	2.8	1	7.2	0	1.1	1	0.394	1	2.513	1	6.382	-1	1907	45	1.7
48430.4	10000	41.3685	93.9558	-1219	QKA	2.8	1	6.9	0	1.1	1	0.408	2	2.533	1	6.210	-1	1896	39	1.7
48430.5	10000	41.3685	93.9550	-1218	QKA	2.8	1	6.4	-1	1.0	0	0.430	1	2.621	1	6.088	-1	1842	50	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48430.6	10000	41.3685	93.9541	-1217	QKA	2.8	1	6.1	-1	1.0	-1	0.461	2	2.824	1	6.121	-1	1807	41	1.7
48430.7	10000	41.3685	93.9532	-1216	QKA	3.0	1	5.6	-2	1.0	-1	0.532	3	3.012	2	5.661	-1	1774	39	1.7
48430.8	10000	41.3685	93.9524	-1215	QKA	3.0	1	5.7	-2	1.0	-1	0.527	3	3.064	2	5.817	-1	1768	44	1.7
48430.9	10000	41.3685	93.9515	-1214	QKA	2.6	0	6.1	-1	1.0	-1	0.426	1	2.659	1	6.240	-1	1774	42	1.7
48431.0	10000	41.3685	93.9507	-1213	QKA	2.5	0	6.0	-1	1.1	0	0.413	1	2.347	0	5.680	-1	1799	36	1.7
48431.1	10000	41.3684	93.9498	-1212	QKA	2.6	0	6.4	-1	1.1	0	0.402	1	2.440	0	6.071	-1	1825	42	1.7
48431.2	10000	41.3684	93.9489	-1211	QKA	2.5	0	6.5	-1	1.1	1	0.389	1	2.220	0	5.706	-1	1870	50	1.7
48431.3	10000	41.3684	93.9481	-1210	QKA	2.5	0	7.0	0	1.2	1	0.361	0	2.093	0	5.795	-1	1905	43	1.7
48431.4	10000	41.3684	93.9472	-1209	QKA	2.4	0	7.8	1	1.2	1	0.308	0	1.918	-1	6.232	-1	1937	42	1.7
48431.5	10000	41.3684	93.9463	-1208	QKA	2.3	0	7.9	1	1.2	1	0.287	-1	1.833	-1	6.380	0	1945	46	1.7
48431.6	10000	41.3684	93.9454	-1206	QKA	2.4	0	7.7	1	1.2	1	0.313	0	1.977	-1	6.309	0	1955	40	1.7
48431.7	10000	41.3684	93.9446	-1205	QKA	2.4	0	8.0	1	1.1	0	0.303	-1	2.130	0	7.027	0	1952	50	1.7
48431.8	10000	41.3684	93.9437	-1204	QKA	2.5	0	8.2	1	1.2	0	0.298	-1	2.087	0	7.013	0	1960	40	1.7
48431.9	10000	41.3683	93.9429	-1202	QKA	2.6	0	8.3	2	1.1	0	0.312	0	2.290	0	7.350	1	1953	44	1.7
48432.0	10000	41.3683	93.9420	-1201	QKA	2.6	0	8.0	1	1.1	0	0.322	0	2.263	0	7.034	0	1941	45	1.7
48432.1	10000	41.3683	93.9411	-1200	QKA	2.7	1	8.0	1	1.1	0	0.344	0	2.426	0	7.054	0	1940	45	1.7
48432.2	10000	41.3683	93.9403	-1198	QKA	2.6	0	7.9	1	1.1	0	0.329	0	2.353	0	7.161	1	1935	51	1.6
48432.3	10000	41.3683	93.9394	-1196	QKA	2.7	1	8.0	1	1.1	0	0.341	0	2.393	0	7.014	0	1937	52	1.6
48432.4	10000	41.3683	93.9385	-1195	QKA	2.8	1	7.8	1	1.2	1	0.359	0	2.405	0	6.693	0	1934	50	1.6
48432.5	10000	41.3683	93.9377	-1193	QKA	2.6	0	7.8	1	1.1	0	0.336	0	2.304	0	6.868	0	1922	42	1.6
48432.6	10000	41.3683	93.9368	-1191	QKA	2.5	0	7.3	0	1.2	1	0.348	0	2.171	0	6.239	-1	1917	43	1.6
48432.7	10000	41.3683	93.9359	-1190	QKA	2.5	0	7.6	1	1.2	1	0.325	0	2.047	0	6.291	0	1920	29	1.6
48432.8	10000	41.3682	93.9351	-1188	QKA	2.5	0	7.4	0	1.2	1	0.340	0	2.116	0	6.220	-1	1919	57	1.6
48432.9	10000	41.3682	93.9342	-1186	QKA	2.7	1	7.6	1	1.2	1	0.358	0	2.217	0	6.202	-1	1933	46	1.6
48433.0	10000	41.3682	93.9333	-1184	QKA	2.5	0	7.3	0	1.3	1	0.340	0	1.993	-1	5.861	-1	1932	49	1.6
48433.1	10000	41.3682	93.9325	-1183	QKA	2.6	0	7.2	0	1.3	1	0.354	0	1.998	-1	5.637	-1	1940	54	1.6
48433.2	10000	41.3682	93.9316	-1181	QKA	2.7	1	7.3	1	1.3	2	0.369	0	2.003	0	5.427	-2	1956	42	1.6
48433.3	10000	41.3682	93.9307	-1180	QKA	2.9	1	7.8	1	1.3	2	0.371	0	2.134	0	5.747	-1	1969	48	1.6
48433.4	10000	41.3682	93.9299	-1178	QKA	2.9	1	7.8	1	1.3	2	0.375	0	2.172	0	5.794	-1	1988	42	1.6
48433.5	10000	41.3682	93.9290	-1176	QKA	2.8	1	7.8	1	1.3	2	0.365	0	2.115	0	5.796	-1	2000	35	1.6
48433.6	10000	41.3681	93.9281	-1175	QKA	2.8	1	7.8	1	1.4	2	0.359	0	2.023	0	5.629	-1	2003	52	1.6
48433.7	10000	41.3681	93.9273	-1173	QKA	2.8	1	8.3	1	1.4	2	0.344	0	2.032	0	5.902	-1	2016	53	1.6
48433.8	10000	41.3681	93.9264	-1171	QKA	2.6	0	7.7	1	1.4	2	0.302	-1	1.924	-1	6.371	0	2016	43	1.6
48433.9	10000	41.3681	93.9255	-1170	QKA	2.6	0	8.6	1	1.3	2	0.302	-1	1.962	-1	6.500	0	2011	40	1.6
48434.0	10000	41.3681	93.9247	-1169	QKA	2.6	0	8.6	1	1.3	2	0.304	-1	2.021	0	6.637	0	2007	40	1.6
48434.1	10000	41.3681	93.9238	-1167	QKA	2.7	1	8.1	1	1.2	2	0.338	0	2.219	0	6.561	0	1998	42	1.6
48434.2	10000	41.3681	93.9229	-1166	QKA	2.7	1	8.2	1	1.2	2	0.333	0	2.245	0	6.735	0	1980	46	1.6
48434.3	10000	41.3681	93.9221	-1164	QKA	2.6	0	8.1	1	1.2	2	0.326	0	2.252	0	6.902	0	1967	41	1.5
48434.4	10000	41.3680	93.9212	-1163	QKA	2.6	0	7.8	1	1.1	1	0.335	0	2.385	0	7.110	1	1942	55	1.5
48434.5	10000	41.3680	93.9203	-1163	QKA	2.9	1	7.7	1	1.1	1	0.372	0	2.564	0	6.894	0	1930	36	1.5
48434.6	10000	41.3680	93.9195	-1162	QKA	2.7	1	7.6	1	1.1	1	0.360	0	2.492	0	6.926	0	1914	45	1.5
48434.7	10000	41.3680	93.9186	-1161	QKA	2.6	0	7.6	1	1.1	1	0.348	0	2.401	0	6.905	0	1903	44	1.5
48434.8	10000	41.3680	93.9178	-1160	QKA	2.4	0	7.9	1	1.1	1	0.299	-1	2.054	0	6.871	0	1892	44	1.5
48434.9	10000	41.3680	93.9169	-1159	QKA	2.4	0	8.1	1	1.2	1	0.295	-1	2.061	0	6.995	0	1889	44	1.5
48435.0	10000	41.3680	93.9160	-1157	QKA	2.4	0	8.1	1	1.2	1	0.291	-1	2.022	0	6.948	0	1889	59	1.5
48435.1	10000	41.3680	93.9151	-1156	QKA	2.4	0	7.6	1	1.1	1	0.313	0	2.067	0	6.613	0	1878	54	1.5
48435.2	10000	41.3680	93.9143	-1155	QKA	2.4	0	7.6	1	1.1	1	0.317	0	2.182	0	6.881	0	1854	54	1.5
48435.3	10000	41.3679	93.9134	-1154	QKA	2.5	0	7.5	1	1.1	1	0.336	0	2.282	0	6.801	0	1861	37	1.5
48435.4	10000	41.3679	93.9126	-1153	QKA	2.3	0	7.5	1	1.1	1	0.307	0	2.100	0	6.852	0	1863	34	1.5
48435.5	10000	41.3679	93.9117	-1151	QKA	2.5	0	7.7	1	1.0	1	0.330	0	2.431	0	7.360	1	1856	41	1.5
48435.6	10000	41.3679	93.9108	-1150	QKA	2.5	0	7.3	0	1.0	1	0.340	0	2.456	0	7.221	1	1854	49	1.4
48435.7	10000	41.3679	93.9100	-1148	QKA	2.6	0	7.4	0	1.0	-1	0.349	0	2.638	1	7.563	1	1839	44	1.4

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48435.8	10000	41.3679	93.9091	-1147	QKA	2.9	1	7.9	1	1.0	0	0.365	0	2.845	1	7.793	1	1854	40	1.4
48435.9	10000	41.3679	93.9082	-1145	QKA	3.0	1	7.6	1	1.0	-1	0.392	1	2.956	1	7.533	1	1872	44	1.4
48436.0	10000	41.3679	93.9074	-1142	QKA	2.9	1	7.3	0	1.0	-1	0.401	1	3.052	2	7.607	1	1860	32	1.4
48436.1	10000	41.3678	93.9065	-1141	QKA	3.3	2	7.2	0	1.0	-1	0.459	2	3.451	2	7.512	1	1840	36	1.4
48436.2	10000	41.3678	93.9056	-1138	QKA	3.2	2	6.9	0	0.9	-1	0.464	2	3.484	2	7.504	1	1827	45	1.4
48436.3	10000	41.3678	93.9048	-1136	QKA	3.4	2	7.0	0	0.9	-1	0.487	2	3.645	3	7.484	1	1814	48	1.4
48436.4	10000	41.3678	93.9039	-1134	QKA	3.3	2	6.7	-1	0.9	-1	0.494	2	3.622	3	7.327	1	1807	44	1.4
48436.5	10000	41.3679	93.9030	-1131	QKA	3.3	2	6.3	-1	0.9	-2	0.513	3	3.749	3	7.305	1	1787	38	1.4
48436.6	10000	41.3679	93.9021	-1129	QKA	3.1	1	6.6	-1	0.9	-1	0.465	2	3.422	2	7.359	1	1758	44	1.4
48436.7	10000	41.3679	93.9012	-1126	QKA	3.1	1	6.6	-1	0.9	-1	0.466	2	3.408	2	7.316	1	1726	50	1.4
48436.8	10000	41.3679	93.9003	-1123	QKA	2.9	1	6.5	-1	0.9	-1	0.443	2	3.186	2	7.195	1	1697	39	1.4
48436.9	10000	41.3679	93.8995	-1121	QKA	2.9	1	6.5	-1	0.9	-1	0.450	2	3.242	2	7.198	1	1674	47	1.4
48437.0	10000	41.3679	93.8986	-1118	QKA	2.7	1	6.4	-1	0.9	-1	0.422	1	2.967	1	7.038	0	1677	42	1.4
48437.1	10000	41.3679	93.8977	-1115	QKA	3.0	1	6.5	-1	0.9	-1	0.459	2	3.171	2	6.901	0	1690	46	1.3
48437.2	10000	41.3680	93.8968	-1112	QKA	2.8	1	6.7	-1	1.0	-1	0.421	1	2.914	1	6.927	0	1710	41	1.3
48437.3	10000	41.3680	93.8959	-1109	QKA	2.8	1	6.6	-1	1.0	-1	0.425	1	2.872	1	6.761	0	1728	36	1.3
48437.4	10000	41.3680	93.8950	-1106	QKA	2.8	1	7.1	0	1.0	0	0.399	1	2.779	1	6.962	0	1747	40	1.3
48437.5	10000	41.3680	93.8941	-1103	QKA	2.7	1	7.5	0	1.0	-1	0.356	1	2.701	1	7.578	1	1769	40	1.3
48437.6	10000	41.3680	93.8933	-1099	QKA	2.7	1	7.7	1	1.0	-1	0.350	0	2.691	1	7.685	1	1785	35	1.3
48437.7	10000	41.3680	93.8924	-1096	QKA	2.8	1	7.7	1	1.0	-1	0.364	0	2.794	1	7.681	1	1796	46	1.3
48437.8	10000	41.3680	93.8915	-1093	QKA	2.7	1	7.7	1	1.0	0	0.344	0	2.547	1	7.410	1	1810	37	1.3
48437.9	10000	41.3680	93.8906	-1089	QKA	2.7	1	7.9	1	1.1	0	0.342	0	2.569	1	7.507	1	1822	45	1.3
48438.0	10000	41.3681	93.8897	-1085	QKA	2.8	1	7.8	1	1.1	0	0.351	0	2.558	1	7.284	1	1852	43	1.3
48438.1	10000	41.3681	93.8888	-1081	QKA	2.6	0	7.8	1	1.1	0	0.335	0	2.366	0	7.053	0	1881	40	1.3
48438.2	10000	41.3681	93.8880	-1077	QKA	2.7	1	8.3	1	1.2	1	0.325	0	2.212	0	6.815	0	1909	36	1.3
48438.3	10000	41.3681	93.8871	-1073	QKA	2.5	0	7.8	1	1.3	1	0.323	0	1.973	-1	6.114	-1	1934	41	1.3
48438.4	10000	41.3681	93.8862	-1069	QKA	2.5	0	7.8	1	1.3	2	0.327	0	1.976	-1	6.051	-1	1958	59	1.3
48438.5	10000	41.3681	93.8853	-1064	QKA	2.4	0	7.8	1	1.3	2	0.309	0	1.870	-1	6.041	-1	1965	39	1.3
48438.6	10000	41.3681	93.8844	-1059	QKA	2.6	1	7.8	1	1.3	2	0.337	0	2.032	0	6.024	-1	1975	43	1.3
48438.7	10000	41.3682	93.8835	-1056	QKA	2.8	1	8.2	1	1.3	2	0.340	0	2.153	0	6.341	0	1974	36	1.3
48438.8	10000	41.3682	93.8826	-1052	QKA	2.9	2	8.2	1	1.3	2	0.356	0	2.322	0	6.526	0	1962	41	1.3
48438.9	10000	41.3682	93.8818	-1048	QKA	2.9	2	8.0	1	1.2	1	0.399	1	2.676	1	6.704	0	1948	47	1.3
48439.0	10000	41.3682	93.8809	-1044	QKA	2.5	2	8.2	1	1.1	1	0.393	1	2.812	1	7.163	1	1932	43	1.3
48439.1	10000	41.3682	93.8800	-1040	QKA	3.1	2	8.3	2	1.1	1	0.375	1	2.784	1	7.431	1	1912	44	1.3
48439.2	10000	41.3682	93.8791	-1035	QKA	3.3	2	8.2	2	1.1	1	0.398	1	2.934	1	7.364	1	1900	49	1.3
48439.3	10000	41.3683	93.8782	-1031	QKA	3.2	2	8.1	1	1.1	1	0.391	1	2.798	1	7.127	1	1877	42	1.3
48439.4	10000	41.3683	93.8773	-1027	QKA	2.9	1	7.6	1	1.1	1	0.386	1	2.634	1	6.816	1	1853	44	1.3
48439.5	10000	41.3683	93.8764	-1022	QKA	3.1	1	7.5	1	1.1	1	0.408	1	2.781	1	6.818	1	1849	50	1.3
48439.6	10000	41.3683	93.8756	-1018	QKA	3.1	1	7.3	1	1.1	1	0.419	1	2.724	1	6.505	1	1836	41	1.3
48439.7	10000	41.3683	93.8747	-1014	QKA	3.2	1	7.2	1	1.1	1	0.439	2	2.893	1	6.591	1	1824	32	1.3
48439.8	10000	41.3683	93.8738	-1009	QKA	3.1	1	7.0	1	1.1	1	0.443	2	2.901	1	6.548	1	1794	44	1.3
48439.9	10000	41.3683	93.8729	-1005	QKA	3.0	1	7.3	1	1.0	1	0.413	1	2.938	1	7.121	1	1761	40	1.3
48440.0	10000	41.3684	93.8720	-1001	QKA	3.0	1	7.4	1	1.0	-1	0.398	1	3.095	2	7.777	1	1745	49	1.3
48440.1	10000	41.3684	93.8711	-997	QKA	3.0	1	7.3	0	0.9	-1	0.409	1	3.278	2	8.025	2	1720	43	1.3
48440.2	10000	41.3684	93.8703	-992	QKA	2.8	1	7.0	0	0.9	-1	0.393	1	3.024	2	7.691	1	1694	36	1.3
48440.3	10000	41.3684	93.8694	-987	QKA	2.3	1	6.8	0	0.9	-1	0.322	1	2.457	1	7.625	1	1693	49	1.3
48440.4	10000	41.3684	93.8685	-984	QKA	2.3	1	6.7	-1	0.9	-1	0.341	1	2.569	1	7.541	1	1679	50	1.3
48440.5	10000	41.3684	93.8676	-980	QKA	2.4	1	6.7	-1	1.0	-1	0.364	1	2.661	1	7.313	1	1693	42	1.3
48440.6	10000	41.3684	93.8667	-975	QKA	2.5	1	6.8	-1	1.0	-1	0.374	1	2.592	1	6.929	1	1710	38	1.3
48440.7	10000	41.3685	93.8658	-971	QKA	2.5	1	6.7	-1	1.1	-1	0.375	1	2.539	1	6.770	1	1729	54	1.3
48440.8	10000	41.3685	93.8650	-966	QKA	2.4	1	7.1	0	1.1	0	0.336	0	2.257	0	6.715	0	1754	50	1.2
48440.9	10000	41.3685	93.8641	-963	QKA	2.7	1	7.3	0	1.1	0	0.363	0	2.467	0	6.786	0	1778	43	1.2

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48441.0	10000	41.3685	93.8632	-959	QKA	3.0	1	7.3	0	1.1	0	0.419	1	2.822	1	6.743	0	1806	50	1.2
48441.1	10000	41.3685	93.8623	-955	QKA	3.0	1	7.5	0	1.1	0	0.397	1	2.646	1	6.659	0	1832	48	1.2
48441.2	10000	41.3685	93.8614	-951	QKA	2.9	1	7.7	1	1.1	0	0.383	1	2.655	1	6.937	0	1858	45	1.3
48441.3	10000	41.3685	93.8605	-947	QKA	3.0	1	7.5	1	1.1	0	0.395	1	2.699	1	6.872	0	1882	39	1.3
48441.4	10000	41.3685	93.8596	-944	QKA	3.0	1	7.5	0	1.1	0	0.407	1	2.677	1	6.571	0	1887	45	1.3
48441.5	10000	41.3686	93.8588	-941	QKA	3.5	2	7.4	0	1.1	0	0.467	2	3.074	2	6.583	0	1903	24	1.3
48441.6	10000	41.3686	93.8579	-938	QKA	3.2	2	7.5	1	1.1	0	0.425	1	2.837	1	6.673	0	1914	40	1.3
48441.7	10000	41.3686	93.8570	-936	QKA	3.3	2	7.3	0	1.1	0	0.444	2	2.888	1	6.503	0	1911	45	1.3
48441.8	10000	41.3686	93.8561	-933	QKA	3.3	2	7.3	0	1.1	0	0.450	2	2.897	1	6.439	0	1914	55	1.3
48441.9	10000	41.3686	93.8552	-930	QKA	3.1	2	7.3	0	1.1	0	0.427	1	2.778	1	6.505	0	1902	48	1.3
48442.0	10000	41.3686	93.8543	-928	QKA	3.3	2	7.3	0	1.1	0	0.446	2	2.960	1	6.630	0	1893	45	1.3
48442.1	10000	41.3686	93.8535	-925	QKA	3.0	1	7.3	0	1.1	0	0.414	1	2.818	1	6.806	0	1876	39	1.3
48442.2	10000	41.3687	93.8526	-923	QKA	2.8	1	7.5	1	1.0	0	0.371	0	2.667	1	7.197	1	1854	51	1.3
48442.3	10000	41.3687	93.8517	-922	QKA	2.8	1	7.1	0	1.0	0	0.385	0	2.679	1	6.957	0	1827	41	1.3
48442.4	10000	41.3687	93.8508	-920	QKA	2.6	0	7.2	0	1.0	-1	0.356	-1	2.633	1	7.402	1	1788	42	1.3
48442.5	10000	41.3687	93.8499	-918	QKA	2.5	0	7.1	0	0.9	-1	0.355	-1	2.690	1	7.580	1	1745	34	1.4
48442.6	10000	41.3687	93.8490	-917	QKA	2.6	0	7.0	0	1.0	-1	0.370	-1	2.715	1	7.330	1	1724	41	1.4
48442.7	10000	41.3687	93.8481	-915	QKA	2.3	0	7.2	0	1.0	-1	0.321	-1	2.333	0	7.272	1	1715	40	1.4
48442.8	10000	41.3687	93.8473	-914	QKA	2.3	0	6.9	0	1.0	0	0.335	0	2.234	0	6.675	0	1722	57	1.4
48442.9	10000	41.3688	93.8464	-912	QKA	2.2	0	6.8	0	1.1	0	0.328	0	2.110	0	6.440	0	1729	49	1.4
48443.0	10000	41.3688	93.8455	-911	QKA	2.5	0	6.9	0	1.1	0	0.368	0	2.394	0	6.508	0	1737	46	1.4
48443.1	10000	41.3688	93.8446	-910	QKA	2.7	1	7.0	1	1.1	0	0.382	1	2.414	0	6.324	0	1766	49	1.4
48443.2	10000	41.3688	93.8437	-909	QKA	2.9	1	7.7	1	1.1	0	0.380	1	2.657	1	6.983	0	1826	43	1.4
48443.3	10000	41.3688	93.8428	-909	QKA	3.0	1	7.7	1	1.1	0	0.391	1	2.639	1	6.756	0	1869	41	1.4
48443.4	10000	41.3688	93.8419	-909	QKA	3.2	2	7.6	1	1.2	1	0.419	1	2.657	1	6.340	0	1893	45	1.5
48443.5	10000	41.3688	93.8411	-909	QKA	3.6	2	8.0	1	1.2	1	0.442	2	2.882	1	6.523	0	1930	42	1.5
48443.6	10000	41.3689	93.8402	-909	QKA	3.5	2	8.1	1	1.2	1	0.429	1	2.833	1	6.600	0	1965	47	1.5
48443.7	10000	41.3689	93.8393	-910	QKA	3.4	2	8.4	2	1.2	1	0.408	1	2.806	1	6.878	0	1996	47	1.5
48443.8	10000	41.3689	93.8384	-910	QKA	3.6	3	8.5	2	1.2	1	0.428	1	3.048	2	7.121	1	2005	41	1.5
48443.9	10000	41.3689	93.8375	-911	QKA	3.7	3	7.7	1	1.2	1	0.481	2	3.055	2	6.356	0	1998	44	1.5
48444.0	10000	41.3689	93.8366	-913	QKA	3.8	3	7.6	1	1.2	1	0.491	2	3.041	2	6.195	-1	1980	52	1.6
48444.1	10000	41.3689	93.8358	-915	QKA	3.7	3	7.3	1	1.2	1	0.513	2	3.090	2	6.027	-1	1989	37	1.6
48444.2	10000	41.3689	93.8349	-917	QKA	3.6	2	7.0	1	1.2	1	0.517	2	3.062	2	5.923	-1	1975	37	1.6
48444.3	10000	41.3689	93.8340	-919	QKA	3.6	2	7.0	1	1.2	1	0.518	2	2.983	1	5.753	-1	1947	53	1.6
48444.4	10000	41.3690	93.8331	-921	QKA	3.7	3	6.6	-1	1.3	1	0.551	2	2.869	1	5.209	-2	1922	47	1.6
48444.5	10000	41.3690	93.8322	-922	QKA	3.4	2	6.3	-1	1.3	1	0.542	2	2.617	1	4.827	-2	1916	48	1.6
48444.6	10000	41.3690	93.8313	-924	QKA	3.1	2	6.5	-1	1.3	2	0.472	1	2.337	0	4.952	-2	1914	50	1.6
48444.7	10000	41.3690	93.8304	-926	QKA	2.8	1	6.7	-1	1.3	2	0.418	1	2.141	0	5.125	-2	1915	42	1.7
48444.8	10000	41.3690	93.8296	-928	QKA	2.7	1	7.1	0	1.3	2	0.386	1	2.067	0	5.360	-2	1895	36	1.7
48444.9	10000	41.3690	93.8287	-930	QKA	2.5	1	7.0	0	1.3	2	0.353	1	1.900	-1	5.375	-2	1891	43	1.7
48445.0	10000	41.3690	93.8278	-932	QKA	2.7	1	6.7	-1	1.3	1	0.406	1	2.167	0	5.334	-2	1924	50	1.7
48445.1	10000	41.3691	93.8269	-933	QKA	2.4	1	6.9	0	1.3	1	0.347	1	1.908	-1	5.494	-1	1936	41	1.7
48445.2	10000	41.3691	93.8260	-934	QKA	2.2	1	7.2	1	1.3	1	0.310	1	1.763	-1	5.686	-1	1951	31	1.7
48445.3	10000	41.3691	93.8251	-939	QKA	2.2	1	7.7	1	1.3	1	0.286	1	1.743	-1	6.094	-1	1955	42	1.7
48445.4	10000	41.3691	93.8242	-943	QKA	2.6	1	7.5	1	1.2	1	0.339	1	2.082	0	6.133	-1	1975	36	1.8
48445.5	10000	41.3691	93.8234	-945	QKA	2.6	1	7.1	1	1.2	1	0.368	1	2.200	0	5.971	-1	1985	47	1.8
48445.6	10000	41.3691	93.8225	-949	QKA	2.7	1	7.3	1	1.2	1	0.376	1	2.322	0	6.172	-1	1994	49	1.8
48445.7	10000	41.3691	93.8216	-952	QKA	2.5	1	7.3	1	1.2	1	0.344	1	2.142	0	6.231	-1	1967	44	1.8
48445.8	10000	41.3692	93.8207	-955	QKA	2.8	1	7.3	1	1.1	1	0.380	1	2.491	0	6.555	0	1967	45	1.8
48445.9	10000	41.3692	93.8198	-958	QKA	2.7	1	7.2	1	1.1	1	0.371	1	2.477	0	6.680	0	1945	49	1.8
48446.0	10000	41.3692	93.8190	-961	QKA	2.6	1	7.0	1	1.1	1	0.375	1	2.494	0	6.651	0	1914	42	1.9
48446.1	10000	41.3692	93.8181	-964	QKA	2.3	1	7.0	0	1.1	0	0.331	0	2.121	0	6.412	0	1881	49	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48446.2	10000	41.3692	93.8172	-967	QKA	2.1	-1	7.5	0	1.1	0	0.280	-1	1.908	-1	6.823	0	1856	38	1.9
48446.3	10000	41.3692	93.8163	-970	QKA	1.9	-1	7.5	0	1.1	0	0.256	-1	1.787	-1	6.987	0	1822	41	1.9
48446.4	10000	41.3692	93.8154	-973	QKA	1.8	-1	7.6	1	1.1	0	0.231	-2	1.622	-1	7.014	0	1810	49	1.9
48446.5	10000	41.3693	93.8145	-975	QKA	1.7	-1	7.6	1	1.1	0	0.221	-2	1.590	-1	7.182	1	1772	38	1.9
48446.6	10000	41.3693	93.8136	-978	QKA	1.6	-2	7.7	1	1.0	0	0.202	-2	1.511	-1	7.464	1	1760	51	2.0
48446.7	10000	41.3693	93.8128	-981	QKA	1.7	-1	7.4	0	1.0	-1	0.233	-2	1.718	-1	7.366	1	1756	44	2.0
48446.8	10000	41.3693	93.8119	-984	QKA	1.6	-2	7.2	0	0.9	-1	0.223	-2	1.749	-1	7.841	1	1741	46	2.0
48446.9	10000	41.3693	93.8110	-987	QKA	1.7	-1	7.3	0	0.9	-2	0.235	-1	2.015	0	8.572	2	1725	40	2.0
48447.0	10000	41.3693	93.8101	-989	QKA	1.7	-1	7.1	0	0.8	-2	0.240	-1	2.023	0	8.421	2	1725	41	2.0
48447.1	10000	41.3693	93.8092	-992	QKA	1.6	-2	7.0	0	0.8	-2	0.235	-1	1.940	-1	8.266	2	1718	53	2.0
48447.2	10000	41.3693	93.8083	-994	QKA	1.6	-2	6.4	-1	0.9	-1	0.251	-1	1.782	-1	7.087	0	1737	51	2.0
48447.3	10000	41.3694	93.8074	-997	QKA	1.8	-1	6.2	-1	0.9	-1	0.286	-1	1.904	-1	6.662	0	1746	43	2.1
48447.4	10000	41.3694	93.8066	-999	QKA	1.7	-2	6.5	-1	1.0	-1	0.257	-1	1.676	-1	6.532	0	1757	49	2.1
48447.5	10000	41.3694	93.8057	-1002	QKA	1.8	-1	6.6	-1	1.1	0	0.277	-1	1.721	-1	6.211	-1	1796	42	2.1
48447.6	10000	41.3694	93.8048	-1004	QKA	1.8	-1	6.3	-1	1.1	0	0.280	-1	1.561	-1	5.643	-1	1815	41	2.1
48447.7	10000	41.3694	93.8039	-1007	QKA	2.1	-1	6.4	-1	1.2	1	0.322	0	1.779	-1	5.522	-1	1846	51	2.1
48447.8	10000	41.3694	93.8030	-1009	QKA	2.2	0	6.4	-1	1.2	1	0.350	0	1.882	-1	5.376	-2	1871	34	2.1
48447.9	10000	41.3694	93.8021	-1011	QKA	2.4	0	6.7	-1	1.1	0	0.355	0	2.101	0	5.914	-1	1884	59	2.1
48448.0	10000	41.3695	93.8013	-1014	QKA	2.2	0	7.2	0	1.2	1	0.313	0	1.942	-1	6.210	-1	1895	54	2.2
48448.1	10000	41.3695	93.8004	-1016	QKA	2.2	0	6.8	0	1.2	1	0.323	0	1.918	-1	5.936	-1	1903	47	2.2
48448.2	10000	41.3695	93.7995	-1018	QKA	2.5	0	6.8	0	1.1	0	0.362	0	2.182	0	6.036	-1	1897	39	2.2
48448.3	10000	41.3695	93.7986	-1021	QKA	2.6	0	6.9	0	1.1	0	0.378	0	2.368	0	6.266	-1	1903	51	2.2
48448.4	10000	41.3695	93.7977	-1022	QKA	2.5	0	6.8	0	1.1	0	0.364	0	2.306	0	6.340	0	1910	57	2.2
48448.5	10000	41.3695	93.7968	-1024	QKA	2.5	0	7.1	0	1.0	0	0.355	0	2.419	0	6.822	0	1919	40	2.2
48448.6	10000	41.3695	93.7959	-1026	QKA	2.6	0	7.1	0	1.0	0	0.361	0	2.511	1	6.952	0	1925	50	2.2
48448.7	10000	41.3696	93.7951	-1028	QKA	2.8	-1	7.3	0	1.0	-1	0.386	1	2.877	1	7.458	1	1935	52	2.2
48448.8	10000	41.3696	93.7942	-1030	QKA	3.0	-1	7.5	1	1.0	-1	0.401	1	3.066	2	7.643	1	1977	45	2.2
48448.9	10000	41.3696	93.7933	-1032	QKA	2.8	-1	7.9	1	1.0	0	0.355	0	2.731	1	7.684	1	2014	54	2.2
48449.0	10000	41.3696	93.7924	-1033	QKA	3.1	-2	8.2	1	1.1	0	0.383	1	2.938	1	7.678	1	2072	40	2.3
48449.1	10000	41.3696	93.7915	-1035	QKA	3.3	-1	8.1	1	1.1	0	0.402	1	3.124	2	7.766	1	2094	51	2.3
48449.2	10000	41.3696	93.7906	-1036	QKA	3.4	-1	8.1	1	1.1	1	0.417	1	3.165	2	7.582	1	2119	43	2.3
48449.3	10000	41.3696	93.7897	-1038	QKA	3.4	-1	8.5	1	1.2	1	0.403	1	2.955	2	7.336	1	2158	52	2.3
48449.4	10000	41.3697	93.7889	-1040	QKA	3.7	-1	8.2	1	1.2	1	0.455	1	3.009	2	6.614	0	2199	47	2.3
48449.5	10000	41.3697	93.7880	-1042	QKA	3.9	-1	8.2	1	1.2	1	0.479	1	3.166	2	6.608	0	2211	37	2.3
48449.6	10000	41.3697	93.7871	-1043	QKA	4.1	-1	8.0	1	1.2	1	0.508	1	3.409	2	6.704	0	2214	50	2.3
48449.7	10000	41.3697	93.7862	-1045	QKA	3.8	-1	8.1	1	1.2	1	0.467	1	3.163	2	6.767	0	2202	44	2.3
48449.8	10000	41.3697	93.7853	-1046	QKA	3.8	-2	8.2	1	1.3	1	0.465	1	3.032	2	6.524	0	2218	49	2.3
48449.9	10000	41.3697	93.7844	-1048	QKA	3.9	-2	7.9	1	1.3	1	0.492	1	3.116	2	6.330	0	2216	41	2.3
48450.0	10000	41.3697	93.7836	-1049	QKA	3.9	-2	7.5	1	1.2	1	0.518	1	3.200	2	6.179	-1	2201	32	2.3
48450.1	10000	41.3697	93.7827	-1051	QKA	3.7	-2	7.6	1	1.3	1	0.489	1	2.967	1	6.070	-1	2188	41	2.3
48450.2	10000	41.3698	93.7818	-1052	QKA	3.6	-2	7.4	1	1.3	1	0.477	1	2.835	1	5.940	-1	2176	43	2.3
48450.3	10000	41.3698	93.7809	-1053	QKA	3.4	-2	7.6	1	1.3	1	0.452	1	2.686	1	5.940	-1	2161	39	2.3
48450.4	10000	41.3698	93.7800	-1054	QKA	3.4	-2	7.4	1	1.2	1	0.454	1	2.690	1	5.927	-1	2151	38	2.4
48450.5	10000	41.3698	93.7791	-1055	QKA	3.2	-2	7.4	1	1.3	1	0.425	1	2.583	1	6.086	-1	2120	50	2.4
48450.6	10000	41.3698	93.7782	-1056	QKA	2.9	-2	7.6	1	1.3	1	0.384	1	2.379	1	6.188	-1	2114	41	2.4
48450.7	10000	41.3698	93.7774	-1058	QKA	2.9	-2	7.5	1	1.3	1	0.388	1	2.319	1	5.978	-1	2117	47	2.4
48450.8	10000	41.3698	93.7765	-1060	QKA	2.8	-2	7.2	1	1.3	1	0.392	1	2.246	1	5.722	-1	2116	38	2.4
48450.9	10000	41.3698	93.7756	-1061	QAL	2.5	-2	6.8	1	1.3	1	0.375	1	2.008	-1	5.349	-1	2107	40	2.4
48451.0	10000	41.3698	93.7747	-1062	QAL	2.7	-2	6.7	1	1.3	1	0.387	1	2.075	1	5.357	-1	2108	42	2.4
48451.1	10000	41.3698	93.7739	-1063	QAL	2.6	-1	6.5	1	1.3	1	0.409	1	2.112	1	5.166	-1	2109	38	2.4
48451.2	10000	41.3698	93.7730	-1064	QAL	2.6	-1	6.1	0	1.3	1	0.424	1	2.045	1	4.816	-2	2132	40	2.4
48451.3	10000	41.3698	93.7721	-1065	QAL	2.7	-1	5.8	-1	1.3	2	0.474	1	2.088	0	4.403	-2	2142	44	2.4

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48451.4	10000	41.3698	93.7713	-1066	QAL	2.5	0	5.9	-1	1.3	2	0.421	0	1.848	-1	4.390	-2	2153	37	2.4
48451.5	10000	41.3698	93.7704	-1067	QAL	2.7	0	6.2	0	1.3	1	0.432	1	2.064	0	4.776	-2	2164	43	2.4
48451.6	10000	41.3698	93.7695	-1068	QAL	3.0	1	6.9	0	1.3	1	0.431	1	2.362	0	5.487	-1	2187	50	2.3
48451.7	10000	41.3698	93.7686	-1068	QAL	3.0	1	7.1	1	1.3	1	0.431	1	2.376	0	5.515	-1	2207	53	2.3
48451.8	10000	41.3698	93.7678	-1069	QAL	3.1	1	7.3	1	1.3	1	0.420	1	2.393	0	5.693	-1	2223	39	2.3
48451.9	10000	41.3698	93.7669	-1071	QAL	3.2	1	7.8	1	1.3	1	0.407	1	2.495	0	6.129	0	2206	53	2.3
48452.0	10000	41.3698	93.7660	-1072	QAL	3.2	1	7.9	1	1.2	1	0.409	1	2.647	1	6.480	0	2202	34	2.3
48452.1	10000	41.3698	93.7652	-1073	QAL	3.5	2	8.5	2	1.2	1	0.414	1	3.038	1	7.339	2	2207	32	2.3
48452.2	10000	41.3698	93.7643	-1074	QAL	3.2	1	8.6	2	1.1	0	0.378	1	2.827	1	7.483	2	2184	38	2.3
48452.3	10000	41.3697	93.7634	-1075	QAL	3.3	2	8.4	2	1.1	0	0.391	1	2.898	1	7.416	2	2182	33	2.3
48452.4	10000	41.3697	93.7625	-1076	QAL	3.1	1	8.2	2	1.1	0	0.376	0	2.764	1	7.343	2	2173	35	2.3
48452.5	10000	41.3697	93.7617	-1077	QAL	3.3	2	7.6	1	1.1	0	0.430	1	2.904	1	6.754	1	2168	42	2.3
48452.6	10000	41.3697	93.7608	-1078	QAL	3.4	2	7.7	1	1.1	0	0.448	1	3.079	1	6.872	1	2167	44	2.3
48452.7	10000	41.3697	93.7599	-1079	QAL	3.5	2	7.8	1	1.1	0	0.449	1	3.212	2	7.150	1	2167	51	2.3
48452.8	10000	41.3697	93.7590	-1080	QAL	3.5	2	7.2	1	1.1	0	0.485	2	3.225	2	6.651	1	2152	44	2.3
48452.9	10000	41.3697	93.7582	-1081	QAL	3.9	3	7.4	1	1.1	0	0.534	2	3.655	2	6.846	1	2155	51	2.3
48453.0	10000	41.3697	93.7573	-1081	QAL	3.8	2	7.4	1	1.2	1	0.521	2	3.308	2	6.349	0	2152	47	2.3
48453.1	10000	41.3697	93.7564	-1082	QAL	3.8	2	7.7	1	1.2	1	0.487	1	3.258	2	6.686	1	2142	48	2.3
48453.2	10000	41.3697	93.7556	-1083	QAL	3.6	2	8.4	2	1.2	1	0.435	1	3.145	2	7.237	1	2128	43	2.3
48453.3	10000	41.3697	93.7547	-1084	QAL	3.5	2	7.9	1	1.2	1	0.446	1	3.029	1	6.795	1	2123	39	2.3
48453.4	10000	41.3697	93.7538	-1085	QAL	3.3	2	7.7	1	1.2	1	0.436	1	2.759	1	6.321	0	2108	48	2.3
48453.5	10000	41.3697	93.7529	-1086	QAL	3.1	1	7.7	1	1.3	1	0.399	0	2.449	1	6.134	0	2111	37	2.3
48453.6	10000	41.3697	93.7521	-1087	QAL	3.1	1	7.6	1	1.2	1	0.401	0	2.461	0	6.140	0	2097	48	2.3
48453.7	10000	41.3697	93.7512	-1088	QAL	3.1	1	7.7	1	1.2	1	0.401	0	2.614	1	6.520	1	2079	43	2.2
48453.8	10000	41.3697	93.7503	-1088	QAL	3.6	2	7.2	1	1.2	1	0.499	1	3.014	1	6.037	1	2089	61	2.2
48453.9	10000	41.3697	93.7495	-1089	QAL	3.5	2	6.9	0	1.2	1	0.510	1	2.946	1	5.772	0	2084	36	2.2
48454.0	10000	41.3697	93.7486	-1090	QAL	3.4	2	7.2	1	1.2	1	0.471	1	2.911	1	6.178	0	2094	35	2.2
48454.1	10000	41.3696	93.7477	-1091	QAL	3.6	2	7.6	1	1.2	1	0.469	1	3.042	1	6.488	0	2113	44	2.2
48454.2	10000	41.3696	93.7468	-1092	QAL	3.7	2	7.4	1	1.1	0	0.496	1	3.258	2	6.571	1	2097	38	2.2
48454.3	10000	41.3696	93.7460	-1093	QAL	3.5	2	7.3	1	1.2	1	0.483	1	3.025	1	6.260	0	2081	36	2.2
48454.4	10000	41.3696	93.7451	-1093	QAL	3.6	2	7.6	1	1.2	1	0.527	1	3.123	2	5.928	0	2072	59	2.2
48454.5	10000	41.3696	93.7442	-1094	QAL	3.1	1	6.7	1	1.1	1	0.457	1	2.752	1	6.020	0	2024	36	2.2
48454.6	10000	41.3696	93.7433	-1094	QAL	3.1	2	6.8	1	1.1	1	0.458	1	2.807	1	6.124	0	2004	46	2.2
48454.7	10000	41.3696	93.7425	-1092	QAL	3.5	2	6.6	1	1.1	1	0.535	2	3.201	2	5.986	0	1979	54	2.2
48454.8	10000	41.3696	93.7416	-1089	QAL	3.5	2	6.4	1	1.1	1	0.564	2	3.206	1	5.688	-1	1953	41	2.1
48454.9	10000	41.3696	93.7407	-1088	QAL	3.2	1	6.4	1	1.1	1	0.509	1	2.933	1	5.762	0	1941	39	2.1
48455.0	10000	41.3696	93.7399	-1094	QAL	3.0	1	6.4	1	1.1	1	0.475	1	2.672	1	5.625	-1	1957	42	2.1
48455.1	10000	41.3696	93.7390	-1098	QAL	2.9	1	6.5	1	1.2	1	0.456	1	2.304	1	5.493	-1	1971	40	2.1
48455.2	10000	41.3696	93.7381	-1098	QAL	3.2	1	6.6	1	1.2	1	0.485	1	2.545	1	5.242	-1	2009	42	2.1
48455.3	10000	41.3696	93.7372	-1098	QAL	3.0	1	6.8	1	1.2	1	0.439	1	2.403	1	5.474	-1	2027	37	2.1
48455.4	10000	41.3696	93.7364	-1098	QAL	2.9	1	7.2	1	1.2	1	0.398	1	2.227	1	5.590	-1	2045	43	2.1
48455.5	10000	41.3696	93.7355	-1099	QAL	2.6	1	7.2	1	1.2	1	0.358	0	2.018	-1	5.634	-1	2053	42	2.1
48455.6	10000	41.3696	93.7346	-1100	QAL	2.5	1	7.4	1	1.2	1	0.343	0	2.039	0	5.948	0	2080	37	2.1
48455.7	10000	41.3696	93.7337	-1101	QAL	2.7	1	7.4	1	1.2	1	0.366	0	2.190	0	5.979	0	2093	51	2.0
48455.8	10000	41.3696	93.7329	-1102	QAL	2.8	1	8.0	2	1.2	1	0.351	0	2.282	0	6.494	0	2086	47	2.0
48455.9	10000	41.3696	93.7320	-1102	QAL	2.6	1	7.9	1	1.1	1	0.326	-1	2.284	0	7.001	1	2056	42	2.0
48456.0	10000	41.3695	93.7311	-1103	QAL	2.7	1	7.5	1	1.1	1	0.361	0	2.393	1	6.635	1	2029	56	2.0
48456.1	10000	41.3695	93.7303	-1103	QAL	2.6	1	7.1	1	1.1	0	0.371	0	2.429	1	6.538	1	1996	45	2.0
48456.2	10000	41.3695	93.7294	-1103	QAL	2.7	1	7.2	1	1.1	0	0.373	0	2.636	1	7.075	1	1930	37	2.0
48456.3	10000	41.3695	93.7285	-1104	QAL	2.8	1	7.0	1	1.0	0	0.392	1	2.783	1	7.096	1	1842	51	2.0
48456.4	10000	41.3695	93.7276	-1104	QAL	2.7	1	6.3	-1	0.9	-1	0.427	1	2.866	1	6.711	1	1752	45	2.0
48456.5	10000	41.3695	93.7268	-1104	QAL	2.3	0	5.9	-1	0.9	-1	0.400	0	2.605	1	6.511	0	1677	44	2.0

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48456.6	10000	41.3695	93.7259	-1105	QAL	2.5	0	5.9	-1	0.9	-1	0.416	0	2.700	1	6.489	0	1639	48	1.9
48456.7	10000	41.3695	93.7250	-1105	QAL	2.4	0	5.6	-1	0.9	-1	0.423	0	2.610	1	6.169	0	1602	28	1.9
48456.8	10000	41.3695	93.7242	-1106	QAL	2.1	-1	5.6	-1	0.9	-1	0.376	0	2.315	0	6.160	0	1576	44	1.9
48456.9	10000	41.3695	93.7233	-1106	QAL	2.0	-1	5.6	-1	1.0	-1	0.366	0	2.091	0	5.707	-1	1586	40	1.9
48457.0	10000	41.3695	93.7224	-1106	QAL	2.0	-1	5.1	-1	1.0	-1	0.384	0	1.992	-1	5.183	-1	1590	47	1.9
48457.1	10000	41.3695	93.7215	-1106	QAL	1.9	-1	5.4	-1	1.0	0	0.343	0	1.815	-1	5.292	-1	1616	45	1.9
48457.2	10000	41.3695	93.7207	-1106	QAL	2.0	-1	5.3	-1	1.1	0	0.381	0	1.883	-1	4.946	-2	1645	40	1.9
48457.3	10000	41.3695	93.7198	-1106	QAL	1.9	-1	4.9	-2	1.1	0	0.396	0	1.813	-1	4.581	-2	1664	44	1.9
48457.4	10000	41.3695	93.7189	-1106	QAL	2.1	-1	5.5	-1	1.1	0	0.381	0	1.848	-1	4.847	-2	1708	44	1.8
48457.5	10000	41.3695	93.7180	-1106	QAL	2.1	-1	5.3	-1	1.1	1	0.398	0	1.832	-1	4.600	-2	1733	48	1.8
48457.6	10000	41.3695	93.7172	-1106	QAL	2.4	0	5.2	-1	1.2	1	0.457	1	2.013	-1	4.407	-2	1755	42	1.8
48457.7	10000	41.3695	93.7163	-1107	QAL	2.6	0	5.5	-1	1.2	1	0.471	1	2.166	0	4.599	-2	1800	38	1.8
48457.8	10000	41.3695	93.7154	-1106	QAL	2.6	0	5.7	-1	1.2	1	0.454	1	2.173	0	4.784	-2	1832	58	1.8
48457.9	10000	41.3694	93.7146	-1101	QAL	2.5	0	5.7	-1	1.3	1	0.435	1	1.996	-1	4.584	-2	1864	40	1.8
48458.0	10000	41.3694	93.7137	-1101	QAL	2.5	0	6.4	0	1.3	1	0.398	1	2.007	-1	5.048	-1	1883	42	1.8
48458.1	10000	41.3694	93.7128	-1105	QAL	2.3	0	6.6	0	1.2	1	0.346	0	1.873	-1	5.405	-1	1869	54	1.8
48458.2	10000	41.3694	93.7119	-1106	QAL	2.5	0	6.9	0	1.2	1	0.362	0	2.014	-1	5.569	-1	1876	44	1.8
48458.3	10000	41.3694	93.7111	-1106	QAL	2.3	0	7.2	1	1.2	1	0.326	-1	1.919	-1	5.883	0	1869	39	1.7
48458.4	10000	41.3694	93.7102	-1105	QAL	2.4	0	7.4	1	1.2	1	0.322	-1	1.931	-1	5.992	0	1860	50	1.7
48458.5	10000	41.3694	93.7093	-1105	QAL	2.5	0	7.4	1	1.2	1	0.333	-1	2.009	-1	6.034	0	1850	40	1.7
48458.6	10000	41.3694	93.7085	-1105	QAL	2.6	0	7.5	1	1.2	1	0.342	0	2.186	0	6.397	0	1847	46	1.7
48458.7	10000	41.3694	93.7076	-1105	QAL	2.6	0	7.2	1	1.2	1	0.362	0	2.118	0	5.848	0	1856	40	1.7
48458.8	10000	41.3694	93.7067	-1104	QAL	2.7	0	6.8	0	1.3	1	0.398	0	2.123	0	5.339	-1	1864	36	1.7
48458.9	10000	41.3694	93.7058	-1104	QAL	2.6	0	6.5	0	1.3	1	0.401	0	2.034	-1	5.067	-1	1856	51	1.7
48459.0	10000	41.3694	93.7050	-1104	QAL	2.6	0	6.6	0	1.3	1	0.399	0	2.107	0	5.286	-1	1865	38	1.7
48459.1	10000	41.3694	93.7041	-1103	QAL	2.5	0	6.3	0	1.3	1	0.392	0	1.956	-1	4.989	-1	1861	45	1.7
48459.2	10000	41.3694	93.7032	-1103	QAL	2.6	0	6.7	0	1.2	1	0.396	0	2.130	0	5.375	-1	1882	33	1.7
48459.3	10000	41.3694	93.7023	-1103	QAL	2.6	0	6.9	0	1.2	1	0.373	0	2.055	0	5.503	-1	1889	50	1.7
48459.4	10000	41.3694	93.7015	-1102	QAL	2.6	0	7.1	1	1.2	1	0.366	0	2.104	0	5.752	0	1887	41	1.6
48459.5	10000	41.3694	93.7006	-1101	QAL	2.7	0	7.2	1	1.2	1	0.377	0	2.197	0	5.828	0	1896	38	1.6
48459.6	10000	41.3694	93.6997	-1101	QAL	2.8	0	7.5	1	1.3	1	0.372	0	2.153	0	5.782	0	1897	56	1.6
48459.7	10000	41.3694	93.6989	-1102	QAL	2.7	0	7.1	1	1.3	1	0.383	0	2.043	-1	5.339	-1	1895	44	1.6
48459.8	10000	41.3694	93.6980	-1102	QKA	2.7	0	7.1	1	1.3	1	0.375	0	2.036	-2	5.428	-2	1899	45	1.6
48459.9	10000	41.3693	93.6971	-1102	QKA	2.6	0	6.9	1	1.3	0	0.372	-1	1.919	-2	5.165	-2	1900	41	1.6
48460.0	10000	41.3693	93.6962	-1102	QKA	2.6	0	6.9	1	1.3	-1	0.386	-1	1.972	-2	5.105	-2	1888	35	1.6
48460.1	10000	41.3693	93.6954	-1102	QKA	2.7	0	7.0	1	1.4	0	0.392	0	2.008	-2	5.118	-2	1900	48	1.6
48460.2	10000	41.3693	93.6945	-1102	QKA	2.7	0	6.9	1	1.3	0	0.400	0	2.086	-2	5.218	-2	1902	48	1.6
48460.3	10000	41.3693	93.6936	-1101	QKA	2.5	0	7.1	1	1.3	-1	0.356	-1	1.961	-1	5.507	-1	1930	43	1.6
48460.4	10000	41.3693	93.6927	-1101	QKA	2.6	0	7.5	1	1.3	0	0.347	0	2.087	-1	6.013	-1	1939	30	1.6
48460.5	10000	41.3693	93.6919	-1100	QKA	2.8	0	7.8	1	1.3	0	0.351	0	2.203	-1	6.272	-1	1956	50	1.6
48460.6	10000	41.3693	93.6910	-1099	QKA	2.4	0	7.9	1	1.2	0	0.306	-1	1.979	-1	6.458	0	1949	41	1.6
48460.7	10000	41.3693	93.6901	-1099	QKA	2.3	0	8.2	1	1.2	-1	0.285	-1	1.945	-1	6.820	0	1937	36	1.6
48460.8	10000	41.3693	93.6893	-1098	QKA	2.3	0	7.9	1	1.1	-1	0.294	-1	2.028	0	6.893	0	1908	32	1.6
48460.9	10000	41.3693	93.6884	-1099	QKA	2.2	0	8.2	1	1.1	-1	0.266	-1	1.974	-1	7.408	1	1886	48	1.6
48461.0	10000	41.3693	93.6875	-1098	QKA	2.2	0	8.4	1	1.1	-1	0.263	-1	2.071	0	7.885	1	1851	48	1.6
48461.1	10000	41.3693	93.6866	-1098	QKA	2.3	0	8.3	1	1.1	-1	0.274	-1	2.144	0	7.830	1	1833	40	1.6
48461.2	10000	41.3693	93.6858	-1098	QKA	2.2	0	8.1	1	1.1	-1	0.268	-1	2.100	0	7.837	1	1818	52	1.5
48461.3	10000	41.3693	93.6849	-1097	QKA	2.5	0	8.0	1	1.1	0	0.310	0	2.368	0	7.633	1	1796	40	1.5
48461.4	10000	41.3692	93.6840	-1096	QKA	2.6	0	7.9	1	1.1	0	0.331	0	2.481	0	7.494	1	1818	51	1.5
48461.5	10000	41.3692	93.6832	-1096	QKA	2.6	0	7.9	1	1.2	0	0.325	0	2.267	0	6.980	0	1838	42	1.5
48461.6	10000	41.3692	93.6823	-1095	QKA	2.6	0	7.9	1	1.2	0	0.332	0	2.194	0	6.613	0	1863	52	1.5
48461.7	10000	41.3692	93.6814	-1094	QKA	2.8	1	7.9	1	1.2	1	0.351	0	2.263	0	6.453	0	1896	42	1.5

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48461.8	10000	41.3692	93.6805	-1093	QKA	2.7	1	8.3	1	1.2	1	0.330	0	2.199	0	6.656	0	1928	36	1.6
48461.9	10000	41.3692	93.6797	-1092	QKA	2.7	1	8.2	1	1.3	2	0.322	0	2.041	0	6.339	0	1935	41	1.6
48462.0	10000	41.3692	93.6788	-1091	QKA	2.7	1	8.2	1	1.3	2	0.329	0	2.083	0	6.325	0	1953	39	1.6
48462.1	10000	41.3692	93.6779	-1091	QKA	2.5	0	8.0	1	1.3	2	0.316	0	1.902	-1	6.016	-1	1943	39	1.6
48462.2	10000	41.3692	93.6770	-1091	QKA	2.4	0	8.3	1	1.3	2	0.295	-1	1.862	-1	6.315	0	1930	35	1.6
48462.3	10000	41.3692	93.6762	-1091	QKA	2.3	0	7.5	1	1.2	1	0.304	0	1.842	-1	6.067	-1	1892	39	1.6
48462.4	10000	41.3692	93.6753	-1090	QKA	2.3	0	7.7	1	1.2	1	0.301	-1	1.906	-1	6.321	0	1851	36	1.6
48462.5	10000	41.3692	93.6744	-1089	QKA	2.1	-1	7.6	1	1.2	1	0.270	-1	1.693	-1	6.277	-1	1806	39	1.6
48462.6	10000	41.3692	93.6736	-1087	QKA	2.0	-1	7.5	1	1.1	0	0.269	-1	1.838	-1	6.825	0	1766	37	1.6
48462.7	10000	41.3692	93.6727	-1087	QKA	1.9	-1	7.6	1	1.0	0	0.249	-1	1.807	-1	7.261	1	1719	36	1.6
48462.8	10000	41.3692	93.6718	-1085	QKA	1.9	-1	7.5	0	1.0	-1	0.249	-1	1.911	-1	7.677	1	1688	50	1.6
48462.9	10000	41.3692	93.6709	-1084	QKA	1.8	-1	7.4	0	0.9	-1	0.240	-1	1.985	-1	8.274	2	1666	53	1.6
48463.0	10000	41.3692	93.6701	-1083	QKA	2.0	-1	8.3	1	1.0	-1	0.237	-1	2.057	0	8.663	2	1685	38	1.6
48463.1	10000	41.3692	93.6692	-1082	QKA	1.9	-1	8.2	1	0.9	-1	0.227	-2	1.971	-1	8.671	2	1692	31	1.6
48463.2	10000	41.3692	93.6683	-1081	QKA	1.9	-1	8.0	1	0.9	-1	0.240	-1	2.067	0	8.598	2	1704	46	1.6
48463.3	10000	41.3691	93.6674	-1080	QKA	2.0	-1	7.7	1	1.0	-1	0.255	-1	2.055	0	8.055	2	1722	37	1.6
48463.4	10000	41.3691	93.6666	-1080	QKA	2.2	0	7.9	1	1.0	0	0.277	-1	2.156	0	7.796	1	1763	31	1.6
48463.5	10000	41.3691	93.6657	-1079	QKA	2.3	0	8.1	1	1.0	0	0.288	-1	2.240	0	7.775	1	1784	43	1.6
48463.6	10000	41.3691	93.6648	-1078	QKA	2.2	0	8.1	1	1.1	0	0.270	-1	2.047	0	7.570	1	1788	46	1.6
48463.7	10000	41.3691	93.6640	-1077	QKA	2.4	0	7.6	1	1.0	0	0.311	0	2.256	0	7.251	1	1774	38	1.6
48463.8	10000	41.3691	93.6631	-1076	QKA	2.3	0	7.2	0	1.1	0	0.317	0	2.052	0	6.470	0	1769	47	1.6
48463.9	10000	41.3691	93.6622	-1076	QKA	2.6	0	7.2	1	1.2	1	0.359	0	2.244	0	6.245	-1	1762	45	1.6
48464.0	10000	41.3691	93.6613	-1075	QKA	2.7	1	7.3	0	1.2	1	0.369	0	2.239	0	6.071	-1	1760	38	1.7
48464.1	10000	41.3691	93.6605	-1074	QKA	2.5	0	6.7	-1	1.2	1	0.380	1	2.208	0	5.818	-1	1739	34	1.7
48464.2	10000	41.3691	93.6596	-1073	QKA	2.5	1	6.4	-1	1.2	1	0.397	1	2.156	0	5.438	-2	1734	29	1.7
48464.3	10000	41.3691	93.6587	-1072	QKA	2.9	1	6.3	-1	1.2	1	0.451	2	2.437	0	5.407	-2	1753	41	1.7
48464.4	10000	41.3691	93.6579	-1072	QKA	2.8	1	6.0	-2	1.1	1	0.472	2	2.457	0	5.204	-2	1780	52	1.7
48464.5	10000	41.3691	93.6570	-1071	QKA	2.9	1	6.1	-1	1.1	0	0.480	2	2.637	1	5.495	-1	1796	26	1.7
48464.6	10000	41.3691	93.6561	-1070	QKA	2.8	1	6.1	-1	1.1	0	0.463	2	2.629	1	5.677	-1	1803	46	1.7
48464.7	10000	41.3691	93.6552	-1069	QKA	2.9	1	6.3	-1	1.0	-1	0.467	2	2.900	1	6.212	-1	1805	53	1.7
48464.8	10000	41.3691	93.6544	-1069	QKA	3.0	1	6.5	-1	1.0	-1	0.464	2	3.023	2	6.512	0	1811	37	1.7
48464.9	10000	41.3690	93.6535	-1069	QKA	3.0	1	6.6	-1	1.0	-1	0.455	2	3.114	2	6.846	0	1821	40	1.7
48465.0	10000	41.3690	93.6526	-1069	QKA	2.8	1	7.1	0	1.0	-1	0.400	2	2.911	1	7.287	1	1825	46	1.7
48465.1	10000	41.3690	93.6517	-1068	QKA	2.6	1	7.4	0	1.0	0	0.349	2	2.446	1	7.006	0	1831	47	1.7
48465.2	10000	41.3690	93.6509	-1068	QKA	2.5	1	7.2	0	1.1	0	0.341	2	2.309	1	6.771	0	1832	33	1.8
48465.3	10000	41.3690	93.6500	-1067	QKA	2.5	1	7.1	0	1.1	0	0.348	2	2.243	1	6.441	0	1842	33	1.8
48465.4	10000	41.3690	93.6491	-1066	QKA	2.3	0	7.6	1	1.2	1	0.309	2	2.019	0	6.543	0	1858	40	1.8
48465.5	10000	41.3690	93.6483	-1066	QKA	2.0	-1	7.6	1	1.2	1	0.265	-1	1.694	-1	6.384	0	1871	45	1.8
48465.6	10000	41.3690	93.6474	-1065	QKA	2.2	0	8.0	1	1.3	1	0.272	-1	1.742	-1	6.401	0	1886	48	1.8
48465.7	10000	41.3690	93.6465	-1065	QKA	2.2	0	7.6	1	1.2	1	0.293	-1	1.778	-1	6.066	-1	1873	37	1.8
48465.8	10000	41.3690	93.6456	-1065	QKA	2.3	0	7.6	1	1.2	1	0.297	-1	1.916	-1	6.447	0	1822	39	1.8
48465.9	10000	41.3690	93.6448	-1064	QKA	2.4	0	7.6	1	1.1	1	0.310	0	2.123	0	6.853	0	1801	27	1.8
48466.0	10000	41.3690	93.6439	-1064	QKA	2.5	0	7.7	1	1.1	1	0.321	0	2.239	0	6.976	0	1799	45	1.8
48466.1	10000	41.3690	93.6430	-1065	QKA	2.6	1	7.4	0	1.1	1	0.353	0	2.412	1	6.840	0	1802	41	1.8
48466.2	10000	41.3690	93.6422	-1064	QKA	2.9	1	7.6	1	1.1	1	0.380	0	2.713	1	7.141	1	1816	37	1.9
48466.3	10000	41.3690	93.6413	-1064	QKA	2.7	1	7.5	0	1.1	0	0.359	0	2.636	1	7.334	1	1826	50	1.9
48466.4	10000	41.3690	93.6405	-1064	QKA	2.6	1	7.5	0	1.1	0	0.350	0	2.518	1	7.204	1	1868	41	1.9
48466.5	10000	41.3690	93.6396	-1064	QKA	2.7	1	7.9	1	1.1	1	0.340	0	2.438	1	7.171	1	1930	42	1.9
48466.6	10000	41.3690	93.6388	-1064	QKA	2.8	1	7.8	1	1.2	1	0.353	0	2.384	1	6.758	1	1964	37	1.9
48466.7	10000	41.3690	93.6380	-1064	QKA	2.7	1	7.6	1	1.2	1	0.356	0	2.265	1	6.359	0	1982	30	1.9
48466.8	10000	41.3690	93.6372	-1065	QKA	2.7	1	7.6	1	1.2	1	0.350	0	2.145	1	6.134	-1	2001	33	1.9
48466.9	10000	41.3691	93.6364	-1065	QKA	2.4	0	7.4	0	1.3	1	0.324	0	1.924	-1	5.939	-1	2004	32	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48467.0	10000	41.3691	93.6356	-1066	QKA	2.5	0	7.5	1	1.3	1	0.332	0	1.961	-1	5.904	-1	2007	37	1.9
48467.1	10000	41.3691	93.6348	-1066	QKA	2.7	1	7.4	1	1.3	1	0.369	0	2.188	0	5.933	-1	1995	44	2.0
48467.2	10000	41.3691	93.6339	-1066	QKA	2.8	1	7.2	1	1.2	1	0.382	0	2.263	0	5.919	-1	1990	39	2.0
48467.3	10000	41.3691	93.6331	-1067	QKA	2.7	1	7.2	1	1.2	1	0.379	0	2.237	0	5.908	-1	2006	42	2.0
48467.4	10000	41.3692	93.6323	-1068	QKA	2.8	1	7.3	1	1.2	1	0.379	0	2.297	0	6.057	-1	2011	43	2.0
48467.5	10000	41.3692	93.6315	-1069	QKA	2.8	1	7.2	1	1.2	1	0.384	0	2.319	0	6.047	-1	2010	39	2.0
48467.6	10000	41.3692	93.6307	-1069	QKA	2.9	1	7.5	0	1.2	1	0.383	0	2.383	0	6.225	-1	2020	55	2.0
48467.7	10000	41.3692	93.6299	-1070	QKA	2.9	1	7.6	1	1.2	1	0.379	1	2.416	0	6.369	0	2030	34	2.0
48467.8	10000	41.3692	93.6290	-1071	QKA	2.6	0	7.7	1	1.2	1	0.343	0	2.193	0	6.402	0	2032	49	2.0
48467.9	10000	41.3692	93.6282	-1071	QKA	2.7	1	7.8	1	1.2	1	0.354	0	2.297	0	6.497	0	2019	43	2.0
48468.0	10000	41.3693	93.6274	-1072	QKA	3.0	1	7.8	1	1.1	0	0.386	0	2.676	1	6.935	0	2011	38	2.1
48468.1	10000	41.3693	93.6266	-1073	QKA	2.9	1	8.2	1	1.0	0	0.360	0	2.805	1	7.796	1	1997	42	2.1
48468.2	10000	41.3693	93.6258	-1074	QKA	2.9	1	8.2	1	1.0	-1	0.354	0	2.890	1	8.165	2	1980	43	2.1
48468.3	10000	41.3693	93.6250	-1075	QKA	3.0	1	7.9	1	1.0	-1	0.381	1	3.051	2	8.005	2	1955	33	2.1
48468.4	10000	41.3693	93.6241	-1076	QKA	3.1	1	7.7	1	1.0	-1	0.401	1	3.220	2	8.030	2	1946	38	2.1
48468.5	10000	41.3693	93.6233	-1076	QKA	3.2	2	7.7	1	1.0	-1	0.412	1	3.233	2	7.847	1	1937	53	2.1
48468.6	10000	41.3694	93.6225	-1077	QKA	2.9	1	7.7	1	1.0	0	0.372	1	2.852	1	7.660	1	1949	40	2.1
48468.7	10000	41.3694	93.6217	-1078	QKA	2.6	0	7.7	1	1.0	0	0.334	0	2.482	0	7.427	1	1954	34	2.1
48468.8	10000	41.3694	93.6209	-1079	QKA	2.7	1	7.7	1	1.1	0	0.345	0	2.506	1	7.254	1	1956	49	2.1
48468.9	10000	41.3694	93.6201	-1080	QKA	2.7	1	7.6	1	1.1	0	0.355	0	2.502	1	7.040	1	1954	45	2.1
48469.0	10000	41.3694	93.6192	-1080	QKA	2.7	1	7.6	1	1.1	0	0.359	0	2.483	1	6.925	0	1971	49	2.2
48469.1	10000	41.3694	93.6184	-1081	QKA	2.8	1	7.3	1	1.1	0	0.378	1	2.492	1	6.589	0	1972	44	2.2
48469.2	10000	41.3695	93.6176	-1082	QKA	2.8	1	7.5	1	1.1	0	0.380	1	2.642	1	6.952	0	1985	34	2.2
48469.3	10000	41.3695	93.6168	-1083	QKA	3.2	2	7.5	1	1.0	0	0.431	1	3.097	2	7.183	1	2004	33	2.2
48469.4	10000	41.3695	93.6160	-1082	QKA	3.4	2	7.9	1	1.1	0	0.423	1	3.180	2	7.510	1	2027	43	2.2
48469.5	10000	41.3695	93.6152	-1084	QKA	3.2	2	7.5	1	1.1	0	0.435	1	2.892	1	6.647	0	2075	55	2.2
48469.6	10000	41.3695	93.6143	-1085	QKA	3.2	2	7.7	1	1.2	1	0.410	1	2.741	1	6.686	0	2140	40	2.2
48469.7	10000	41.3696	93.6135	-1086	QKA	3.2	2	7.6	1	1.2	1	0.420	1	2.800	1	6.660	0	2158	52	2.2
48469.8	10000	41.3696	93.6127	-1087	QKA	2.9	1	8.1	1	1.2	1	0.358	1	2.524	1	7.052	0	2167	36	2.2
48469.9	10000	41.3696	93.6119	-1087	QKA	3.0	2	8.3	1	1.2	1	0.362	1	2.579	1	7.122	1	2156	51	2.2
48470.0	10000	41.3696	93.6111	-1088	QKA	2.7	1	8.8	1	1.2	1	0.324	1	2.297	1	7.080	0	2146	51	2.2
48470.1	10000	41.3696	93.6103	-1088	QKA	2.5	1	8.1	1	1.2	1	0.305	1	2.158	1	7.077	0	2108	37	2.2
48470.2	10000	41.3696	93.6095	-1089	QKA	2.5	1	8.4	1	1.2	1	0.296	1	2.221	1	7.505	1	2063	50	2.2
48470.3	10000	41.3696	93.6086	-1089	QKA	2.3	1	8.0	1	1.1	1	0.286	1	2.109	0	7.363	1	2001	55	2.2
48470.4	10000	41.3697	93.6078	-1090	QKA	2.1	-1	8.1	1	1.1	1	0.260	-1	1.909	-1	7.333	1	1964	40	2.2
48470.5	10000	41.3697	93.6070	-1091	QKA	2.1	-1	7.6	1	1.1	1	0.270	-1	1.844	-1	6.839	1	1933	40	2.2
48470.6	10000	41.3697	93.6062	-1092	QKA	1.8	-1	7.0	1	1.1	1	0.259	-1	1.675	-1	6.458	1	1916	45	2.2
48470.7	10000	41.3697	93.6054	-1092	QKA	2.0	-1	7.3	1	1.1	1	0.270	-1	1.826	-1	6.763	1	1897	42	2.2
48470.8	10000	41.3697	93.6046	-1092	QKA	2.1	-1	8.0	1	1.1	1	0.305	0	1.915	-1	6.271	-1	1902	49	2.2
48470.9	10000	41.3698	93.6037	-1092	QKA	2.0	-1	8.9	1	1.1	1	0.286	-1	1.749	-1	6.127	-1	1895	39	2.2
48471.0	10000	41.3698	93.6029	-1092	QKA	2.0	-1	7.5	1	1.1	1	0.271	-1	1.795	-1	6.621	0	1900	51	2.2
48471.1	10000	41.3698	93.6021	-1093	QKA	2.2	-1	7.3	1	1.1	1	0.300	-1	1.934	-1	6.449	0	1911	45	2.2
48471.2	10000	41.3698	93.6013	-1093	QKA	2.3	-1	7.6	1	1.2	1	0.304	0	1.998	-1	6.565	0	1940	34	2.2
48471.3	10000	41.3698	93.6005	-1093	QKA	2.3	-1	7.7	1	1.2	1	0.294	-1	1.366	-1	6.348	0	1952	47	2.2
48471.4	10000	41.3698	93.5997	-1094	QKA	2.1	-1	7.3	1	1.2	1	0.289	-1	1.722	-1	5.966	-1	1966	39	2.2
48471.5	10000	41.3699	93.5988	-1094	QKA	2.0	-1	7.5	1	1.2	1	0.264	-1	1.614	-1	6.123	-1	1966	50	2.2
48471.6	10000	41.3699	93.5980	-1094	QKA	2.1	-1	7.5	1	1.2	1	0.285	-1	1.742	-1	6.112	-1	1991	40	2.2
48471.7	10000	41.3699	93.5972	-1094	QKA	2.3	-1	7.1	1	1.3	1	0.325	0	1.857	-1	5.714	-1	1997	51	2.2
48471.8	10000	41.3699	93.5964	-1093	QKA	2.3	-1	7.2	1	1.3	1	0.315	0	1.784	-1	5.672	-1	1995	39	2.2
48471.9	10000	41.3699	93.5956	-1094	QKA	2.4	-1	6.9	1	1.2	1	0.347	0	1.947	-1	5.607	-1	1981	47	2.2
48472.0	10000	41.3699	93.5948	-1094	QKA	2.4	0	7.3	1	1.2	1	0.331	0	2.085	0	6.293	0	1981	52	2.2
48472.1	10000	41.3699	93.5939	-1092	QKA	2.6	0	7.4	0	1.2	1	0.355	0	2.291	0	6.449	0	1960	40	2.3

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48472.2	10000	41.3700	93.5931	-1092	QKA	2.7	1	7.0	0	1.1	0	0.379	1	2.415	0	6.378	0	1933	30	2.3
48472.3	10000	41.3700	93.5923	-1094	QKA	2.5	0	6.8	0	1.0	0	0.370	0	2.444	0	6.614	0	1857	42	2.3
48472.4	10000	41.3700	93.5915	-1095	QKA	2.4	0	6.7	-1	0.9	-1	0.352	0	2.579	1	7.329	1	1810	31	2.3
48472.5	10000	41.3700	93.5907	-1096	QKA	2.5	0	6.7	-1	0.8	-2	0.367	0	2.961	1	8.063	2	1791	33	2.3
48472.6	10000	41.3700	93.5898	-1096	QKA	2.6	1	6.9	0	0.8	-2	0.381	1	3.441	2	9.021	3	1777	35	2.3
48472.7	10000	41.3701	93.5890	-1096	QKA	2.8	1	6.7	-1	0.8	-2	0.426	1	3.417	2	8.012	2	1789	47	2.3
48472.8	10000	41.3701	93.5882	-1096	QKA	2.9	1	6.5	-1	0.9	-1	0.452	2	3.345	2	7.393	1	1816	41	2.3
48472.9	10000	41.3701	93.5874	-1096	QKA	2.7	1	6.8	0	0.9	-1	0.393	1	2.924	1	7.437	1	1836	52	2.3
48473.0	10000	41.3701	93.5866	-1094	QK	2.9	1	7.1	0	1.0	-1	0.412	1	2.921	1	7.092	1	1891	50	2.3
48473.1	10000	41.3701	93.5858	-1087	QK	3.0	1	7.1	0	1.1	0	0.418	1	2.637	1	6.315	0	1927	45	2.3
48473.2	10000	41.3701	93.5849	-1070	QK	2.7	0	7.1	0	1.2	1	0.374	0	2.231	0	5.959	-1	1956	47	2.3
48473.3	10000	41.3702	93.5841	-1053	QK	2.5	0	7.0	0	1.2	1	0.352	0	1.971	-1	5.608	-1	1975	42	2.3
48473.4	10000	41.3702	93.5833	-1055	QK	2.4	0	7.3	0	1.2	1	0.334	0	1.970	-1	5.892	-1	1967	45	2.3
48473.5	10000	41.3702	93.5825	-1073	QK	2.1	-1	7.8	1	1.3	1	0.265	-1	1.650	-1	6.224	0	1968	54	2.3
48473.6	10000	41.3702	93.5817	-1089	QK	2.1	-1	7.8	1	1.2	1	0.271	-1	1.726	-1	6.358	0	1980	47	2.3
48473.7	10000	41.3702	93.5809	-1096	QK	2.2	-1	8.1	1	1.3	1	0.276	-1	1.762	-1	6.389	0	1998	29	2.3
48473.8	10000	41.3702	93.5800	-1097	QK	2.1	-1	7.9	1	1.2	1	0.267	-1	1.761	-1	6.600	0	2009	47	2.3
48473.9	10000	41.3703	93.5792	-1098	QK	2.5	0	8.2	1	1.2	0	0.311	-1	2.171	0	6.982	1	2011	44	2.3
48474.0	10000	41.3703	93.5784	-1099	QK	2.5	0	8.5	1	1.2	0	0.307	-1	2.129	0	6.942	1	2003	46	2.2
48474.1	10000	41.3703	93.5776	-1099	QK	2.4	0	7.7	1	1.2	1	0.317	0	2.050	0	6.473	0	2007	52	2.2
48474.2	10000	41.3703	93.5768	-1099	QK	2.7	0	7.1	0	1.1	0	0.384	0	2.432	0	6.336	0	1994	47	2.2
48474.3	10000	41.3703	93.5760	-1099	QK	3.1	1	6.9	0	1.1	0	0.447	1	2.676	1	5.992	-1	1994	41	2.2
48474.4	10000	41.3703	93.5751	-1098	QK	2.9	1	6.5	-1	1.1	0	0.453	1	2.675	1	5.903	-1	1984	45	2.2
48474.5	10000	41.3704	93.5743	-1098	QK	3.1	1	6.9	0	1.1	0	0.443	1	2.773	1	6.255	0	1999	35	2.2
48474.6	10000	41.3704	93.5735	-1097	QK	2.7	1	7.0	0	1.1	0	0.379	0	2.385	0	6.288	0	1997	45	2.2
48474.7	10000	41.3704	93.5727	-1097	QK	2.7	0	7.1	0	1.1	0	0.381	0	2.483	0	6.524	0	2019	38	2.2
48474.8	10000	41.3704	93.5719	-1096	QK	3.3	2	7.5	0	1.1	-1	0.441	1	3.209	2	7.277	1	2023	34	2.2
48474.9	10000	41.3704	93.5711	-1096	QK	3.1	1	7.5	0	1.1	0	0.409	1	2.841	1	6.943	1	2026	45	2.2
48475.0	10000	41.3704	93.5703	-1096	QK	2.8	1	7.4	0	1.1	0	0.374	0	2.551	1	6.821	0	2023	43	2.2
48475.1	10000	41.3705	93.5694	-1097	QK	2.7	1	7.8	0	1.1	0	0.342	0	2.567	1	7.498	1	2019	51	2.2
48475.2	10000	41.3705	93.5686	-1097	QK	2.5	0	7.4	0	1.1	0	0.337	0	2.328	1	6.918	0	1993	46	2.1
48475.3	10000	41.3705	93.5678	-1098	QK	2.4	0	7.0	0	1.1	0	0.341	0	2.183	0	6.399	0	1965	43	2.1
48475.4	10000	41.3705	93.5670	-1097	QK	2.0	-1	6.8	-1	1.1	-1	0.288	-1	1.784	-2	6.202	-1	1934	40	2.1
48475.5	10000	41.3705	93.5662	-1096	QK	1.4	-2	6.8	-1	1.2	-2	0.211	-2	1.217	-2	5.772	-2	1922	44	2.1
48475.6	10000	41.3705	93.5654	-1095	QK	1.7	-2	6.8	-1	1.1	-1	0.246	-1	1.518	-2	6.181	-1	1891	49	2.1
48475.7	10000	41.3705	93.5645	-1095	QK	1.8	-1	6.9	0	1.1	-1	0.266	-1	1.729	-1	6.500	0	1860	40	2.1
48475.8	10000	41.3706	93.5637	-1095	QK	1.7	-2	6.7	-1	1.0	-1	0.251	-1	1.621	-1	6.460	0	1827	38	2.1
48475.9	10000	41.3706	93.5629	-1095	QK	1.9	-1	6.5	-1	1.0	-1	0.293	-1	1.960	-1	6.682	0	1801	41	2.1
48476.0	10000	41.3706	93.5621	-1095	QK	2.2	-1	6.6	-1	0.9	-2	0.328	0	2.361	0	7.190	1	1794	47	2.1
48476.1	10000	41.3706	93.5613	-1094	QK	2.5	0	6.6	-1	1.0	-1	0.380	0	2.590	0	6.819	0	1782	45	2.0
48476.2	10000	41.3706	93.5605	-1094	QK	2.5	0	6.4	-1	0.9	-2	0.398	0	2.748	0	6.901	0	1772	40	2.0
48476.3	10000	41.3707	93.5596	-1094	QK	2.3	0	6.9	0	1.0	-1	0.335	0	2.352	0	7.029	1	1772	47	2.0
48476.4	10000	41.3707	93.5588	-1095	QK	2.2	-1	6.9	0	1.0	-1	0.313	-1	2.101	0	6.718	0	1773	49	2.0
48476.5	10000	41.3707	93.5580	-1096	QK	2.2	-1	6.7	-1	1.0	-1	0.329	0	2.129	0	6.478	0	1770	49	2.0
48476.6	10000	41.3707	93.5572	-1097	QK	2.3	0	7.0	0	1.1	0	0.327	0	2.163	0	6.618	0	1776	45	2.0
48476.7	10000	41.3707	93.5564	-1097	QK	2.2	-1	6.8	-1	1.1	-1	0.325	0	2.042	0	6.289	0	1763	53	2.0
48476.8	10000	41.3707	93.5556	-1094	QK	2.3	-1	6.8	-1	1.0	-1	0.340	0	2.209	0	6.496	0	1773	50	2.0
48476.9	10000	41.3708	93.5547	-1090	QK	2.3	-1	6.7	-1	1.0	-1	0.338	0	2.181	0	6.455	0	1769	51	2.0
48477.0	10000	41.3708	93.5539	-1091	QK	2.7	-2	6.1	-1	1.0	-1	0.448	1	2.638	1	5.890	-1	1784	52	1.9
48477.1	10000	41.3708	93.5531	-1096	QK	2.8	-1	6.2	-1	1.1	-1	0.447	1	2.654	1	5.934	-1	1806	43	1.9
48477.2	10000	41.3708	93.5523	-1096	QK	3.1	1	6.4	-1	1.1	0	0.480	1	2.780	1	5.793	-1	1834	51	1.9
48477.3	10000	41.3708	93.5515	-1095	QK	2.9	1	6.4	-1	1.1	0	0.462	2	2.693	1	5.835	-1	1861	42	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48477.4	10000	41.3708	93.5507	-1094	QK	3.0	1	6.5	-1	1.2	0	0.467	2	2.586	1	5.539	-1	1905	45	1.9
48477.5	10000	41.3708	93.5499	-1093	QK	2.8	1	6.4	-1	1.2	0	0.440	1	2.423	0	5.503	-1	1929	50	1.9
48477.6	10000	41.3709	93.5490	-1092	QK	2.9	1	6.5	-1	1.2	1	0.456	1	2.482	0	5.449	-1	1956	42	1.9
48477.7	10000	41.3709	93.5482	-1092	QK	2.5	0	6.9	0	1.2	1	0.363	0	2.076	0	5.713	-1	1965	40	1.9
48477.8	10000	41.3709	93.5474	-1091	QK	2.8	1	7.0	0	1.2	1	0.397	1	2.310	0	5.827	-1	1982	44	1.9
48477.9	10000	41.3709	93.5466	-1091	QK	2.8	1	7.3	0	1.2	1	0.382	0	2.305	0	6.038	-1	1987	45	1.9
48478.0	10000	41.3709	93.5458	-1090	QK	2.9	1	7.3	0	1.2	1	0.402	1	2.355	0	5.855	-1	1982	45	1.8
48478.1	10000	41.3709	93.5450	-1090	QK	2.7	0	7.7	0	1.2	1	0.356	0	2.205	0	6.196	0	1972	44	1.8
48478.2	10000	41.3710	93.5441	-1089	QK	2.5	0	7.8	1	1.2	1	0.326	0	2.082	0	6.385	0	1949	49	1.8
48478.3	10000	41.3710	93.5433	-1087	QK	2.5	0	7.8	1	1.2	1	0.319	0	2.029	-1	6.357	0	1917	33	1.8
48478.4	10000	41.3710	93.5425	-1083	QK	2.5	0	7.6	1	1.2	1	0.328	0	2.024	-1	6.165	0	1894	45	1.8
48478.5	10000	41.3710	93.5417	-1074	QK	2.1	-1	7.3	1	1.2	1	0.296	-1	1.748	-1	5.907	-1	1860	39	1.8
48478.6	10000	41.3710	93.5409	-1060	QK	2.2	-1	7.0	1	1.2	1	0.311	-1	1.793	-1	5.765	-1	1845	36	1.8
48478.7	10000	41.3711	93.5401	-1057	QK	2.1	-1	7.4	1	1.2	1	0.281	-1	1.721	-1	6.134	0	1845	37	1.8
48478.8	10000	41.3711	93.5392	-1073	QK	2.5	0	7.0	0	1.2	1	0.355	0	2.122	0	5.981	-1	1847	28	1.8
48478.9	10000	41.3711	93.5384	-1090	QK	2.8	1	6.9	-1	1.3	2	0.416	1	2.255	0	5.424	-2	1862	41	1.8
48479.0	10000	41.3711	93.5376	-1094	QK	2.7	0	6.9	0	1.3	2	0.391	1	2.091	0	5.349	-2	1881	40	1.8
48479.1	10000	41.3711	93.5368	-1089	QK	2.9	1	7.3	0	1.3	2	0.401	1	2.194	0	5.472	-1	1907	49	1.8
48479.2	10000	41.3711	93.5360	-1080	QK	3.1	1	7.5	0	1.4	2	0.412	1	2.291	0	5.555	-1	1942	48	1.8
48479.3	10000	41.3712	93.5351	-1076	QK	2.8	1	7.6	0	1.4	2	0.366	0	2.004	-1	5.471	-1	1971	42	1.8
48479.4	10000	41.3712	93.5343	-1076	QK	2.8	1	7.3	0	1.4	2	0.388	1	2.025	-1	5.226	-2	1971	56	1.8
48479.5	10000	41.3712	93.5335	-1076	QK	2.6	1	7.4	0	1.4	2	0.355	0	1.889	-1	5.313	-2	1977	51	1.8
48479.6	10000	41.3712	93.5327	-1077	QK	2.5	1	7.7	0	1.4	2	0.324	0	1.809	-1	5.586	-1	1976	44	1.7
48479.7	10000	41.3712	93.5319	-1077	QK	2.4	1	7.9	0	1.4	2	0.308	-1	1.778	-1	5.775	-1	1982	43	1.7
48479.8	10000	41.3712	93.5311	-1078	QK	2.4	1	8.0	0	1.3	2	0.308	-1	1.823	-1	5.928	-1	1977	50	1.7
48479.9	10000	41.3712	93.5302	-1078	QK	2.3	0	7.8	0	1.3	2	0.299	-1	1.757	-1	5.876	-1	1962	39	1.7
48480.0	10000	41.3713	93.5294	-1078	QK	2.5	0	7.7	1	1.3	1	0.329	0	2.009	-1	6.112	-1	1936	45	1.7
48480.1	10000	41.3713	93.5286	-1079	QK	2.3	0	7.5	1	1.3	1	0.311	-1	1.833	-1	5.900	-1	1940	53	1.7
48480.2	10000	41.3713	93.5278	-1079	QK	2.3	-1	7.9	0	1.3	1	0.286	-1	1.748	-1	6.114	-1	1938	35	1.7
48480.3	10000	41.3713	93.5270	-1079	QK	2.4	0	7.8	0	1.2	1	0.307	-1	1.925	-1	6.273	0	1940	46	1.7
48480.4	10000	41.3713	93.5262	-1079	QK	2.5	0	7.4	0	1.2	1	0.337	0	2.065	0	6.134	0	1935	39	1.7
48480.5	10000	41.3713	93.5253	-1079	QK	2.5	0	7.4	0	1.2	1	0.335	0	2.051	0	6.115	0	1928	44	1.7
48480.6	10000	41.3714	93.5245	-1079	QK	2.6	0	7.7	1	1.2	1	0.338	0	2.170	0	6.421	0	1923	51	1.7
48480.7	10000	41.3714	93.5237	-1079	QK	2.7	0	7.7	1	1.3	1	0.353	0	2.176	0	6.169	0	1931	29	1.7
48480.8	10000	41.3714	93.5229	-1078	QK	2.7	0	8.2	1	1.2	1	0.368	0	2.416	0	6.571	0	1951	37	1.7
48480.9	10000	41.3714	93.5221	-1078	QK	2.7	0	7.7	1	1.2	1	0.419	0	2.655	0	6.331	0	1954	52	1.7
48481.0	10000	41.3714	93.5213	-1078	QK	2.6	0	7.9	1	1.3	1	0.394	0	2.472	0	6.276	0	1954	32	1.7
48481.1	10000	41.3714	93.5204	-1078	QK	2.7	0	8.0	1	1.3	1	0.411	0	2.584	0	6.287	0	1960	50	1.7
48481.2	10000	41.3715	93.5196	-1077	QK	2.7	0	7.9	1	1.3	1	0.428	0	2.666	0	6.231	0	1965	41	1.7
48481.3	10000	41.3715	93.5188	-1077	QK	2.6	0	7.6	1	1.3	1	0.456	1	2.785	0	6.103	-1	1981	46	1.7
48481.4	10000	41.3715	93.5180	-1076	QK	2.5	0	7.5	1	1.3	1	0.444	1	2.663	0	5.996	-1	1995	38	1.7
48481.5	10000	41.3715	93.5171	-1075	QK	2.4	0	7.4	1	1.3	1	0.432	1	2.610	0	6.044	-1	1962	43	1.7
48481.6	10000	41.3715	93.5163	-1074	QK	2.4	0	7.3	1	1.3	2	0.409	1	2.502	0	6.115	-1	1955	44	1.7
48481.7	10000	41.3715	93.5154	-1074	QK	2.3	0	7.6	1	1.3	2	0.389	1	2.542	0	6.527	0	1943	43	1.7
48481.8	10000	41.3715	93.5146	-1073	QK	2.3	0	7.6	1	1.3	2	0.371	1	2.488	0	6.690	0	1931	44	1.7
48481.9	10000	41.3715	93.5137	-1073	QK	2.3	0	7.7	1	1.3	2	0.361	1	2.445	0	6.766	0	1921	44	1.7
48482.0	10000	41.3716	93.5129	-1072	QK	2.4	0	7.5	1	1.3	2	0.373	1	2.491	0	6.681	0	1895	54	1.7
48482.1	10000	41.3716	93.5120	-1072	QK	2.4	0	7.6	1	1.3	2	0.359	1	2.502	0	7.194	0	1869	41	1.7
48482.2	10000	41.3716	93.5112	-1072	QK	2.3	0	7.3	1	1.3	2	0.387	1	2.628	0	6.791	0	1859	50	1.7
48482.3	10000	41.3716	93.5103	-1071	QK	2.4	0	7.5	1	1.3	2	0.362	1	2.568	0	7.096	0	1845	46	1.7
48482.4	10000	41.3716	93.5095	-1071	QK	2.7	1	7.0	0	1.3	2	0.377	1	2.584	0	6.861	0	1837	54	1.7
48482.5	10000	41.3716	93.5086	-1070	QK	2.8	1	7.1	0	1.3	2	0.390	1	2.694	1	6.912	1	1832	45	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48482.6	10000	41.3716	93.5078	-1070	QK	2.7	0	6.8	-1	1.1	0	0.399	1	2.559	1	6.418	0	1827	48	1.7
48482.7	10000	41.3716	93.5069	-1069	QK	2.6	0	6.8	-1	1.1	0	0.381	0	2.261	0	5.930	-1	1848	48	1.8
48482.8	10000	41.3716	93.5061	-1069	QK	2.6	0	6.8	-1	1.1	0	0.383	0	2.290	0	5.984	-1	1857	54	1.8
48482.9	10000	41.3717	93.5052	-1068	QK	2.8	1	7.0	0	1.1	0	0.397	1	2.468	0	6.214	0	1886	56	1.8
48483.0	10000	41.3717	93.5044	-1067	QK	2.1	1	7.2	0	1.2	0	0.431	1	2.624	1	6.093	-1	1907	39	1.8
48483.1	10000	41.3717	93.5036	-1066	QK	2.3	2	7.0	0	1.2	0	0.463	2	2.825	1	6.103	-1	1935	36	1.8
48483.2	10000	41.3717	93.5027	-1065	QK	2.4	2	6.7	-1	1.2	0	0.513	2	2.983	2	5.809	-1	1965	41	1.8
48483.3	10000	41.3717	93.5019	-1065	QK	2.8	3	7.6	1	1.2	0	0.497	2	3.288	2	6.620	0	2023	50	1.8
48483.4	10000	41.3717	93.5010	-1065	QK	2.7	2	8.0	1	1.1	0	0.466	2	3.469	3	7.450	1	2052	37	1.8
48483.5	10000	41.3717	93.5002	-1064	QK	2.8	3	8.2	1	1.1	0	0.456	1	3.401	2	7.455	1	2088	42	1.8
48483.6	10000	41.3717	93.4993	-1064	QK	2.7	2	8.6	2	1.1	0	0.426	1	3.414	2	8.021	2	2118	33	1.8
48483.7	10000	41.3717	93.4985	-1064	QK	2.7	2	9.0	2	1.1	0	0.410	1	3.412	2	8.318	3	2153	35	1.8
48483.8	10000	41.3717	93.4976	-1064	QK	2.6	2	9.1	3	1.1	0	0.401	1	3.226	2	8.053	2	2185	45	1.8
48483.9	10000	41.3718	93.4968	-1064	QK	2.3	2	8.8	3	1.2	0	0.355	1	2.863	1	8.057	2	2205	37	1.8
48484.0	10000	41.3718	93.4959	-1064	QK	2.3	2	8.7	3	1.2	1	0.372	0	2.725	1	7.334	1	2202	43	1.8
48484.1	10000	41.3718	93.4951	-1064	QK	2.3	2	8.5	3	1.2	1	0.383	0	2.670	1	6.974	1	2186	37	1.8
48484.2	10000	41.3718	93.4942	-1064	QK	2.4	2	8.1	3	1.2	1	0.400	1	2.756	1	6.889	1	2178	43	1.8
48484.3	10000	41.3718	93.4934	-1064	QK	2.3	2	7.8	3	1.2	1	0.403	1	2.621	1	6.501	0	2153	38	1.8
48484.4	10000	41.3718	93.4925	-1064	QK	2.3	2	7.8	3	1.3	1	0.418	1	2.603	1	6.228	0	2138	51	1.8
48484.5	10000	41.3718	93.4917	-1064	QK	2.3	2	7.8	3	1.3	1	0.427	1	2.617	1	6.128	-1	2128	60	1.8
48484.6	10000	41.3718	93.4908	-1063	QK	2.5	2	7.8	2	1.2	1	0.443	1	2.796	1	6.317	0	2111	43	1.8
48484.7	10000	41.3718	93.4900	-1063	QK	2.5	2	7.6	2	1.2	1	0.460	2	2.946	1	6.401	0	2079	38	1.8
48484.8	10000	41.3719	93.4891	-1063	QK	2.7	2	7.6	2	1.2	1	0.485	2	3.160	2	6.518	0	2082	44	1.8
48484.9	10000	41.3719	93.4883	-1063	QK	2.7	2	7.6	2	1.2	1	0.482	2	3.188	2	6.608	0	2071	45	1.8
48485.0	10000	41.3719	93.4874	-1063	QK	2.7	2	7.6	2	1.2	1	0.490	2	3.150	2	6.429	0	2072	50	1.8
48485.1	10000	41.3719	93.4866	-1063	QK	2.7	2	7.7	2	1.1	1	0.496	2	3.250	2	6.551	0	2044	46	1.8
48485.2	10000	41.3719	93.4857	-1062	QK	2.8	3	7.7	3	1.1	1	0.518	2	3.506	3	6.770	0	2011	49	1.8
48485.3	10000	41.3719	93.4849	-1062	QK	2.4	2	7.3	2	1.1	1	0.469	2	3.005	2	6.406	0	1983	30	1.8
48485.4	10000	41.3719	93.4840	-1062	QK	2.4	2	7.5	2	1.1	1	0.448	1	2.976	1	6.639	0	1993	40	1.8
48485.5	10000	41.3719	93.4832	-1062	QK	2.2	1	7.7	1	1.1	1	0.416	1	2.783	1	6.692	0	1973	42	1.8
48485.6	10000	41.3719	93.4823	-1061	QK	2.1	1	7.1	0	1.1	1	0.430	1	2.704	1	6.284	0	1942	43	1.8
48485.7	10000	41.3720	93.4815	-1061	QK	2.2	1	6.8	-1	1.2	2	0.472	2	2.868	2	6.075	-1	1938	41	1.8
48485.8	10000	41.3720	93.4807	-1060	QK	2.1	1	6.8	-1	1.2	2	0.463	2	2.715	2	5.866	-1	1922	40	1.8
48485.9	10000	41.3720	93.4798	-1060	QK	2.0	1	6.5	-1	1.1	2	0.463	2	2.640	2	5.700	-1	1901	47	1.8
48486.0	10000	41.3720	93.4790	-1059	QK	2.1	1	6.4	-1	1.1	2	0.490	2	2.949	2	6.016	-1	1882	36	1.8
48486.1	10000	41.3720	93.4781	-1058	QK	2.7	1	6.2	-1	1.1	2	0.436	2	2.462	2	5.644	-1	1870	48	1.8
48486.2	10000	41.3720	93.4772	-1057	QK	2.6	1	6.2	-1	1.1	2	0.423	1	2.457	2	5.807	-1	1850	38	1.9
48486.3	10000	41.3720	93.4764	-1057	QK	2.6	1	6.6	-1	1.1	2	0.390	1	2.288	2	5.864	-1	1868	50	1.9
48486.4	10000	41.3720	93.4756	-1057	QK	2.6	1	6.7	-1	1.1	2	0.386	1	2.302	2	5.961	-1	1870	44	1.9
48486.5	10000	41.3720	93.4747	-1056	QK	2.7	1	6.7	-1	1.1	2	0.399	1	2.339	2	5.857	-1	1884	48	1.9
48486.6	10000	41.3720	93.4739	-1056	QK	2.7	1	7.0	0	1.2	2	0.390	1	2.357	2	6.043	-1	1919	48	1.9
48486.7	10000	41.3721	93.4730	-1055	QK	2.9	1	7.3	0	1.2	2	0.403	1	2.482	2	6.166	0	1963	43	1.9
48486.8	10000	41.3721	93.4722	-1054	QK	3.1	2	7.8	1	1.2	2	0.396	1	2.632	2	6.649	0	1985	34	1.9
48486.9	10000	41.3721	93.4713	-1053	QK	3.3	2	7.7	1	1.2	2	0.428	1	2.703	2	6.312	0	2008	50	1.9
48487.0	10000	41.3721	93.4705	-1052	QK	3.5	2	7.8	1	1.2	2	0.453	1	2.972	2	6.556	0	2016	35	1.9
48487.1	10000	41.3721	93.4696	-1051	QK	3.3	2	7.9	1	1.2	2	0.417	1	2.737	2	6.565	0	2023	25	1.9
48487.2	10000	41.3721	93.4688	-1051	QK	3.1	2	8.2	1	1.3	2	0.376	1	2.428	2	6.465	0	2062	37	1.9
48487.3	10000	41.3721	93.4679	-1050	QK	3.3	2	8.6	1	1.3	2	0.382	1	2.448	2	6.401	0	2087	45	1.9
48487.4	10000	41.3721	93.4671	-1049	QK	3.4	2	8.2	1	1.4	2	0.414	1	2.524	2	6.097	-1	2127	41	1.9
48487.5	10000	41.3721	93.4662	-1047	QK	3.5	2	7.9	1	1.4	2	0.447	1	2.583	2	5.784	-1	2162	38	1.9
48487.6	10000	41.3722	93.4654	-1047	QK	3.6	2	8.2	1	1.4	2	0.433	1	2.575	2	5.945	-1	2200	52	1.9
48487.7	10000	41.3722	93.4645	-1046	QK	3.6	2	8.0	1	1.4	2	0.455	1	2.603	1	5.720	-1	2249	49	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48487.8	10000	41.3722	93.4637	-1045	QK	3.9	3	8.3	1	1.4	2	0.470	2	2.868	1	6.098	-1	2278	38	1.9
48487.9	10000	41.3722	93.4628	-1044	QK	3.9	3	8.3	1	1.3	2	0.473	2	2.942	1	6.215	0	2269	39	1.9
48488.0	10000	41.3722	93.4620	-1044	QK	3.8	3	8.2	1	1.3	2	0.459	1	2.878	1	6.271	0	2235	39	1.9
48488.1	10000	41.3722	93.4611	-1043	QK	3.4	2	8.0	1	1.3	1	0.427	1	2.679	1	6.268	0	2175	46	1.9
48488.2	10000	41.3722	93.4603	-1042	QK	3.3	2	7.6	1	1.2	1	0.432	1	2.654	1	6.146	0	2123	42	1.9
48488.3	10000	41.3722	93.4594	-1042	QK	3.1	1	7.1	1	1.2	1	0.434	1	2.527	1	5.821	-1	2077	30	1.9
48488.4	10000	41.3722	93.4586	-1041	QK	2.8	1	7.5	1	1.2	1	0.370	0	2.281	0	6.161	0	2019	41	1.9
48488.5	10000	41.3722	93.4577	-1040	QK	2.6	0	7.2	1	1.3	1	0.353	0	1.972	-1	5.589	-1	1979	28	1.9
48488.6	10000	41.3723	93.4569	-1039	QK	2.5	0	7.0	1	1.3	1	0.352	0	1.899	-1	5.402	-2	1949	43	1.9
48488.7	10000	41.3723	93.4561	-1039	QK	2.4	0	7.2	2	1.3	2	0.332	0	1.822	-1	5.482	-1	1935	38	1.9
48488.8	10000	41.3723	93.4552	-1039	QK	2.2	-1	7.3	2	1.3	2	0.307	-1	1.677	-1	5.454	-1	1933	46	1.9
48488.9	10000	41.3723	93.4544	-1037	QK	2.2	-1	7.5	2	1.3	2	0.290	-1	1.638	-1	5.639	-1	1925	43	1.9
48489.0	10000	41.3723	93.4535	-1037	QK	2.1	-1	7.8	2	1.3	2	0.264	-1	1.538	-2	5.838	-1	1918	37	1.9
48489.1	10000	41.3723	93.4527	-1036	QK	1.9	-1	7.5	2	1.3	2	0.253	-1	1.451	-2	5.728	-1	1907	44	1.9
48489.2	10000	41.3723	93.4518	-1037	QK	1.8	-1	8.3	1	1.2	1	0.221	-2	1.459	-2	6.591	0	1906	43	1.9
48489.3	10000	41.3723	93.4510	-1037	QK	1.8	-1	8.5	1	1.2	1	0.215	-2	1.497	-2	6.974	1	1912	38	1.9
48489.4	10000	41.3723	93.4501	-1036	QK	2.1	-1	8.5	1	1.2	1	0.245	-1	1.708	-1	6.968	1	1935	43	1.9
48489.5	10000	41.3723	93.4493	-1035	QK	2.3	0	8.5	2	1.2	1	0.271	-1	1.907	-1	7.037	1	1946	32	1.9
48489.6	10000	41.3724	93.4484	-1034	QK	2.2	-1	9.0	2	1.2	1	0.249	-1	1.813	-1	7.291	1	1966	44	1.9
48489.7	10000	41.3724	93.4476	-1033	QK	2.4	0	8.9	2	1.2	0	0.266	-1	2.000	-1	7.525	1	1969	41	1.9
48489.8	10000	41.3724	93.4467	-1032	QK	2.5	0	8.7	2	1.2	1	0.282	-1	2.068	0	7.342	1	1977	29	1.9
48489.9	10000	41.3724	93.4459	-1031	QK	2.5	0	8.1	1	1.2	1	0.308	-1	2.050	0	6.663	0	1982	49	1.9
48490.0	10000	41.3724	93.4450	-1029	QK	2.6	0	7.7	1	1.2	1	0.333	0	2.086	0	6.268	0	1967	33	1.9
48490.1	10000	41.3724	93.4442	-1024	QK	2.3	0	7.5	0	1.2	1	0.310	-1	1.866	-1	6.020	-1	1957	44	1.9
48490.2	10000	41.3724	93.4433	-1014	QK	2.2	-1	7.4	1	1.2	1	0.298	-1	1.808	-1	6.072	-1	1942	45	1.9
48490.3	10000	41.3724	93.4425	-1017	QK	2.3	-1	7.1	1	1.2	1	0.324	-1	1.889	-1	5.838	-1	1930	49	2.0
48490.4	10000	41.3724	93.4416	-1026	QK	2.3	-1	7.1	1	1.2	1	0.322	-1	1.832	-1	5.694	-1	1931	48	2.0
48490.5	10000	41.3725	93.4408	-1027	QK	2.3	-1	7.4	1	1.2	1	0.310	-1	1.856	-1	5.980	-1	1919	37	2.0
48490.6	10000	41.3725	93.4399	-1026	QK	2.3	-1	7.2	1	1.2	1	0.312	-1	1.897	-1	6.078	-1	1900	29	2.0
48490.7	10000	41.3725	93.4391	-1024	QK	2.3	-1	7.5	1	1.2	1	0.311	-1	1.963	-1	6.308	0	1906	35	2.0
48490.8	10000	41.3725	93.4382	-1023	QK	2.2	-1	7.4	1	1.2	1	0.300	-1	1.822	-1	6.081	-1	1892	49	2.0
48490.9	10000	41.3725	93.4374	-1023	QK	2.2	-1	7.3	1	1.2	1	0.304	-1	1.828	-1	6.021	-1	1894	47	2.0
48491.0	10000	41.3725	93.4365	-1024	QK	2.5	0	7.2	1	1.2	1	0.342	0	1.990	-1	5.821	-1	1888	44	2.0
48491.1	10000	41.3725	93.4357	-1022	QK	2.4	0	7.3	1	1.2	1	0.334	0	1.972	-1	5.911	-1	1884	43	2.0
48491.2	10000	41.3725	93.4348	-1021	QAL	2.5	0	6.9	1	1.3	1	0.358	0	1.946	-1	5.439	-1	1879	51	2.0
48491.3	10000	41.3725	93.4340	-1022	QAL	2.5	0	7.0	1	1.3	1	0.355	0	2.024	-1	5.695	-1	1862	39	2.0
48491.4	10000	41.3725	93.4332	-1021	QAL	2.5	0	6.9	1	1.2	1	0.364	0	2.113	0	5.808	0	1822	35	2.0
48491.5	10000	41.3726	93.4323	-1021	QAL	2.6	0	6.8	1	1.1	1	0.382	0	2.385	0	6.240	0	1766	41	2.0
48491.6	10000	41.3726	93.4315	-1021	QAL	2.6	0	6.5	1	1.1	0	0.393	0	2.375	0	6.037	0	1714	43	2.0
48491.7	10000	41.3726	93.4306	-1021	QAL	2.3	0	6.4	1	1.1	0	0.361	0	2.312	0	6.410	0	1689	41	2.0
48491.8	10000	41.3726	93.4297	-1022	QAL	2.3	0	5.9	1	1.1	0	0.400	0	2.381	0	5.954	0	1670	42	2.1
48491.9	10000	41.3726	93.4289	-1022	QAL	2.3	0	6.1	1	1.1	0	0.402	0	2.565	0	6.386	0	1680	44	2.1
48492.0	10000	41.3726	93.4281	-1021	QAL	2.3	0	6.0	1	1.1	0	0.384	0	2.222	0	5.787	0	1702	46	2.1
48492.1	10000	41.3726	93.4272	-1021	QAL	2.2	0	5.9	1	1.1	0	0.371	0	2.181	0	5.883	0	1739	37	2.1
48492.2	10000	41.3726	93.4264	-1020	QAL	2.2	0	6.2	1	1.1	0	0.358	0	2.065	0	5.773	0	1802	57	2.1
48492.3	10000	41.3726	93.4255	-1020	QAL	2.1	0	6.9	1	1.1	0	0.310	-1	1.962	-1	6.319	0	1860	38	2.1
48492.4	10000	41.3727	93.4247	-1021	QAL	2.2	0	7.2	1	1.1	0	0.310	-1	1.886	-1	6.087	0	1908	38	2.1
48492.5	10000	41.3727	93.4238	-1021	QAL	2.3	0	7.4	1	1.1	0	0.319	-1	1.971	-1	6.185	0	1938	49	2.1
48492.6	10000	41.3727	93.4230	-1021	QAL	2.3	0	7.3	1	1.1	0	0.314	-1	1.975	-1	6.281	0	1946	55	2.1
48492.7	10000	41.3727	93.4221	-1022	QAL	2.7	1	7.7	1	1.1	0	0.349	-1	2.388	0	6.850	1	1962	31	2.1
48492.8	10000	41.3727	93.4213	-1021	QAL	2.7	1	7.6	1	1.1	0	0.356	-1	2.449	0	6.883	1	1954	50	2.1
48492.9	10000	41.3727	93.4204	-1019	QAL	2.9	1	7.9	1	1.1	0	0.369	0	2.707	1	7.333	2	1946	61	2.1

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48493.0	10000	41.3727	93.4196	-1016	QK	3.0	1	7.9	1	1.0	-1	0.377	0	2.834	1	7.511	1	1941	51	2.1
48493.1	10000	41.3727	93.4187	-1019	QK	2.2	1	7.5	0	1.0	-1	0.421	0	3.150	1	7.483	1	1936	48	2.1
48493.2	10000	41.3727	93.4179	-1021	QK	2.9	1	7.9	1	1.0	-1	0.367	0	2.870	1	7.825	2	1936	39	2.1
48493.3	10000	41.3727	93.4170	-1020	QK	3.1	1	7.8	1	1.0	-1	0.392	1	2.949	1	7.520	1	1937	37	2.1
48493.4	10000	41.3727	93.4162	-1020	QK	3.1	1	7.7	1	1.0	-1	0.399	1	2.983	2	7.478	1	1919	39	2.1
48493.5	10000	41.3727	93.4153	-1019	QK	3.1	1	7.5	0	1.0	-1	0.406	1	2.962	1	7.293	1	1919	40	2.1
48493.6	10000	41.3728	93.4145	-1018	QK	2.8	0	7.3	0	1.1	0	0.378	0	2.599	1	6.874	1	1900	47	2.2
48493.7	10000	41.3728	93.4136	-1020	QK	2.7	0	6.8	-1	1.1	-1	0.396	1	2.564	1	6.473	0	1895	42	2.2
48493.8	10000	41.3728	93.4128	-1021	QK	2.4	0	6.8	-1	1.1	0	0.356	0	2.231	0	6.259	0	1887	36	2.2
48493.9	10000	41.3728	93.4119	-1020	QK	2.7	0	6.6	-1	1.1	0	0.416	1	2.532	1	6.084	-1	1869	35	2.2
48494.0	10000	41.3728	93.4111	-1020	QK	2.5	0	6.7	-1	1.1	-1	0.371	0	2.342	0	6.305	0	1842	39	2.2
48494.1	10000	41.3728	93.4102	-1020	QK	2.2	-1	6.4	-1	1.1	-1	0.349	0	2.097	0	6.012	-1	1813	40	2.2
48494.2	10000	41.3728	93.4094	-1020	QK	2.3	-1	6.4	-1	1.1	0	0.354	0	2.082	0	5.885	-1	1781	47	2.2
48494.3	10000	41.3728	93.4086	-1020	QK	2.3	-1	6.1	-2	1.0	-1	0.372	0	2.191	0	5.894	-1	1762	45	2.2
48494.4	10000	41.3728	93.4077	-1019	QK	2.4	-1	6.0	-2	1.1	-1	0.405	1	2.313	0	5.707	-1	1746	40	2.2
48494.5	10000	41.3728	93.4068	-1019	QK	2.5	-1	6.1	-2	1.0	-1	0.410	1	2.431	0	5.927	-1	1726	40	2.2
48494.6	10000	41.3729	93.4060	-1019	QK	2.2	-1	5.8	-2	1.0	-1	0.388	1	2.202	0	5.680	-1	1722	61	2.2
48494.7	10000	41.3729	93.4052	-1019	QK	2.4	-1	5.4	-2	1.1	0	0.437	1	2.209	0	5.053	-2	1755	40	2.2
48494.8	10000	41.3729	93.4043	-1019	QK	2.6	-1	5.8	-2	1.2	0	0.445	1	2.194	0	4.936	-2	1807	42	2.2
48494.9	10000	41.3729	93.4035	-1019	QK	2.4	-1	6.1	-1	1.2	0	0.384	0	1.978	-1	5.151	-2	1853	33	2.2
48495.0	10000	41.3729	93.4026	-1019	QK	2.6	-1	6.5	-1	1.3	1	0.392	1	1.993	-1	5.080	-2	1915	35	2.2
48495.1	10000	41.3729	93.4018	-1019	QK	2.4	0	6.9	0	1.3	2	0.354	0	1.870	-1	5.285	-2	1954	52	2.2
48495.2	10000	41.3729	93.4009	-1020	QK	2.4	0	6.9	0	1.4	2	0.353	0	1.807	-1	5.125	-2	1982	37	2.2
48495.3	10000	41.3729	93.4001	-1020	QK	2.6	0	7.4	0	1.4	2	0.346	0	1.825	-1	5.272	-2	2018	55	2.2
48495.4	10000	41.3729	93.3992	-1021	QK	2.5	0	7.8	1	1.4	2	0.326	0	1.804	-1	5.530	-1	2022	42	2.2
48495.5	10000	41.3729	93.3984	-1021	QK	2.5	0	7.4	0	1.4	2	0.331	0	1.765	-1	5.333	-2	2012	46	2.2
48495.6	10000	41.3730	93.3975	-1022	QK	2.8	0	7.9	1	1.4	2	0.399	1	1.982	-1	5.962	-2	2014	44	2.2
48495.7	10000	41.3730	93.3967	-1023	QK	2.8	0	6.6	-1	1.4	2	0.420	1	1.966	-1	4.683	-3	2014	40	2.2
48495.8	10000	41.3730	93.3958	-1023	QK	3.0	0	6.6	-1	1.4	2	0.466	1	1.975	-1	4.238	-3	2012	44	2.2
48495.9	10000	41.3730	93.3950	-1025	QK	3.0	0	6.6	-1	1.4	2	0.481	1	2.123	0	4.414	-3	2017	46	2.2
48496.0	10000	41.3730	93.3941	-1026	QK	3.0	0	6.6	-1	1.4	2	0.466	1	2.160	0	4.636	-3	2003	42	2.2
48496.1	10000	41.3730	93.3933	-1027	QK	2.9	0	6.3	-1	1.3	2	0.474	1	2.226	0	4.693	-3	1979	52	2.1
48496.2	10000	41.3730	93.3924	-1029	QK	2.9	0	6.7	-1	1.3	2	0.441	1	2.316	0	5.252	-2	1956	47	2.1
48496.3	10000	41.3730	93.3916	-1031	QK	2.9	0	6.8	-1	1.3	2	0.432	1	2.347	0	5.434	-1	1941	33	2.1
48496.4	10000	41.3730	93.3907	-1032	QK	2.9	0	7.2	-1	1.3	2	0.397	1	2.338	0	5.883	-1	1931	45	2.1
48496.5	10000	41.3731	93.3899	-1034	QK	2.9	0	7.7	-1	1.2	2	0.375	1	2.394	0	6.378	-1	1925	32	2.1
48496.6	10000	41.3731	93.3890	-1036	QK	2.8	0	7.7	-1	1.2	2	0.374	1	2.342	0	6.261	-1	1915	42	2.1
48496.7	10000	41.3731	93.3882	-1038	QK	2.7	0	7.7	-1	1.2	2	0.371	1	2.360	0	6.365	0	1904	44	2.1
48496.8	10000	41.3731	93.3873	-1039	QK	2.7	0	7.7	-1	1.2	2	0.371	1	2.358	0	6.353	0	1918	49	2.1
48496.9	10000	41.3731	93.3865	-1041	QK	2.9	0	7.9	-1	1.2	2	0.401	1	2.402	0	5.985	-1	1952	42	2.1
48497.0	10000	41.3731	93.3857	-1043	QK	2.8	0	7.7	-1	1.2	2	0.387	1	2.432	0	6.285	-1	1971	41	2.1
48497.1	10000	41.3731	93.3848	-1044	QK	2.7	0	7.8	-1	1.2	2	0.364	1	2.331	0	6.409	-1	1981	44	2.1
48497.2	10000	41.3731	93.3840	-1046	QK	2.7	0	7.8	-1	1.2	2	0.344	1	2.352	0	6.842	-1	1992	36	2.1
48497.3	10000	41.3731	93.3831	-1048	QK	2.8	0	8.0	-1	1.2	2	0.332	1	2.467	0	7.423	-1	2007	37	2.1
48497.4	10000	41.3731	93.3823	-1050	QK	2.9	0	8.3	-1	1.2	2	0.366	1	2.674	0	7.305	-1	2027	60	2.1
48497.5	10000	41.3731	93.3814	-1051	QK	2.9	0	8.1	-1	1.2	2	0.363	1	2.607	0	7.187	-1	2043	33	2.1
48497.6	10000	41.3731	93.3806	-1053	QK	2.9	0	8.5	-1	1.2	2	0.365	1	2.802	0	7.684	-1	2056	34	2.1
48497.7	10000	41.3731	93.3798	-1054	QK	2.9	0	8.7	-1	1.2	2	0.334	1	2.576	0	7.720	-1	2058	46	2.1
48497.8	10000	41.3731	93.3789	-1056	QK	2.9	0	8.6	-1	1.2	2	0.341	1	2.648	0	7.771	-1	2033	60	2.1
48497.9	10000	41.3731	93.3781	-1057	QK	2.9	0	8.7	-1	1.2	2	0.366	1	2.664	0	7.275	-1	1994	42	2.1
48498.0	10000	41.3731	93.3773	-1059	QK	2.9	0	8.7	-1	1.2	2	0.390	1	2.693	0	6.912	-1	1987	52	2.1
48498.1	10000	41.3731	93.3764	-1060	QK	2.8	0	7.9	1	1.2	2	0.355	1	2.401	0	6.761	0	1970	37	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48498.2	10000	41.3731	93.3756	-1062	QK	2.8	1	8.2	1	1.1	0	0.349	0	2.488	0	7.135	1	1967	40	1.9
48498.3	10000	41.3731	93.3748	-1063	QK	2.7	0	7.9	1	1.1	0	0.344	0	2.376	0	6.899	1	1948	45	1.9
48498.4	10000	41.3731	93.3739	-1063	QK	3.0	1	7.4	0	1.1	0	0.404	1	2.671	1	6.620	0	1929	38	1.9
48498.5	10000	41.3731	93.3731	-1065	QK	3.1	1	7.2	0	1.1	0	0.424	1	2.734	1	6.448	0	1936	35	1.9
48498.6	10000	41.3731	93.3722	-1066	QK	3.3	2	7.3	0	1.1	0	0.449	1	2.866	1	6.381	0	1963	42	1.9
48498.7	10000	41.3731	93.3714	-1068	QK	3.3	2	7.0	0	1.1	0	0.473	2	2.978	2	6.293	0	1966	43	1.9
48498.8	10000	41.3731	93.3706	-1069	QK	3.4	2	7.1	0	1.1	0	0.480	2	2.996	2	6.236	0	1979	39	1.8
48498.9	10000	41.3731	93.3697	-1070	QK	3.3	2	7.1	0	1.2	0	0.470	2	2.861	1	6.087	-1	1982	42	1.8
48499.0	10000	41.3731	93.3689	-1070	QK	3.2	1	7.5	1	1.2	1	0.424	1	2.612	1	6.153	0	1968	43	1.8
48499.1	10000	41.3731	93.3681	-1071	QK	3.1	1	7.5	1	1.2	1	0.411	1	2.515	1	6.123	-1	1979	45	1.8
48499.2	10000	41.3731	93.3672	-1071	QK	3.2	1	7.6	1	1.2	1	0.419	1	2.567	1	6.128	-1	1985	47	1.8
48499.3	10000	41.3731	93.3664	-1072	QK	2.9	1	8.3	1	1.2	1	0.380	0	2.484	0	6.542	0	1997	44	1.8
48499.4	10000	41.3731	93.3656	-1072	QK	2.9	1	8.5	1	1.3	1	0.338	0	2.312	0	6.834	0	1983	42	1.8
48499.5	10000	41.3731	93.3647	-1073	QK	2.9	1	8.6	2	1.3	1	0.338	0	2.258	0	6.684	0	1988	40	1.7
48499.6	10000	41.3731	93.3639	-1074	QK	3.0	1	8.4	2	1.3	1	0.353	0	2.344	0	6.634	0	1989	47	1.7
48499.7	10000	41.3731	93.3630	-1074	QK	3.1	1	8.0	1	1.3	1	0.384	0	2.484	0	6.462	0	2007	28	1.7
48499.8	10000	41.3731	93.3622	-1074	QK	2.9	1	8.1	1	1.3	1	0.353	0	2.267	0	6.430	0	2016	38	1.7
48499.9	10000	41.3731	93.3614	-1075	QK	2.7	0	8.0	1	1.3	1	0.342	0	2.128	0	6.222	0	2017	48	1.7
48500.0	10000	41.3731	93.3605	-1075	QK	2.5	0	7.5	1	1.3	1	0.336	0	1.985	-1	5.915	-1	2012	42	1.7
48500.1	10000	41.3731	93.3597	-1075	QK	2.6	0	7.5	1	1.4	2	0.352	0	1.944	-1	5.525	-1	2028	51	1.7
48500.2	10000	41.3731	93.3589	-1075	QK	2.7	0	7.4	1	1.3	2	0.366	0	2.057	0	5.615	-1	2029	48	1.6
48500.3	10000	41.3731	93.3580	-1076	QK	2.7	0	7.6	1	1.3	2	0.348	0	2.008	-1	5.774	-1	2017	42	1.6
48500.4	10000	41.3731	93.3572	-1076	QK	2.6	0	8.0	1	1.3	2	0.328	0	1.942	-1	5.912	-1	2006	45	1.6
48500.5	10000	41.3731	93.3564	-1076	QK	2.4	0	8.4	2	1.3	2	0.285	-1	1.804	-1	6.334	0	1987	45	1.6
48500.6	10000	41.3731	93.3555	-1076	QK	2.2	0	8.5	2	1.3	2	0.258	-1	1.689	-1	6.556	0	1983	42	1.6
48500.7	10000	41.3731	93.3547	-1076	QK	2.3	0	8.8	2	1.3	2	0.269	-1	1.766	-1	6.573	0	1958	55	1.6
48500.8	10000	41.3731	93.3538	-1075	QK	2.3	0	8.8	2	1.3	2	0.274	-1	1.768	-1	6.463	0	1935	42	1.6
48500.9	10000	41.3731	93.3530	-1075	QK	2.2	0	8.6	2	1.2	2	0.256	-1	1.598	-1	6.237	0	1896	36	1.5
48501.0	10000	41.3731	93.3522	-1074	QK	2.2	0	8.0	2	1.2	2	0.289	-1	1.802	-1	6.230	0	1885	47	1.5
48501.1	10000	41.3731	93.3513	-1073	QK	2.3	0	7.6	1	1.2	1	0.335	0	1.924	-1	5.747	-1	1874	42	1.5
48501.2	10000	41.3731	93.3505	-1072	QK	2.7	1	7.6	1	1.2	1	0.418	1	2.305	-1	5.519	-1	1855	45	1.5
48501.3	10000	41.3731	93.3497	-1071	QK	2.9	1	6.5	1	1.2	1	0.481	1	2.631	-1	5.467	-1	1826	49	1.5
48501.4	10000	41.3731	93.3488	-1071	QK	3.1	1	6.3	1	1.1	1	0.487	1	2.733	-1	5.609	-1	1824	52	1.5
48501.5	10000	41.3731	93.3480	-1070	QK	3.1	1	6.6	1	1.1	1	0.463	1	2.848	-1	6.154	-1	1829	41	1.5
48501.6	10000	41.3731	93.3472	-1065	QK	3.1	1	7.0	1	1.1	1	0.448	1	2.830	-1	6.323	-1	1859	43	1.4
48501.7	10000	41.3731	93.3463	-1064	QK	3.2	1	7.1	1	1.1	1	0.455	1	2.845	-1	6.249	-1	1886	55	1.4
48501.8	10000	41.3731	93.3455	-1069	QK	3.3	1	7.6	1	1.1	1	0.442	1	3.034	-1	6.859	-1	1901	45	1.4
48501.9	10000	41.3731	93.3447	-1072	QK	3.4	1	7.6	1	1.1	1	0.436	1	2.957	-1	6.780	-1	1926	36	1.4
48502.0	10000	41.3731	93.3438	-1072	QK	3.3	1	7.4	1	1.2	1	0.442	1	2.781	-1	6.297	-1	1956	40	1.4
48502.1	10000	41.3731	93.3430	-1073	QK	3.4	1	7.5	2	1.2	1	0.451	1	2.759	-1	6.119	-1	1971	38	1.4
48502.2	10000	41.3731	93.3421	-1072	QK	3.3	1	7.5	2	1.2	1	0.441	1	2.634	-1	5.971	-1	1972	50	1.4
48502.3	10000	41.3731	93.3413	-1072	QK	3.4	1	6.9	2	1.3	1	0.480	1	2.696	-1	5.622	-1	1951	37	1.4
48502.4	10000	41.3731	93.3405	-1071	QK	3.3	1	6.8	2	1.3	1	0.445	1	2.406	-1	5.410	-1	1933	44	1.4
48502.5	10000	41.3731	93.3396	-1069	QK	3.0	1	7.1	2	1.3	1	0.423	1	2.195	-1	5.191	-1	1926	26	1.4
48502.6	10000	41.3731	93.3388	-1067	QK	2.9	1	7.7	2	1.3	1	0.405	1	2.151	-1	5.306	-1	1932	44	1.4
48502.7	10000	41.3731	93.3380	-1067	QK	2.7	1	7.8	2	1.3	1	0.354	1	2.085	-1	5.891	-1	1926	35	1.4
48502.8	10000	41.3731	93.3371	-1068	QK	2.5	1	8.2	2	1.4	1	0.305	1	1.866	-1	6.108	-1	1937	45	1.4
48502.9	10000	41.3731	93.3363	-1067	QK	2.5	1	7.9	2	1.4	1	0.310	1	1.798	-1	5.793	-1	1946	50	1.4
48503.0	10000	41.3731	93.3354	-1067	QK	2.4	1	7.9	2	1.4	1	0.277	1	1.740	-1	6.272	-1	1967	50	1.3
48503.1	10000	41.3731	93.3346	-1066	QK	2.3	1	7.7	2	1.4	1	0.257	1	1.625	-1	6.328	-1	1973	39	1.3
48503.2	10000	41.3731	93.3338	-1065	QK	2.2	1	7.8	2	1.4	1	0.256	1	1.597	-1	6.259	-1	1969	41	1.3
48503.3	10000	41.3731	93.3329	-1064	QK	2.4	1	7.6	2	1.4	1	0.280	1	1.672	-1	5.974	-1	1961	42	1.3

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48503.4	10000	41.3731	93.3321	-1063	QK	2.5	0	8.4	2	1.5	3	0.296	-1	1.706	-1	5.762	-1	1954	34	1.3
48503.5	10000	41.3731	93.3313	-1062	QK	2.5	0	7.9	1	1.4	3	0.319	0	1.757	-1	5.502	-1	1944	38	1.3
48503.6	10000	41.3731	93.3304	-1061	QK	2.5	0	7.9	1	1.4	2	0.317	0	1.820	-1	5.748	-1	1939	45	1.3
48503.7	10000	41.3731	93.3296	-1060	QK	2.6	0	7.4	1	1.4	2	0.352	0	1.886	-1	5.351	-2	1942	36	1.3
48503.8	10000	41.3731	93.3288	-1060	QK	2.6	0	7.2	1	1.4	2	0.369	0	1.945	-1	5.265	-2	1949	44	1.3
48503.9	10000	41.3731	93.3279	-1059	QK	2.7	0	7.8	1	1.3	2	0.346	0	2.034	0	5.883	-1	1972	48	1.3
48504.0	10000	41.3731	93.3271	-1058	QK	2.9	1	8.1	2	1.3	2	0.358	0	2.257	0	6.300	0	1992	44	1.3
48504.1	10000	41.3731	93.3262	-1057	QK	2.8	1	8.4	1	1.3	1	0.340	0	2.274	0	6.682	0	2008	50	1.3
48504.2	10000	41.3731	93.3254	-1057	QK	2.8	1	8.2	1	1.3	1	0.343	0	2.255	0	6.577	0	2013	53	1.3
48504.3	10000	41.3731	93.3246	-1056	QK	3.0	1	8.5	2	1.3	2	0.353	0	2.241	0	6.350	0	2028	47	1.3
48504.4	10000	41.3731	93.3237	-1055	QK	3.1	1	8.5	1	1.3	1	0.370	0	2.427	0	6.566	0	2026	44	1.3
48504.5	10000	41.3731	93.3229	-1054	QK	3.2	1	8.5	1	1.3	1	0.381	0	2.609	1	6.849	1	2015	41	1.3
48504.6	10000	41.3731	93.3221	-1051	QK	3.5	2	7.8	1	1.3	1	0.441	1	2.744	1	6.227	0	2013	57	1.3
48504.7	10000	41.3731	93.3212	-1048	QK	3.4	2	7.7	1	1.3	1	0.437	1	2.662	1	6.090	-1	1997	49	1.3
48504.8	10000	41.3731	93.3204	-1046	QK	3.5	2	7.4	1	1.3	1	0.474	2	2.755	1	5.814	-1	1990	42	1.3
48504.9	10000	41.3731	93.3195	-1044	QK	3.7	2	7.5	1	1.2	1	0.501	2	3.064	2	6.120	-1	1973	45	1.3
48505.0	10000	41.3731	93.3187	-1041	QK	3.8	2	7.5	0	1.2	0	0.500	2	3.231	2	6.456	0	1961	57	1.3
48505.1	10000	41.3730	93.3179	-1038	QK	3.4	2	7.4	0	1.1	0	0.464	2	2.988	2	6.436	0	1930	49	1.3
48505.2	10000	41.3731	93.3170	-1033	QK	3.4	2	7.7	1	1.1	0	0.443	1	2.955	1	6.678	0	1924	34	1.3
48505.3	10000	41.3731	93.3162	-1032	QK	2.8	1	7.9	1	1.2	0	0.361	1	2.432	0	6.743	0	1903	40	1.3
48505.4	10000	41.3730	93.3154	-1027	QK	2.6	1	7.9	1	1.2	1	0.334	0	2.163	0	6.470	0	1887	41	1.3
48505.5	10000	41.3731	93.3145	-1023	QK	2.5	1	8.2	1	1.2	1	0.311	-1	2.090	0	6.723	0	1876	52	1.3
48505.6	10000	41.3731	93.3137	-1018	QK	2.6	1	7.8	1	1.2	1	0.334	0	2.201	0	6.588	0	1879	47	1.3
48505.7	10000	41.3730	93.3129	-1013	QK	2.8	1	7.8	1	1.2	0	0.359	0	2.373	0	6.612	0	1875	50	1.3
48505.8	10000	41.3731	93.3120	-1007	QK	2.7	1	8.0	1	1.2	0	0.340	0	2.337	0	6.869	-1	1881	53	1.3
48505.9	10000	41.3730	93.3112	-1000	QK	2.9	1	7.6	0	1.2	0	0.378	0	2.461	0	6.515	0	1885	41	1.3
48506.0	10000	41.3730	93.3103	-992	QK	3.2	1	7.7	1	1.1	0	0.412	1	2.768	1	6.714	0	1891	40	1.4
48506.1	10000	41.3731	93.3095	-985	QK	3.1	1	7.6	1	1.1	0	0.408	1	2.780	1	6.812	0	1891	41	1.4
48506.2	10000	41.3730	93.3087	-976	QK	3.0	1	7.4	1	1.1	0	0.400	1	2.673	1	6.683	0	1898	54	1.4
48506.3	10000	41.3730	93.3078	-967	QK	2.8	1	7.6	1	1.2	0	0.363	0	2.392	0	6.591	0	1900	46	1.4
48506.4	10000	41.3731	93.3070	-957	QK	2.5	1	7.5	1	1.2	0	0.325	0	2.089	0	6.420	0	1895	54	1.4
48506.5	10000	41.3730	93.3062	-946	QK	2.8	1	7.4	1	1.2	0	0.371	0	2.301	0	6.208	0	1911	32	1.4
48506.6	10000	41.3730	93.3053	-935	QK	2.7	1	7.6	1	1.2	0	0.351	0	2.164	0	6.173	0	1901	37	1.4
48506.7	10000	41.3730	93.3045	-923	QK	2.6	1	7.3	1	1.2	0	0.359	0	2.098	-1	5.851	-1	1895	40	1.4
48506.8	10000	41.3730	93.3037	-911	QK	2.7	1	7.5	1	1.2	0	0.362	0	2.136	-1	5.906	-1	1908	42	1.4
48506.9	10000	41.3730	93.3028	-898	QK	3.0	1	7.2	1	1.3	0	0.420	0	2.305	-1	5.484	-1	1909	48	1.4
48507.0	10000	41.3730	93.3020	-884	QK	3.0	1	7.4	1	1.3	0	0.406	0	2.280	-1	5.621	-1	1905	57	1.4
48507.1	10000	41.3730	93.3012	-870	QK	2.8	1	7.5	1	1.4	0	0.373	0	2.058	-1	5.521	-1	1907	40	1.4
48507.2	10000	41.3730	93.3003	-856	QK	2.6	1	7.6	1	1.4	0	0.337	0	1.852	-1	5.491	-1	1901	61	1.5
48507.3	10000	41.3730	93.2995	-841	QK	2.5	1	7.5	1	1.4	0	0.340	0	1.798	-1	5.296	-2	1918	37	1.5
48507.4	10000	41.3730	93.2986	-827	QK	2.5	1	7.9	1	1.4	0	0.322	0	1.797	-1	5.587	-2	1929	50	1.5
48507.5	10000	41.3730	93.2978	-813	QK	2.3	1	7.5	1	1.4	0	0.304	0	1.586	-1	5.222	-2	1923	48	1.5
48507.6	10000	41.3730	93.2970	-799	QK	2.0	1	7.7	1	1.4	0	0.267	-1	1.465	-2	5.490	-2	1909	40	1.5
48507.7	10000	41.3730	93.2961	-785	QK	1.9	1	7.4	1	1.4	0	0.254	-1	1.366	-2	5.384	-2	1910	40	1.5
48507.8	10000	41.3730	93.2953	-772	QK	2.3	1	7.4	1	1.4	0	0.307	-1	1.676	-1	5.454	-1	1902	42	1.5
48507.9	10000	41.3730	93.2945	-759	QK	2.3	1	7.4	1	1.4	0	0.306	-1	1.718	-1	5.621	-1	1880	43	1.5
48508.0	10000	41.3730	93.2936	-747	QK	2.1	1	7.6	1	1.3	0	0.269	-1	1.623	-1	6.026	-1	1851	37	1.5
48508.1	10000	41.3730	93.2928	-737	QK	1.9	1	7.7	1	1.3	0	0.253	-1	1.598	-1	6.314	-1	1823	41	1.5
48508.2	10000	41.3730	93.2920	-727	QK	2.1	1	7.6	1	1.2	0	0.282	-1	1.846	-1	6.541	-1	1810	41	1.6
48508.3	10000	41.3730	93.2911	-720	QK	2.2	1	8.0	1	1.2	0	0.272	-1	1.952	-1	7.173	-1	1813	37	1.6
48508.4	10000	41.3730	93.2903	-713	QK	2.1	1	8.2	2	1.1	0	0.260	-1	1.978	-1	7.596	-2	1806	49	1.6
48508.5	10000	41.3730	93.2894	-707	QK	2.1	1	8.4	2	1.1	0	0.251	-1	1.948	-1	7.756	-2	1815	53	1.6

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48508.6	10000	41.3730	93.2886	-702	QK	2.3	0	8.2	1	1.1	0	0.278	-1	2.130	0	7.663	2	1847	39	1.6
48508.7	10000	41.3730	93.2878	-699	QK	2.3	0	7.9	1	1.1	0	0.298	-1	2.103	0	7.061	1	1866	46	1.6
48508.8	10000	41.3730	93.2869	-696	QK	2.4	0	7.9	1	1.1	0	0.306	-1	2.154	0	7.039	1	1899	38	1.6
48508.9	10000	41.3730	93.2861	-695	QK	2.6	0	8.1	1	1.1	0	0.317	0	2.283	0	7.213	1	1926	36	1.7
48509.0	10000	41.3730	93.2853	-696	QK	2.7	0	8.0	1	1.2	0	0.335	0	2.316	0	6.917	1	1943	38	1.7
48509.1	10000	41.3730	93.2844	-697	QK	2.8	1	7.9	1	1.1	0	0.353	0	2.471	0	6.993	1	1958	40	1.7
48509.2	10000	41.3730	93.2836	-699	QK	3.1	1	7.9	1	1.1	0	0.396	1	2.833	1	7.157	1	1962	41	1.7
48509.3	10000	41.3730	93.2828	-702	QK	3.1	1	7.9	1	1.1	0	0.392	1	2.923	1	7.462	1	1945	52	1.7
48509.4	10000	41.3730	93.2819	-705	QK	3.2	1	8.7	2	1.0	-1	0.367	0	3.156	2	8.604	3	1939	42	1.7
48509.5	10000	41.3730	93.2811	-709	QK	3.3	2	8.2	1	1.0	-1	0.397	1	3.149	2	7.921	2	1904	44	1.7
48509.6	10000	41.3730	93.2802	-714	QK	2.8	1	8.0	1	1.0	-1	0.356	0	2.806	1	7.885	2	1882	53	1.7
48509.7	10000	41.3730	93.2794	-720	QK	2.9	1	7.5	0	1.0	-1	0.383	0	2.821	1	7.365	1	1872	43	1.8
48509.8	10000	41.3730	93.2786	-726	QK	3.0	1	7.4	0	1.1	0	0.403	1	2.725	1	6.768	0	1867	33	1.8
48509.9	10000	41.3730	93.2777	-732	QK	2.6	0	7.3	0	1.1	0	0.351	0	2.291	0	6.523	0	1868	45	1.8
48510.0	10000	41.3730	93.2769	-738	QK	2.6	0	7.4	0	1.2	1	0.347	0	2.127	0	6.138	0	1887	28	1.8
48510.1	10000	41.3730	93.2761	-744	QK	2.7	0	7.2	0	1.2	1	0.383	0	2.227	0	5.814	-1	1905	50	1.8
48510.2	10000	41.3730	93.2752	-749	QK	2.8	1	6.9	0	1.3	1	0.402	1	2.168	0	5.388	-2	1931	45	1.8
48510.3	10000	41.3730	93.2744	-755	QK	2.9	1	7.1	0	1.3	2	0.410	1	2.153	0	5.248	-2	1957	60	1.9
48510.4	10000	41.3730	93.2736	-761	QK	2.9	1	7.0	0	1.4	2	0.417	1	2.156	0	5.164	-2	1955	40	1.9
48510.5	10000	41.3730	93.2727	-766	QK	2.9	1	7.0	0	1.3	2	0.417	1	2.163	0	5.192	-2	1953	38	1.9
48510.6	10000	41.3730	93.2719	-771	QK	3.1	1	7.0	0	1.3	2	0.438	1	2.294	0	5.233	-2	1961	42	1.9
48510.7	10000	41.3730	93.2710	-776	QK	3.0	1	6.9	0	1.3	1	0.438	1	2.351	0	5.370	-2	1949	37	1.9
48510.8	10000	41.3730	93.2702	-779	QK	3.0	1	6.7	-1	1.3	1	0.440	1	2.311	0	5.251	-2	1944	40	1.9
48510.9	10000	41.3730	93.2694	-783	QK	3.0	1	7.2	0	1.2	1	0.415	1	2.454	0	5.919	-1	1928	50	1.9
48511.0	10000	41.3730	93.2685	-786	QK	3.1	1	7.0	0	1.1	0	0.446	1	2.730	1	6.121	-1	1908	43	2.0
48511.1	10000	41.3730	93.2677	-787	QK	2.8	1	7.4	0	1.1	0	0.374	0	2.437	0	6.516	0	1909	44	2.0
48511.2	10000	41.3730	93.2669	-789	QK	2.8	1	7.7	1	1.1	0	0.367	0	2.550	1	6.947	1	1911	53	2.0
48511.3	10000	41.3730	93.2660	-791	QK	2.7	0	7.7	1	1.1	0	0.346	0	2.417	0	6.991	1	1909	57	2.0
48511.4	10000	41.3730	93.2652	-791	QK	2.7	0	7.6	0	1.1	0	0.359	0	2.464	0	6.864	1	1917	43	2.0
48511.5	10000	41.3730	93.2644	-790	QK	2.7	0	7.6	0	1.1	0	0.361	0	2.416	0	6.700	0	1923	45	2.0
48511.6	10000	41.3730	93.2635	-789	QK	2.7	0	7.4	0	1.2	0	0.360	0	2.312	0	6.422	0	1934	42	2.0
48511.7	10000	41.3730	93.2627	-788	QK	2.6	0	7.8	0	1.2	1	0.335	0	2.146	0	6.409	0	1953	50	2.0
48511.8	10000	41.3730	93.2619	-785	QK	2.7	0	7.4	0	1.2	1	0.367	0	2.233	0	6.091	-1	1957	29	2.1
48511.9	10000	41.3730	93.2610	-783	QK	2.6	0	7.4	0	1.2	1	0.360	0	2.144	0	5.960	-1	1961	38	2.1
48512.0	10000	41.3730	93.2602	-781	QK	2.7	0	7.4	0	1.3	1	0.364	0	2.154	0	5.910	-1	1969	33	2.1
48512.1	10000	41.3730	93.2593	-778	QK	2.6	0	7.3	0	1.2	1	0.359	0	2.073	0	5.769	-1	1976	45	2.1
48512.2	10000	41.3730	93.2585	-774	QK	2.5	0	7.3	0	1.3	1	0.340	-1	2.007	-1	5.901	-1	1971	38	2.1
48512.3	10000	41.3730	93.2577	-770	QK	2.3	0	7.7	1	1.3	1	0.301	-1	1.817	-1	6.039	-1	1984	40	2.1
48512.4	10000	41.3730	93.2568	-766	QK	2.3	0	7.5	0	1.2	1	0.305	-1	1.838	-1	6.034	-1	1991	35	2.1
48512.5	10000	41.3730	93.2560	-762	QK	2.4	0	7.8	1	1.3	1	0.301	-1	1.834	-1	6.093	-1	2005	46	2.1
48512.6	10000	41.3730	93.2552	-757	QK	2.3	0	7.6	1	1.3	2	0.307	-1	1.783	-1	5.810	-1	2029	36	2.2
48512.7	10000	41.3730	93.2543	-752	QK	2.4	0	7.4	0	1.3	1	0.328	-1	1.937	-1	5.898	-1	2038	37	2.2
48512.8	10000	41.3730	93.2535	-747	QK	2.5	0	7.5	1	1.3	1	0.337	-1	1.987	-1	5.894	-1	2044	53	2.2
48512.9	10000	41.3730	93.2527	-741	QK	2.5	0	7.8	1	1.3	2	0.320	-1	1.982	-1	6.186	0	2059	43	2.2
48513.0	10000	41.3730	93.2518	-735	QK	2.6	0	7.6	1	1.3	2	0.339	0	2.052	0	6.060	-1	2084	43	2.2
48513.1	10000	41.3729	93.2510	-729	QK	2.7	0	7.4	1	1.3	1	0.359	0	2.104	0	5.866	-1	2079	52	2.2
48513.2	10000	41.3730	93.2501	-722	QK	2.9	1	7.1	1	1.2	1	0.401	0	2.411	0	6.013	-1	2077	41	2.2
48513.3	10000	41.3730	93.2493	-716	QK	3.0	1	7.3	1	1.2	1	0.413	1	2.557	1	6.190	0	2067	60	2.2
48513.4	10000	41.3730	93.2484	-708	QK	2.8	1	7.3	1	1.2	1	0.381	0	2.229	0	5.859	-1	2044	45	2.2
48513.5	10000	41.3730	93.2476	-702	QK	2.9	1	7.3	0	1.2	1	0.396	0	2.432	1	6.144	0	2022	40	2.2
48513.6	10000	41.3730	93.2467	-695	QK	3.2	1	6.6	-1	1.2	1	0.482	1	2.749	1	5.701	-1	1988	41	2.2
48513.7	10000	41.3730	93.2459	-689	QK	3.3	2	6.7	-1	1.1	0	0.501	2	3.063	2	6.117	-1	1947	55	2.3

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48513.8	10000	41.3730	93.2450	-682	QK	3.4	2	7.1	0	1.1	0	0.481	2	3.106	2	6.461	0	1950	40	2.3
48513.9	10000	41.3730	93.2442	-675	QK	3.4	2	7.0	0	1.1	0	0.477	2	3.058	2	6.414	0	1933	42	2.3
48514.0	10000	41.3730	93.2433	-668	QK	3.2	1	6.9	0	1.0	-1	0.463	2	3.127	2	6.757	0	1904	37	2.3
48514.1	10000	41.3730	93.2424	-662	QK	3.4	2	6.9	0	1.0	-1	0.499	2	3.470	3	6.956	1	1896	36	2.3
48514.2	10000	41.3731	93.2416	-656	QK	3.2	1	6.7	-1	1.0	-1	0.485	2	3.140	2	6.473	0	1881	39	2.3
48514.3	10000	41.3731	93.2407	-651	QK	3.2	1	7.0	0	1.0	-1	0.451	1	3.103	2	6.887	1	1894	45	2.3
48514.4	10000	41.3731	93.2399	-646	QK	3.0	1	6.9	0	1.0	-1	0.431	1	2.875	1	6.669	0	1894	33	2.3
48514.5	10000	41.3731	93.2390	-640	QK	2.7	0	6.8	-1	1.0	-1	0.397	1	2.714	1	6.834	0	1869	31	2.3
48514.6	10000	41.3731	93.2382	-635	QK	2.8	1	7.2	0	1.0	-1	0.388	1	2.887	1	7.444	1	1863	43	2.3
48514.7	10000	41.3731	93.2373	-630	QK	3.0	1	7.2	0	1.0	-1	0.422	1	3.098	2	7.342	1	1872	44	2.3
48514.8	10000	41.3731	93.2365	-625	QK	3.1	1	7.0	0	1.0	-1	0.437	1	3.213	2	7.358	1	1880	45	2.3
48514.9	10000	41.3731	93.2356	-619	QK	3.0	1	7.6	0	0.9	-1	0.395	1	3.152	2	7.976	2	1888	48	2.3
48515.0	10000	41.3731	93.2348	-613	QK	2.8	0	7.3	0	1.0	-1	0.378	0	2.849	1	7.540	2	1879	37	2.3
48515.1	10000	41.3731	93.2339	-608	QK	2.9	1	7.3	0	1.0	-1	0.397	1	2.911	1	7.326	1	1878	42	2.3
48515.2	10000	41.3731	93.2331	-603	QK	3.1	1	7.1	0	1.0	-1	0.444	1	3.098	2	6.972	1	1882	46	2.3
48515.3	10000	41.3732	93.2322	-598	QK	2.8	1	6.7	-1	1.0	-1	0.424	1	2.807	1	6.625	0	1882	52	2.3
48515.4	10000	41.3732	93.2314	-593	QK	2.6	0	6.6	-1	1.1	0	0.392	1	2.428	0	6.196	0	1884	43	2.3
48515.5	10000	41.3732	93.2305	-586	QK	2.5	0	6.9	-1	1.1	0	0.369	0	2.270	0	6.145	0	1891	38	2.3
48515.6	10000	41.3732	93.2296	-580	QK	2.8	1	7.1	0	1.1	0	0.392	1	2.526	1	6.439	0	1907	41	2.3
48515.7	10000	41.3732	93.2288	-573	QK	2.9	1	7.4	0	1.1	0	0.392	1	2.596	1	6.627	0	1933	44	2.3
48515.8	10000	41.3732	93.2280	-566	QK	2.8	1	7.4	0	1.1	0	0.384	1	2.462	1	6.414	0	1953	40	2.3
48515.9	10000	41.3732	93.2271	-560	QK	2.7	0	7.4	0	1.2	1	0.369	0	2.309	0	6.257	0	1975	38	2.4
48516.0	10000	41.3732	93.2262	-552	QK	2.9	1	7.5	0	1.2	1	0.382	1	2.303	0	6.027	-1	1993	52	2.4
48516.1	10000	41.3732	93.2254	-545	QK	2.7	0	7.4	0	1.3	1	0.365	0	2.151	0	5.897	-1	2009	30	2.4
48516.2	10000	41.3732	93.2245	-539	QK	2.8	1	7.7	0	1.3	1	0.367	0	2.220	0	6.050	-1	2028	46	2.4
48516.3	10000	41.3732	93.2237	-532	QK	2.8	1	7.2	-1	1.3	2	0.389	1	2.156	0	5.543	-1	2039	41	2.4
48516.4	10000	41.3733	93.2228	-524	QK	2.6	1	6.9	0	1.3	1	0.383	1	2.034	0	5.315	-2	2025	44	2.4
48516.5	10000	41.3733	93.2220	-514	QK	2.7	0	6.8	-1	1.3	1	0.395	0	2.128	0	5.392	-2	2027	43	2.4
48516.6	10000	41.3733	93.2211	-509	QK	2.6	0	6.9	0	1.3	1	0.374	0	2.109	0	5.637	-1	2034	53	2.4
48516.7	10000	41.3733	93.2203	-507	QK	2.5	0	6.8	0	1.3	1	0.360	0	2.005	-1	5.568	-1	2051	42	2.4
48516.8	10000	41.3733	93.2194	-504	QK	2.5	0	6.9	0	1.3	1	0.347	0	1.987	-1	5.720	-1	2074	49	2.4
48516.9	10000	41.3733	93.2186	-500	QK	2.4	0	6.9	0	1.3	1	0.353	0	1.864	-1	5.274	-2	2086	43	2.4
48517.0	10000	41.3733	93.2177	-495	QK	2.1	-1	6.8	0	1.3	1	0.298	-1	1.519	-2	5.094	-2	2101	48	2.4
48517.1	10000	41.3733	93.2169	-491	QK	2.3	0	7.4	0	1.3	1	0.304	-1	1.535	-2	5.050	-2	2135	44	2.4
48517.2	10000	41.3733	93.2160	-487	QK	2.3	0	7.7	0	1.3	1	0.299	-1	1.519	-2	5.071	-2	2145	39	2.4
48517.3	10000	41.3733	93.2151	-484	QK	2.4	0	7.6	0	1.3	1	0.320	-1	1.592	-2	4.983	-2	2148	50	2.4
48517.4	10000	41.3733	93.2143	-480	QK	2.5	0	7.7	0	1.3	1	0.331	-1	1.691	-1	5.108	-2	2143	50	2.3
48517.5	10000	41.3733	93.2134	-477	QK	2.8	0	7.6	0	1.3	1	0.364	-1	1.888	-1	5.193	-2	2120	35	2.3
48517.6	10000	41.3734	93.2126	-474	QK	2.8	0	7.9	0	1.4	1	0.353	-1	1.981	-1	5.618	-1	2102	43	2.3
48517.7	10000	41.3734	93.2117	-471	QK	2.9	0	8.0	0	1.3	1	0.357	-1	2.223	0	6.223	0	2082	50	2.3
48517.8	10000	41.3734	93.2109	-468	QK	2.9	0	8.2	0	1.3	1	0.357	-1	2.370	0	6.641	0	2063	45	2.3
48517.9	10000	41.3734	93.2100	-466	QK	2.9	1	8.1	0	1.2	1	0.362	-1	2.538	1	7.008	1	2036	51	2.3
48518.0	10000	41.3734	93.2092	-464	QK	2.8	1	7.9	0	1.2	1	0.353	-1	2.324	0	6.585	0	2012	44	2.3
48518.1	10000	41.3734	93.2083	-462	QK	2.7	1	7.7	0	1.2	1	0.349	-1	2.317	0	6.646	0	2004	42	2.3
48518.2	10000	41.3734	93.2075	-461	QK	2.8	1	7.4	0	1.2	1	0.372	-1	2.404	0	6.470	0	1992	46	2.3
48518.3	10000	41.3734	93.2066	-460	QK	2.5	0	7.6	0	1.2	1	0.326	-1	2.145	0	6.570	0	1994	61	2.3
48518.4	10000	41.3734	93.2058	-459	QK	2.6	1	7.2	0	1.2	1	0.354	-1	2.132	0	6.021	-1	1993	47	2.3
48518.5	10000	41.3734	93.2049	-459	QK	2.6	0	7.0	-1	1.2	1	0.372	-1	2.136	0	5.737	-1	1991	50	2.3
48518.6	10000	41.3734	93.2041	-459	QK	2.3	0	7.1	0	1.2	1	0.319	-1	1.824	-1	5.715	-1	1998	40	2.3
48518.7	10000	41.3735	93.2032	-460	QK	2.4	0	7.6	0	1.2	1	0.313	-1	1.942	-1	6.200	0	2004	52	2.3
48518.8	10000	41.3735	93.2024	-461	QK	2.4	0	7.8	0	1.2	1	0.308	-1	1.978	-1	6.428	0	2006	40	2.3
48518.9	10000	41.3735	93.2015	-463	QK	2.5	0	7.9	0	1.2	1	0.316	0	2.049	0	6.486	0	2009	47	2.3

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48519.0	10000	41.3735	93.2007	-465	QK	2.5	0	7.6	0	1.2	1	0.326	0	1.997	-1	6.119	-1	2004	42	2.3
48519.1	10000	41.3735	93.1998	-467	QK	2.5	0	7.6	0	1.3	1	0.328	0	1.950	-1	5.949	-1	2004	47	2.3
48519.2	10000	41.3735	93.1989	-470	QK	2.4	0	7.7	1	1.3	1	0.312	-1	1.880	-1	6.033	-1	1993	46	2.3
48519.3	10000	41.3735	93.1981	-473	QK	2.6	0	7.5	0	1.2	1	0.345	0	2.106	0	6.153	0	1986	45	2.3
48519.4	10000	41.3735	93.1972	-477	QK	2.6	0	7.1	0	1.2	1	0.362	0	2.156	0	5.960	-1	1983	35	2.3
48519.5	10000	41.3735	93.1964	-482	QK	2.5	0	7.3	0	1.2	1	0.342	0	2.087	0	6.106	-1	1975	38	2.3
48519.6	10000	41.3735	93.1955	-486	QK	2.1	-1	7.9	1	1.2	0	0.266	-1	1.781	-1	6.694	0	1966	55	2.3
48519.7	10000	41.3735	93.1947	-491	QK	2.5	0	7.7	1	1.1	0	0.321	0	2.229	0	6.934	1	1953	33	2.3
48519.8	10000	41.3736	93.1938	-497	QK	2.5	0	7.6	1	1.0	-1	0.322	0	2.396	0	7.445	1	1929	32	2.3
48519.9	10000	41.3736	93.1930	-503	QK	2.3	0	7.5	0	1.0	-1	0.308	-1	2.385	0	7.752	2	1908	47	2.3
48520.0	10000	41.3736	93.1921	-510	QK	2.2	-1	7.2	0	1.0	-1	0.300	-1	2.114	0	7.052	1	1909	42	2.3
48520.1	10000	41.3736	93.1913	-517	QK	2.1	-1	7.5	0	1.0	-1	0.284	-1	2.059	0	7.255	1	1894	40	2.3
48520.2	10000	41.3736	93.1904	-522	QK	2.1	-1	7.3	0	1.1	0	0.285	-1	1.938	-1	6.810	0	1873	42	2.3
48520.3	10000	41.3736	93.1896	-528	QK	2.0	-1	7.0	0	1.1	0	0.287	-1	1.839	-1	6.416	0	1881	52	2.3
48520.4	10000	41.3736	93.1887	-535	QK	1.6	-2	7.3	0	1.1	0	0.219	-2	1.407	-2	6.410	0	1891	35	2.3
48520.5	10000	41.3736	93.1879	-542	QK	1.6	-2	7.6	1	1.2	0	0.205	-2	1.326	-2	6.464	0	1907	36	2.3
48520.6	10000	41.3736	93.1870	-549	QK	1.9	-1	7.4	0	1.2	0	0.253	-1	1.628	-1	6.379	0	1920	39	2.3
48520.7	10000	41.3736	93.1861	-555	QK	2.2	-1	7.4	0	1.1	0	0.293	-1	2.018	-1	6.894	1	1907	39	2.3
48520.8	10000	41.3736	93.1853	-562	QK	2.2	-1	7.2	0	1.1	0	0.309	-1	2.057	0	6.661	0	1897	46	2.3
48520.9	10000	41.3736	93.1844	-568	QK	2.3	-1	7.2	0	1.0	-1	0.315	0	2.178	0	6.909	1	1884	47	2.3
48521.0	10000	41.3737	93.1836	-575	QK	2.4	0	7.1	0	1.0	-1	0.335	0	2.294	0	6.855	1	1874	41	2.3
48521.1	10000	41.3737	93.1827	-581	QK	2.3	0	6.7	-1	1.0	-1	0.344	0	2.354	0	6.841	1	1851	52	2.3
48521.2	10000	41.3737	93.1819	-587	QK	2.3	0	6.5	-1	1.0	-1	0.352	0	2.356	0	6.684	0	1824	47	2.3
48521.3	10000	41.3737	93.1810	-593	QK	2.0	-1	6.6	-1	1.0	-1	0.300	-1	2.026	-1	6.744	0	1812	43	2.2
48521.4	10000	41.3737	93.1802	-599	QK	1.8	-2	6.7	-1	1.0	-1	0.262	-1	1.757	-1	6.707	0	1805	46	2.2
48521.5	10000	41.3737	93.1793	-605	QK	1.7	-2	7.2	0	1.0	-1	0.232	-2	1.720	-1	7.401	1	1802	39	2.2
48521.6	10000	41.3737	93.1785	-612	QK	1.7	-2	7.0	0	1.0	-1	0.249	-1	1.682	-1	6.752	0	1838	47	2.2
48521.7	10000	41.3737	93.1776	-618	QK	1.9	-1	6.8	0	1.0	-1	0.277	-1	1.814	-1	6.555	0	1849	46	2.2
48521.8	10000	41.3737	93.1768	-623	QK	2.0	-1	7.0	1	1.1	-1	0.287	-1	1.884	-1	6.572	0	1877	44	2.2
48521.9	10000	41.3737	93.1759	-629	QK	2.0	-1	7.4	0	1.1	-1	0.275	-1	1.893	-1	6.891	1	1903	42	2.2
48522.0	10000	41.3737	93.1751	-636	QK	2.2	-1	7.8	0	1.1	-1	0.284	-1	2.016	-1	7.104	1	1939	31	2.2
48522.1	10000	41.3738	93.1742	-641	QK	2.3	0	8.2	1	1.2	0	0.285	-1	2.029	-1	7.126	1	1986	41	2.2
48522.2	10000	41.3738	93.1734	-646	QK	2.4	0	8.1	1	1.2	0	0.299	-1	2.017	-1	6.747	0	2022	46	2.2
48522.3	10000	41.3738	93.1725	-652	QK	2.4	0	8.1	1	1.2	0	0.293	-1	2.014	-1	6.870	1	2019	45	2.2
48522.4	10000	41.3738	93.1716	-657	QK	2.4	0	8.3	1	1.2	0	0.294	-1	2.086	0	7.103	1	2014	48	2.2
48522.5	10000	41.3738	93.1708	-663	QK	2.7	0	8.2	1	1.2	0	0.324	0	2.303	0	7.107	1	2023	48	2.2
48522.6	10000	41.3738	93.1699	-668	QK	2.9	1	7.9	1	1.2	0	0.369	0	2.530	1	6.858	1	2047	56	2.2
48522.7	10000	41.3738	93.1691	-672	QK	3.0	1	7.6	1	1.1	0	0.402	1	2.666	1	6.634	1	2068	43	2.2
48522.8	10000	41.3738	93.1682	-677	QK	3.0	1	7.3	1	1.1	0	0.414	1	2.748	1	6.630	1	2047	35	2.2
48522.9	10000	41.3738	93.1674	-682	QK	3.0	1	7.4	1	1.1	0	0.410	1	2.695	1	6.573	1	2046	41	2.2
48523.0	10000	41.3738	93.1665	-687	QK	3.0	1	7.4	1	1.1	0	0.409	1	2.743	1	6.700	1	2044	42	2.2
48523.1	10000	41.3738	93.1657	-691	QK	3.0	1	7.3	1	1.1	0	0.425	1	2.745	1	6.461	1	2058	44	2.2
48523.2	10000	41.3738	93.1648	-696	QK	2.8	1	7.9	1	1.1	0	0.358	0	2.556	1	7.146	1	2050	38	2.2
48523.3	10000	41.3738	93.1640	-700	QK	2.5	1	8.2	1	1.1	0	0.305	-1	2.218	0	7.279	1	2032	37	2.2
48523.4	10000	41.3739	93.1631	-704	QK	2.3	0	7.9	1	1.2	0	0.294	-1	1.961	-1	6.678	0	1997	44	2.1
48523.5	10000	41.3739	93.1623	-709	QK	2.2	-1	7.7	1	1.2	0	0.280	-1	1.835	-1	6.562	0	1969	50	2.1
48523.6	10000	41.3739	93.1614	-713	QK	2.1	-1	7.5	1	1.2	0	0.274	-1	1.744	-1	6.356	0	1951	44	2.1
48523.7	10000	41.3739	93.1606	-716	QK	1.9	-1	7.8	1	1.2	0	0.239	-2	1.606	-1	6.730	0	1939	31	2.1
48523.8	10000	41.3739	93.1597	-721	QK	1.8	-2	7.7	1	1.2	0	0.230	-2	1.518	-2	6.590	0	1935	44	2.1
48523.9	10000	41.3739	93.1588	-725	QK	1.8	-1	7.4	1	1.2	0	0.247	-1	1.542	-2	6.241	0	1930	35	2.1
48524.0	10000	41.3739	93.1580	-729	QK	1.9	-1	7.5	1	1.2	0	0.261	-1	1.621	-1	6.215	0	1926	46	2.1
48524.1	10000	41.3739	93.1572	-733	QK	2.0	-1	7.7	1	1.2	1	0.264	-1	1.703	-1	6.448	0	1933	46	2.1

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48524.2	10000	41.3739	93.1563	-738	QK	2.1	-1	7.7	1	1.2	1	0.269	-1	1.742	-1	6.483	0	1968	38	2.1
48524.3	10000	41.3739	93.1554	-742	QK	2.6	0	7.3	0	1.2	0	0.351	0	2.202	0	6.273	0	1984	39	2.1
48524.4	10000	41.3739	93.1546	-746	QK	3.0	1	7.3	0	1.2	1	0.407	1	2.414	0	5.937	-1	2004	50	2.1
48524.5	10000	41.3740	93.1537	-750	QK	2.8	1	7.4	0	1.2	1	0.380	0	2.361	0	6.208	0	2008	41	2.1
48524.6	10000	41.3740	93.1529	-752	QK	3.0	1	7.3	0	1.2	1	0.417	1	2.553	1	6.115	-1	2000	51	2.1
48524.7	10000	41.3740	93.1520	-754	QK	3.3	2	7.3	0	1.2	0	0.452	1	2.840	1	6.289	0	1993	39	2.1
48524.8	10000	41.3740	93.1512	-758	QK	3.0	1	7.2	0	1.1	0	0.417	1	2.629	1	6.308	0	1993	43	2.1
48524.9	10000	41.3740	93.1503	-765	QK	3.3	2	7.4	0	1.2	1	0.442	1	2.730	1	6.180	0	1992	41	2.0
48525.0	10000	41.3740	93.1495	-770	QK	2.9	1	8.0	1	1.2	1	0.364	0	2.426	0	6.658	0	1995	44	2.0
48525.1	10000	41.3740	93.1486	-774	QK	2.8	1	8.1	1	1.2	0	0.346	0	2.426	0	7.013	1	2000	47	2.0
48525.2	10000	41.3740	93.1478	-777	QK	2.9	1	8.2	1	1.2	1	0.356	0	2.398	0	6.746	0	2001	52	2.0
48525.3	10000	41.3740	93.1469	-779	QK	2.9	1	8.0	1	1.2	1	0.356	0	2.347	0	6.596	0	1997	41	2.0
48525.4	10000	41.3740	93.1461	-781	QK	2.7	1	7.7	1	1.3	1	0.351	0	2.122	0	6.040	-1	2009	43	2.0
48525.5	10000	41.3740	93.1452	-784	QK	2.6	1	7.8	1	1.3	1	0.340	0	2.068	0	6.074	-1	2016	42	2.0
48525.6	10000	41.3740	93.1443	-786	QK	2.4	1	8.0	1	1.3	1	0.303	-1	1.862	-1	6.150	0	2016	43	2.0
48525.7	10000	41.3741	93.1435	-788	QK	2.3	1	7.7	1	1.3	2	0.299	-1	1.748	-1	5.857	-1	2003	42	2.0
48525.8	10000	41.3741	93.1426	-790	QK	2.3	1	7.2	0	1.3	2	0.325	0	1.770	-1	5.436	-1	1990	38	2.0
48525.9	10000	41.3741	93.1418	-792	QK	2.4	1	7.1	0	1.3	1	0.336	0	1.874	-1	5.574	-1	1978	44	2.0
48526.0	10000	41.3741	93.1409	-795	QK	2.5	1	6.9	0	1.3	1	0.363	0	1.954	-1	5.382	-2	1988	50	2.0
48526.1	10000	41.3741	93.1401	-797	QK	2.5	1	7.4	0	1.3	1	0.342	0	2.010	-1	5.873	-1	1976	38	1.9
48526.2	10000	41.3741	93.1392	-798	QK	2.8	1	7.5	0	1.3	1	0.374	0	2.237	0	5.989	-1	1972	55	1.9
48526.3	10000	41.3741	93.1384	-800	QK	3.0	1	7.3	0	1.2	1	0.417	1	2.503	0	6.002	-1	1968	34	1.9
48526.4	10000	41.3741	93.1375	-800	QK	3.1	1	7.3	0	1.2	1	0.424	1	2.568	1	6.060	-1	1976	45	1.9
48526.5	10000	41.3741	93.1367	-801	QK	3.0	1	7.6	1	1.2	1	0.392	1	2.504	1	6.382	0	1981	42	1.9
48526.6	10000	41.3741	93.1358	-802	QK	3.0	1	7.5	1	1.2	1	0.402	1	2.517	1	6.260	0	1999	39	1.9
48526.7	10000	41.3741	93.1350	-803	QK	2.9	1	7.8	1	1.2	1	0.370	0	2.411	1	6.513	0	2002	43	1.9
48526.8	10000	41.3742	93.1341	-805	QK	2.7	1	7.7	1	1.2	1	0.348	0	2.297	1	6.597	0	2013	60	1.9
48526.9	10000	41.3742	93.1333	-806	QK	2.9	1	7.6	1	1.1	1	0.377	0	2.513	1	6.674	0	2002	44	1.9
48527.0	10000	41.3742	93.1324	-807	QK	2.8	1	7.6	1	1.2	1	0.371	0	2.406	1	6.479	0	2004	44	1.9
48527.1	10000	41.3742	93.1315	-807	QK	3.0	1	7.7	1	1.1	1	0.394	0	2.666	1	6.770	0	1987	57	1.8
48527.2	10000	41.3742	93.1307	-807	QK	2.8	1	7.4	1	1.1	1	0.385	0	2.477	1	6.432	0	1982	45	1.8
48527.3	10000	41.3742	93.1299	-807	QK	2.6	1	7.6	1	1.1	1	0.346	0	2.287	1	6.612	0	1942	54	1.8
48527.4	10000	41.3742	93.1290	-807	QK	2.8	1	7.4	1	1.2	1	0.379	0	2.425	1	6.399	0	1915	50	1.8
48527.5	10000	41.3742	93.1281	-807	QK	3.0	1	6.8	1	1.1	1	0.449	1	2.672	1	5.957	-1	1898	41	1.8
48527.6	10000	41.3742	93.1273	-807	QK	2.9	1	6.7	-1	1.1	1	0.438	1	2.619	1	5.976	-1	1877	42	1.8
48527.7	10000	41.3742	93.1264	-807	QK	3.1	1	6.7	-1	1.1	1	0.457	1	2.723	1	5.959	-1	1870	53	1.8
48527.8	10000	41.3742	93.1256	-806	QK	2.8	1	6.6	-1	1.2	1	0.428	1	2.358	1	5.503	-1	1879	52	1.8
48527.9	10000	41.3742	93.1247	-805	QK	2.9	1	7.0	0	1.2	1	0.415	1	2.410	1	5.814	-1	1888	48	1.8
48528.0	10000	41.3742	93.1239	-803	QK	3.0	1	6.9	0	1.2	1	0.436	1	2.534	1	5.811	-1	1904	49	1.8
48528.1	10000	41.3742	93.1230	-801	QK	2.8	1	7.2	1	1.2	1	0.395	0	2.441	1	6.179	0	1919	40	1.8
48528.2	10000	41.3742	93.1222	-799	QK	2.8	1	7.5	1	1.2	1	0.377	0	2.467	1	6.540	0	1925	44	1.8
48528.3	10000	41.3742	93.1213	-797	QK	2.6	1	7.9	1	1.1	1	0.332	0	2.301	1	6.923	1	1941	41	1.7
48528.4	10000	41.3742	93.1205	-794	QK	2.5	1	7.9	1	1.1	1	0.318	0	2.224	1	6.996	1	1935	49	1.7
48528.5	10000	41.3742	93.1196	-791	QK	2.6	1	7.9	1	1.1	1	0.331	0	2.454	1	7.415	1	1942	43	1.7
48528.6	10000	41.3742	93.1188	-787	QK	2.7	1	7.7	1	1.1	1	0.351	0	2.565	1	7.316	1	1928	35	1.7
48528.7	10000	41.3743	93.1179	-783	QK	2.9	1	7.6	1	1.1	1	0.383	0	2.655	1	6.927	1	1935	46	1.7
48528.8	10000	41.3743	93.1171	-778	QK	3.1	1	7.5	1	1.1	1	0.416	1	2.758	1	6.638	0	1951	45	1.7
48528.9	10000	41.3743	93.1162	-773	QK	3.1	1	7.3	1	1.1	1	0.424	1	2.693	1	6.358	0	1961	33	1.7
48529.0	10000	41.3743	93.1154	-768	QK	3.4	1	6.8	-1	1.2	1	0.509	1	2.939	1	5.768	-1	1961	38	1.7
48529.1	10000	41.3743	93.1145	-763	QK	3.3	2	6.9	0	1.2	1	0.488	1	2.932	1	6.010	-1	1954	36	1.7
48529.2	10000	41.3743	93.1136	-756	QK	3.3	2	6.9	0	1.1	1	0.478	1	2.920	1	6.110	-1	1930	41	1.7
48529.3	10000	41.3743	93.1128	-751	QK	3.3	2	6.9	0	1.1	1	0.482	2	2.959	1	6.141	0	1925	38	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48529.4	10000	41.3743	93.1119	-744	QK	3.4	2	6.9	0	1.1	0	0.484	2	3.141	2	6.485	0	1928	39	1.7
48529.5	10000	41.3743	93.1111	-738	QK	3.2	1	7.1	0	1.1	0	0.445	1	2.985	2	6.714	0	1904	41	1.6
48529.6	10000	41.3743	93.1102	-732	QK	3.1	1	7.4	0	1.0	-1	0.422	1	3.055	2	7.245	1	1872	34	1.6
48529.7	10000	41.3743	93.1094	-726	QK	2.9	1	7.3	0	1.1	0	0.399	1	2.746	1	6.885	1	1865	44	1.6
48529.8	10000	41.3743	93.1085	-720	QAL	2.7	0	7.1	1	1.1	0	0.382	0	2.469	0	6.471	0	1866	45	1.6
48529.9	10000	41.3743	93.1077	-714	QAL	2.8	1	7.3	1	1.1	0	0.389	0	2.618	1	6.735	1	1849	36	1.6
48530.0	10000	41.3743	93.1068	-709	QAL	2.9	1	7.5	1	1.1	0	0.388	0	2.666	1	6.880	1	1842	49	1.6
48530.1	10000	41.3743	93.1060	-703	QAL	2.6	1	7.8	1	1.1	0	0.337	0	2.473	0	7.344	2	1829	47	1.6
48530.2	10000	41.3743	93.1051	-698	QAL	2.5	0	7.4	1	1.0	0	0.340	0	2.419	0	7.112	1	1832	37	1.6
48530.3	10000	41.3743	93.1043	-693	QAL	2.6	0	7.3	1	1.1	0	0.356	0	2.420	0	6.792	1	1835	45	1.6
48530.4	10000	41.3743	93.1034	-688	QAL	2.6	0	7.4	1	1.1	0	0.346	0	2.429	0	7.017	1	1827	39	1.6
48530.5	10000	41.3743	93.1026	-686	QAL	2.9	1	7.4	1	1.1	0	0.388	0	2.718	1	7.009	1	1826	39	1.6
48530.6	10000	41.3743	93.1017	-683	QAL	2.8	1	7.4	1	1.1	0	0.382	0	2.646	1	6.929	1	1858	42	1.6
48530.7	10000	41.3744	93.1009	-681	QAL	2.9	1	7.1	1	1.0	0	0.412	0	2.782	1	6.755	1	1873	44	1.6
48530.8	10000	41.3744	93.1000	-679	QAL	3.0	1	6.8	0	1.1	0	0.442	1	2.731	1	6.183	0	1897	42	1.6
48530.9	10000	41.3744	93.0992	-678	QAL	3.1	1	7.2	1	1.1	0	0.431	1	2.769	1	6.418	0	1916	43	1.6
48531.0	10000	41.3744	93.0983	-678	QAL	2.9	1	7.4	1	1.2	1	0.396	0	2.511	0	6.346	0	1940	44	1.6
48531.1	10000	41.3744	93.0974	-677	QAL	3.0	1	7.6	1	1.1	0	0.389	0	2.664	1	6.841	1	1971	46	1.6
48531.2	10000	41.3744	93.0966	-677	QAL	3.1	1	7.7	1	1.2	1	0.404	0	2.694	1	6.676	1	1982	33	1.6
48531.3	10000	41.3744	93.0957	-678	QAL	3.3	2	7.6	1	1.2	1	0.435	1	2.758	1	6.345	1	1995	32	1.5
48531.4	10000	41.3744	93.0949	-678	QAL	3.3	2	8.1	2	1.2	1	0.406	0	2.645	1	6.516	0	1997	39	1.5
48531.5	10000	41.3744	93.0940	-679	QAL	3.4	2	7.6	1	1.2	1	0.454	1	2.781	1	6.131	0	1975	41	1.5
48531.6	10000	41.3744	93.0932	-680	QAL	3.2	1	7.2	1	1.2	1	0.441	1	2.589	1	5.875	0	1942	44	1.5
48531.7	10000	41.3744	93.0923	-681	QAL	3.3	2	7.3	1	1.2	1	0.453	1	2.767	1	6.115	0	1927	39	1.5
48531.8	10000	41.3744	93.0915	-682	QAL	3.1	1	7.1	1	1.2	1	0.433	1	2.494	1	5.763	0	1879	53	1.5
48531.9	10000	41.3744	93.0906	-683	QAL	2.9	1	6.9	1	1.1	0	0.423	0	2.567	1	6.075	0	1833	39	1.5
48532.0	10000	41.374	93.0898	-684	QAL	2.6	1	6.6	0	1.1	0	0.398	0	2.460	1	6.177	0	1744	42	1.5
48532.1	10000	41.3744	93.0889	-685	QAL	2.5	0	6.7	0	0.9	-1	0.433	1	2.614	1	6.033	0	1620	49	1.5
48532.2	10000	41.3744	93.0881	-687	QAL	2.1	-1	5.4	-1	0.8	-2	0.384	1	2.624	1	6.826	1	1471	44	1.5
48532.3	10000	41.3744	93.0872	-688	QAL	1.9	-1	4.9	-2	0.7	-3	0.386	1	2.780	1	7.201	1	1319	46	1.5
48532.4	10000	41.3744	93.0864	-688	QAL	1.5	-2	4.1	-2	0.5	-4	0.37[illegible]	1	2.806	1	7.514	2	1144	47	1.5
48532.5	10000	41.3744	93.0855	-689	QAL	1.5	-2	3.5	-3	0.4	-4	0.425	1	3.503	2	8.248	3	1011	37	1.5
48532.6	10000	41.3744	93.0847	-689	QAL	1.2	-2	3.0	-3	0.3	-5	0.384	1	3.777	3	9.828	5	890	52	1.5
48532.7	10000	41.3745	93.0838	-689	QAL	1.1	-3	2.7	-4	0.2	-6	0.383	1	4.451	4	11.627	7	805	41	1.5
48532.8	10010	41.3745	93.0829	-689	QAL	0.8	-3	2.7	-4	0.2	-6	0.301	-1	3.751	3	12.450	8	768	33	1.5
48532.9	10000	41.3745	93.0821	-690	QAL	1.0	-3	2.8	-4	0.2	-6	0.366	0	4.321	4	11.813	7	764	42	1.5
48533.0	10000	41.3745	93.0813	-690	QAL	1.3	-2	2.7	-4	0.2	-6	0.498	1	5.601	6	11.258	7	782	43	1.5
48533.1	10000	41.3745	93.0804	-689	QAL	1.7	-1	3.1	-3	0.3	-5	0.535	2	5.888	7	11.008	6	842	45	1.5
48533.2	10000	41.3745	93.0795	-689	QAL	1.8	-1	3.0	-3	0.3	-5	0.594	2	5.780	6	9.736	5	875	47	1.5
48533.3	10000	41.3745	93.0787	-688	QAL	1.8	-1	3.1	-3	0.4	-5	0.592	2	4.771	4	8.058	2	914	40	1.5
48533.4	10000	41.3745	93.0778	-688	QAL	1.8	-1	3.2	-3	0.5	-4	0.557	2	3.887	3	6.984	1	961	38	1.5
48533.5	10000	41.3745	93.0770	-687	QAL	2.0	-1	3.3	-3	0.5	-4	0.601	3	3.864	3	6.429	0	1011	34	1.5
48533.6	10000	41.3745	93.0761	-686	QAL	1.9	-1	3.3	-3	0.6	-3	0.532	2	3.401	2	6.396	0	1074	49	1.5
48533.7	10000	41.3745	93.0753	-686	WATER	2.0	999	3.3	999	0.5	999	0.531	999	3.619	999	6.812	999	1111	53	1.5
48533.8	10000	41.3745	93.0744	-685	WATER	1.7	999	3.3	999	0.5	999	0.477	999	3.034	999	6.367	999	1110	43	1.5
48533.9	10000	41.3745	93.0736	-683	WATER	1.7	999	3.3	999	0.5	999	0.478	999	3.221	999	6.734	999	1101	33	1.5
48534.0	10000	41.3745	93.0727	-682	WATER	1.8	999	3.3	999	0.5	999	0.523	999	3.772	999	7.218	999	1087	46	1.5
48534.1	10000	41.3745	93.0719	-682	WATER	1.8	999	3.3	999	0.4	999	0.517	999	4.065	999	7.859	999	1092	44	1.5
48534.2	10000	41.3745	93.0710	-680	WATER	1.6	999	3.3	999	0.5	999	0.419	999	3.472	999	8.282	999	1113	46	1.5
48534.3	10000	41.3745	93.0702	-679	WATER	1.5	999	4.0	999	0.3	999	0.383	999	2.861	999	7.464	999	1142	51	1.5
48534.4	10000	41.3745	93.0693	-678	WATER	1.6	999	4.5	999	0.6	999	0.363	999	2.619	999	7.209	999	1200	32	1.5
48534.5	10000	41.3745	93.0685	-677	WATER	2.1	999	4.9	999	0.7	999	0.435	999	3.122	999	7.182	999	1287	36	1.5

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48534.6	10000	41.3745	93.0676	-676	WATER	2.0	999	5.3	999	0.8	999	0.383	999	2.564	999	6.694	999	1398	53	1.5
48534.7	10000	41.3745	93.0668	-675	WATER	2.2	999	5.8	999	0.9	999	0.374	999	2.511	999	6.711	999	1492	45	1.5
48534.8	10000	41.3745	93.0659	-673	WATER	2.4	999	6.5	999	0.9	999	0.368	999	2.521	999	6.858	999	1551	35	1.5
48534.9	10000	41.3745	93.0650	-671	WATER	2.6	999	6.2	999	1.0	999	0.414	999	2.623	999	6.341	999	1567	43	1.5
48535.0	10000	41.3746	93.0642	-669	WATER	2.4	999	6.2	999	0.9	999	0.383	999	2.605	999	6.809	999	1524	41	1.5
48535.1	10000	41.3746	93.0633	-667	WATER	2.0	999	5.8	999	0.9	999	0.353	999	2.381	999	6.746	999	1438	42	1.5
48535.2	10000	41.3746	93.0625	-665	WATER	1.7	999	5.1	999	0.8	999	0.337	999	2.260	999	6.706	999	1303	50	1.5
48535.3	10000	41.3746	93.0616	-663	WATER	1.7	999	4.4	999	0.6	999	0.381	999	2.574	999	6.765	999	1151	45	1.5
48535.4	10000	41.3746	93.0608	-660	WATER	1.2	999	3.4	999	0.5	999	0.340	999	2.198	999	6.460	999	997	39	1.5
48535.5	10000	41.3746	93.0599	-658	WATER	1.1	999	2.6	999	0.4	999	0.431	999	2.619	999	6.072	999	867	44	1.5
48535.6	10000	41.3746	93.0591	-655	WATER	1.1	999	2.4	999	0.3	999	0.483	999	3.439	999	7.121	999	764	46	1.5
48535.7	10000	41.3746	93.0582	-652	WATER	1.5	999	1.6	999	0.3	999	0.915	999	5.491	999	6.000	999	709	39	1.5
48535.8	10000	41.3746	93.0574	-649	WATER	1.4	999	1.5	999	0.2	999	0.943	999	6.716	999	7.122	999	679	48	1.5
48535.9	10000	41.3746	93.0565	-646	WATER	1.5	999	1.6	999	0.2	999	0.901	999	6.548	999	7.269	999	696	50	1.5
48536.0	10000	41.3746	93.0557	-643	WATER	1.6	999	1.7	999	0.3	999	0.960	999	6.287	999	6.550	999	718	35	1.5
48536.1	10000	41.3746	93.0548	-640	WATER	1.7	999	1.8	999	0.3	999	0.981	999	6.776	999	6.906	999	737	31	1.5
48536.2	10000	41.3746	93.0540	-638	WATER	1.6	999	1.6	999	0.3	999	1.046	999	5.797	999	5.542	999	733	44	1.5
48536.3	10000	41.3746	93.0531	-635	WATER	1.6	999	1.5	999	0.2	999	1.035	999	6.237	999	6.023	999	700	42	1.5
48536.4	10000	41.3746	93.0523	-632	WATER	1.3	999	1.6	999	0.2	999	0.798	999	5.647	999	7.081	999	670	49	1.5
48536.5	10000	41.3746	93.0514	-629	WATER	1.2	999	1.2	999	0.2	999	1.055	999	5.928	999	5.616	999	626	25	1.5
48536.6	10000	41.3746	93.0506	-626	WATER	1.3	999	1.0	999	0.2	999	1.268	999	7.148	999	5.637	999	567	38	1.5
48536.7	10101	41.3746	93.0497	-623	WATER	1.2	999	0.9	999	0.1	999	1.452	999	10.855	999	0.000	999	511	37	1.5
48536.8	10101	41.3746	93.0488	-620	WATER	1.1	999	0.8	999	0.1	999	1.371	999	10.138	999	0.000	999	469	36	1.5
48536.9	10101	41.3746	93.0480	-617	WATER	1.0	999	0.7	999	0.1	999	1.427	999	13.253	999	0.000	999	432	37	1.5
48537.0	10111	41.3746	93.0471	-615	WATER	0.7	999	0.6	999	0.1	999	1.244	999	10.401	999	0.000	999	417	47	1.5
48537.1	10111	41.3746	93.0463	-612	WATER	0.7	999	0.5	999	0.1	999	1.495	999	10.705	999	0.000	999	391	37	1.5
48537.2	10101	41.3747	93.0454	-609	WATER	0.8	999	0.6	999	0.1	999	1.354	999	12.656	999	0.000	999	388	45	1.5
48537.3	10111	41.3747	93.0446	-607	WATER	0.7	999	0.6	999	0.1	999	1.251	999	10.839	999	0.000	999	388	42	1.5
48537.4	10111	41.3747	93.0437	-605	WATER	0.5	999	0.7	999	0.1	999	0.782	999	10.315	999	0.000	999	392	33	1.5
48537.5	10111	41.3747	93.0429	-603	WATER	0.5	999	0.7	999	0.0	999	0.730	999	13.180	999	0.000	999	388	45	1.5
48537.6	10111	41.3747	93.0420	-601	WATER	0.6	999	0.8	999	0.0	999	0.723	999	37.857	999	0.000	999	394	48	1.5
48537.7	10110	41.3747	93.0412	-599	WATER	0.6	999	0.9	999	0.0	999	0.675	999	17.823	999	0.000	999	406	33	1.5
48537.8	10110	41.3747	93.0403	-598	WATER	0.6	999	1.0	999	0.1	999	0.610	999	9.767	999	0.000	999	428	31	1.5
48537.9	10110	41.3747	93.0395	-596	WATER	0.6	999	1.2	999	0.1	999	0.535	999	8.194	999	0.000	999	475	40	1.5
48538.0	10000	41.3747	93.0386	-595	WATER	0.8	999	1.4	999	0.1	999	0.571	999	5.423	999	9.505	999	565	28	1.5
48538.1	10000	41.3747	93.0378	-593	WATER	1.0	999	1.6	999	0.2	999	0.650	999	4.373	999	6.732	999	691	44	1.6
48538.2	10000	41.3747	93.0369	-591	WATER	1.4	999	2.2	999	0.3	999	0.630	999	4.057	999	6.438	999	844	51	1.6
48538.3	10000	41.3747	93.0361	-588	WATER	1.7	999	3.2	999	0.5	999	0.524	999	3.740	999	7.132	999	1010	42	1.6
48538.4	10000	41.3747	93.0352	-586	WATER	2.0	999	4.3	999	0.6	999	0.454	999	3.466	999	7.630	999	1196	51	1.6
48538.5	10000	41.3747	93.0343	-584	WATER	2.1	999	4.8	999	0.7	999	0.439	999	2.991	999	6.807	999	1377	58	1.6
48538.6	10000	41.3747	93.0335	-582	WATER	2.1	999	5.8	999	0.9	999	0.355	999	2.330	999	6.556	999	1549	36	1.6
48538.7	10000	41.3747	93.0327	-580	WATER	2.1	999	6.8	999	1.0	999	0.311	999	2.059	999	6.629	999	1675	42	1.6
48538.8	10000	41.3747	93.0318	-577	WATER	2.3	999	7.2	999	1.1	999	0.320	999	2.034	999	6.358	999	1767	43	1.6
48538.9	10000	41.3747	93.0309	-575	WATER	2.2	999	7.6	999	1.2	999	0.289	999	1.782	999	6.160	999	1831	42	1.6
48539.0	10000	41.3747	93.0301	-572	WATER	2.2	999	7.6	999	1.3	999	0.284	999	1.634	999	5.751	999	1871	54	1.6
48539.1	10000	41.3747	93.0292	-570	WATER	2.3	999	6.9	999	1.3	999	0.336	999	1.737	999	5.163	999	1880	47	1.6
48539.2	10000	41.3747	93.0284	-567	QK	2.4	0	7.2	0	1.3	2	0.332	0	1.775	-1	5.344	-2	1895	43	1.7
48539.3	10000	41.3747	93.0275	-564	QK	2.6	0	6.8	-1	1.3	2	0.376	0	1.969	-1	5.240	-2	1878	39	1.7
48539.4	10000	41.3747	93.0267	-562	QK	2.4	0	6.5	-1	1.3	1	0.371	0	1.935	-1	5.212	-2	1864	41	1.7
48539.5	10000	41.3747	93.0258	-559	QK	2.5	0	6.6	-1	1.2	1	0.381	0	2.033	0	5.339	-2	1831	38	1.7
48539.6	10000	41.3747	93.0250	-556	QK	2.6	0	6.3	-1	1.1	1	0.410	1	2.267	0	5.524	-1	1795	43	1.7
48539.7	10000	41.3748	93.0241	-553	QK	2.7	0	5.9	-2	1.1	0	0.454	1	2.495	0	5.499	-1	1778	44	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48539.8	10000	41.3748	93.0233	-550	QK	2.6	0	6.2	-1	1.1	0	0.425	1	2.464	0	5.804	-1	1776	47	1.7
48539.9	10000	41.3748	93.0224	-547	QK	2.8	1	6.3	-1	1.0	-1	0.442	1	2.645	1	5.988	-1	1772	40	1.7
48540.0	10000	41.3747	93.0216	-545	QK	2.9	1	6.3	-1	1.0	-1	0.464	2	2.804	1	6.047	-1	1769	48	1.8
48540.1	10000	41.3747	93.0208	-542	QK	2.9	1	6.5	-1	1.1	0	0.449	1	2.623	1	5.838	-1	1780	48	1.8
48540.2	10000	41.3747	93.0200	-539	QK	2.7	0	6.5	-1	1.1	0	0.413	1	2.360	0	5.719	-1	1802	48	1.8
48540.3	10000	41.3747	93.0191	-536	QK	2.7	0	6.4	-1	1.2	1	0.426	1	2.231	0	5.239	-2	1833	52	1.8
48540.4	10000	41.3747	93.0183	-533	QK	2.5	0	6.6	-1	1.2	1	0.381	0	2.040	0	5.352	-2	1840	29	1.8
48540.5	10000	41.3747	93.0175	-530	QK	2.5	0	6.6	-1	1.2	1	0.370	0	1.993	-1	5.379	-2	1821	39	1.8
48540.6	10000	41.3747	93.0167	-527	QK	2.3	0	6.3	-1	1.2	1	0.374	0	1.966	-1	5.256	-2	1786	49	1.8
48540.7	10000	41.3747	93.0159	-526	QK	2.2	-1	6.0	-2	1.1	0	0.367	0	1.934	-1	5.271	-2	1722	49	1.8
48540.8	10000	41.3747	93.0150	-523	QK	2.2	-1	5.2	-3	1.0	-1	0.423	1	2.188	0	5.167	-2	1605	45	1.9
48540.9	10000	41.3747	93.0142	-521	QK	1.8	-1	4.6	-4	0.8	-2	0.396	1	2.162	0	5.465	-1	1450	45	1.9
48541.0	10000	41.3747	93.0134	-518	QK	1.6	-2	4.0	-4	0.6	-4	0.392	1	2.434	0	6.209	0	1276	32	1.9
48541.1	10000	41.3747	93.0126	-515	QK	1.3	-2	3.2	-6	0.5	-5	0.413	1	2.623	1	6.353	0	1075	52	1.9
48541.2	10000	41.3747	93.0117	-512	QK	1.0	-3	2.5	-7	0.4	-6	0.412	1	2.858	1	6.945	1	897	42	1.9
48541.3	10010	41.3747	93.0109	-508	QK	0.7	-4	1.8	-7	0.2	-8	0.411	1	3.215	2	7.815	2	723	45	1.9
48541.4	10110	41.3747	93.0101	-505	QK	0.4	-4	1.1	-8	0.1	-8	0.395	1	3.315	2	0.000	-9	595	42	1.9
48541.5	10111	41.3747	93.0093	-502	QK	0.3	-5	0.8	-9	0.1	-9	0.321	0	3.272	2	0.000	-9	510	38	2.0
48541.6	10111	41.3747	93.0085	-499	QK	0.4	-4	0.7	-9	0.0	-9	0.507	2	8.073	12	0.000	-9	474	38	2.0
48541.7	10111	41.3747	93.0076	-495	WATER	0.4	999	0.8	999	0.0	999	0.570	999	10.974	999	0.000	999	453	47	2.0
48541.8	10111	41.3747	93.0068	-492	WATER	0.5	999	0.7	999	0.0	999	0.683	999	14.266	999	0.000	999	454	47	2.0
48541.9	10111	41.3747	93.0060	-488	WATER	0.4	999	0.6	999	0.0	999	0.641	999	17.233	999	0.000	999	446	37	2.0
48542.0	10111	41.3747	93.0052	-485	WATER	0.4	999	0.7	999	0.0	999	0.558	999	15.196	999	0.000	999	451	43	2.0
48542.1	10111	41.3747	93.0044	-482	WATER	0.3	999	0.8	999	0.0	999	0.418	999	10.912	999	0.000	999	456	31	2.0
48542.2	10110	41.3746	93.0035	-479	WATER	0.5	999	1.0	999	0.0	999	0.499	999	50.178	999	0.000	999	470	43	2.1
48542.3	10110	41.3746	93.0027	-475	WATER	0.4	999	0.9	999	0.0	999	0.431	999	10.491	999	0.000	999	478	38	2.1
48542.4	10111	41.3746	93.0019	-472	WATER	0.2	999	0.9	999	0.0	999	0.230	999	5.444	999	0.000	999	479	54	2.1
48542.5	10111	41.3746	93.0011	-470	WATER	0.4	999	0.8	999	0.0	999	0.483	999	9.391	999	0.000	999	485	41	2.1
48542.6	10111	41.3746	93.0002	-467	WATER	0.5	999	0.7	999	0.1	999	0.698	999	9.001	999	0.000	999	491	37	2.1
48542.7	10111	41.3746	92.9994	-464	WATER	0.4	999	0.6	999	0.1	999	0.691	999	8.054	999	0.000	999	494	41	2.1
48542.8	10111	41.3746	92.9986	-462	WATER	0.6	999	0.5	999	0.0	999	1.253	999	12.633	999	0.000	999	490	43	2.1
48542.9	10111	41.3746	92.9978	-460	WATER	0.6	999	0.5	999	0.0	999	1.263	999	12.586	999	0.000	999	477	39	2.1
48543.0	10111	41.3746	92.9970	-458	WATER	0.7	999	0.4	999	0.0	999	1.656	999	20.926	999	0.000	999	473	43	2.2
48543.1	10111	41.3746	92.9961	-456	WATER	0.6	999	0.3	999	0.0	999	2.307	999	13.093	999	0.000	999	475	49	2.2
48543.2	10111	41.3746	92.9953	-454	WATER	0.4	999	0.3	999	0.1	999	1.606	999	7.388	999	0.000	999	474	42	2.2
48543.3	10111	41.3746	92.9945	-452	WATER	0.4	999	0.3	999	0.1	999	1.168	999	5.041	999	0.000	999	458	41	2.2
48543.4	10111	41.3746	92.9937	-451	WATER	0.4	999	0.3	999	0.1	999	1.398	999	5.635	999	0.000	999	445	36	2.2
48543.5	10111	41.3746	92.9928	-449	WATER	0.2	999	0.4	999	0.1	999	0.649	999	3.345	999	0.000	999	441	54	2.2
48543.6	10111	41.3746	92.9920	-448	WATER	0.1	999	0.3	999	0.1	999	0.433	999	1.735	999	0.000	999	442	30	2.2
48543.7	10111	41.3746	92.9912	-447	WATER	0.1	999	0.4	999	0.1	999	0.141	999	0.839	999	0.000	999	438	47	2.2
48543.8	10111	41.3746	92.9904	-445	WATER	0.1	999	0.5	999	0.1	999	0.145	999	1.309	999	0.000	999	431	45	2.2
48543.9	10111	41.3746	92.9896	-444	WATER	0.1	999	0.6	999	0.0	999	0.180	999	2.112	999	0.000	999	434	47	2.2
48544.0	10111	41.3746	92.9887	-442	WATER	0.1	999	0.6	999	0.0	999	0.154	999	2.141	999	0.000	999	432	32	2.2
48544.1	10111	41.3746	92.9879	-441	WATER	0.1	999	0.6	999	0.0	999	0.230	999	3.633	999	0.000	999	435	39	2.3
48544.2	10111	41.3745	92.9871	-440	WATER	0.3	999	0.5	999	0.0	999	0.596	999	7.364	999	0.000	999	440	38	2.3
48544.3	10111	41.3745	92.9863	-439	WATER	0.3	999	0.5	999	0.1	999	0.716	999	5.569	999	0.000	999	449	42	2.3
48544.4	10111	41.3745	92.9854	-437	WATER	0.5	999	0.3	999	0.0	999	1.559	999	10.348	999	0.000	999	443	41	2.3
48544.5	10111	41.3745	92.9846	-437	WATER	0.5	999	0.2	999	0.1	999	2.087	999	6.959	999	0.000	999	442	46	2.3
48544.6	10111	41.3745	92.9838	-435	WATER	0.5	999	0.2	999	0.1	999	2.321	999	9.027	999	0.000	999	437	53	2.3
48544.7	10111	41.3745	92.9830	-435	WATER	0.6	999	0.1	999	0.0	999	4.746	999	15.510	999	0.000	999	440	40	2.3
48544.8	10111	41.3745	92.9822	-433	WATER	0.6	999	0.1	999	0.1	999	4.724	999	11.183	999	0.000	999	447	30	2.3
48544.9	10111	41.3745	92.9813	-433	WATER	0.7	999	0.2	999	0.1	999	3.746	999	11.173	999	0.000	999	446	42	2.3

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48545.0	10111	41.3745	92.9805	-432	WATER	0.7	999	0.2	999	0.0	999	3.378	999	16.014	999	0.000	999	441	54	2.3
48545.1	10111	41.3745	92.9797	-431	WATER	0.7	999	0.3	999	0.1	999	2.184	999	13.448	999	0.000	999	457	47	2.3
48545.2	10111	41.3745	92.9789	-431	WATER	0.7	999	0.4	999	0.0	999	1.712	999	19.674	999	0.000	999	459	39	2.3
48545.3	10111	41.3745	92.9780	-430	WATER	0.6	999	0.4	999	0.1	999	1.457	999	9.455	999	0.000	999	464	41	2.3
48545.4	10111	41.3745	92.9772	-430	WATER	0.5	999	0.5	999	0.1	999	1.037	999	7.987	999	0.000	999	493	33	2.3
48545.5	10111	41.3745	92.9764	-429	WATER	0.5	999	0.6	999	0.1	999	0.770	999	4.318	999	0.000	999	535	33	2.3
48545.6	10010	41.3745	92.9756	-429	WATER	0.4	999	1.0	999	0.2	999	0.426	999	2.121	999	4.983	999	607	45	2.3
48545.7	10010	41.3745	92.9748	-428	WATER	0.5	999	1.6	999	0.3	999	0.301	999	1.827	999	6.077	999	705	40	2.3
48545.8	10010	41.3745	92.9739	-428	WATER	0.7	999	2.0	999	0.4	999	0.360	999	1.906	999	5.291	999	835	38	2.3
48545.9	10000	41.3745	92.9731	-427	WATER	1.1	999	2.6	999	0.5	999	0.422	999	2.287	999	5.422	999	1004	41	2.3
48546.0	10000	41.3745	92.9723	-425	QAL	1.2	-2	3.3	-3	0.6	-3	0.372	0	2.049	0	5.505	-1	1169	40	2.3
48546.1	10000	41.3745	92.9715	-419	QAL	1.5	-2	3.8	-3	0.7	-2	0.395	0	2.087	0	5.281	-1	1319	44	2.3
48546.2	10000	41.3744	92.9706	-416	QAL	1.7	-1	4.3	-2	0.8	-2	0.386	0	2.088	0	5.404	-1	1449	50	2.3
48546.3	10000	41.3744	92.9698	-419	QAL	1.8	-1	4.9	-2	0.8	-2	0.377	0	2.222	0	5.888	0	1546	49	2.3
48546.4	10000	41.3744	92.9690	-423	QAL	2.2	-1	4.8	-2	0.9	-1	0.456	1	2.468	0	5.413	-1	1615	41	2.3
48546.5	10000	41.3744	92.9682	-425	QAL	2.1	-1	4.9	-2	0.9	-1	0.434	1	2.368	0	5.455	-1	1658	53	2.3
48546.6	10000	41.3744	92.9674	-425	QAL	2.4	0	4.8	-2	0.9	-1	0.501	1	2.631	1	5.254	-1	1665	44	2.3
48546.7	10000	41.3744	92.9665	-425	QAL	2.8	1	5.2	-1	0.9	-1	0.530	2	3.090	1	5.829	0	1679	47	2.3
48546.8	10000	41.3744	92.9657	-425	QAL	2.9	1	5.6	-1	0.9	-1	0.514	2	3.324	2	6.468	0	1706	41	2.3
48546.9	10000	41.3744	92.9649	-426	QAL	3.0	1	6.0	-1	0.9	-1	0.498	1	3.450	2	6.935	1	1739	42	2.3
48547.0	10000	41.3744	92.9641	-425	QAL	3.0	1	5.9	-1	0.9	-1	0.511	1	3.181	2	6.228	0	1781	37	2.3
48547.1	10000	41.3744	92.9632	-425	QAL	3.0	1	6.3	0	1.0	-1	0.478	1	3.091	1	6.472	0	1835	45	2.3
48547.2	10000	41.3744	92.9624	-425	QAL	3.1	1	6.9	0	1.0	0	0.445	1	2.977	1	6.692	1	1893	37	2.3
48547.3	10000	41.3744	92.9616	-425	QAL	2.6	1	7.6	1	1.1	0	0.348	0	2.391	0	6.866	1	1941	47	2.3
48547.4	10000	41.3744	92.9608	-425	QK	2.4	0	7.4	0	1.2	0	0.323	0	2.039	0	6.310	0	1976	39	2.3
48547.5	10000	41.3744	92.9600	-425	QK	2.3	0	7.3	0	1.3	1	0.322	0	1.837	-1	5.708	-1	1970	40	2.3
48547.6	10000	41.3744	92.9591	-424	QK	2.3	0	7.2	0	1.3	1	0.333	0	1.784	-1	5.354	-2	1944	43	2.3
48547.7	10000	41.3744	92.9583	-423	QK	2.3	0	7.2	0	1.2	1	0.319	0	1.847	-1	5.782	-1	1915	46	2.3
48547.8	10000	41.3744	92.9575	-421	QK	2.0	-1	7.2	0	1.3	1	0.280	0	1.583	-1	5.644	-1	1895	53	2.3
48547.9	10000	41.3744	92.9567	-421	QK	1.8	-1	6.8	0	1.3	1	0.267	0	1.417	-2	5.307	-2	1870	43	2.3
48548.0	10000	41.3744	92.9558	-420	QK	1.8	-1	6.3	0	1.2	1	0.285	0	1.446	-2	5.074	-2	1862	49	2.3
48548.1	10000	41.3744	92.9550	-419	QK	1.9	-1	6.4	0	1.1	1	0.294	0	1.566	-1	5.333	-2	1849	37	2.3
48548.2	10000	41.3743	92.9542	-420	QK	2.0	-1	6.5	0	1.1	1	0.310	0	1.786	-1	5.766	-1	1861	45	2.3
48548.3	10000	41.3743	92.9534	-420	QK	2.1	-1	6.6	0	1.1	1	0.317	0	1.929	-1	6.093	-1	1870	31	2.3
48548.4	10000	41.3743	92.9526	-421	QK	2.2	-1	6.8	0	1.1	1	0.325	0	2.055	0	6.326	-1	1884	34	2.3
48548.5	10000	41.3743	92.9517	-421	QK	2.5	-1	6.7	0	1.0	1	0.369	0	2.425	1	6.563	-1	1892	38	2.3
48548.6	10000	41.3743	92.9509	-422	QK	2.6	-1	6.8	0	1.0	1	0.382	0	2.709	1	7.088	1	1881	33	2.3
48548.7	10000	41.3743	92.9501	-423	QK	2.6	-1	6.9	0	1.0	1	0.353	0	2.646	1	7.505	1	1876	51	2.3
48548.8	10000	41.3743	92.9493	-424	QK	2.5	-1	6.9	0	1.0	1	0.365	0	2.650	1	7.252	1	1866	40	2.3
48548.9	10000	41.3743	92.9484	-424	QK	2.4	-1	7.1	0	1.1	1	0.345	0	2.359	0	6.834	1	1879	41	2.3
48549.0	10000	41.3743	92.9476	-424	QK	2.4	-1	6.9	0	1.1	1	0.350	0	2.282	0	6.513	1	1884	42	2.3
48549.1	10000	41.3743	92.9468	-424	QK	2.2	-1	6.8	0	1.1	1	0.327	0	2.092	0	6.393	1	1904	35	2.3
48549.2	10000	41.3743	92.9460	-426	QK	2.3	-1	6.9	0	1.1	1	0.338	0	2.152	0	6.370	1	1915	25	2.3
48549.3	10000	41.3743	92.9452	-427	QK	2.4	-1	7.0	0	1.1	1	0.343	0	2.136	0	6.231	1	1934	39	2.3
48549.4	10000	41.3743	92.9443	-427	QK	2.6	-1	7.2	0	1.1	1	0.363	0	2.241	0	6.167	1	1960	45	2.3
48549.5	10000	41.3743	92.9435	-427	QK	2.4	-1	7.0	0	1.1	1	0.343	0	1.968	-1	5.910	0	2000	35	2.3
48549.6	10000	41.3743	92.9427	-428	QK	2.6	-1	7.0	0	1.1	1	0.373	0	2.204	-1	5.904	0	2013	35	2.3
48549.7	10000	41.3743	92.9419	-429	QK	2.5	-1	7.0	0	1.1	1	0.325	0	2.057	-1	6.337	-1	2035	45	2.3
48549.8	10000	41.3743	92.9410	-431	QK	2.6	-1	7.5	0	1.1	1	0.344	0	2.084	-1	6.055	-1	2040	31	2.3
48549.9	10000	41.3743	92.9402	-433	QK	2.4	-1	7.7	1	1.1	1	0.307	-1	1.857	-1	6.050	-1	2054	34	2.3
48550.0	10000	41.3742	92.9394	-436	QK	2.2	-1	7.8	1	1.1	1	0.284	-1	1.730	-1	6.095	-1	2053	38	2.3
48550.1	10000	41.3742	92.9386	-438	QK	2.2	-1	7.7	1	1.3	1	0.290	-1	1.719	-1	5.927	-1	2050	27	2.3

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48550.2	10000	41.3742	92.9378	-441	QK	2.4	0	7.6	0	1.3	1	0.311	-1	1.871	-1	6.022	-1	2043	53	2.1
48550.3	10000	41.3742	92.9369	-444	QK	2.2	-1	7.8	1	1.2	1	0.285	-1	1.781	-1	6.259	0	2039	41	2.1
48550.4	10000	41.3742	92.9361	-448	QK	2.1	-1	7.4	0	1.2	1	0.287	-1	1.743	-1	6.073	-1	2025	37	2.1
48550.5	10000	41.3742	92.9353	-450	QK	2.3	0	7.4	0	1.2	1	0.312	-1	1.950	-1	6.254	0	2005	32	2.1
48550.6	10000	41.3742	92.9345	-452	QK	2.3	0	7.4	0	1.1	0	0.317	0	2.042	0	6.437	0	1994	38	2.1
48550.7	10000	41.3742	92.9336	-455	QK	2.5	0	7.3	0	1.1	0	0.337	0	2.203	0	6.534	0	1999	40	2.1
48550.8	10000	41.3742	92.9328	-457	QK	2.6	0	7.7	1	1.1	0	0.338	0	2.398	0	7.090	1	1997	41	2.1
48550.9	10000	41.3742	92.9320	-459	QK	2.5	0	7.6	1	1.1	-1	0.336	0	2.405	0	7.166	1	1985	34	2.1
48551.0	10000	41.3742	92.9312	-461	QK	2.5	0	7.6	1	1.1	0	0.327	0	2.311	0	7.059	1	1979	50	2.1
48551.1	10000	41.3742	92.9304	-464	QK	2.6	0	7.7	1	1.1	0	0.340	0	2.402	0	7.067	1	1979	35	2.1
48551.2	10000	41.3742	92.9295	-466	QK	2.3	-1	7.8	1	1.1	0	0.289	-1	1.980	-1	6.842	1	1989	37	2.0
48551.3	10000	41.3742	92.9287	-468	QK	2.5	0	7.9	1	1.2	0	0.309	-1	2.109	0	6.815	0	1991	39	2.0
48551.4	10000	41.3742	92.9279	-469	QK	2.5	0	8.1	1	1.2	0	0.311	-1	2.142	0	6.883	1	2001	52	2.0
48551.5	10000	41.3742	92.9271	-470	QK	2.5	0	7.4	0	1.2	1	0.332	0	2.062	0	6.212	0	2004	48	2.0
48551.6	10000	41.3742	92.9262	-470	QK	2.8	0	7.9	1	1.2	1	0.349	0	2.312	0	6.626	0	2019	46	2.0
48551.7	10000	41.3742	92.9254	-470	QK	2.7	0	7.7	1	1.2	1	0.354	0	2.246	0	6.352	0	2015	45	2.0
48551.8	10000	41.3741	92.9246	-469	QK	2.9	1	8.0	1	1.2	1	0.364	0	2.395	0	6.588	0	2038	60	2.0
48551.9	10000	41.3741	92.9238	-467	QK	3.2	1	7.9	1	1.2	1	0.412	1	2.717	1	6.599	0	2046	43	2.0
48552.0	10000	41.3741	92.9230	-465	QK	3.2	1	7.4	1	1.2	0	0.431	1	2.776	1	6.437	0	2043	39	2.0
48552.1	10000	41.3741	92.9221	-462	QK	3.2	1	7.3	0	1.2	0	0.442	1	2.793	1	6.311	0	2032	37	2.0
48552.2	10000	41.3741	92.9213	-458	QK	3.1	1	7.6	1	1.2	0	0.410	1	2.712	1	6.619	0	2021	52	2.0
48552.3	10000	41.3741	92.9205	-453	QK	3.0	1	7.1	0	1.1	0	0.414	1	2.604	1	6.292	0	1988	42	2.0
48552.4	10000	41.3741	92.9197	-445	QK	3.0	1	7.3	0	1.1	0	0.427	1	2.775	1	6.502	0	1968	45	2.0
48552.5	10000	41.3741	92.9188	-433	QK	3.0	1	6.9	0	1.1	0	0.441	1	2.709	1	6.137	0	1940	45	2.0
48552.6	10000	41.3741	92.9180	-427	QK	3.0	1	6.9	0	1.1	0	0.451	1	2.838	1	6.296	0	1930	33	2.0
48552.7	10000	41.3741	92.9172	-428	QK	3.2	1	7.0	0	1.1	0	0.464	2	3.002	2	6.475	0	1915	44	2.0
48552.8	10000	41.3741	92.9164	-424	QK	3.1	1	7.1	0	1.1	0	0.439	1	2.925	1	6.669	0	1906	38	2.0
48552.9	10000	41.3741	92.9155	-418	QK	3.2	1	6.8	-1	1.1	0	0.474	2	3.000	2	6.331	0	1910	44	2.0
48553.0	10000	41.3741	92.9147	-411	QK	3.3	2	7.0	0	1.1	0	0.467	2	2.895	1	6.194	0	1930	43	2.0
48553.1	10000	41.3741	92.9139	-405	QK	3.2	1	7.1	0	1.2	0	0.452	1	2.745	1	6.079	-1	1962	44	2.0
48553.2	10000	41.3741	92.9131	-400	QK	3.1	1	7.4	0	1.2	0	0.417	1	2.653	1	6.367	0	1964	43	2.0
48553.3	10000	41.3740	92.9122	-396	QK	3.0	1	7.7	1	1.2	0	0.384	1	2.531	1	6.588	0	1975	42	2.0
48553.4	10000	41.3740	92.9114	-393	QK	2.8	1	7.5	1	1.3	0	0.377	1	2.240	0	5.937	-1	1986	26	1.9
48553.5	10000	41.3740	92.9106	-391	QK	2.9	1	7.1	1	1.3	0	0.408	1	2.253	0	5.517	-1	1987	32	1.9
48553.6	10000	41.3740	92.9098	-389	QK	3.0	1	7.4	1	1.3	0	0.407	1	2.281	0	5.602	-1	1994	39	1.9
48553.7	10000	41.3740	92.9089	-388	QK	3.1	1	7.0	1	1.3	0	0.445	1	2.421	0	5.442	-1	1996	56	1.9
48553.8	10000	41.3740	92.9081	-387	QK	2.9	1	6.6	1	1.3	0	0.444	1	2.389	0	5.380	-2	1970	45	1.9
48553.9	10000	41.3740	92.9073	-388	QK	3.0	1	6.3	-1	1.3	0	0.475	1	2.407	0	5.072	-2	1964	39	1.9
48554.0	10000	41.3740	92.9064	-390	QK	2.8	1	6.2	-1	1.3	0	0.473	1	2.242	0	4.742	-2	1912	43	1.9
48554.1	10000	41.3740	92.9056	-392	QK	2.5	1	6.2	-1	1.2	0	0.406	1	2.153	0	5.306	-2	1862	37	1.9
48554.2	10000	41.3740	92.9048	-394	QK	2.3	1	6.2	-1	1.2	0	0.372	1	2.065	0	5.549	-1	1801	42	1.9
48554.3	10000	41.3739	92.9040	-398	QK	2.1	1	6.0	-2	1.1	0	0.359	1	2.053	0	5.714	-1	1749	41	1.9
48554.4	10000	41.3739	92.9031	-401	QK	1.9	1	6.1	-2	1.1	-1	0.305	1	1.762	-1	5.785	-1	1734	44	1.9
48554.5	10000	41.3739	92.9023	-405	QK	1.8	1	6.4	-1	1.1	-1	0.276	1	1.609	-1	5.838	-1	1730	40	1.9
48554.6	10000	41.3739	92.9015	-409	QK	1.7	2	6.8	-1	1.1	-1	0.246	1	1.516	-2	6.150	0	1734	38	1.9
48554.7	10000	41.3739	92.9007	-413	QK	1.8	2	6.8	-1	1.1	-1	0.271	1	1.628	-2	6.012	-1	1772	43	1.9
48554.8	10000	41.3739	92.8998	-417	QK	1.8	2	6.4	-1	1.2	-1	0.280	1	1.539	-2	5.490	-1	1810	39	1.9
48554.9	10000	41.3739	92.8990	-421	QK	2.0	1	6.6	-1	1.2	-1	0.305	1	1.630	-1	5.336	-2	1878	45	1.9
48555.0	10000	41.3739	92.8982	-425	QK	2.1	1	6.9	-1	1.3	-1	0.305	1	1.616	-1	5.304	-2	1926	41	1.9
48555.1	10000	41.3739	92.8974	-430	QK	2.4	1	7.0	0	1.3	-1	0.336	1	1.778	-1	5.291	-2	1946	53	1.9
48555.2	10000	41.3739	92.8965	-434	QK	2.5	1	7.1	0	1.3	-1	0.358	1	1.943	-1	5.431	-1	1965	29	1.9
48555.3	10000	41.3739	92.8957	-438	QK	2.7	0	6.9	0	1.3	-2	0.384	0	2.036	0	5.304	-2	1971	29	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48555.4	10000	41.3738	92.8949	-442	QK	2.5	0	7.3	0	1.3	2	0.341	0	1.907	-1	5.590	-1	1988	42	1.9
48555.5	10000	41.3738	92.8940	-446	QK	2.5	0	8.1	1	1.3	2	0.302	-1	1.836	-1	6.072	-1	2005	36	1.9
48555.6	10000	41.3738	92.8932	-451	QK	2.5	0	8.6	2	1.3	2	0.290	-1	1.884	-1	6.498	0	2010	43	1.9
48555.7	10000	41.3738	92.8924	-455	QK	2.1	-1	8.5	2	1.3	2	0.252	-1	1.631	-1	6.466	0	2010	62	1.9
48555.8	10000	41.3738	92.8916	-460	QK	1.9	-1	8.3	2	1.3	1	0.229	-2	1.493	-2	6.508	0	1998	44	1.9
48555.9	10000	41.3738	92.8907	-465	QK	2.0	-1	8.6	2	1.3	2	0.229	-2	1.470	-2	6.404	0	2001	51	1.9
48556.0	10000	41.3738	92.8899	-470	QK	2.1	-1	8.4	2	1.3	2	0.249	-1	1.585	-1	6.366	0	2004	38	1.9
48556.1	10000	41.3738	92.8891	-477	QK	2.3	0	8.1	1	1.3	1	0.289	-1	1.798	-1	6.222	0	1992	38	1.9
48556.2	10000	41.3738	92.8883	-485	QK	2.5	0	7.7	1	1.2	1	0.318	0	2.029	-1	6.373	0	1980	58	1.9
48556.3	10000	41.3738	92.8874	-493	QK	2.6	0	7.3	0	1.2	1	0.362	0	2.136	0	5.908	-1	1992	42	1.9
48556.4	10000	41.3737	92.8866	-500	QK	3.2	1	7.5	1	1.2	1	0.423	1	2.556	1	6.041	-1	1990	42	1.9
48556.5	10000	41.3737	92.8858	-507	QK	3.0	1	7.9	1	1.3	1	0.383	0	2.413	0	6.306	0	1996	49	1.9
48556.6	10000	41.3737	92.8849	-515	QK	3.0	1	7.7	1	1.2	1	0.383	0	2.414	0	6.304	0	1990	39	1.9
48556.7	10000	41.3737	92.8841	-525	QK	2.8	1	8.0	1	1.2	1	0.353	0	2.371	0	6.711	0	1988	48	1.9
48556.8	10000	41.3737	92.8833	-534	QK	3.0	1	8.2	1	1.1	0	0.365	0	2.623	1	7.177	1	1973	33	1.9
48556.9	10000	41.3737	92.8825	-542	QK	3.0	1	7.9	1	1.2	1	0.381	0	2.505	1	6.574	0	1966	50	1.9
48557.0	10000	41.3737	92.8817	-550	QK	2.6	0	8.0	1	1.2	0	0.326	0	2.246	0	6.883	1	1938	37	1.9
48557.1	10000	41.3737	92.8808	-556	QK	2.3	0	7.9	1	1.2	0	0.293	-1	1.998	-1	6.813	0	1921	42	1.9
48557.2	10000	41.3737	92.8800	-562	QK	2.4	0	7.7	1	1.1	0	0.312	-1	2.122	0	6.797	0	1911	39	1.9
48557.3	10000	41.3737	92.8792	-567	QK	2.4	0	7.7	1	1.1	0	0.308	-1	2.062	0	6.708	0	1906	56	1.9
48557.4	10000	41.3737	92.8783	-572	QK	2.5	0	7.4	0	1.2	0	0.338	0	2.131	0	6.304	0	1899	51	1.9
48557.5	10000	41.3736	92.8775	-575	QK	2.2	-1	7.4	0	1.2	1	0.304	-1	1.805	-1	5.929	-1	1905	35	1.9
48557.6	10000	41.3736	92.8767	-578	QK	2.6	0	7.4	0	1.2	1	0.346	0	2.164	0	6.260	0	1907	60	1.9
48557.7	10000	41.3736	92.8759	-579	QK	2.8	1	7.5	0	1.2	1	0.373	0	2.328	0	6.237	0	1919	45	1.9
48557.8	10000	41.3736	92.8750	-580	QK	3.0	1	7.5	0	1.2	1	0.397	1	2.470	0	6.226	0	1926	46	1.9
48557.9	10000	41.3736	92.8742	-581	QK	2.9	1	7.5	0	1.2	1	0.387	0	2.503	0	6.474	0	1926	40	1.9
48558.0	10000	41.3736	92.8734	-581	QK	3.0	1	7.5	0	1.1	0	0.399	1	2.613	1	6.554	0	1931	51	1.9
48558.1	10000	41.3736	92.8726	-580	QK	2.7	1	7.8	1	1.1	0	0.350	0	2.403	0	6.857	1	1935	47	1.9
48558.2	10000	41.3736	92.8717	-579	QK	2.7	1	7.9	1	1.2	0	0.342	-1	2.408	0	7.041	1	1932	47	1.9
48558.3	10000	41.3736	92.8709	-577	QK	2.5	1	8.2	1	1.2	0	0.309	-1	2.127	0	6.891	1	1929	49	1.9
48558.4	10000	41.3736	92.8701	-575	QK	2.6	1	8.2	1	1.2	0	0.314	-1	2.242	0	7.143	1	1919	34	1.9
48558.5	10000	41.3736	92.8692	-572	QK	2.4	1	8.3	1	1.2	0	0.290	-1	2.092	0	7.204	1	1931	47	1.9
48558.6	10000	41.3735	92.8684	-572	QK	2.4	1	8.5	2	1.2	0	0.280	-1	2.049	0	7.325	1	1938	41	1.9
48558.7	10000	41.3735	92.8676	-573	QK	2.4	1	8.5	2	1.1	0	0.279	-1	2.147	0	7.691	2	1939	46	1.9
48558.8	10000	41.3735	92.8668	-573	QK	2.5	1	8.2	1	1.1	0	0.305	-1	2.219	0	7.267	1	1924	39	1.9
48558.9	10000	41.3735	92.8659	-573	QK	2.4	1	8.1	1	1.1	0	0.301	-1	2.179	0	7.234	1	1920	49	1.9
48559.0	10000	41.3735	92.8651	-572	QK	2.3	1	7.8	1	1.1	0	0.298	-1	2.095	0	7.021	1	1914	43	1.9
48559.1	10000	41.3735	92.8643	-573	QK	2.3	1	7.7	1	1.2	0	0.297	-1	1.972	-1	6.646	1	1910	42	1.9
48559.2	10000	41.3735	92.8634	-573	QK	2.2	1	7.5	1	1.2	0	0.296	-1	1.900	-1	6.422	0	1898	46	1.9
48559.3	10000	41.3735	92.8626	-574	QK	2.2	1	7.3	1	1.2	0	0.309	-1	1.873	-1	6.067	-1	1883	48	1.9
48559.4	10000	41.3735	92.8618	-576	QK	2.2	1	7.2	1	1.3	0	0.301	-1	1.703	-1	5.655	-1	1884	37	1.9
48559.5	10000	41.3735	92.8610	-578	QK	2.3	1	7.4	1	1.3	0	0.309	-1	1.794	-1	5.808	-1	1894	38	1.9
48559.6	10000	41.3735	92.8602	-581	QK	2.5	1	7.2	1	1.3	0	0.342	0	1.896	-1	5.547	-1	1909	45	1.9
48559.7	10000	41.3734	92.8593	-584	QK	2.5	1	6.9	1	1.3	0	0.355	0	1.904	-1	5.360	-2	1912	52	1.9
48559.8	10000	41.3734	92.8585	-586	QK	2.6	1	7.0	1	1.3	0	0.373	0	2.009	-1	5.390	-2	1922	49	1.9
48559.9	10000	41.3734	92.8577	-589	QK	2.6	1	7.1	1	1.3	0	0.365	0	2.043	0	5.590	-1	1923	31	1.9
48560.0	10000	41.3734	92.8568	-596	QK	2.7	1	7.2	1	1.3	0	0.378	0	2.139	0	5.666	-1	1944	33	1.9
48560.1	10000	41.3734	92.8560	-603	QK	2.8	1	7.2	1	1.2	0	0.392	0	2.293	0	5.853	-1	1942	46	1.9
48560.2	10000	41.3734	92.8552	-610	QK	2.9	1	6.9	1	1.2	0	0.414	0	2.397	0	5.791	-1	1940	38	1.9
48560.3	10000	41.3734	92.8544	-617	QK	2.8	1	7.4	1	1.2	0	0.380	0	2.400	0	6.317	0	1931	44	1.9
48560.4	10000	41.3734	92.8535	-624	QK	2.7	1	7.9	1	1.2	0	0.335	0	2.310	0	6.890	1	1940	35	1.9
48560.5	10000	41.3734	92.8527	-631	QK	2.5	1	8.2	1	1.1	0	0.304	-1	2.282	0	7.506	1	1924	41	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48560.6	10000	41.3734	92.8519	-637	QK	2.8	1	8.2	1	1.1	0	0.347	0	2.611	1	7.531	1	1924	48	1.9
48560.7	10000	41.3734	92.8511	-643	QK	2.8	1	7.8	1	1.1	0	0.363	0	2.649	1	7.291	1	1915	47	1.9
48560.8	10000	41.3733	92.8502	-649	QK	2.9	1	8.0	1	1.1	0	0.365	0	2.705	1	7.415	1	1906	37	1.9
48560.9	10000	41.3733	92.8494	-656	QK	2.6	0	7.9	1	1.0	-1	0.331	0	2.509	1	7.583	2	1887	42	1.9
48561.0	10000	41.3733	92.8486	-662	QK	2.5	0	7.5	0	1.0	-1	0.334	0	2.492	0	7.453	1	1853	58	1.9
48561.1	10000	41.3733	92.8477	-667	QK	2.8	1	7.6	0	1.0	-1	0.371	0	2.783	1	7.502	1	1830	44	1.9
48561.2	10000	41.3733	92.8469	-671	QK	2.7	0	7.4	0	1.0	-1	0.373	0	2.713	1	7.277	1	1826	54	1.9
48561.3	10000	41.3733	92.8461	-674	QK	2.4	0	7.2	0	1.0	-1	0.336	0	2.315	0	6.886	1	1809	35	1.9
48561.4	10000	41.3733	92.8453	-676	QK	2.2	-1	7.5	0	1.1	-1	0.295	-1	2.110	0	7.149	1	1801	30	1.9
48561.5	10000	41.3733	92.8444	-680	QK	2.2	-1	7.5	0	1.1	-1	0.296	-1	2.096	0	7.077	1	1800	46	1.9
48561.6	10000	41.3733	92.8436	-683	QK	2.2	-1	7.6	1	1.1	0	0.294	-1	2.062	0	7.016	1	1815	51	1.9
48561.7	10000	41.3733	92.8428	-686	QK	2.4	0	7.6	0	1.1	0	0.311	-1	2.109	0	6.787	0	1837	39	1.9
48561.8	10000	41.3732	92.8420	-691	QK	2.5	0	7.6	1	1.1	0	0.335	0	2.317	0	6.925	1	1848	41	1.9
48561.9	10000	41.3732	92.8411	-695	QK	2.7	0	7.5	0	1.1	0	0.357	0	2.435	0	6.816	0	1853	30	1.9
48562.0	10000	41.3732	92.8403	-697	QK	2.7	0	7.8	1	1.1	0	0.349	0	2.456	0	7.028	1	1866	37	1.9
48562.1	10000	41.3732	92.8395	-702	QK	2.9	1	7.5	0	1.1	0	0.385	0	2.624	1	6.815	0	1862	45	1.9
48562.2	10000	41.3732	92.8387	-706	QK	2.7	0	7.2	0	1.0	-1	0.375	0	2.583	1	6.880	1	1847	41	1.9
48562.3	10000	41.3732	92.8378	-710	QK	2.8	0	7.0	0	1.0	-1	0.391	1	2.649	1	6.769	0	1835	49	1.9
48562.4	10000	41.3732	92.8370	-714	QK	2.6	0	7.2	0	1.0	-1	0.357	0	2.501	0	6.999	1	1831	45	1.9
48562.5	10000	41.3732	92.8362	-717	QK	2.2	-1	7.0	0	1.1	0	0.319	0	2.064	0	6.475	0	1833	40	1.9
48562.6	10000	41.3732	92.8353	-721	QK	1.9	-1	7.0	0	1.1	0	0.273	-1	1.745	-1	6.382	0	1831	44	1.9
48562.7	10000	41.3732	92.8345	-725	QK	1.9	-1	7.3	0	1.1	0	0.257	-1	1.712	-1	6.654	0	1827	45	1.9
48562.8	10000	41.3732	92.8337	-729	QK	1.8	-1	7.3	0	1.1	0	0.249	-1	1.654	-1	6.650	0	1833	52	1.9
48562.9	10000	41.3731	92.8329	-732	QK	2.0	-1	7.3	0	1.2	1	0.275	-1	1.693	-1	6.163	0	1861	43	1.9
48563.0	10000	41.3731	92.8320	-734	QK	2.4	0	6.9	0	1.2	0	0.341	0	2.008	-1	5.880	-1	1870	46	1.9
48563.1	10000	41.3731	92.8312	-737	QK	2.5	0	6.6	-1	1.2	0	0.384	0	2.170	0	5.656	-1	1889	37	1.9
48563.2	10000	41.3731	92.8304	-741	QK	2.8	1	6.8	-1	1.2	0	0.410	1	2.432	0	5.925	-1	1910	34	1.9
48563.3	10000	41.3731	92.8296	-744	QK	3.1	1	6.7	-1	1.1	1	0.465	1	2.740	1	5.886	-1	1923	38	1.9
48563.4	10000	41.3731	92.8287	-747	QK	3.0	1	6.2	-1	1.1	1	0.487	1	2.705	1	5.553	-1	1931	49	1.9
48563.5	10000	41.3731	92.8279	-750	QK	3.0	1	6.7	-1	1.1	1	0.449	1	2.727	1	6.069	-1	1934	45	1.9
48563.6	10000	41.3731	92.8271	-753	QK	3.0	1	7.1	0	1.1	1	0.422	1	2.780	1	6.594	0	1942	61	1.9
48563.7	10000	41.3731	92.8262	-757	QK	2.7	0	7.8	1	1.1	1	0.342	0	2.423	1	7.087	1	1963	41	1.9
48563.8	10000	41.3730	92.8254	-759	QK	2.8	0	8.1	1	1.1	1	0.341	0	2.435	1	7.136	1	1962	42	1.9
48563.9	10000	41.3730	92.8246	-761	QK	2.4	0	7.9	1	1.2	1	0.301	-1	2.045	1	6.797	1	1951	41	1.9
48564.0	10000	41.3730	92.8238	-762	QK	2.3	0	7.7	1	1.2	1	0.301	-1	1.998	-1	6.646	0	1954	49	1.9
48564.1	10000	41.3730	92.8229	-763	QK	2.4	0	7.8	1	1.2	1	0.302	-1	2.029	0	6.722	1	1932	40	1.9
48564.2	10000	41.3730	92.8221	-764	QK	2.5	0	7.8	1	1.2	1	0.325	0	2.164	1	6.667	1	1920	41	1.9
48564.3	10000	41.3730	92.8213	-763	QK	2.4	0	7.4	0	1.1	1	0.326	0	2.138	1	6.567	1	1903	49	1.9
48564.4	10000	41.3730	92.8205	-764	QK	2.4	0	7.2	0	1.1	1	0.335	0	2.131	1	6.369	0	1882	42	1.9
48564.5	10000	41.3730	92.8196	-765	QK	2.2	-1	7.1	0	1.2	1	0.314	-1	1.892	-1	6.031	-1	1883	39	1.9
48564.6	10000	41.3730	92.8188	-764	QK	2.3	-1	7.2	0	1.1	1	0.353	0	2.238	0	6.341	0	1870	47	1.9
48564.7	10000	41.3730	92.8180	-763	QK	2.2	-1	7.3	0	1.1	1	0.307	-1	2.002	-1	6.522	0	1852	60	1.9
48564.8	10000	41.3730	92.8172	-762	QK	2.3	-1	7.4	0	1.1	1	0.332	0	2.228	0	6.713	0	1879	56	1.9
48564.9	10000	41.3729	92.8163	-761	QK	2.3	0	7.1	0	1.1	1	0.352	0	2.255	0	6.404	0	1897	45	1.9
48565.0	10000	41.3729	92.8155	-759	QK	2.5	0	7.5	0	1.1	1	0.339	0	2.262	0	6.666	0	1905	52	1.9
48565.1	10000	41.3729	92.8147	-758	QK	2.4	0	7.4	0	1.1	1	0.323	0	2.064	0	6.387	0	1913	47	1.9
48565.2	10000	41.3729	92.8138	-757	QK	2.4	0	7.9	1	1.1	1	0.309	0	2.147	0	6.956	1	1901	42	1.9
48565.3	10000	41.3729	92.8130	-756	QK	2.4	0	7.9	1	1.1	1	0.303	0	2.115	0	6.983	1	1908	37	1.9
48565.4	10000	41.3729	92.8122	-755	QK	2.5	0	7.9	1	1.1	1	0.319	0	2.204	0	6.900	1	1914	50	1.9
48565.5	10000	41.3729	92.8114	-754	QK	2.6	0	8.2	1	1.2	1	0.318	0	2.247	0	7.066	1	1925	38	1.9
48565.6	10000	41.3729	92.8105	-753	QK	2.6	0	8.5	2	1.2	1	0.301	-1	2.205	0	7.328	1	1928	48	1.9
48565.7	10000	41.3729	92.8097	-753	QK	2.7	0	7.8	1	1.1	0	0.338	0	2.309	0	6.826	0	1927	54	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48565.8	10000	41.3729	92.8089	-753	QK	3.1	1	7.9	1	1.1	0	0.389	1	2.858	1	7.350	1	1922	34	1.9
48565.9	10000	41.3729	92.8081	-754	QK	3.3	2	7.2	0	1.0	-1	0.461	2	3.242	2	7.032	1	1935	29	1.9
48566.0	10000	41.3729	92.8072	-754	QK	3.2	1	7.3	0	1.0	-1	0.442	1	3.118	2	7.053	1	1943	40	1.9
48566.1	10000	41.3729	92.8064	-753	QK	3.3	2	7.6	1	1.0	-1	0.435	1	3.317	2	7.625	2	1933	60	1.9
48566.2	10000	41.3729	92.8056	-755	QK	3.2	1	7.2	0	1.0	-1	0.440	1	3.205	2	7.292	1	1903	46	1.9
48566.3	10000	41.3729	92.8048	-754	QK	3.0	1	7.2	0	1.0	-1	0.419	1	3.038	2	7.251	1	1896	46	1.9
48566.4	10000	41.3729	92.8039	-750	QK	2.9	1	7.6	1	1.0	-1	0.382	0	2.951	1	7.728	2	1888	41	1.9
48566.5	10000	41.3729	92.8031	-755	QK	2.9	1	7.8	1	1.0	-1	0.370	0	2.793	1	7.546	2	1914	37	1.9
48566.6	10000	41.3729	92.8023	-760	QK	2.8	1	8.2	1	1.1	0	0.342	0	2.536	1	7.419	1	1921	48	1.9
48566.7	10000	41.3730	92.8015	-762	QK	3.0	1	7.8	1	1.1	0	0.378	0	2.649	1	7.000	1	1927	25	1.9
48566.8	10000	41.3730	92.8006	-763	QK	2.9	1	7.7	1	1.1	0	0.381	0	2.569	1	6.742	0	1955	36	1.9
48566.9	10000	41.3730	92.7998	-763	QK	3.1	1	8.1	1	1.2	0	0.384	0	2.636	1	6.859	1	1984	52	1.9
48567.0	10000	41.3730	92.7990	-764	QK	3.2	1	7.9	1	1.2	0	0.399	1	2.734	1	6.855	1	1997	35	1.9
48567.1	10000	41.3730	92.7982	-764	QK	3.4	2	8.5	2	1.2	0	0.395	1	2.892	1	7.327	1	2012	42	1.9
48567.2	10000	41.3730	92.7973	-764	QK	3.1	1	8.4	2	1.1	0	0.364	0	2.686	1	7.381	1	2006	54	1.9
48567.3	10000	41.3730	92.7965	-764	QK	2.8	1	9.0	3	1.1	0	0.313	-1	2.508	1	8.010	2	2025	43	1.9
48567.4	10000	41.3730	92.7957	-762	QK	2.8	1	9.3	3	1.1	0	0.304	-1	2.585	1	8.504	3	2026	36	1.9
48567.5	10000	41.3730	92.7949	-761	QK	2.9	1	9.2	3	1.1	0	0.315	0	2.607	1	8.270	3	2026	39	1.9
48567.6	10000	41.3730	92.7940	-761	QK	2.9	1	8.7	2	1.1	0	0.337	0	2.698	1	8.012	2	2022	39	1.9
48567.7	10000	41.3730	92.7932	-760	QK	3.1	1	8.6	2	1.1	0	0.358	0	2.807	1	7.849	2	2031	37	1.9
48567.8	10000	41.3730	92.7924	-758	QK	3.2	1	7.7	1	1.1	0	0.411	1	2.797	1	6.813	0	2034	38	1.9
48567.9	10000	41.3730	92.7916	-757	QK	3.4	2	8.0	2	1.2	0	0.425	1	2.901	1	6.818	0	2030	47	1.9
48568.0	10000	41.3731	92.7907	-756	QK	3.5	2	7.5	1	1.1	0	0.466	2	3.091	2	6.633	0	2006	35	1.9
48568.1	10000	41.3731	92.7899	-755	QK	3.3	2	7.7	1	1.1	0	0.432	1	2.964	1	6.854	1	2010	47	1.9
48568.2	10000	41.3731	92.7891	-754	QK	3.5	2	7.9	1	1.2	0	0.447	1	3.065	2	6.850	1	2009	38	1.9
48568.3	10000	41.3731	92.7883	-752	QK	3.4	2	8.0	1	1.1	0	0.425	1	2.956	1	6.952	1	2011	45	1.9
48568.4	10000	41.3731	92.7874	-751	QK	3.4	2	8.1	2	1.2	0	0.416	1	2.892	1	6.949	1	2010	42	1.9
48568.5	10000	41.3731	92.7866	-750	QK	3.2	1	8.4	2	1.2	0	0.383	0	2.722	1	7.103	1	2012	43	1.9
48568.6	10000	41.3731	92.7858	-749	QK	3.1	1	8.0	2	1.2	0	0.387	0	2.648	1	6.848	1	2013	54	1.9
48568.7	10000	41.3731	92.7850	-748	QK	3.3	2	8.2	2	1.2	0	0.402	1	2.687	1	6.686	1	2011	45	1.9
48568.8	10000	41.3731	92.7841	-747	QK	3.3	2	7.9	1	1.2	0	0.422	1	2.762	1	6.546	1	2014	45	1.9
48568.9	10000	41.3731	92.7833	-746	QK	3.0	1	7.8	1	1.2	0	0.387	1	2.541	1	6.561	1	2000	28	1.9
48569.0	10000	41.3731	92.7825	-745	QK	3.0	1	7.7	1	1.2	0	0.392	1	2.592	1	6.606	1	2003	38	1.9
48569.1	10000	41.3731	92.7817	-745	QK	3.1	1	7.7	1	1.2	0	0.422	1	2.636	1	6.243	1	1996	45	1.9
48569.2	10000	41.3732	92.7808	-744	QK	3.0	1	7.4	1	1.2	0	0.424	1	2.596	1	6.118	-1	1980	49	1.9
48569.3	10000	41.3732	92.7800	-744	QK	3.0	1	7.1	1	1.2	0	0.431	1	2.606	1	6.047	-1	1974	32	1.9
48569.4	10000	41.3732	92.7792	-744	QK	3.0	1	7.1	1	1.2	0	0.417	1	2.553	1	6.117	-1	1974	48	1.9
48569.5	10000	41.3732	92.7784	-745	QK	3.0	1	6.5	1	1.2	0	0.453	1	2.567	1	5.665	-1	1960	42	1.9
48569.6	10000	41.3732	92.7775	-745	QK	3.0	1	6.5	1	1.2	0	0.459	1	2.578	1	5.615	-1	1962	46	1.9
48569.7	10000	41.3732	92.7767	-744	QK	3.1	1	6.4	1	1.2	0	0.486	1	2.678	1	5.512	-1	1945	39	1.9
48569.8	10000	41.3732	92.7759	-744	QK	3.0	1	6.6	1	1.1	0	0.449	1	2.665	1	5.939	-1	1938	45	1.9
48569.9	10000	41.3732	92.7751	-744	QK	3.2	1	7.0	1	1.1	0	0.462	1	2.913	1	6.305	0	1956	41	1.9
48570.0	10000	41.3732	92.7742	-744	QK	3.4	2	7.3	1	1.1	0	0.466	1	3.161	2	6.781	0	1959	51	1.9
48570.1	10000	41.3732	92.7734	-743	QK	3.6	2	7.3	1	1.1	0	0.494	1	3.337	2	6.760	0	1958	46	1.9
48570.2	10000	41.3732	92.7726	-743	QK	3.5	2	8.0	2	1.2	0	0.455	1	3.215	2	7.062	1	1979	46	1.9
48570.3	10000	41.3732	92.7718	-742	QK	3.7	2	8.0	2	1.2	0	0.457	1	3.346	2	7.325	1	1989	36	1.9
48570.4	10000	41.3732	92.7709	-742	QK	3.5	2	7.7	1	1.1	0	0.413	1	3.261	2	7.889	1	1990	40	1.9
48570.5	10000	41.3732	92.7701	-741	QK	3.6	2	7.6	1	1.1	0	0.428	1	3.404	2	7.946	1	1985	47	1.9
48570.6	10000	41.3733	92.7693	-740	QK	3.5	2	8.0	2	1.2	0	0.422	1	3.396	2	8.043	1	1970	38	1.9
48570.7	10000	41.3733	92.7685	-739	QK	3.3	2	8.0	2	1.2	0	0.381	1	3.128	2	8.216	1	1958	31	1.9
48570.8	10000	41.3733	92.7676	-738	QK	3.0	1	8.8	2	1.2	0	0.335	0	2.903	1	8.655	1	1956	42	1.9
48570.9	10000	41.3733	92.7668	-737	QK	2.8	1	8.8	2	1.0	-1	0.318	0	2.757	1	8.673	1	1926	49	1.

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48571.0	10000	41.3733	92.7660	-736	QK	2.8	1	8.7	2	1.0	-1	0.323	0	2.726	1	8.439	3	1936	39	1.8
48571.1	10000	41.3733	92.7652	-734	QK	2.9	1	8.0	1	1.0	-1	0.365	0	2.780	1	7.622	2	1952	42	1.8
48571.2	10000	41.3733	92.7643	-732	QK	2.8	1	8.0	1	1.1	0	0.352	0	2.633	1	7.473	1	1970	44	1.9
48571.3	10000	41.3733	92.7635	-731	QK	2.6	0	7.7	1	1.1	0	0.339	0	2.453	0	7.230	1	1968	40	1.8
48571.4	10000	41.3733	92.7627	-729	QK	2.9	1	7.3	0	1.1	0	0.396	1	2.553	1	6.446	0	1988	36	1.8
48571.5	10000	41.3733	92.7619	-727	QK	3.0	1	6.9	0	1.1	0	0.444	1	2.725	1	6.143	0	2004	45	1.8
48571.6	10000	41.3733	92.7610	-726	QK	3.4	2	6.7	-1	1.1	0	0.512	2	3.048	2	5.954	-1	2038	55	1.8
48571.7	10000	41.3733	92.7602	-725	QK	3.8	3	6.6	-1	1.1	0	0.569	3	3.377	2	5.935	-1	2022	44	1.8
48571.8	10000	41.3733	92.7594	-724	QK	3.6	2	6.8	-1	1.1	0	0.529	2	3.313	2	6.258	0	2012	43	1.8
48571.9	10000	41.3733	92.7586	-723	QK	3.5	2	6.8	-1	1.1	-1	0.512	2	3.269	2	6.389	0	2017	35	1.8
48572.0	10000	41.3734	92.7577	-723	QK	3.7	2	7.2	0	1.1	0	0.517	2	3.439	2	6.648	0	2032	38	1.8
48572.1	10000	41.3734	92.7569	-723	QK	3.5	2	7.3	0	1.0	-1	0.477	2	3.337	2	6.996	1	2033	34	1.8
48572.2	10000	41.3734	92.7561	-724	QK	3.5	2	7.3	0	1.1	0	0.484	2	3.243	2	6.701	0	2029	57	1.8
48572.3	10000	41.3734	92.7553	-724	QK	3.5	2	7.5	0	1.1	0	0.463	2	3.206	2	6.929	1	2015	47	1.8
48572.4	10000	41.3734	92.7544	-725	QK	3.1	2	7.5	0	1.1	0	0.418	1	2.908	1	6.958	1	2015	44	1.8
48572.5	10000	41.3734	92.7536	-725	QK	3.2	1	7.4	0	1.1	0	0.427	1	2.838	1	6.652	0	2003	38	1.8
48572.6	10000	41.3734	92.7528	-726	QK	3.4	2	7.3	0	1.2	0	0.458	1	2.919	1	6.366	0	1993	35	1.8
48572.7	10000	41.3734	92.7520	-726	QK	3.4	2	7.2	0	1.2	0	0.467	2	2.908	1	6.222	0	1993	40	1.8
48572.8	10000	41.3734	92.7511	-727	QK	3.5	2	7.4	0	1.2	1	0.476	2	2.977	1	6.251	0	1994	39	1.8
48572.9	10000	41.3734	92.7503	-726	QK	3.5	2	7.4	0	1.2	1	0.478	2	2.994	2	6.265	0	1984	39	1.8
48573.0	10000	41.3734	92.7495	-731	QK	3.5	2	7.3	0	1.2	1	0.480	2	2.961	1	6.173	0	1981	49	1.8
48573.1	10000	41.3734	92.7487	-735	QK	3.6	2	7.1	0	1.2	1	0.508	2	3.042	2	5.986	-1	1977	50	1.8
48573.2	10000	41.3734	92.7478	-736	QK	3.6	2	7.3	0	1.2	0	0.500	2	3.080	2	6.163	0	1994	31	1.8
48573.3	10000	41.3734	92.7470	-738	QK	3.6	2	7.5	0	1.1	0	0.487	2	3.155	2	6.484	0	2005	52	1.8
48573.4	10000	41.3735	92.7462	-740	QK	3.4	2	7.5	0	1.2	0	0.453	1	2.904	1	6.414	0	1999	55	1.8
48573.5	10000	41.3735	92.7454	-742	QK	3.4	2	7.5	0	1.2	0	0.453	1	2.893	1	6.382	0	1988	39	1.8
48573.6	10000	41.3735	92.7445	-743	QK	3.3	2	7.6	1	1.2	1	0.431	1	2.748	1	6.382	0	2007	45	1.8
48573.7	10000	41.3735	92.7437	-745	QK	3.2	1	7.6	1	1.2	1	0.419	1	2.652	1	6.335	0	2003	39	1.8
48573.8	10000	41.3735	92.7429	-746	QK	3.2	1	7.7	1	1.2	1	0.416	1	2.625	1	6.305	0	1995	40	1.8
48573.9	10000	41.3735	92.7421	-748	QK	3.1	1	7.7	1	1.2	1	0.403	1	2.629	1	6.522	0	1987	51	1.8
48574.0	10000	41.3735	92.7412	-749	QK	3.0	1	7.6	1	1.2	1	0.394	1	2.428	1	6.154	0	1974	45	1.8
48574.1	10000	41.3735	92.7404	-751	QK	3.1	1	7.5	1	1.2	1	0.408	1	2.517	1	6.168	0	1958	47	1.8
48574.2	10000	41.3735	92.7396	-752	QK	2.9	1	7.5	1	1.2	1	0.387	1	2.387	1	6.170	0	1959	44	1.8
48574.3	10000	41.3735	92.7388	-753	QK	3.0	1	7.5	1	1.2	1	0.418	1	2.511	1	6.003	-1	1940	35	1.8
48574.4	10000	41.3735	92.7379	-755	QK	3.1	1	7.9	1	1.2	1	0.444	1	2.568	1	5.786	-1	1949	47	1.8
48574.5	10000	41.3735	92.7371	-756	QK	2.9	1	7.0	1	1.2	1	0.411	1	2.376	1	5.779	-1	1952	47	1.8
48574.6	10000	41.3735	92.7363	-758	QK	3.1	1	6.9	1	1.2	1	0.452	1	2.520	1	5.579	-1	1946	55	1.8
48574.7	10000	41.3736	92.7355	-759	QK	3.0	1	6.9	1	1.2	1	0.429	1	2.536	1	5.906	-1	1943	43	1.8
48574.8	10000	41.3736	92.7346	-761	QK	3.1	1	7.0	1	1.2	1	0.439	1	2.531	1	5.770	-1	1960	40	1.8
48574.9	10000	41.3736	92.7338	-763	QK	3.0	1	6.8	1	1.2	1	0.444	1	2.535	1	5.715	-1	1937	44	1.8
48575.0	10000	41.3736	92.7330	-763	QK	2.8	1	7.3	0	1.2	1	0.384	1	2.317	1	6.038	-1	1918	40	1.8
48575.1	10000	41.3736	92.7322	-765	QK	2.6	1	7.3	0	1.2	0	0.355	1	2.173	1	6.120	-1	1891	44	1.8
48575.2	10000	41.3736	92.7313	-767	QK	2.7	1	7.7	0	1.2	0	0.378	1	2.249	1	5.945	-1	1873	36	1.8
48575.3	10000	41.3736	92.7305	-768	QK	2.3	1	7.4	0	1.2	-1	0.310	1	1.889	1	6.095	-1	1873	44	1.8
48575.4	10000	41.3736	92.7297	-769	QK	2.1	1	7.3	0	1.2	-1	0.290	1	1.701	1	5.856	-1	1855	43	1.8
48575.5	10000	41.3736	92.7289	-771	QK	1.8	1	7.4	0	1.2	-1	0.246	1	1.469	1	5.972	-1	1833	37	1.8
48575.6	10000	41.3736	92.7280	-773	QK	1.7	1	7.6	0	1.2	-2	0.223	1	1.361	1	6.100	-1	1831	35	1.8
48575.7	10000	41.3736	92.7272	-775	QK	1.5	1	7.5	0	1.2	-2	0.222	1	1.323	1	5.969	-1	1830	43	1.8
48575.8	10000	41.3736	92.7264	-775	QK	1.4	1	7.6	0	1.2	-2	0.194	1	1.182	1	6.029	-1	1821	34	1.9
48575.9	10000	41.3736	92.7256	-777	QK	1.6	1	7.7	0	1.2	-2	0.184	1	1.214	1	6.603	0	1827	48	1.9
48576.0	10000	41.3736	92.7247	-778	QK	1.7	1	7.8	0	1.2	-2	0.204	1	1.329	1	6.519	0	1814	39	1.9
48576.1	10000	41.3736	92.7239	-779	QK	1.7	1	7.9	0	1.2	-2	0.218	1	1.490	1	6.818	0	1807	39	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48576.2	10000	41.3737	92.7231	-780	QK	2.0	-1	7.9	1	1.1	0	0.251	-1	1.728	-1	6.872	1	1809	46	1.9
48576.3	10000	41.3737	92.7223	-781	QK	1.9	-1	7.7	1	1.2	0	0.249	-1	1.657	-1	6.648	0	1811	48	1.9
48576.4	10000	41.3737	92.7214	-783	QK	2.0	-1	7.7	1	1.2	0	0.254	-1	1.704	-1	6.720	0	1807	45	1.9
48576.5	10000	41.3737	92.7206	-784	QK	2.0	-1	7.8	1	1.2	0	0.254	-1	1.683	-1	6.628	0	1812	45	1.9
48576.6	10000	41.3737	92.7198	-785	QK	1.6	-2	7.7	1	1.2	1	0.213	-2	1.326	-2	6.217	0	1786	48	1.9
48576.7	10000	41.3737	92.7190	-787	QK	1.9	-1	7.6	0	1.2	1	0.247	-1	1.548	-2	6.273	0	1781	41	1.9
48576.8	10000	41.3737	92.7181	-789	QK	1.8	-2	7.5	0	1.3	1	0.237	-2	1.422	-2	5.999	-1	1796	40	1.9
48576.9	10000	41.3737	92.7173	-791	QK	1.7	-2	7.9	1	1.2	1	0.212	-2	1.376	-2	6.490	0	1791	37	1.9
48577.0	10000	41.3737	92.7165	-793	QK	2.1	-1	7.9	1	1.2	1	0.265	-1	1.767	-1	6.676	0	1791	39	1.9
48577.1	10000	41.3737	92.7157	-796	QK	2.2	-1	7.6	0	1.2	1	0.287	-1	1.842	-1	6.423	0	1785	48	1.9
48577.2	10000	41.3737	92.7148	-799	QK	2.2	-1	7.4	0	1.2	0	0.298	-1	1.897	-1	6.355	0	1782	46	1.9
48577.3	10000	41.3737	92.7140	-802	QK	2.4	0	7.2	0	1.2	0	0.335	0	2.078	0	6.198	0	1814	50	1.9
48577.4	10000	41.3737	92.7132	-805	QK	2.0	-1	7.4	0	1.2	0	0.274	-1	1.723	-1	6.295	0	1830	49	1.9
48577.5	10000	41.3737	92.7124	-807	QK	2.4	0	7.1	0	1.1	0	0.344	0	2.136	0	6.212	0	1814	39	1.9
48577.6	10000	41.3737	92.7115	-810	QK	2.5	0	6.6	-1	1.2	1	0.381	0	2.126	0	5.577	-1	1833	44	1.9
48577.7	10000	41.3738	92.7107	-814	QK	2.3	0	6.8	-1	1.2	1	0.346	0	1.941	-1	5.614	-1	1844	50	1.9
48577.8	10000	41.3738	92.7099	-817	QK	2.2	-1	7.0	0	1.3	1	0.310	-1	1.724	-1	5.566	-1	1865	41	1.9
48577.9	10000	41.3738	92.7091	-821	QK	2.3	-1	7.0	0	1.3	1	0.323	0	1.796	-1	5.561	-1	1863	22	1.9
48578.0	10000	41.3738	92.7082	-824	QK	2.4	0	7.0	0	1.2	1	0.346	0	2.031	0	5.873	-1	1851	42	1.9
48578.1	10000	41.3738	92.7074	-827	QK	2.7	0	6.4	-1	1.2	1	0.420	1	2.160	0	5.146	-2	1841	48	1.9
48578.2	10000	41.3738	92.7066	-831	QK	2.5	0	6.3	-1	1.2	1	0.401	1	2.062	0	5.146	-2	1852	42	1.9
48578.3	10000	41.3738	92.7058	-833	QK	2.5	0	6.4	-1	1.2	1	0.386	0	1.995	-1	5.166	-2	1823	41	1.9
48578.4	10000	41.3738	92.7049	-836	QK	2.3	0	6.0	-2	1.2	1	0.388	1	1.866	-1	4.804	-2	1812	42	1.9
48578.5	10000	41.3738	92.7041	-839	QK	2.4	0	5.9	-2	1.2	1	0.400	1	1.964	-1	4.905	-2	1793	35	1.9
48578.6	10000	41.3738	92.7033	-841	QK	2.4	0	6.1	-1	1.2	1	0.387	0	2.009	-1	5.196	-2	1792	42	1.9
48578.7	10000	41.3738	92.7025	-844	QK	2.1	-1	6.6	-1	1.2	0	0.321	0	1.791	-1	5.588	-1	1796	38	1.9
48578.8	10000	41.3738	92.7016	-847	QK	2.1	-1	7.0	0	1.1	0	0.295	-1	1.833	-1	6.218	0	1780	36	1.9
48578.9	10000	41.3738	92.7008	-849	QK	1.8	-2	7.0	0	1.1	0	0.251	-1	1.555	-2	6.198	0	1745	46	1.9
48579.0	10000	41.3738	92.7000	-850	QK	1.5	-2	6.9	0	1.1	0	0.221	-2	1.411	-2	6.384	0	1708	36	1.9
48579.1	10000	41.3739	92.6992	-852	QK	1.5	-2	6.7	-1	1.1	-1	0.228	-2	1.455	-2	6.372	0	1649	45	1.9
48579.2	10000	41.3739	92.6983	-854	QK	1.4	-2	6.4	-1	1.0	-1	0.223	-2	1.489	-2	6.684	0	1603	37	1.9
48579.3	10000	41.3739	92.6975	-856	QK	1.5	-2	6.0	-2	1.0	-1	0.249	-1	1.569	-1	6.296	0	1547	41	1.9
48579.4	10000	41.3739	92.6967	-857	QK	1.5	-2	5.5	-2	1.0	-1	0.269	-1	1.533	-2	5.695	-1	1487	42	1.9
48579.5	10000	41.3739	92.6959	-859	QK	1.4	-2	5.7	-2	0.9	-2	0.247	-1	1.498	-2	6.059	-1	1467	36	1.9
48579.6	10000	41.3739	92.6950	-861	QK	1.4	-2	6.0	-2	0.9	-2	0.233	-2	1.493	-2	6.413	0	1456	44	1.9
48579.7	10000	41.3739	92.6942	-862	QK	1.5	-2	6.1	-2	0.9	-2	0.249	-1	1.635	-1	6.577	0	1467	42	1.9
48579.8	10000	41.3739	92.6934	-863	QK	1.5	-2	6.2	-1	0.9	-2	0.238	-2	1.640	-1	6.889	1	1490	44	1.9
48579.9	10000	41.3739	92.6926	-864	QK	1.8	-1	6.4	-1	0.9	-2	0.287	-1	2.047	0	7.137	1	1511	36	1.9
48580.0	10000	41.3739	92.6918	-865	QK	1.8	-1	6.6	-1	0.9	-2	0.275	-1	2.085	0	7.572	2	1534	38	1.9
48580.1	10000	41.3738	92.6910	-866	QK	1.9	-1	7.0	0	0.9	-2	0.268	-1	2.052	0	7.669	2	1573	37	1.9
48580.2	10000	41.3738	92.6901	-867	QK	1.7	-2	6.7	-1	1.0	-1	0.257	-1	1.807	-1	7.037	1	1601	37	1.9
48580.3	10000	41.3738	92.6893	-868	QK	2.2	-1	6.4	-1	1.0	-1	0.341	0	2.151	0	6.304	0	1637	42	1.9
48580.4	10000	41.3738	92.6885	-868	QK	2.2	-1	6.3	-1	1.0	-1	0.356	0	2.213	0	6.223	0	1666	37	1.9
48580.5	10000	41.3738	92.6877	-869	QK	2.4	0	6.5	-1	1.1	0	0.375	0	2.287	0	6.096	-1	1710	58	1.9
48580.6	10000	41.3738	92.6869	-869	QK	2.3	0	6.4	-1	1.1	0	0.363	0	2.086	0	5.740	-1	1746	46	1.9
48580.7	10000	41.3737	92.6861	-870	QAL	2.2	0	6.6	0	1.1	1	0.337	0	1.908	-1	5.663	-1	1776	51	1.9
48580.8	10000	41.3737	92.6853	-871	QAL	2.3	0	6.2	0	1.2	1	0.375	0	1.952	-1	5.208	-1	1793	47	1.9
48580.9	10000	41.3737	92.6844	-870	QAL	2.6	0	6.1	0	1.2	1	0.433	1	2.160	0	4.987	-1	1816	38	1.9
48581.0	10000	41.3737	92.6836	-870	QAL	2.2	0	6.6	0	1.2	1	0.342	0	1.942	-1	5.673	-1	1831	41	1.9
48581.1	10000	41.3737	92.6828	-870	QAL	2.4	0	6.4	0	1.2	1	0.366	0	1.966	-1	5.374	-1	1862	41	1.9
48581.2	10000	41.3737	92.6820	-870	QAL	2.3	0	6.7	0	1.2	1	0.351	0	1.971	-1	5.607	-1	1866	45	1.9
48581.3	10000	41.3736	92.6812	-871	QAL	2.5	0	6.4	0	1.2	1	0.384	0	2.039	0	5.312	-1	1876	44	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48581.4	10000	41.3736	92.6804	-871	QAL	2.5	0	6.6	0	1.2	1	0.375	0	2.103	0	5.614	-1	1886	45	1.9
48581.5	10000	41.3736	92.6796	-870	QAL	2.5	0	7.4	1	1.1	0	0.341	0	2.253	0	6.606	1	1897	37	1.9
48581.6	10000	41.3736	92.6788	-870	QAL	2.4	0	7.6	1	1.1	0	0.314	-1	2.261	0	7.203	1	1881	42	1.9
48581.7	10000	41.3736	92.6779	-870	QAL	2.6	0	7.3	1	1.0	0	0.354	0	2.462	0	6.954	1	1867	42	1.9
48581.8	10000	41.3736	92.6771	-870	QAL	2.5	0	7.6	1	1.1	0	0.328	-1	2.353	0	7.164	1	1849	45	1.9
48581.9	10000	41.3735	92.6763	-870	QAL	2.4	0	7.6	1	1.0	0	0.314	-1	2.317	0	7.383	2	1844	43	1.9
48582.0	10000	41.3735	92.6755	-870	QAL	2.4	0	7.8	1	1.0	-1	0.310	-1	2.433	0	7.835	2	1857	33	1.9
48582.1	10000	41.3735	92.6747	-869	QAL	2.6	0	7.6	1	1.0	0	0.348	0	2.608	1	7.495	2	1867	34	1.9
48582.2	10000	41.3735	92.6739	-869	QAL	2.6	0	7.3	1	1.0	0	0.354	0	2.559	0	7.220	1	1873	41	1.9
48582.3	10000	41.3735	92.6730	-869	QAL	2.6	0	7.3	1	1.0	0	0.364	0	2.540	0	6.979	1	1896	36	1.9
48582.4	10000	41.3735	92.6722	-869	QAL	2.5	0	7.6	1	1.1	0	0.331	-1	2.345	0	7.076	1	1901	40	1.9
48582.5	10000	41.3734	92.6714	-869	QAL	2.3	0	7.7	1	1.1	0	0.303	-1	2.202	0	7.263	1	1902	30	1.9
48582.6	10000	41.3734	92.6706	-868	QAL	2.3	0	7.7	1	1.1	0	0.302	-1	2.112	0	6.993	1	1907	39	1.8
48582.7	10000	41.3734	92.6698	-868	QAL	2.2	0	7.9	1	1.2	1	0.278	-1	1.904	-1	6.860	1	1886	37	1.8
48582.8	10000	41.3734	92.6690	-868	QAL	2.1	-1	7.9	1	1.2	1	0.262	-1	1.729	-1	6.597	1	1867	37	1.8
48582.9	10000	41.3734	92.6682	-867	QAL	2.2	0	7.8	1	1.2	1	0.284	-1	1.779	-1	6.271	0	1853	38	1.8
48583.0	10000	41.3734	92.6674	-867	QAL	2.1	-1	7.8	1	1.2	1	0.272	-1	1.723	-1	6.333	0	1820	45	1.8
48583.1	10000	41.3733	92.6665	-866	QAL	2.3	0	7.4	1	1.2	1	0.307	-1	1.858	-1	6.056	0	1791	37	1.8
48583.2	10000	41.3733	92.6657	-865	QAL	2.5	0	6.8	0	1.2	1	0.374	0	2.069	0	5.526	-1	1765	40	1.8
48583.3	10000	41.3733	92.6649	-864	QK	2.6	0	6.5	-1	1.2	1	0.405	1	2.193	0	5.409	-2	1725	47	1.8
48583.4	10000	41.3733	92.6641	-863	QK	2.6	0	6.1	-2	1.2	1	0.431	1	2.269	0	5.265	-2	1688	44	1.8
48583.5	10000	41.3733	92.6633	-863	QK	2.5	0	5.8	-2	1.1	0	0.433	1	2.273	0	5.251	-2	1663	34	1.8
48583.6	10000	41.3733	92.6625	-862	QK	2.2	-1	5.5	-2	1.1	0	0.394	1	2.040	0	5.176	-2	1637	41	1.8
48583.7	10000	41.3732	92.6617	-861	QK	2.2	-1	5.4	-2	1.0	-1	0.405	1	2.098	0	5.187	-2	1649	40	1.8
48583.8	10000	41.3732	92.6609	-859	QK	2.1	-1	5.2	-3	1.0	-1	0.398	1	1.988	-1	4.988	-2	1670	45	1.8
48583.9	10000	41.3732	92.6600	-857	QK	2.0	-1	5.8	-2	1.0	-1	0.350	0	1.950	-1	5.580	-1	1683	52	1.8
48584.0	10000	41.3732	92.6592	-857	QK	2.1	-1	5.8	-2	1.0	-1	0.355	0	2.047	0	5.768	-1	1715	42	1.8
48584.1	10000	41.3732	92.6584	-857	QK	2.0	-1	6.1	-2	1.1	0	0.337	0	1.924	-1	5.708	-1	1742	37	1.7
48584.2	10000	41.3732	92.6576	-855	QK	2.3	0	6.2	-1	1.1	0	0.376	0	2.180	0	5.793	-1	1771	40	1.7
48584.3	10000	41.3731	92.6568	-853	QK	2.6	0	6.3	-1	1.1	1	0.419	1	2.468	0	5.884	-1	1902	44	1.7
48584.4	10000	41.3731	92.6560	-851	QK	2.8	0	6.4	-1	1.1	1	0.435	1	2.616	1	6.011	-1	1815	44	1.7
48584.5	10000	41.3731	92.6552	-846	QK	2.8	0	6.6	-1	1.1	1	0.420	1	2.627	1	6.261	0	1830	37	1.7
48584.6	10000	41.3731	92.6543	-842	QK	2.8	0	6.8	-1	1.1	1	0.415	1	2.648	1	6.384	0	1850	43	1.7
48584.7	10000	41.3731	92.6535	-846	QK	2.8	0	7.2	0	1.1	1	0.382	0	2.493	1	6.521	0	1868	49	1.7
48584.8	10000	41.3731	92.6527	-847	QK	2.7	0	7.5	0	1.1	1	0.365	0	2.604	1	7.137	1	1892	48	1.7
48584.9	10000	41.3730	92.6519	-845	QK	2.6	0	7.8	1	1.1	1	0.340	0	2.450	1	7.203	1	1911	29	1.7
48585.0	10000	41.3730	92.6511	-844	QK	2.6	0	7.9	1	1.1	1	0.332	0	2.388	0	7.198	1	1931	29	1.7
48585.1	10000	41.3730	92.6503	-842	QK	2.7	0	8.0	1	1.1	1	0.332	0	2.347	0	7.060	1	1948	43	1.7
48585.2	10000	41.3730	92.6495	-841	QK	2.8	0	8.3	1	1.1	1	0.344	0	2.479	0	7.204	1	1950	45	1.7
48585.3	10000	41.3730	92.6487	-840	QK	2.8	0	8.1	1	1.2	1	0.352	0	2.454	0	6.981	1	1969	46	1.7
48585.4	10000	41.3730	92.6478	-839	QK	3.1	0	7.7	1	1.2	1	0.406	1	2.695	1	6.636	1	1981	35	1.7
48585.5	10000	41.3729	92.6470	-838	QK	3.2	0	7.7	1	1.2	1	0.409	1	2.688	1	6.573	0	1974	41	1.6
48585.6	10000	41.3729	92.6462	-836	QK	3.2	0	7.7	1	1.2	1	0.409	1	2.706	1	6.609	0	1983	40	1.6
48585.7	10000	41.3729	92.6454	-835	QK	3.2	0	7.3	1	1.2	1	0.387	1	2.737	1	7.066	1	1980	41	1.6
48585.8	10000	41.3729	92.6446	-834	QK	2.9	0	7.4	1	1.2	1	0.350	0	2.484	1	7.092	1	1965	35	1.6
48585.9	10000	41.3729	92.6438	-834	QK	2.8	0	7.3	1	1.2	1	0.334	0	2.371	1	7.097	1	1953	52	1.6
48586.0	10000	41.3729	92.6430	-833	QK	2.8	0	7.3	1	1.2	1	0.337	0	2.446	0	7.263	1	1929	40	1.6
48586.1	10000	41.3728	92.6421	-832	QK	2.6	0	7.6	1	1.1	0	0.302	-1	2.374	0	7.850	2	1899	51	1.6
48586.2	10000	41.3728	92.6413	-832	QK	2.7	0	7.7	1	1.1	0	0.309	-1	2.376	0	7.684	2	1902	33	1.6
48586.3	10000	41.3728	92.6405	-832	QK	2.6	0	7.7	1	1.1	0	0.304	-1	2.331	0	7.670	2	1886	54	1.6
48586.4	10000	41.3728	92.6397	-832	QK	2.7	0	8.1	1	1.1	0	0.331	0	2.346	0	7.085	1	1889	44	1.6
48586.5	10000	41.3728	92.6389	-832	QK	2.7	0	8.0	1	1.1	0	0.330	0	2.399	0	7.260	1	1878	40	1.6

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48586.6	10000	41.3728	92.6381	-832	QK	2.8	1	8.2	1	1.1	0	0.342	0	2.469	0	7.210	1	1890	50	1.6
48586.7	10000	41.3728	92.6373	-832	QK	3.0	1	8.0	1	1.1	0	0.376	0	2.636	0	7.018	1	1895	48	1.6
48586.8	10000	41.3727	92.6364	-832	QK	2.9	1	7.7	1	1.2	0	0.376	0	2.490	0	6.621	0	1900	37	1.6
48586.9	10000	41.3727	92.6356	-833	QK	2.9	1	7.6	1	1.2	0	0.377	0	2.497	0	6.619	0	1903	43	1.6
48587.0	10000	41.3727	92.6348	-835	QK	2.9	1	7.7	1	1.2	0	0.378	0	2.483	0	6.574	0	1906	50	1.6
48587.1	10000	41.3727	92.6340	-836	QK	3.0	1	7.7	1	1.2	0	0.386	0	2.534	1	6.572	0	1910	46	1.6
48587.2	10000	41.3727	92.6332	-837	QK	3.2	1	7.5	0	1.2	1	0.420	1	2.661	1	6.329	0	1924	36	1.6
48587.3	10000	41.3727	92.6324	-839	QK	3.1	1	7.3	0	1.2	1	0.427	1	2.704	1	6.340	0	1933	58	1.6
48587.4	10000	41.3726	92.6316	-841	QK	3.0	1	7.4	0	1.2	1	0.404	1	2.458	0	6.089	-1	1936	43	1.6
48587.5	10000	41.3726	92.6308	-842	QK	3.1	1	7.3	0	1.2	1	0.424	1	2.556	1	6.032	-1	1939	38	1.6
48587.6	10000	41.3726	92.6299	-845	QK	3.1	1	7.0	0	1.2	1	0.438	1	2.498	0	5.698	-1	1937	42	1.6
48587.7	10000	41.3726	92.6291	-846	QK	3.0	1	7.0	0	1.2	1	0.429	1	2.429	0	5.661	-1	1949	42	1.6
48587.8	10000	41.3726	92.6283	-847	QK	2.9	1	7.5	0	1.2	1	0.388	1	2.365	0	6.088	-1	1941	48	1.6
48587.9	10000	41.3726	92.6275	-851	QK	2.7	0	7.5	0	1.2	1	0.362	0	2.198	0	6.065	-1	1936	42	1.6
48588.0	10000	41.3725	92.6267	-855	QK	2.8	1	7.4	0	1.3	1	0.378	0	2.219	0	5.871	-1	1932	56	1.6
48588.1	10000	41.3725	92.6259	-859	QK	2.8	0	7.1	0	1.2	1	0.385	0	2.287	0	5.933	-1	1925	50	1.6
48588.2	10000	41.3725	92.6251	-861	QK	2.7	0	7.3	0	1.2	1	0.364	0	2.142	0	5.886	-1	1915	44	1.6
48588.3	10000	41.3725	92.6242	-865	QK	2.6	0	7.3	0	1.3	1	0.353	0	2.050	0	5.813	-1	1919	30	1.6
48588.4	10000	41.3725	92.6234	-867	QK	2.7	0	6.9	0	1.2	1	0.394	1	2.262	0	5.746	-1	1897	35	1.6
48588.5	10000	41.3725	92.6226	-870	QK	2.9	1	6.1	-1	1.2	1	0.466	2	2.348	0	5.035	-2	1878	47	1.6
48588.6	10000	41.3724	92.6218	-872	QK	2.8	1	6.2	-1	1.2	0	0.461	2	2.437	0	5.291	-2	1848	31	1.6
48588.7	10000	41.3724	92.6210	-875	QK	2.5	1	6.3	-1	1.1	0	0.406	1	2.255	0	5.556	-1	1805	46	1.6
48588.8	10000	41.3724	92.6202	-877	QK	2.5	0	6.4	-1	1.1	0	0.385	0	2.170	0	5.634	-1	1781	35	1.6
48588.9	10000	41.3724	92.6194	-879	QK	2.5	0	6.4	-1	1.1	0	0.393	1	2.366	0	6.017	-1	1755	58	1.6
48589.0	10000	41.3724	92.6185	-882	QK	2.6	0	6.4	-1	1.0	-1	0.403	1	2.628	1	6.519	0	1733	59	1.6
48589.1	10000	41.3723	92.6177	-883	QK	2.4	0	6.6	-1	1.0	-1	0.369	1	2.432	0	6.591	0	1740	44	1.6
48589.2	10000	41.3723	92.6169	-884	QK	2.4	0	7.0	0	1.0	-1	0.339	1	2.384	0	7.040	1	1757	45	1.6
48589.3	10000	41.3723	92.6161	-885	QK	2.7	1	7.0	0	1.0	-1	0.382	1	2.763	1	7.234	1	1777	30	1.6
48589.4	10000	41.3723	92.6153	-886	QK	3.0	1	7.4	0	1.1	-1	0.409	1	2.936	1	7.173	1	1828	36	1.6
48589.5	10000	41.3723	92.6145	-887	QK	2.8	1	7.4	0	1.1	-1	0.385	1	2.696	1	7.000	1	1855	43	1.6
48589.6	10000	41.3723	92.6137	-887	QK	2.9	1	7.8	0	1.1	-1	0.377	1	2.561	1	6.793	1	1900	35	1.6
48589.7	10000	41.3723	92.6129	-888	QK	3.0	1	8.4	1	1.2	-1	0.352	1	2.501	0	7.112	1	1917	47	1.6
48589.8	10000	41.3722	92.6120	-888	QK	2.8	1	8.6	1	1.2	-1	0.322	0	2.303	0	7.161	1	1925	44	1.6
48589.9	10000	41.3722	92.6112	-888	QK	2.7	1	8.7	1	1.2	-1	0.314	-1	2.188	0	6.959	1	1928	36	1.6
48590.0	10000	41.3722	92.6104	-888	QK	2.5	1	8.8	1	1.3	-1	0.282	-1	1.859	-1	6.596	1	1946	49	1.6
48590.1	10000	41.3722	92.6096	-889	QK	2.3	1	8.4	1	1.3	-1	0.275	-1	1.791	-1	6.512	1	1920	44	1.6
48590.2	10000	41.3722	92.6088	-889	QK	2.5	1	8.8	1	1.3	-1	0.285	-1	1.929	-1	6.772	1	1929	40	1.6
48590.3	10000	41.3722	92.6080	-889	QK	2.4	1	8.6	1	1.3	-1	0.279	-1	1.881	-1	6.739	1	1917	42	1.6
48590.4	10000	41.3721	92.6072	-889	QK	2.6	1	8.2	1	1.3	-1	0.324	0	2.100	0	6.485	1	1919	44	1.6
48590.5	10000	41.3721	92.6063	-890	QK	2.9	1	7.9	1	1.3	-1	0.368	0	2.302	0	6.250	1	1902	49	1.6
48590.6	10000	41.3721	92.6055	-890	QK	2.8	1	7.9	1	1.2	-1	0.359	0	2.428	0	6.771	1	1883	30	1.6
48590.7	10000	41.3721	92.6047	-890	QK	2.7	1	7.5	1	1.1	-1	0.360	0	2.449	0	6.798	1	1861	51	1.6
48590.8	10000	41.3721	92.6039	-890	QK	2.7	1	7.4	1	1.1	-1	0.359	0	2.476	0	6.894	1	1836	33	1.6
48590.9	10000	41.3720	92.6031	-890	QK	2.8	1	7.2	1	1.0	-1	0.384	0	2.684	1	6.997	1	1786	50	1.6
48591.0	10000	41.3720	92.6023	-890	QK	2.6	1	7.1	0	0.9	-2	0.369	0	2.821	1	7.639	1	1759	45	1.6
48591.1	10000	41.3720	92.6015	-890	QK	2.3	1	7.3	0	0.9	-2	0.320	0	2.501	0	7.821	2	1734	37	1.6
48591.2	10000	41.3720	92.6006	-890	QK	2.1	1	7.7	0	1.0	-2	0.306	-1	2.593	0	8.463	3	1738	60	1.6
48591.3	10000	41.3720	92.5998	-889	QK	2.2	1	7.5	0	1.0	-1	0.283	-1	2.094	0	7.401	2	1745	46	1.6
48591.4	10000	41.3720	92.5990	-889	QK	2.2	-1	7.9	0	1.1	-1	0.277	-1	2.094	0	7.553	2	1761	49	1.6
48591.5	10000	41.3719	92.5982	-888	QK	2.2	-1	8.0	1	1.1	-1	0.277	-1	1.993	-1	7.191	1	1781	44	1.6
48591.6	10000	41.3719	92.5974	-887	QK	2.3	0	8.1	1	1.1	-1	0.284	-1	2.058	0	7.254	1	1824	42	1.6
48591.7	10000	41.3719	92.5966	-887	QK	2.4	0	8.1	1	1.2	1	0.304	-1	2.004	-1	6.600	0	1856	40	1.6

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48591.8	10000	41.3719	92.5958	-887	QK	2.3	0	8.2	1	1.3	1	0.280	-1	1.819	-1	6.507	0	1881	41	1.6
48591.9	10000	41.3719	92.5950	-887	QK	2.3	0	8.0	1	1.3	1	0.286	-1	1.805	-1	6.307	0	1905	37	1.6
48592.0	10000	41.3719	92.5941	-887	QK	2.5	0	8.2	1	1.2	1	0.307	-1	2.060	0	6.702	0	1915	43	1.6
48592.1	10000	41.3718	92.5933	-886	QK	2.9	1	7.9	1	1.2	1	0.362	0	2.342	0	6.472	0	1924	54	1.6
48592.2	10000	41.3718	92.5925	-886	QK	2.8	1	7.9	1	1.2	1	0.355	0	2.330	0	6.555	0	1951	39	1.6
48592.3	10000	41.3718	92.5917	-886	QK	2.8	1	7.9	1	1.2	1	0.352	0	2.262	0	6.426	0	1958	56	1.6
48592.4	10000	41.3718	92.5909	-886	QK	2.7	0	8.1	1	1.2	1	0.339	0	2.286	0	6.746	0	1968	55	1.6
48592.5	10000	41.3718	92.5901	-886	QK	2.9	1	7.9	1	1.2	0	0.371	0	2.510	1	6.766	0	1953	45	1.6
48592.6	10000	41.3718	92.5892	-886	QK	2.9	1	7.7	1	1.2	0	0.377	0	2.484	0	6.594	0	1930	38	1.6
48592.7	10000	41.3717	92.5884	-886	QK	3.1	1	7.4	0	1.2	0	0.421	1	2.695	1	6.405	0	1934	39	1.6
48592.8	10000	41.3717	92.5876	-886	QK	3.0	1	7.3	0	1.1	0	0.414	1	2.651	1	6.402	0	1919	40	1.6
48592.9	10000	41.3717	92.5868	-886	QK	3.3	2	7.4	0	1.2	0	0.441	1	2.765	1	6.275	0	1934	36	1.6
48593.0	10000	41.3717	92.5860	-885	QK	3.1	1	7.4	0	1.2	1	0.420	1	2.621	1	6.238	0	1928	37	1.7
48593.1	10000	41.3717	92.5852	-885	QK	3.0	1	7.0	0	1.2	1	0.436	1	2.491	0	5.711	-1	1918	43	1.7
48593.2	10000	41.3717	92.5844	-885	QK	3.1	1	7.2	0	1.2	1	0.435	1	2.538	1	5.835	-1	1938	44	1.7
48593.3	10000	41.3716	92.5836	-886	QK	3.1	1	7.6	0	1.3	1	0.404	1	2.429	0	6.008	-1	1953	53	1.7
48593.4	10000	41.3716	92.5827	-886	QK	2.7	1	7.8	1	1.3	1	0.346	0	2.130	0	6.163	0	1956	46	1.7
48593.5	10000	41.3716	92.5819	-886	QK	2.4	0	8.1	1	1.3	2	0.302	-1	1.838	-1	6.090	-1	1970	49	1.7
48593.6	10000	41.3716	92.5811	-886	QK	2.3	-1	7.7	1	1.3	1	0.295	-1	1.790	-1	6.076	-1	1946	34	1.7
48593.7	10000	41.3716	92.5803	-886	QK	2.3	0	7.5	0	1.3	1	0.311	-1	1.816	-1	5.839	-1	1957	35	1.7
48593.8	10000	41.3716	92.5795	-886	QK	2.4	0	7.7	1	1.2	1	0.311	-1	1.961	-1	6.299	0	1954	44	1.7
48593.9	10000	41.3715	92.5787	-887	QK	2.3	0	7.5	1	1.2	1	0.303	-1	1.929	-1	6.375	0	1945	37	1.7
48594.0	10000	41.3715	92.5779	-886	QK	2.5	0	7.4	1	1.2	1	0.340	0	2.089	0	6.143	0	1934	43	1.7
48594.1	10000	41.3715	92.5771	-887	QK	2.6	0	7.4	0	1.2	1	0.352	0	2.241	0	6.368	0	1918	41	1.7
48594.2	10000	41.3715	92.5762	-887	QK	2.8	1	7.1	0	1.1	0	0.403	1	2.607	1	6.476	0	1896	31	1.7
48594.3	10000	41.3715	92.5754	-887	QK	2.8	1	7.4	0	1.1	0	0.376	0	2.474	0	6.588	0	1882	36	1.7
48594.4	10000	41.3714	92.5746	-887	QK	2.7	0	7.6	0	1.1	0	0.357	0	2.499	0	6.994	1	1864	38	1.7
48594.5	10000	41.3714	92.5738	-887	QK	2.7	0	7.6	0	1.1	0	0.357	0	2.430	0	6.802	0	1845	40	1.7
48594.6	10000	41.3714	92.5730	-886	QK	2.7	0	7.5	0	1.1	0	0.366	0	2.390	0	6.532	0	1833	46	1.7
48594.7	10000	41.3714	92.5722	-886	QK	2.4	0	7.4	0	1.2	0	0.319	0	2.034	0	6.383	0	1856	42	1.7
48594.8	10000	41.3714	92.5714	-885	QK	2.4	0	7.8	1	1.2	1	0.306	-1	2.007	-1	6.554	0	1872	34	1.7
48594.9	10000	41.3714	92.5705	-883	QK	2.2	-1	8.2	1	1.2	1	0.265	-1	1.771	-1	6.688	0	1880	33	1.7
48595.0	10000	41.3713	92.5697	-882	QK	2.1	-1	8.2	1	1.2	1	0.260	-1	1.709	-1	6.567	0	1882	35	1.7
48595.1	10000	41.3713	92.5689	-880	QK	2.1	-1	8.1	1	1.3	1	0.256	-1	1.647	-1	6.439	0	1897	46	1.7
48595.2	10000	41.3713	92.5681	-877	QK	1.9	-1	8.0	1	1.2	1	0.239	-2	1.547	-2	6.468	0	1908	49	1.7
48595.3	10000	41.3713	92.5673	-875	QK	1.7	-2	7.9	1	1.3	1	0.218	-2	1.362	-2	6.234	0	1912	32	1.7
48595.4	10000	41.3713	92.5665	-873	QK	1.8	-1	7.9	1	1.3	1	0.233	-2	1.461	-2	6.270	0	1893	41	1.7
48595.5	10000	41.3713	92.5657	-871	QK	2.0	-1	7.2	0	1.2	1	0.278	-1	1.625	-1	5.836	-1	1882	47	1.7
48595.6	10000	41.3712	92.5648	-869	QK	2.2	-1	7.1	0	1.2	1	0.319	0	1.885	-1	5.916	-1	1874	42	1.7
48595.7	10000	41.3712	92.5640	-866	QK	2.4	0	7.1	0	1.2	1	0.333	0	2.028	-1	6.082	-1	1878	44	1.7
48595.8	10000	41.3712	92.5632	-862	QK	2.3	-1	6.8	-1	1.2	1	0.332	0	1.883	-1	5.673	-1	1852	47	1.8
48595.9	10000	41.3712	92.5624	-862	QK	2.6	0	6.6	-1	1.2	1	0.396	1	2.160	0	5.454	-1	1855	52	1.8
48596.0	10000	41.3712	92.5616	-864	QK	2.8	1	6.6	-1	1.2	1	0.425	1	2.299	0	5.405	-2	1860	48	1.8
48596.1	10000	41.3712	92.5608	-865	QK	2.8	0	6.5	-1	1.1	1	0.424	1	2.418	0	5.701	-1	1870	40	1.8
48596.2	10000	41.3711	92.5600	-866	QK	2.8	0	6.7	-1	1.2	1	0.411	1	2.375	0	5.773	-1	1872	43	1.8
48596.3	10000	41.3711	92.5591	-868	QK	2.5	0	6.7	-1	1.2	1	0.376	0	2.171	0	5.768	-1	1873	38	1.8
48596.4	10000	41.3711	92.5583	-869	QK	2.7	0	6.6	-1	1.1	1	0.402	1	2.320	0	5.771	-1	1875	35	1.8
48596.5	10000	41.3712	92.5574	-870	QK	2.7	0	6.7	-1	1.1	1	0.401	1	2.415	0	6.019	-1	1880	31	1.8
48596.6	10000	41.3712	92.5566	-872	QK	2.3	0	7.1	0	1.1	0	0.325	0	2.109	0	6.489	0	1877	30	1.8
48596.7	10000	41.3712	92.5558	-873	QK	2.4	0	7.1	0	1.1	0	0.338	0	2.127	0	6.295	0	1892	37	1.8
48596.8	10000	41.3712	92.5549	-874	QK	2.4	0	7.3	0	1.2	0	0.331	0	2.041	0	6.172	0	1903	43	1.8
48596.9	10000	41.3712	92.5541	-876	QK	2.2	-1	7.4	0	1.2	1	0.294	-1	1.832	-1	6.226	0	1897	46	1.8

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48597.0	10000	41.3712	92.5532	-877	QK	2.2	-1	7.2	0	1.2	1	0.308	-1	1.786	-1	5.794	-1	1899	37	1.8
48597.1	10000	41.3712	92.5524	-878	QK	2.0	-1	7.5	0	1.3	1	0.262	-1	1.519	-2	5.800	-1	1908	36	1.8
48597.2	10000	41.3712	92.5516	-879	QK	2.1	-1	7.5	0	1.2	1	0.278	-1	1.692	-1	6.086	-1	1893	46	1.8
48597.3	10000	41.3712	92.5507	-880	QK	2.1	-1	7.7	-1	1.2	1	0.274	-1	1.722	-1	6.289	0	1868	40	1.8
48597.4	10000	41.3712	92.5499	-882	QK	1.9	-1	7.7	-1	1.2	1	0.251	-1	1.611	-1	6.428	0	1841	51	1.8
48597.5	10000	41.3712	92.5490	-883	QK	1.9	-1	7.4	0	1.1	0	0.261	-1	1.700	-1	6.515	0	1791	44	1.8
48597.6	10000	41.3712	92.5482	-884	QK	2.0	-1	7.3	0	1.1	0	0.269	-1	1.769	-1	6.573	0	1788	46	1.8
48597.7	10000	41.3712	92.5473	-885	QK	1.8	-2	7.7	-1	1.1	0	0.229	-2	1.584	-1	6.907	1	1792	33	1.8
48597.8	10000	41.3712	92.5465	-886	QK	1.6	-2	7.1	0	1.1	0	0.228	-2	1.487	-2	6.525	0	1773	45	1.9
48597.9	10000	41.3712	92.5457	-888	QK	1.7	-2	7.4	0	1.2	0	0.227	-2	1.430	-2	6.308	0	1799	46	1.9
48598.0	10000	41.3713	92.5448	-888	QAL	1.6	-2	7.3	1	1.2	1	0.221	-2	1.330	-2	6.015	0	1822	42	1.9
48598.1	10000	41.3713	92.5440	-889	QAL	1.8	-1	7.3	1	1.2	1	0.247	-2	1.480	-2	5.989	0	1838	43	1.9
48598.2	10000	41.3713	92.5432	-890	QAL	1.9	-1	7.4	1	1.3	1	0.252	-1	1.450	-2	5.761	0	1861	34	1.9
48598.3	10000	41.3713	92.5423	-890	QAL	1.6	-1	7.3	1	1.3	1	0.226	-2	1.278	-2	5.658	-1	1870	37	1.9
48598.4	10000	41.3713	92.5415	-891	QAL	1.8	-1	7.1	1	1.3	1	0.251	-1	1.395	-2	5.550	-1	1876	41	1.9
48598.5	10000	41.3713	92.5406	-892	QAL	2.0	-1	7.4	1	1.2	1	0.271	-1	1.618	-1	5.970	0	1886	32	1.9
48598.6	10000	41.3713	92.5398	-893	QAL	2.2	0	7.5	1	1.2	1	0.291	-1	1.806	-1	6.202	0	1899	37	1.9
48598.7	10000	41.3713	92.5389	-893	QK	2.4	0	7.6	1	1.2	1	0.321	0	2.031	0	6.325	0	1900	51	1.9
48598.8	10000	41.3713	92.5381	-894	QK	2.3	0	8.0	1	1.1	0	0.288	-1	2.045	0	7.094	1	1900	43	1.9
48598.9	10000	41.3713	92.5373	-894	QK	2.3	0	8.3	1	1.1	0	0.279	-1	2.087	0	7.473	1	1919	45	1.9
48599.0	10000	41.3713	92.5364	-894	QK	2.4	0	8.6	2	1.1	0	0.279	-1	2.099	0	7.523	1	1931	44	1.9
48599.1	10000	41.3713	92.5356	-895	QK	2.2	-1	8.3	2	1.1	0	0.263	-1	1.955	-1	7.444	1	1925	49	1.9
48599.2	10000	41.3713	92.5347	-895	QK	2.1	-1	8.0	2	1.2	1	0.236	-2	1.723	-1	7.314	1	1921	35	1.9
48599.3	10000	41.3713	92.5339	-895	QK	1.9	-1	8.0	2	1.2	1	0.212	-2	1.557	-1	7.338	1	1917	46	1.9
48599.4	10000	41.3713	92.5331	-896	QK	1.9	-1	8.3	2	1.2	1	0.225	-2	1.594	-1	7.094	1	1918	45	1.9
48599.5	10000	41.3713	92.5322	-896	QK	1.9	-1	8.3	2	1.2	1	0.227	-2	1.522	-2	6.718	0	1900	37	1.9
48599.6	10000	41.3713	92.5314	-896	QK	1.7	-2	7.9	1	1.2	1	0.222	-2	1.469	-2	6.612	0	1881	34	1.9
48599.7	10000	41.3713	92.5305	-896	QK	1.8	-2	7.7	1	1.1	1	0.227	-2	1.548	-2	6.807	0	1865	28	1.9
48599.8	10000	41.3714	92.5297	-896	QK	2.0	-1	7.3	0	1.1	1	0.281	-1	1.835	-1	6.541	0	1862	36	1.9
48599.9	10000	41.3714	92.5289	-896	QK	2.4	0	6.7	-1	1.1	0	0.361	-1	2.198	0	6.096	-1	1867	44	1.9
48600.0	10000	41.3714	92.5280	-896	QK	2.5	0	6.7	-1	1.1	0	0.380	-1	2.379	0	6.267	0	1856	39	1.9
48600.1	10000	41.3714	92.5272	-897	QK	2.7	0	6.2	-1	1.0	-1	0.437	-1	2.618	1	5.994	-1	1860	47	1.9
48600.2	10000	41.3714	92.5263	-895	QK	2.9	1	6.5	-1	1.1	0	0.444	-1	2.700	1	6.077	-1	1873	34	1.9
48600.3	10000	41.3714	92.5255	-896	QK	2.7	0	6.6	-1	1.2	0	0.411	-1	2.350	0	5.722	-1	1877	46	1.9
48600.4	10000	41.3714	92.5246	-896	QK	2.7	0	6.4	-1	1.2	0	0.427	-1	2.223	0	5.207	-2	1890	46	1.9
48600.5	10000	41.3714	92.5238	-896	QK	2.7	0	6.6	-1	1.3	0	0.409	-1	2.132	0	5.210	-2	1900	39	1.9
48600.6	10000	41.3714	92.5230	-896	QK	2.4	0	6.8	-1	1.2	0	0.353	-1	1.919	-1	5.433	-1	1893	50	1.9
48600.7	10000	41.3714	92.5221	-896	QK	2.4	0	6.3	-1	1.2	0	0.378	-1	1.934	-1	5.122	-2	1881	38	1.9
48600.8	10000	41.3714	92.5213	-895	QK	2.1	-1	6.5	-1	1.2	0	0.316	-1	1.661	-1	5.261	-2	1859	33	1.9
48600.9	10000	41.3714	92.5204	-895	QK	2.0	-1	6.1	-2	1.2	0	0.325	-1	1.643	-1	5.057	-2	1851	46	1.9
48601.0	10000	41.3714	92.5196	-896	QK	2.3	0	6.3	-1	1.1	0	0.362	-1	2.037	0	5.633	-1	1841	49	1.9
48601.1	10000	41.3714	92.5188	-895	QK	2.5	0	6.4	-1	1.0	-1	0.389	-1	2.450	0	6.303	0	1833	38	1.9
48601.2	10000	41.3714	92.5179	-895	QK	2.7	0	6.6	-1	1.0	-1	0.406	-1	2.676	1	6.584	0	1838	52	1.9
48601.3	10000	41.3714	92.5171	-895	QK	3.0	1	7.1	-1	1.1	-1	0.423	-1	2.948	1	6.969	1	1857	44	1.9
48601.4	10000	41.3714	92.5162	-895	QK	2.8	1	7.3	-1	1.1	-1	0.388	-1	2.656	1	6.842	1	1879	41	1.9
48601.5	10000	41.3714	92.5154	-895	QK	3.0	1	7.4	-1	1.1	-1	0.409	-1	2.867	1	7.011	1	1897	33	1.9
48601.6	10000	41.3715	92.5146	-894	QK	3.2	1	8.1	0	1.1	0	0.393	-1	2.901	1	7.381	1	1922	38	1.9
48601.7	10000	41.3715	92.5137	-895	QK	3.2	1	7.8	0	1.1	0	0.413	-1	2.902	1	7.032	1	1935	40	1.9
48601.8	10000	41.3715	92.5129	-895	QK	3.2	1	7.8	0	1.2	1	0.408	-1	2.735	1	6.696	1	1939	58	1.9
48601.9	10000	41.3715	92.5120	-895	QK	2.9	1	7.9	0	1.2	1	0.373	-1	2.531	1	6.780	0	1933	44	1.9
48602.0	10000	41.3715	92.5112	-895	QK	3.1	1	7.4	0	1.2	1	0.418	-1	2.678	1	6.402	0	1926	39	1.9
48602.1	10000	41.3715	92.5103	-895	QK	3.2	1	7.3	0	1.2	0	0.441	1	2.770	1	6.282	0	1917	35	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48602.2	10000	41.3715	92.5095	-895	QK	3.0	1	7.1	0	1.2	0	0.427	1	2.621	1	6.140	0	1896	34	1.9
48602.3	10000	41.3715	92.5087	-894	QK	2.8	1	6.5	-1	1.1	0	0.439	1	2.606	1	5.933	-1	1866	46	1.9
48602.4	10000	41.3715	92.5078	-894	QK	2.8	1	6.4	-1	1.1	0	0.448	1	2.581	1	5.764	-1	1854	48	1.9
48602.5	10000	41.3715	92.5070	-894	QK	2.8	1	6.3	-1	1.1	0	0.451	1	2.588	1	5.733	-1	1846	36	1.9
48602.6	10000	41.3715	92.5061	-895	QK	3.0	1	6.5	-1	1.1	0	0.464	2	2.822	1	6.087	-1	1836	59	1.9
48602.7	10000	41.3715	92.5053	-894	QK	2.6	0	6.6	-1	1.1	0	0.400	1	2.417	0	6.046	-1	1841	41	1.9
48602.8	10000	41.3715	92.5045	-894	QK	2.6	0	6.6	-1	1.1	0	0.392	1	2.387	0	6.085	-1	1836	46	1.9
48602.9	10000	41.3715	92.5036	-893	QK	2.5	0	7.5	0	1.1	0	0.336	0	2.207	0	6.563	0	1854	38	1.9
48603.0	10000	41.3715	92.5028	-893	QK	2.5	0	7.7	1	1.2	0	0.330	0	2.167	0	6.563	0	1863	45	1.9
48603.1	10000	41.3715	92.5019	-892	QK	2.7	0	7.9	1	1.1	0	0.334	0	2.321	0	6.943	1	1888	47	1.9
48603.2	10000	41.3715	92.5011	-891	QK	2.7	0	8.0	1	1.1	0	0.340	0	2.377	0	6.984	1	1892	54	1.9
48603.3	10000	41.3716	92.5003	-890	QK	2.5	0	8.0	1	1.2	1	0.310	-1	2.060	0	6.640	0	1914	44	1.9
48603.4	10000	41.3716	92.4994	-889	QK	2.7	0	8.3	1	1.1	0	0.323	0	2.327	0	7.199	1	1907	43	1.9
48603.5	10000	41.3716	92.4986	-888	QK	2.6	0	8.1	1	1.2	0	0.316	0	2.184	0	6.903	1	1914	45	1.8
48603.6	10000	41.3716	92.4977	-887	QK	3.0	1	7.7	1	1.1	0	0.391	1	2.629	1	6.729	0	1932	46	1.8
48603.7	10000	41.3716	92.4969	-886	QK	2.9	1	7.8	1	1.2	0	0.370	0	2.497	0	6.748	0	1958	52	1.8
48603.8	10000	41.3716	92.4960	-885	QK	2.8	1	8.0	1	1.2	1	0.350	0	2.338	0	6.672	0	1945	47	1.8
48603.9	10000	41.3716	92.4952	-884	QK	2.8	1	8.1	1	1.2	1	0.351	0	2.378	0	6.768	0	1946	52	1.8
48604.0	10000	41.3716	92.4944	-882	QK	2.8	1	8.0	1	1.2	1	0.351	0	2.391	0	6.805	0	1933	51	1.8
48604.1	10000	41.3716	92.4935	-880	QK	2.8	1	8.0	1	1.2	1	0.356	0	2.348	0	6.590	0	1942	35	1.8
48604.2	10000	41.3716	92.4927	-878	QK	3.2	1	8.4	2	1.2	1	0.379	1	2.727	1	7.199	1	1949	42	1.8
48604.3	10000	41.3716	92.4918	-876	QK	2.9	1	8.1	1	1.2	1	0.362	0	2.512	1	6.950	1	1944	55	1.8
48604.4	10000	41.3716	92.4910	-874	QK	3.1	1	8.2	1	1.1	1	0.372	0	2.762	1	7.430	1	1947	41	1.8
48604.5	10000	41.3716	92.4902	-873	QK	3.1	1	8.0	1	1.1	1	0.389	1	2.891	1	7.432	1	1958	38	1.8
48604.6	10000	41.3716	92.4893	-870	QK	3.0	1	7.9	1	1.1	1	0.381	1	2.838	1	7.453	1	1962	31	1.8
48604.7	10000	41.3716	92.4885	-869	QK	3.2	1	8.1	1	1.1	-1	0.394	1	3.027	2	7.693	2	1967	42	1.8
48604.8	10000	41.3716	92.4876	-867	QK	3.0	1	8.0	1	1.0	-1	0.377	1	2.899	1	7.681	2	1968	43	1.8
48604.9	10000	41.3716	92.4868	-866	QK	3.0	1	7.9	1	1.1	-1	0.379	1	2.824	1	7.445	1	1969	47	1.7
48605.0	10000	41.3716	92.4860	-864	QK	3.1	1	7.9	1	1.1	0	0.398	1	2.883	1	7.247	1	1970	46	1.7
48605.1	10000	41.3717	92.4851	-863	QK	3.3	2	7.4	1	1.1	1	0.442	1	2.936	1	6.637	1	1964	42	1.7
48605.2	10000	41.3717	92.4843	-862	QK	3.2	2	7.8	1	1.2	0	0.409	1	2.735	1	6.686	0	1976	52	1.7
48605.3	10000	41.3717	92.4834	-861	QK	3.3	2	7.8	1	1.2	1	0.424	1	2.790	1	6.584	0	1992	41	1.7
48605.4	10000	41.3717	92.4826	-860	QK	3.5	2	7.7	1	1.2	1	0.457	1	2.933	1	6.420	0	2011	53	1.7
48605.5	10000	41.3717	92.4818	-859	QK	3.5	2	7.5	1	1.2	1	0.468	2	2.958	1	6.324	0	2003	41	1.7
48605.6	10000	41.3717	92.4809	-858	QK	3.5	2	7.7	1	1.1	1	0.454	1	3.068	1	6.763	0	1985	45	1.7
48605.7	10000	41.3717	92.4801	-857	QK	3.4	2	7.7	1	1.1	1	0.439	1	3.113	1	7.083	1	1958	47	1.7
48605.8	10000	41.3717	92.4792	-855	QK	3.4	2	8.1	1	1.1	1	0.418	1	3.153	2	7.539	2	1945	44	1.7
48605.9	10000	41.3717	92.4784	-853	QK	3.4	2	7.7	1	1.0	1	0.439	1	3.324	2	7.571	2	1911	27	1.7
48606.0	10000	41.3717	92.4775	-852	QK	3.0	1	7.4	0	1.0	-1	0.409	1	3.100	2	7.573	2	1887	55	1.7
48606.1	10000	41.3717	92.4767	-852	QK	3.0	1	7.2	0	1.0	-1	0.416	1	2.975	1	7.144	1	1864	40	1.7
48606.2	10000	41.3717	92.4759	-851	QK	3.1	1	7.3	0	1.0	-1	0.427	1	2.987	2	6.994	1	1863	38	1.7
48606.3	10000	41.3717	92.4750	-850	QK	3.0	1	7.2	1	1.1	0	0.419	1	2.757	1	6.585	0	1877	45	1.6
48606.4	10000	41.3717	92.4742	-850	QK	2.8	1	7.3	0	1.1	1	0.384	0	2.456	1	6.403	0	1878	55	1.6
48606.5	10000	41.3717	92.4733	-849	QK	2.6	1	6.9	0	1.2	1	0.369	0	2.111	0	5.718	-1	1869	41	1.6
48606.6	10000	41.3717	92.4725	-849	QK	2.6	1	6.6	-1	1.2	1	0.392	0	2.089	0	5.322	-2	1872	41	1.6
48606.7	10000	41.3717	92.4717	-848	QK	2.8	1	6.3	-1	1.3	1	0.449	1	2.184	0	4.864	-2	1866	53	1.6
48606.8	10000	41.3717	92.4708	-844	QK	2.6	1	6.5	-1	1.3	1	0.401	1	2.086	0	5.196	-2	1853	40	1.6
48606.9	10000	41.3717	92.4700	-835	QK	2.6	1	6.5	-1	1.2	1	0.402	1	2.116	0	5.264	-2	1852	52	1.6
48607.0	10000	41.3718	92.4691	-838	QK	2.6	1	6.4	-1	1.2	1	0.401	1	2.090	0	5.217	-2	1843	47	1.6
48607.1	10000	41.3718	92.4683	-846	QK	2.6	1	6.7	-1	1.2	1	0.386	1	2.135	0	5.530	-1	1841	44	1.6
48607.2	10000	41.3718	92.4675	-850	QK	2.6	1	6.8	-1	1.1	1	0.377	0	2.281	0	6.044	-1	1828	38	1.6
48607.3	10000	41.3718	92.4666	-850	QK	2.6	0	6.8	-1	1.1	0	0.382	0	2.380	0	6.231	0	1810	43	1.6

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48607.4	10000	41.3718	92.4658	-851	QK	2.6	0	7.1	0	1.0	-1	0.364	0	2.499	0	6.873	1	1797	38	1.6
48607.5	10000	41.3718	92.4649	-852	QK	2.8	0	7.0	0	1.0	-1	0.394	0	2.782	0	7.060	1	1796	35	1.6
48607.6	10000	41.3718	92.4641	-852	QK	2.6	0	6.7	-1	1.0	-1	0.383	0	2.625	1	6.846	1	1783	41	1.6
48607.7	10000	41.3718	92.4632	-849	QK	2.5	0	6.8	-1	1.0	-1	0.369	0	2.512	1	6.809	0	1798	45	1.6
48607.8	10000	41.3718	92.4624	-847	QK	2.9	1	6.6	-1	1.1	0	0.433	1	2.708	1	6.260	0	1829	38	1.5
48607.9	10000	41.3718	92.4616	-850	QK	2.9	1	6.7	-1	1.1	0	0.432	1	2.593	1	6.003	-1	1857	39	1.5
48608.0	10000	41.3718	92.4607	-853	QK	2.7	0	7.1	0	1.2	1	0.373	0	2.225	0	5.970	-1	1896	50	1.5
48608.1	10000	41.3718	92.4599	-854	QK	2.8	1	7.5	0	1.2	1	0.374	0	2.343	0	6.257	0	1928	51	1.5
48608.2	10000	41.3718	92.4590	-853	QK	2.7	0	7.8	1	1.3	1	0.344	0	2.113	0	6.139	0	1962	40	1.5
48608.3	10000	41.3718	92.4582	-852	QK	2.9	1	8.1	1	1.3	2	0.360	0	2.211	0	6.145	0	1992	44	1.5
48608.4	10000	41.3718	92.4574	-850	QK	3.4	2	7.9	1	1.4	2	0.428	1	2.499	0	5.840	-1	1993	39	1.5
48608.5	10000	41.3718	92.4565	-849	QK	3.1	1	7.4	0	1.3	2	0.415	1	2.351	0	5.671	-1	1961	32	1.5
48608.6	10000	41.3718	92.4557	-846	QK	3.0	1	7.1	0	1.3	1	0.426	1	2.391	0	5.615	-1	1917	39	1.5
48608.7	10000	41.3718	92.4548	-844	QAL	3.0	1	6.7	0	1.2	1	0.454	1	2.544	0	5.606	-1	1874	44	1.5
48608.8	10000	41.3718	92.4540	-842	QAL	2.6	0	6.4	0	1.2	1	0.409	0	2.166	0	5.302	-1	1825	44	1.5
48608.9	10000	41.3719	92.4532	-839	QAL	2.8	1	5.9	-1	1.2	1	0.476	1	2.365	0	4.971	-1	1774	39	1.5
48609.0	10000	41.3719	92.4523	-836	QAL	2.7	0	5.7	-1	1.1	0	0.475	1	2.428	0	5.114	-1	1716	49	1.5
48609.1	10000	41.3719	92.4515	-834	QAL	2.3	0	5.6	-1	1.0	0	0.411	0	2.220	0	5.400	-1	1675	34	1.5
48609.2	10000	41.3719	92.4506	-831	QAL	2.3	0	6.1	0	1.0	-1	0.384	0	2.380	0	6.200	0	1671	32	1.5
48609.3	10000	41.3719	92.4498	-828	QAL	2.5	0	6.6	0	1.0	0	0.371	0	2.427	0	6.535	1	1693	40	1.5
48609.4	10000	41.3719	92.4490	-825	QAL	2.6	0	6.6	0	1.0	0	0.395	0	2.569	0	6.508	0	1713	39	1.5
48609.5	10000	41.3719	92.4482	-822	QAL	2.8	0	6.3	0	1.0	0	0.441	1	2.750	1	6.232	0	1728	47	1.5
48609.6	10000	41.3719	92.4473	-819	QAL	2.8	0	6.6	0	1.0	0	0.424	1	2.804	1	6.615	1	1736	36	1.6
48609.7	10000	41.3719	92.4465	-817	QAL	2.5	0	6.5	0	1.0	-1	0.391	0	2.628	1	6.719	1	1726	42	1.6
48609.8	10000	41.3719	92.4457	-814	QAL	2.4	0	6.1	-1	0.9	-1	0.400	1	2.593	1	6.483	0	1670	40	1.6
48609.9	10000	41.3719	92.4448	-811	QAL	2.5	0	5.4	-1	0.8	-2	0.462	1	2.945	1	6.369	0	1554	37	1.6
48610.0	10000	41.3719	92.4440	-808	QAL	2.4	0	4.2	-2	0.7	-3	0.566	2	3.445	2	6.082	0	1434	32	1.6
48610.1	10000	41.3719	92.4432	-806	QAL	2.4	0	3.8	-3	0.6	-3	0.621	3	3.950	3	6.362	0	1310	36	1.6
48610.2	10000	41.3719	92.4424	-803	QAL	2.1	0	3.4	-3	0.5	-4	0.636	3	4.234	3	6.662	1	1204	46	1.6
48610.3	10000	41.3719	92.4415	-800	QAL	1.8	-1	3.0	-3	0.4	-4	0.615	3	4.376	3	7.114	1	1126	40	1.6
48610.4	10000	41.3719	92.4407	-798	QAL	2.1	-1	3.9	-4	0.4	-4	0.725	4	4.823	4	6.648	1	1124	50	1.6
48610.5	10000	41.3719	92.4399	-795	QAL	2.3	0	4.4	-3	0.5	-4	0.660	4	4.434	4	6.714	1	1201	44	1.6
48610.6	10000	41.3719	92.4390	-792	QAL	2.2	0	3.9	-3	0.6	-3	0.562	3	3.474	2	6.177	0	1309	53	1.6
48610.7	10000	41.3719	92.4382	-788	QAL	2.4	0	4.6	-2	0.8	-2	0.523	2	2.979	1	5.694	-1	1428	43	1.6
48610.8	10000	41.3719	92.4374	-785	QAL	2.3	0	5.5	-1	0.9	-1	0.422	2	2.501	0	5.927	-1	1561	35	1.6
48610.9	10000	41.3719	92.4366	-783	QK	2.6	0	6.4	-1	1.1	-1	0.407	2	2.480	0	6.087	-1	1697	49	1.6
48611.0	10000	41.3719	92.4357	-780	QK	2.7	0	6.7	-1	1.1	0	0.404	1	2.340	0	5.795	-1	1813	52	1.6
48611.1	10000	41.3719	92.4349	-777	QK	2.7	0	7.0	0	1.2	1	0.386	1	2.272	0	5.894	-1	1877	48	1.6
48611.2	10000	41.3719	92.4341	-774	QK	2.7	1	6.7	-1	1.2	1	0.470	2	2.697	1	5.733	-1	1908	42	1.6
48611.3	10000	41.3719	92.4332	-770	QK	3.1	1	6.9	0	1.2	1	0.470	2	2.716	1	5.774	-1	1953	34	1.6
48611.4	10000	41.3719	92.4324	-766	QK	3.1	2	7.2	0	1.2	2	0.431	2	2.697	1	6.259	0	1967	43	1.6
48611.5	10000	41.3719	92.4316	-763	QK	3.3	2	7.0	0	1.2	2	0.470	2	2.847	2	6.052	-1	1977	46	1.6
48611.6	10000	41.3719	92.4308	-760	QK	3.4	2	6.7	-1	1.1	2	0.506	3	3.034	3	5.996	-1	1969	49	1.7
48611.7	10000	41.3719	92.4299	-756	QK	3.6	2	7.0	0	1.1	2	0.512	3	3.146	3	6.148	0	1972	49	1.7
48611.8	10000	41.3719	92.4291	-751	QK	3.8	2	7.2	0	1.1	2	0.523	3	3.276	3	6.267	0	1967	47	1.7
48611.9	10000	41.3719	92.4283	-747	QK	4.2	3	7.6	1	1.2	2	0.425	2	2.809	2	6.607	0	1957	57	1.7
48612.0	10000	41.3719	92.4274	-743	QK	4.2	3	7.6	1	1.2	2	0.432	2	2.783	2	6.440	0	1958	48	1.7
48612.1	10000	41.3719	92.4266	-739	QK	4.6	3	7.4	1	1.2	2	0.486	3	3.050	3	6.278	0	1964	49	1.7
48612.2	10000	41.3719	92.4258	-735	QK	4.6	3	7.5	1	1.2	2	0.476	3	3.003	3	6.307	0	1964	29	1.7
48612.3	10000	41.3719	92.4250	-732	QK	4.4	3	7.4	1	1.2	2	0.460	3	2.785	2	6.049	-1	1966	38	1.7
48612.4	10000	41.3719	92.4241	-728	QK	4.2	3	7.3	1	1.2	2	0.440	3	2.658	2	6.041	-1	1948	36	1.7
48612.5	10000	41.3719	92.4233	-724	QK	3.0	1	7.3	0	1.3	1	0.417	1	2.389	0	5.729	-1	1947	42	1.8

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48612.6	10000	41.3719	92.4225	-721	QK	3.1	1	7.3	0	1.3	1	0.430	1	2.451	0	5.706	-1	1958	36	1.8
48612.7	10000	41.3719	92.4217	-718	QK	3.1	1	7.3	0	1.2	1	0.429	1	2.545	0	5.927	-1	1946	37	1.8
48612.8	10000	41.3719	92.4208	-715	QK	3.0	1	7.4	0	1.2	1	0.406	1	2.416	0	5.949	-1	1949	55	1.8
48612.9	10000	41.3719	92.4200	-712	QK	3.2	1	7.4	0	1.2	1	0.430	1	2.568	1	5.978	-1	1941	40	1.8
48613.0	10000	41.3719	92.4192	-709	QK	3.1	1	7.6	1	1.2	1	0.405	1	2.511	1	6.204	0	1948	46	1.8
48613.1	10000	41.3719	92.4183	-706	QK	3.0	1	7.8	1	1.3	1	0.385	0	2.348	0	6.092	-1	1959	38	1.8
48613.2	10000	41.3719	92.4175	-704	QK	3.0	1	7.9	1	1.2	1	0.382	0	2.458	0	6.441	0	1956	47	1.8
48613.3	10000	41.3719	92.4167	-701	QK	2.8	1	7.9	1	1.2	1	0.356	0	2.342	0	6.583	0	1935	37	1.8
48613.4	10000	41.3719	92.4159	-699	QK	2.6	0	7.9	1	1.2	1	0.335	0	2.164	0	6.467	0	1926	52	1.8
48613.5	10000	41.3719	92.4150	-697	QK	2.3	0	7.4	0	1.2	1	0.317	0	1.944	-1	6.137	0	1893	44	1.9
48613.6	10000	41.3719	92.4142	-695	QK	2.1	-1	7.3	0	1.2	0	0.287	-1	1.788	-1	6.244	0	1859	48	1.9
48613.7	10000	41.3719	92.4134	-693	QK	2.1	-1	7.0	0	1.1	0	0.301	-1	1.878	-1	6.240	0	1818	39	1.9
48613.8	10000	41.3720	92.4125	-691	QK	2.2	-1	7.0	0	1.0	-1	0.319	0	2.124	0	6.665	0	1780	41	1.9
48613.9	10000	41.3719	92.4117	-689	QK	2.2	-1	6.8	-1	1.0	-1	0.321	0	2.098	0	6.543	0	1779	42	1.9
48614.0	10000	41.3720	92.4109	-687	QK	2.3	0	6.7	-1	1.1	0	0.345	0	2.071	0	5.995	-1	1779	46	1.9
48614.1	10000	41.3720	92.4101	-686	QK	2.4	0	6.4	-1	1.1	0	0.367	0	2.153	0	5.870	-1	1769	39	1.9
48614.2	10000	41.3720	92.4092	-684	QK	2.7	0	6.6	-1	1.1	0	0.409	1	2.515	1	6.144	0	1775	35	1.9
48614.3	10000	41.3720	92.4084	-683	QK	2.7	0	6.5	-1	1.1	0	0.410	1	2.439	0	5.948	-1	1793	39	1.9
48614.4	10000	41.3719	92.4076	-681	QK	2.9	1	6.5	-1	1.1	0	0.442	1	2.673	1	6.051	-1	1806	49	1.9
48614.5	10000	41.3720	92.4067	-680	QK	3.0	1	6.3	-1	1.1	0	0.467	2	2.700	1	5.783	-1	1819	40	1.9
48614.6	10000	41.3720	92.4059	-678	QK	2.9	1	5.9	-2	1.1	0	0.490	2	2.679	1	5.465	-1	1800	52	1.9
48614.7	10000	41.3719	92.4051	-677	QK	2.8	1	6.1	-2	1.1	0	0.461	2	2.629	1	5.704	-1	1785	34	1.9
48614.8	10000	41.3720	92.4043	-675	QK	2.7	0	5.9	-2	1.1	-1	0.463	2	2.601	1	5.621	-1	1789	44	1.9
48614.9	10000	41.3720	92.4034	-674	QK	2.5	0	6.3	-1	1.1	0	0.397	1	2.340	0	5.887	-1	1786	45	1.9
48615.0	10000	41.3720	92.4026	-673	QK	2.8	0	6.5	-1	1.0	-1	0.425	1	2.695	1	6.342	0	1786	36	2.0
48615.1	10000	41.3720	92.4018	-672	QK	2.5	0	6.5	-1	1.1	0	0.391	1	2.311	0	5.908	-1	1784	57	2.0
48615.2	10000	41.3720	92.4009	-671	QK	2.4	0	6.7	-1	1.1	0	0.355	0	2.200	0	6.199	0	1787	49	2.0
48615.3	10000	41.3720	92.4001	-669	QK	2.4	0	6.8	-1	1.1	-1	0.356	0	2.306	0	6.474	0	1796	44	2.0
48615.4	10000	41.3720	92.3993	-668	QK	2.3	0	7.0	-1	1.1	-1	0.330	0	2.189	0	6.627	0	1787	52	2.0
48615.5	10000	41.3720	92.3985	-667	QK	2.4	0	7.0	-1	1.1	0	0.347	0	2.240	0	6.446	0	1791	45	2.0
48615.6	10000	41.3720	92.3976	-665	QK	2.3	-1	6.8	-1	1.1	0	0.344	0	2.107	0	6.118	-1	1808	54	2.0
48615.7	10000	41.3720	92.3968	-664	QK	2.2	-1	6.8	-1	1.2	0	0.321	0	1.865	-1	5.815	-1	1814	36	2.0
48615.8	10000	41.3720	92.3960	-662	QK	2.0	-1	7.2	-1	1.1	0	0.282	-1	1.789	-1	6.345	0	1828	45	2.0
48615.9	10000	41.3720	92.3951	-660	QK	2.2	-1	6.9	-1	1.1	0	0.318	-1	2.005	-1	6.296	0	1835	40	2.0
48616.0	10000	41.3720	92.3943	-658	QK	2.0	-1	7.1	0	1.1	0	0.287	-1	1.853	-1	6.451	0	1850	49	2.0
48616.1	10000	41.3720	92.3935	-655	QK	2.3	-1	6.7	-1	1.1	0	0.339	0	2.073	0	6.120	-1	1876	38	2.0
48616.2	10000	41.3720	92.3927	-652	QK	2.3	-1	7.3	0	1.1	0	0.309	-1	2.121	0	6.871	1	1897	36	2.0
48616.3	10000	41.3720	92.3918	-649	QK	2.5	0	7.5	0	1.1	0	0.329	0	2.301	0	6.995	1	1908	36	2.0
48616.4	10000	41.3720	92.3910	-647	QK	2.5	0	7.5	0	1.1	0	0.330	0	2.323	0	7.037	1	1911	53	2.0
48616.5	10000	41.3720	92.3902	-644	QK	2.6	0	7.3	0	1.1	0	0.353	0	2.446	0	6.926	1	1915	41	2.0
48616.6	10000	41.3720	92.3893	-641	QK	2.6	0	7.5	0	1.1	0	0.342	0	2.235	0	6.528	1	1918	33	2.0
48616.7	10000	41.3720	92.3885	-637	QK	3.0	1	7.2	0	1.2	1	0.416	1	2.574	1	6.181	1	1914	45	2.0
48616.8	10000	41.3720	92.3877	-635	QK	2.8	1	7.3	0	1.1	0	0.379	1	2.427	1	6.411	1	1913	51	2.0
48616.9	10000	41.3720	92.3869	-633	QK	2.5	1	7.0	0	1.1	0	0.362	1	2.244	1	6.197	1	1873	49	2.0
48617.0	10000	41.3720	92.3860	-631	QK	2.4	1	7.0	0	1.1	0	0.336	0	2.127	1	6.323	1	1827	52	2.0
48617.1	10000	41.3720	92.3852	-628	QK	2.3	0	6.9	-1	1.1	0	0.330	0	2.163	1	6.557	1	1805	38	2.0
48617.2	10000	41.3720	92.3844	-626	QK	2.3	0	6.9	-1	1.1	0	0.335	0	2.237	1	6.673	1	1795	44	2.0
48617.3	10000	41.3720	92.3836	-623	QK	2.3	0	6.8	-1	1.0	0	0.335	0	2.254	1	6.725	1	1782	41	2.0
48617.4	10000	41.3720	92.3827	-620	QK	2.1	-1	7.0	-1	1.1	0	0.302	-1	2.070	1	6.850	1	1778	36	2.0
48617.5	10000	41.3720	92.3819	-617	QK	2.0	-1	6.9	-1	1.0	0	0.294	-1	2.007	0	6.836	1	1772	43	2.0
48617.6	10000	41.3720	92.3811	-613	QK	2.3	0	6.7	-1	1.1	0	0.350	0	2.210	0	6.318	1	1794	38	2.0
48617.7	10000	41.3720	92.3802	-610	QK	2.3	0	6.7	-1	1.1	0	0.351	0	2.104	0	5.994	-1	1829	42	2.0

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48617.8	10000	41.3720	92.3794	-606	QK	2.2	-1	6.9	0	1.2	0	0.320	0	1.910	-1	5.965	-1	1855	39	2.0
48617.9	10000	41.3720	92.3786	-603	QK	2.3	0	7.3	0	1.2	1	0.320	0	1.932	-1	6.039	-1	1871	48	2.0
48618.0	10000	41.3720	92.3778	-599	QK	2.4	0	7.4	0	1.2	1	0.322	0	2.077	0	6.450	0	1870	52	2.0
48618.1	10000	41.3720	92.3769	-596	QK	2.2	-1	8.0	1	1.2	0	0.278	-1	1.909	-1	6.861	1	1865	37	2.0
48618.2	10000	41.3720	92.3761	-593	QK	2.4	0	8.1	1	1.1	0	0.292	-1	2.064	0	7.081	1	1863	48	2.0
48618.3	10000	41.3720	92.3753	-590	QK	2.1	-1	8.0	1	1.1	0	0.262	-1	1.854	-1	7.070	1	1837	38	2.0
48618.4	10000	41.3720	92.3744	-588	QK	2.0	-1	7.6	1	1.1	0	0.266	-1	1.900	-1	7.146	1	1813	40	2.0
48618.5	10000	41.3720	92.3736	-585	QK	2.2	-1	7.3	0	1.0	-1	0.307	-1	2.141	0	6.964	1	1788	45	2.0
48618.6	10000	41.3720	92.3728	-585	QK	2.2	-1	6.7	-1	1.0	-1	0.325	0	2.132	0	6.552	0	1756	51	2.0
48618.7	10000	41.3720	92.3720	-587	QK	1.9	-1	6.4	-1	1.0	-1	0.298	-1	1.855	-1	6.233	0	1723	37	2.0
48618.8	10000	41.3720	92.3711	-589	QK	1.9	-1	6.0	-2	1.0	-1	0.320	0	1.881	-1	5.883	-1	1699	33	2.0
48618.9	10000	41.3720	92.3703	-591	QK	1.9	-1	5.6	-2	1.0	-1	0.334	0	1.854	-1	5.555	-1	1666	44	2.0
48619.0	10000	41.3720	92.3695	-594	QK	2.1	-1	5.7	-2	1.0	-1	0.366	0	2.099	0	5.739	-1	1674	37	2.0
48619.1	10000	41.3720	92.3686	-597	QK	2.2	-1	5.9	-2	1.0	-1	0.364	0	2.129	0	5.848	-1	1684	38	1.9
48619.2	10000	41.3720	92.3678	-602	QK	2.0	-1	5.9	-2	1.0	-1	0.338	0	2.009	-1	5.952	-1	1673	42	1.9
48619.3	10000	41.3720	92.3670	-606	QK	1.9	-1	6.4	-1	1.0	-1	0.297	-1	1.876	-1	6.322	0	1676	49	1.9
48619.4	10000	41.3720	92.3661	-610	QK	2.2	-1	6.5	-1	1.0	-1	0.343	0	2.206	0	6.439	0	1713	42	1.9
48619.5	10000	41.3720	92.3653	-611	QK	2.2	-1	6.4	-1	1.0	-1	0.337	0	2.113	0	6.273	0	1740	46	1.9
48619.6	10000	41.3720	92.3645	-620	QK	2.3	0	6.5	-1	1.0	-1	0.354	0	2.199	0	6.206	0	1772	42	1.9
48619.7	10000	41.3720	92.3637	-632	QK	2.1	-1	6.7	-1	1.1	0	0.317	0	1.943	-1	6.131	-1	1788	44	1.9
48619.8	10000	41.3720	92.3628	-642	QK	2.1	-1	6.8	-1	1.1	0	0.316	0	1.934	-1	6.122	-1	1802	45	1.9
48619.9	10000	41.3720	92.3620	-652	QK	2.0	-1	6.8	-1	1.2	0	0.299	-1	1.751	-1	5.849	-1	1829	39	1.9
48620.0	10000	41.3720	92.3612	-663	QK	2.0	-1	6.8	-1	1.1	0	0.296	-1	1.738	-1	5.874	-1	1834	54	1.9
48620.1	10000	41.3720	92.3604	-673	QK	1.8	-1	6.8	-1	1.2	0	0.268	-1	1.559	-1	5.821	-1	1831	50	1.9
48620.2	10000	41.3720	92.3595	-683	QK	1.8	-1	6.8	-1	1.2	0	0.265	-1	1.574	-1	5.944	-1	1835	38	1.9
48620.3	10000	41.3720	92.3587	-693	QK	1.7	-2	6.8	-1	1.2	0	0.254	-1	1.479	-2	5.826	-1	1831	50	1.9
48620.4	10000	41.3720	92.3579	-704	QK	1.9	-1	6.8	-1	1.1	0	0.280	-1	1.664	-1	5.940	-1	1832	38	1.9
48620.5	10000	41.3720	92.3570	-715	QK	2.0	-1	6.8	-1	1.1	0	0.297	-1	1.758	-1	5.926	-1	1841	44	1.9
48620.6	10000	41.3720	92.3562	-725	QK	2.2	-1	6.9	0	1.1	0	0.321	0	2.040	0	6.350	0	1838	59	1.9
48620.7	10000	41.3720	92.3554	-735	QK	2.2	-1	6.6	-1	1.1	0	0.380	0	2.244	0	5.909	-1	1844	47	1.8
48620.8	10000	41.3720	92.3546	-744	QK	2.5	0	6.3	-1	1.1	0	0.400	1	2.257	0	5.635	-1	1846	46	1.8
48620.9	10000	41.3720	92.3537	-753	QK	2.5	0	6.1	-1	1.1	0	0.460	2	2.560	1	5.560	-1	1844	52	1.8
48621.0	10000	41.3720	92.3529	-762	QK	2.8	0	6.2	-1	1.1	0	0.499	2	2.916	1	5.848	-1	1851	49	1.8
48621.1	10000	41.3720	92.3521	-773	QK	2.5	0	6.5	-1	1.0	-1	0.485	2	2.988	2	6.166	0	1861	49	1.8
48621.2	10000	41.3720	92.3512	-783	QK	2.3	0	6.4	-1	1.0	-1	0.471	2	2.960	1	6.289	0	1857	40	1.8
48621.3	10000	41.3720	92.3504	-793	QK	2.9	0	6.0	-2	1.1	-1	0.501	2	2.806	1	5.604	-1	1870	45	1.8
48621.4	10000	41.3720	92.3496	-802	QK	2.9	0	6.5	-1	1.0	-1	0.448	2	2.820	1	6.293	0	1867	48	1.8
48621.5	10000	41.3720	92.3488	-810	QK	3.0	0	6.6	-1	1.0	-1	0.455	2	2.908	1	6.395	0	1866	22	1.8
48621.6	10000	41.3720	92.3479	-820	QK	2.8	0	7.0	-1	1.1	-1	0.395	2	2.636	1	6.666	0	1871	51	1.8
48621.7	10000	41.3721	92.3471	-829	QK	2.5	0	7.4	0	1.1	0	0.338	1	2.256	1	6.674	0	1886	28	1.8
48621.8	10000	41.3720	92.3463	-837	QK	2.5	0	7.2	0	1.2	0	0.348	1	2.156	1	6.191	0	1881	57	1.8
48621.9	10000	41.3720	92.3454	-844	QK	2.8	0	7.3	0	1.1	0	0.375	1	2.418	1	6.453	0	1879	31	1.8
48622.0	10000	41.3721	92.3446	-850	QK	2.7	0	7.7	0	1.1	0	0.347	1	2.368	1	6.824	0	1885	34	1.8
48622.1	10000	41.3720	92.3438	-857	QK	3.0	1	7.4	0	1.2	0	0.403	1	2.563	1	6.366	0	1897	40	1.8
48622.2	10000	41.3721	92.3430	-863	QK	2.9	1	7.3	0	1.2	0	0.394	1	2.494	1	6.323	0	1909	35	1.8
48622.3	10000	41.3721	92.3421	-868	QK	3.2	1	7.2	0	1.1	0	0.435	1	2.762	1	6.345	0	1914	36	1.8
48622.4	10000	41.3721	92.3413	-871	QK	3.3	1	7.0	0	1.1	0	0.469	2	2.966	1	6.329	0	1920	43	1.8
48622.5	10000	41.3721	92.3405	-877	QK	3.2	1	6.8	-1	1.1	0	0.451	1	2.992	2	6.636	0	1908	40	1.8
48622.6	10000	41.3721	92.3396	-882	QK	3.1	1	6.4	-1	1.1	0	0.433	1	2.689	1	6.204	0	1911	39	1.8
48622.7	10000	41.3721	92.3388	-885	QK	3.1	1	6.5	-1	1.1	0	0.477	2	2.876	1	6.024	-1	1894	48	1.8
48622.8	10000	41.3721	92.3380	-888	QK	3.0	1	6.4	-1	1.1	0	0.454	2	2.766	1	6.088	-1	1879	35	1.7
48622.9	10000	41.3721	92.3372	-890	QK	3.2	1	6.4	-1	1.1	0	0.499	2	3.018	2	6.042	-1	1863	46	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48623.0	10000	41.3721	92.3363	-891	QK	2.8	1	6.2	-1	1.1	0	0.455	1	2.621	1	5.760	-1	1839	46	1.7
48623.1	10000	41.3721	92.3355	-892	QK	2.9	1	6.3	-1	1.0	-1	0.466	2	2.845	1	6.108	-1	1802	51	1.7
48623.2	10000	41.3721	92.3347	-893	QK	3.1	1	6.2	-1	1.0	-1	0.492	2	3.017	2	6.133	0	1808	49	1.7
48623.3	10000	41.3721	92.3338	-892	QK	3.2	1	6.0	-2	1.0	-1	0.536	3	3.292	2	6.137	0	1781	40	1.7
48623.4	10000	41.3720	92.3330	-888	QK	3.4	2	6.2	-1	1.0	-1	0.540	3	3.486	2	6.458	0	1780	34	1.7
48623.5	10000	41.3720	92.3322	-887	QK	3.2	1	6.3	-1	0.9	-1	0.510	2	3.401	2	6.663	0	1778	40	1.7
48623.6	10000	41.3720	92.3313	-887	QK	3.1	1	6.4	-1	0.9	-2	0.479	2	3.464	3	7.237	1	1774	45	1.7
48623.7	10000	41.3720	92.3305	-885	QK	3.2	1	6.7	-1	0.9	-2	0.472	2	3.626	3	7.679	2	1771	38	1.7
48523.8	10000	41.3720	92.3297	-882	QK	3.0	1	6.6	-1	0.9	-2	0.456	1	3.388	2	7.423	1	1775	23	1.7
48623.9	10000	41.3720	92.3288	-878	QK	2.9	1	6.5	-1	0.9	-2	0.444	1	3.093	2	6.963	1	1773	52	1.7
48624.0	10000	41.3720	92.3280	-873	QK	2.7	0	7.2	0	0.9	-2	0.372	0	2.865	1	7.694	2	1777	47	1.7
48624.1	10000	41.3720	92.3271	-866	QK	2.5	0	7.0	0	1.0	-1	0.357	0	2.560	1	7.171	1	1765	52	1.7
48624.2	10000	41.3720	92.3263	-857	QK	2.4	0	6.7	-1	1.0	-1	0.354	0	2.420	0	6.838	1	1763	34	1.7
48624.3	10000	41.3720	92.3255	-849	QK	2.4	0	6.6	-1	1.0	-1	0.361	0	2.336	0	6.479	0	1745	54	1.7
48624.4	10000	41.3720	92.3246	-842	QK	2.5	0	6.2	-1	1.0	-1	0.397	1	2.408	0	6.062	-1	1738	42	1.7
48624.5	10000	41.3719	92.3238	-833	QK	2.5	0	5.9	-2	1.0	-1	0.428	1	2.550	1	5.964	-1	1722	40	1.7
48624.6	10000	41.3719	92.3229	-823	QK	2.6	0	6.2	-1	0.9	-2	0.409	1	2.738	1	6.691	0	1696	33	1.7
48624.7	10000	41.3719	92.3221	-812	QK	2.7	0	6.0	-2	1.0	-1	0.443	1	2.705	1	6.107	-1	1718	40	1.7
48624.8	10000	41.3719	92.3213	-799	QK	2.5	0	6.4	-1	1.0	-1	0.390	1	2.600	1	6.676	0	1724	48	1.7
48624.9	10000	41.3719	92.3204	-785	QK	2.3	0	6.5	-1	1.0	-1	0.360	0	2.421	0	6.732	0	1733	49	1.7
48625.0	10000	41.3719	92.3196	-771	QK	2.4	0	6.5	-1	1.0	-1	0.373	0	2.390	0	6.415	0	1765	35	1.7
48625.1	10000	41.3719	92.3188	-756	QK	2.4	0	6.7	-1	1.0	-1	0.362	0	2.328	0	6.433	0	1788	47	1.7
48625.2	10000	41.3719	92.3179	-740	QK	2.4	0	6.9	0	1.1	0	0.341	0	2.185	0	6.404	0	1808	41	1.7
48625.3	10000	41.3719	92.3171	-724	QK	2.4	0	6.8	-1	1.1	0	0.346	0	2.097	0	6.056	-1	1829	49	1.7
48625.4	10000	41.3719	92.3162	-706	QK	2.2	-1	6.8	-1	1.1	0	0.330	0	2.061	0	6.246	0	1807	41	1.7
48625.5	10000	41.3719	92.3154	-689	QK	2.7	0	6.6	-1	1.1	0	0.404	1	2.446	0	6.054	-1	1809	40	1.7
48625.6	10000	41.3718	92.3146	-671	QK	2.8	0	6.7	-1	1.1	0	0.419	1	2.629	1	6.280	0	1786	45	1.7
48625.7	10000	41.3718	92.3137	-654	QK	2.6	0	6.7	-1	1.0	-1	0.394	1	2.566	1	6.509	0	1760	40	1.7
48625.8	10000	41.3718	92.3129	-636	QK	2.3	0	6.8	-1	0.9	-2	0.340	1	2.466	1	7.258	1	1717	57	1.7
48625.9	10000	41.3718	92.3120	-620	QK	2.3	0	6.8	-1	1.0	-1	0.342	1	2.409	1	7.048	1	1712	46	1.8
48626.0	10000	41.3718	92.3112	-603	QK	2.3	0	7.0	0	1.0	-1	0.326	1	2.380	1	7.291	1	1715	57	1.8
48626.1	10000	41.3718	92.3104	-588	QK	2.4	0	7.2	0	1.0	-1	0.340	1	2.431	1	7.154	1	1739	40	1.8
48626.2	10000	41.3718	92.3095	-574	QK	2.0	-1	7.0	0	1.0	-1	0.284	-1	1.951	-1	6.866	1	1737	53	1.8
48626.3	10000	41.3718	92.3087	-561	QK	2.0	-1	7.1	0	1.0	-1	0.277	-1	1.866	-1	6.736	0	1758	45	1.8
48626.4	10000	41.3718	92.3078	-548	QK	2.0	-1	7.4	0	1.0	-1	0.265	-1	1.931	-1	7.275	1	1776	41	1.8
48626.5	10000	41.3718	92.3070	-535	QK	2.2	-1	7.5	0	1.0	-1	0.294	-1	2.142	0	7.276	1	1797	45	1.8
48626.6	10000	41.3718	92.3062	-525	QK	2.4	0	7.7	0	1.0	-1	0.314	-1	2.383	0	7.576	2	1797	51	1.8
48626.7	10000	41.3717	92.3053	-518	QK	2.5	0	7.4	0	1.0	-1	0.342	-1	2.493	1	7.286	1	1792	35	1.8
48626.8	10000	41.3717	92.3045	-513	QK	2.6	0	7.1	0	0.9	-1	0.367	-1	2.728	1	7.442	1	1775	38	1.8
48626.9	10000	41.3717	92.3036	-507	QK	2.8	1	7.3	0	1.0	-1	0.377	-1	2.921	1	7.741	2	1772	40	1.8
48627.0	10000	41.3717	92.3028	-503	QK	2.8	1	7.5	0	1.0	-1	0.368	-1	2.889	1	7.852	2	1784	43	1.8
48627.1	10000	41.3717	92.3020	-499	QK	2.7	1	7.6	0	1.0	-1	0.355	-1	2.694	1	7.583	2	1789	44	1.8
48627.2	10000	41.3717	92.3011	-497	QK	2.6	1	7.5	0	1.1	-1	0.350	-1	2.501	1	7.141	2	1799	41	1.8
48627.3	10000	41.3717	92.3003	-497	QK	2.4	0	7.4	0	1.1	0	0.319	0	2.138	0	6.706	1	1806	50	1.8
48627.4	10000	41.3717	92.2995	-497	QK	2.3	0	7.7	0	1.1	0	0.305	-1	2.074	0	6.800	0	1817	40	1.9
48627.5	10000	41.3717	92.2986	-499	QK	2.1	-1	7.8	0	1.2	0	0.267	-1	1.796	-1	6.726	0	1824	33	1.9
48627.6	10000	41.3717	92.2978	-502	QK	2.0	-1	8.1	0	1.2	0	0.246	-1	1.698	-1	6.900	1	1829	40	1.9
48627.7	10000	41.3717	92.2970	-505	QK	2.2	-1	7.7	0	1.1	0	0.282	-1	1.964	-1	6.975	1	1820	47	1.9
48627.8	10000	41.3716	92.2961	-509	QK	2.2	-1	7.4	0	1.1	0	0.299	-1	1.974	-1	6.605	0	1823	37	1.9
48627.9	10000	41.3716	92.2953	-513	QK	2.3	0	7.4	0	1.1	0	0.316	0	2.120	0	6.705	1	1834	32	1.9
48628.0	10000	41.3716	92.2944	-518	QK	2.3	0	7.6	0	1.1	0	0.303	-1	2.160	0	7.123	1	1834	53	1.9
48628.1	10000	41.3716	92.2936	-523	QK	2.1	-1	7.3	0	1.1	-1	0.287	-1	1.985	-1	6.917	1	1827	47	1.9

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48628.2	10000	41.3716	92.2928	-529	QK	2.1	-1	6.9	0	1.1	0	0.306	-1	1.951	-1	6.378	0	1839	36	1.9
48628.3	10000	41.3716	92.2919	-534	QK	2.2	-1	7.2	0	1.0	-1	0.305	-1	2.091	0	6.858	1	1846	42	1.9
48628.4	10000	41.3716	92.2911	-540	QK	1.9	-1	7.3	0	1.1	0	0.266	-1	1.727	-1	6.500	0	1849	50	1.9
48628.5	10000	41.3716	92.2902	-546	QK	1.7	-2	7.2	0	1.1	0	0.239	-2	1.522	-2	6.370	0	1857	41	1.9
48628.6	10000	41.3716	92.2894	-551	QK	1.8	-1	6.8	-1	1.2	0	0.264	-1	1.567	-1	5.934	-1	1847	47	1.9
48628.7	10000	41.3716	92.2886	-557	QK	1.9	-1	6.7	-1	1.2	0	0.291	-1	1.652	-1	5.687	-1	1859	50	1.9
48628.8	10000	41.3715	92.2877	-562	QK	2.2	-1	6.7	-1	1.1	0	0.333	0	1.946	-1	5.844	-1	1868	43	2.0
48628.9	10000	41.3715	92.2869	-568	QK	2.2	-1	6.8	-1	1.1	0	0.318	0	1.902	-1	5.981	-1	1855	36	2.0
48629.0	10000	41.3715	92.2860	-572	QK	2.2	-1	6.4	-1	1.2	0	0.341	0	1.878	-1	5.503	-1	1856	41	2.0
48629.1	10000	41.3715	92.2852	-576	QK	2.4	0	6.3	-1	1.1	0	0.381	0	2.176	0	5.712	-1	1856	38	2.0
48629.2	10000	41.3715	92.2844	-579	QK	2.6	0	6.4	-1	1.2	0	0.415	1	2.278	0	5.491	-1	1861	41	2.0
48629.3	10000	41.3715	92.2835	-582	QK	2.6	0	6.5	-1	1.2	0	0.401	1	2.246	0	5.608	-1	1879	40	2.0
48629.4	10000	41.3715	92.2827	-586	QK	2.7	0	6.4	-1	1.2	0	0.417	1	2.307	0	5.534	-1	1880	27	2.0
48629.5	10000	41.3715	92.2818	-588	QK	2.7	0	6.8	-1	1.2	1	0.390	1	2.257	0	5.791	-1	1889	44	2.0
48629.6	10000	41.3715	92.2810	-589	QK	3.0	1	6.8	-1	1.1	1	0.435	1	2.638	1	6.065	-1	1900	51	2.0
48629.7	10000	41.3715	92.2802	-590	QK	2.9	1	6.8	-1	1.1	1	0.420	1	2.539	1	6.041	-1	1916	34	2.0
48629.8	10000	41.3715	92.2793	-589	QK	2.9	1	6.7	-1	1.1	0	0.435	1	2.564	1	5.893	-1	1928	30	2.0
48629.9	10000	41.3714	92.2785	-588	QK	2.8	1	7.1	0	1.0	-1	0.390	1	2.642	1	6.775	0	1929	38	2.0
48630.0	10000	41.3714	92.2777	-585	QK	2.7	0	7.1	0	1.0	-1	0.386	0	2.728	1	7.069	1	1918	42	2.0
48630.1	10000	41.3714	92.2768	-584	QK	2.6	0	7.4	0	1.0	-1	0.351	0	2.608	1	7.435	1	1911	43	2.0
48630.2	10000	41.3714	92.2760	-582	QK	2.5	0	7.0	0	1.0	-1	0.362	0	2.574	1	7.109	1	1897	48	2.1
48630.3	10000	41.3714	92.2751	-580	QK	2.2	-1	6.8	-1	1.0	-1	0.325	0	2.228	0	6.861	1	1874	48	2.1
48630.4	10000	41.3714	92.2743	-576	QK	2.2	-1	6.6	-1	1.0	-1	0.333	0	2.165	0	6.507	0	1840	37	2.1
48630.5	10000	41.3714	92.2735	-573	QK	2.0	-1	6.6	-1	1.0	-1	0.311	-1	2.099	0	6.743	0	1809	32	2.1
48630.6	10000	41.3714	92.2726	-570	QK	2.0	-1	6.5	-1	1.0	-1	0.316	0	2.073	0	6.561	0	1786	45	2.1
48630.7	10000	41.3714	92.2718	-567	QK	1.7	-2	6.5	-1	1.0	-1	0.266	-1	1.660	-1	6.248	0	1769	41	2.1
48630.8	10000	41.3714	92.2710	-564	QK	1.9	-1	6.1	-2	1.0	-1	0.318	0	1.883	-1	5.920	-1	1751	37	2.1
48630.9	10000	41.3714	92.2701	-561	QK	1.8	-1	6.2	-1	1.0	-1	0.296	-1	1.797	-1	6.071	-1	1737	38	2.1
48631.0	10000	41.3713	92.2693	-559	QK	2.0	-1	6.5	-1	1.0	-1	0.313	-1	2.017	-1	6.448	0	1743	49	2.1
48631.1	10000	41.3713	92.2684	-556	QK	2.0	-1	6.5	-1	1.0	-1	0.313	-1	2.056	0	6.576	0	1738	38	2.1
48631.2	10000	41.3713	92.2676	-554	QK	2.0	-1	6.5	-1	1.0	-1	0.314	-1	2.066	0	6.589	0	1742	43	2.1
48631.3	10000	41.3713	92.2668	-551	QK	2.3	-1	6.3	-1	1.0	-1	0.361	0	2.209	0	6.116	-1	1733	53	2.1
48631.4	10000	41.3713	92.2659	-549	QK	2.5	0	6.1	-2	1.0	-1	0.407	1	2.507	1	6.156	0	1738	40	2.1
48631.5	10000	41.3713	92.2651	-548	QK	2.2	-1	6.2	-1	1.0	-1	0.363	0	2.302	0	6.345	0	1744	33	2.1
48631.6	10000	41.3713	92.2642	-547	QK	2.2	-1	5.9	-2	1.0	-1	0.380	0	2.240	0	5.892	-1	1728	41	2.1
48631.7	10000	41.3713	92.2634	-543	QK	2.0	-1	5.7	-2	1.0	-1	0.346	-1	1.943	-1	5.621	-1	1709	42	2.1
48631.8	10000	41.3713	92.2626	-539	QK	1.9	-1	6.1	-2	1.0	-1	0.314	-1	1.382	-1	5.989	-1	1703	39	2.1
48631.9	10000	41.3713	92.2617	-544	QK	2.0	-1	5.9	-2	1.1	-1	0.342	-1	1.900	-1	5.562	-1	1704	48	2.1
48632.0	10000	41.3713	92.2609	-548	QK	1.9	-1	5.9	-2	1.1	0	0.327	-1	1.802	-1	5.513	-1	1703	43	2.1
48632.1	10000	41.3712	92.2600	-550	QK	1.7	-2	6.1	-2	1.1	0	0.287	-1	1.584	-1	5.523	-1	1699	48	2.1
48632.2	10000	41.3712	92.2592	-552	QK	1.7	-2	6.2	-1	1.1	0	0.282	-1	1.575	-1	5.593	-1	1705	44	2.1
48632.3	10000	41.3712	92.2584	-553	QK	2.1	-1	6.4	-1	1.1	0	0.328	-1	1.900	-1	5.801	-1	1737	45	2.1
48632.4	10000	41.3712	92.2575	-555	QK	2.3	0	6.6	-1	1.1	0	0.355	0	2.135	0	6.015	-1	1756	43	2.1
48632.5	10000	41.3712	92.2567	-557	QK	2.7	0	6.5	-1	1.1	0	0.419	0	2.566	1	6.128	-1	1790	38	2.1
48632.6	10000	41.3712	92.2559	-559	QK	2.5	0	6.8	-1	1.1	0	0.370	0	2.340	0	6.322	0	1807	50	2.1
48632.7	10000	41.3712	92.2550	-561	QK	2.6	0	6.8	-1	1.1	0	0.385	0	2.484	1	6.446	0	1845	51	2.1
48632.8	10000	41.3712	92.2542	-563	QK	2.8	0	6.4	-1	1.1	0	0.439	0	2.702	1	6.157	0	1854	37	2.1
48632.9	10000	41.3712	92.2533	-566	QK	2.9	0	6.3	-1	1.1	0	0.470	1	3.067	1	6.524	0	1844	47	2.1
48633.0	10000	41.3711	92.2525	-569	QK	2.9	0	6.4	-1	1.1	0	0.453	1	2.995	1	6.615	0	1847	46	2.1
48633.1	10000	41.3711	92.2517	-572	QK	2.9	0	6.1	-2	1.0	0	0.473	1	2.971	1	6.283	0	1869	38	2.1
48633.2	10000	41.3711	92.2508	-576	QK	2.6	0	6.2	-1	1.0	-1	0.413	1	2.467	0	5.971	-1	1875	46	2.1
48633.3	10000	41.3711	92.2500	-579	QK	2.5	0	6.1	-2	1.0	-1	0.401	1	2.368	0	5.902	-1	1878	34	2.1

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48633.4	10000	41.3711	92.2491	-583	QK	2.2	-1	6.3	-1	1.1	0	0.356	0	2.096	0	5.889	-1	1865	43	2.1
48633.5	10000	41.3711	92.2483	-587	QK	2.3	0	7.0	0	1.1	0	0.327	0	2.138	0	6.536	0	1872	38	2.1
48633.6	10000	41.3711	92.2475	-591	QK	2.4	0	7.3	0	1.2	0	0.325	0	2.049	0	6.305	0	1884	44	2.1
48633.7	10000	41.3711	92.2466	-596	QK	2.2	-1	7.4	0	1.2	0	0.292	-1	1.886	-1	6.452	0	1874	48	2.1
48633.8	10000	41.3711	92.2458	-600	QK	2.4	0	7.4	0	1.2	0	0.320	0	2.014	-1	6.287	0	1885	48	2.1
48633.9	10000	41.3711	92.2449	-606	QK	2.4	0	7.2	0	1.1	0	0.330	0	2.082	0	6.311	0	1886	47	2.1
48634.0	10000	41.3711	92.2441	-614	QK	2.6	0	7.5	0	1.2	0	0.349	0	2.252	0	6.452	0	1898	47	2.1
48634.1	10000	41.3710	92.2433	-616	QK	2.9	1	7.6	0	1.1	0	0.387	1	2.565	1	6.635	0	1908	55	2.1
48634.2	10000	41.3710	92.2424	-622	QK	2.8	1	7.1	0	1.2	0	0.397	1	2.448	0	6.162	0	1925	39	2.1
48634.3	10000	41.3710	92.2416	-629	QK	2.5	0	7.1	0	1.2	0	0.351	0	2.119	0	6.033	-1	1933	43	2.1
48634.4	10000	41.3710	92.2408	-635	QK	2.5	0	7.2	0	1.2	0	0.341	0	2.086	0	6.121	-1	1943	36	2.1
48634.5	10000	41.3710	92.2399	-642	QK	2.3	0	7.6	0	1.2	1	0.309	-1	1.956	-1	6.337	0	1941	45	2.1
48634.6	10000	41.3710	92.2391	-646	QK	2.5	0	7.4	0	1.3	1	0.335	0	1.974	-1	5.892	-1	1947	39	2.1
48634.7	10000	41.3710	92.2383	-652	QK	2.6	0	7.2	0	1.3	1	0.355	0	2.036	0	5.735	-1	1937	42	2.1
48634.8	10000	41.3710	92.2374	-662	QK	2.3	0	7.0	0	1.3	1	0.326	-1	1.773	-1	5.439	-1	1946	43	2.1
48634.9	10000	41.3710	92.2366	-670	QK	2.4	0	7.1	0	1.3	1	0.336	0	1.856	-1	5.521	-1	1933	37	2.0
48635.0	10000	41.3710	92.2357	-678	QK	2.8	1	7.1	0	1.3	1	0.400	1	2.260	0	5.645	-1	1933	53	2.0
48635.1	10000	41.3709	92.2349	-685	QK	3.0	1	6.8	-1	1.2	1	0.438	1	2.389	0	5.458	-1	1936	50	2.0
48635.2	10000	41.3709	92.2341	-692	QK	2.9	1	6.8	-1	1.2	1	0.424	1	2.325	0	5.477	-1	1913	33	2.0
48635.3	10000	41.3709	92.2332	-700	QK	2.8	1	6.7	-1	1.2	0	0.421	1	2.447	0	5.816	-1	1876	34	2.0
48635.4	10000	41.3709	92.2324	-706	QK	2.6	0	6.7	-1	1.1	0	0.386	0	2.300	0	5.956	-1	1849	40	2.0
48635.5	10000	41.3709	92.2315	-714	QK	2.5	0	6.8	-1	1.1	0	0.375	0	2.344	0	6.245	0	1804	38	2.0
48635.6	10000	41.3709	92.2307	-722	QK	2.3	0	6.5	-1	1.1	0	0.352	0	2.108	0	5.992	-1	1772	48	2.0
48635.7	10000	41.3709	92.2299	-729	QK	2.1	-1	6.2	-1	1.1	0	0.333	0	1.850	-1	5.562	-1	1742	44	2.0
48635.8	10000	41.3709	92.2290	-737	QK	1.7	-2	6.3	-1	1.1	0	0.277	-1	1.640	-1	5.915	-1	1691	38	2.0
48635.9	10000	41.3709	92.2282	-745	QK	1.6	-2	5.6	-2	1.0	-1	0.282	-1	1.618	-1	5.744	-1	1646	40	2.0
48636.0	10000	41.3709	92.2273	-753	QK	1.5	-2	5.8	-2	1.0	-1	0.263	-1	1.559	-1	5.939	-1	1641	41	2.0
48636.1	10000	41.3709	92.2265	-761	QK	1.6	-2	5.6	-2	1.0	-1	0.286	-1	1.615	-1	5.652	-1	1630	37	2.0
48636.2	10000	41.3708	92.2257	-769	QK	1.6	-2	6.0	-2	0.9	-1	0.261	-1	1.627	-1	6.246	0	1636	44	2.0
48636.3	10000	41.3708	92.2248	-777	QK	1.9	-1	6.5	-2	0.9	-2	0.286	-1	2.008	-1	7.025	1	1650	40	2.0
48636.4	10000	41.3708	92.2240	-786	QK	1.8	-2	6.8	-2	1.0	-2	0.259	-1	1.962	-1	7.562	1	1672	46	2.0
48636.5	10000	41.3708	92.2231	-794	QK	2.0	-1	6.8	-1	1.1	-1	0.292	-1	1.983	-1	6.800	0	1728	44	2.0
48636.6	10000	41.3708	92.2223	-803	QK	2.3	-1	6.5	-1	1.1	0	0.303	-1	2.051	-1	6.763	0	1795	48	1.9
48636.7	10000	41.3708	92.2215	-812	QK	2.2	-1	7.3	0	1.1	0	0.296	-1	1.905	-1	6.434	0	1797	44	1.9
48636.8	10000	41.3708	92.2206	-820	QK	2.1	-1	7.6	0	1.1	0	0.279	-1	1.950	-1	6.995	0	1799	46	1.9
48636.9	10000	41.3708	92.2198	-827	QK	2.4	0	7.6	0	1.1	0	0.310	-1	2.163	0	6.972	0	1811	31	1.9
48637.0	10000	41.3708	92.2190	-834	QK	2.3	0	7.7	0	1.1	0	0.300	-1	2.055	0	6.840	0	1829	36	1.9
48637.1	10000	41.3708	92.2181	-835	QK	2.4	0	7.8	1	1.2	0	0.313	-1	2.077	0	6.625	0	1839	36	1.9
48637.2	10000	41.3708	92.2173	-836	QK	2.4	0	8.1	1	1.2	1	0.302	-1	2.064	0	6.839	0	1832	48	1.9
48637.3	10000	41.3707	92.2164	-845	QK	2.4	0	7.9	1	1.1	0	0.304	-1	2.161	0	7.117	1	1799	40	1.9
48637.4	10000	41.3707	92.2156	-857	QK	2.6	0	7.7	0	1.0	0	0.339	0	2.534	0	7.481	1	1790	45	1.9
48637.5	10000	41.3707	92.2148	-865	QK	2.7	0	7.4	0	1.1	-1	0.368	0	2.626	0	7.130	1	1789	36	1.9
48637.6	10000	41.3707	92.2139	-869	QK	2.5	0	7.0	0	1.1	-1	0.352	0	2.361	0	6.717	1	1769	46	1.9
48637.7	10000	41.3707	92.2131	-871	QK	2.4	0	6.4	-1	1.1	-1	0.365	0	2.371	0	6.488	1	1735	45	1.9
48637.8	10000	41.3707	92.2122	-871	QK	2.3	0	6.6	-1	1.1	-2	0.367	0	2.396	0	6.522	1	1703	45	1.9
48637.9	10000	41.3707	92.2114	-872	QK	2.2	-1	6.7	-1	1.1	-1	0.359	0	2.388	0	6.648	1	1676	35	1.9
48638.0	10000	41.3707	92.2106	-872	QK	2.0	-1	6.5	-1	1.1	-1	0.354	0	2.148	0	6.063	-1	1678	48	1.9
48638.1	10000	41.3707	92.2097	-871	QK	1.9	-1	6.2	-2	1.1	-1	0.322	0	1.874	-1	5.820	-1	1679	27	1.9
48638.2	10000	41.3707	92.2089	-871	QK	2.1	-1	6.7	-2	1.1	-1	0.351	0	2.078	0	5.925	-1	1686	40	1.9
48638.3	10000	41.3707	92.2081	-870	QK	2.2	-1	6.7	-2	1.1	-1	0.384	0	2.271	0	5.922	-1	1686	31	1.9
48638.4	10000	41.3706	92.2072	-869	QK	2.6	0	6.8	-2	1.1	-1	0.442	1	2.633	1	5.958	-1	1673	44	1.9
48638.5	10000	41.3706	92.2064	-867	QK	2.4	0	6.1	-2	0.9	-2	0.397	1	2.651	1	6.672	0	1638		1.

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48638.6	10000	41.3706	92.2055	-864	QK	2.3	0	5.6	-2	0.9	-2	0.417	1	2.658	1	6.379	0	1602	49	1.9
48638.7	10000	41.3706	92.2047	-860	QK	2.2	-1	6.0	-2	0.9	-2	0.364	0	2.526	1	6.935	1	1571	42	1.8
48638.8	10000	41.3706	92.2039	-857	QK	2.1	-1	6.1	-2	0.9	-2	0.345	0	2.424	0	7.020	1	1555	43	1.8
48638.9	10000	41.3706	92.2030	-856	QK	1.8	-2	5.6	-2	0.9	-2	0.315	0	2.039	0	6.475	0	1536	38	1.8
48639.0	10000	41.3706	92.2022	-855	QK	1.8	-1	5.5	-2	0.9	-2	0.325	0	2.032	0	6.259	0	1526	53	1.8
48639.1	10000	41.3706	92.2014	-854	QK	1.6	-2	5.7	-2	0.9	-2	0.280	-1	1.708	-1	6.103	-1	1539	43	1.8
48639.2	10000	41.3706	92.2006	-851	QK	2.0	-1	5.2	-3	0.9	-2	0.378	0	2.111	0	5.587	-1	1570	34	1.8
48639.3	10000	41.3706	92.1997	-849	QK	2.4	0	5.0	-3	0.9	-2	0.468	2	2.550	1	5.453	-1	1610	41	1.8
48639.4	10000	41.3707	92.1989	-846	QK	2.6	0	5.1	-3	0.9	-2	0.511	2	2.911	1	5.697	-1	1632	41	1.8
48639.5	10000	41.3707	92.1981	-845	QK	2.6	0	5.5	-2	0.9	-2	0.480	2	3.007	2	6.259	0	1658	50	1.8
48639.6	10000	41.3707	92.1973	-842	QK	2.7	0	5.9	-2	0.9	-2	0.458	1	2.889	1	6.306	0	1675	41	1.8
48639.7	10000	41.3707	92.1964	-841	QK	2.6	0	6.2	-1	0.9	-2	0.426	1	2.806	1	6.595	0	1683	46	1.8
48639.8	10000	41.3707	92.1956	-839	QK	2.3	0	6.1	-1	0.9	-2	0.378	0	2.502	0	6.614	0	167[illegible]	39	1.8
48639.9	10000	41.3707	92.1948	-837	QK	1.9	-1	6.5	-1	1.0	-1	0.300	-1	2.022	-1	6.751	0	1676	39	1.8
48640.0	10000	41.3707	92.1939	-836	QK	1.7	-2	6.6	-1	0.9	-2	0.253	-1	1.788	-1	7.076	1	1656	39	1.8
48640.1	10000	41.3707	92.1931	-835	QK	1.7	-2	6.7	-1	0.9	-2	0.254	-1	1.855	-1	7.297	1	1630	46	1.8
48640.2	10000	41.3707	92.1923	-833	QK	1.7	-2	6.3	-1	0.9	-1	0.277	-1	1.837	-1	6.635	0	1596	54	1.8
48640.3	10000	41.3707	92.1915	-831	QK	1.6	-2	6.5	-1	0.9	-2	0.242	-2	1.788	-1	7.394	1	1565	37	1.8
48640.4	10000	41.3708	92.1906	-827	QK	1.5	-2	6.3	-1	0.9	-2	0.229	-2	1.658	-1	7.255	1	1531	39	1.8
48640.5	10000	41.3708	92.1898	-825	QK	1.5	-2	6.3	-1	0.9	-2	0.236	-2	1.757	-1	7.433	1	1521	42	1.8
48640.6	10000	41.3708	92.1890	-829	QK	1.6	-2	6.1	-1	0.9	-2	0.264	-1	1.833	-1	6.939	1	1526	46	1.8
48640.7	10000	41.3708	92.1882	-831	QK	1.9	-1	6.5	-1	0.9	-2	0.291	-1	2.154	0	7.393	1	1532	46	1.8
48640.8	10000	41.3708	92.1873	-830	QK	2.0	-1	6.2	-1	0.9	-2	0.317	0	2.195	0	6.926	1	1539	50	1.8
48640.9	10000	41.3708	92.1865	-828	QK	2.1	-1	6.1	-2	0.9	-2	0.338	0	2.414	0	7.142	1	1547	45	1.8
48641.0	10000	41.3708	92.1857	-830	QK	2.2	-1	6.1	-1	0.9	-2	0.353	0	2.503	0	7.084	1	1539	48	1.8
48641.1	10000	41.3708	92.1848	-831	QK	2.2	-1	6.0	-2	0.9	-2	0.361	0	2.532	0	7.013	1	1552	42	1.8
48641.2	10000	41.3708	92.1840	-832	QK	2.1	-1	6.1	-2	0.9	-2	0.352	0	2.399	0	6.819	0	1583	36	1.8
48641.3	10000	41.3708	92.1832	-832	QK	2.3	0	6.1	-1	0.9	-2	0.377	0	2.674	1	7.096	1	1597	28	1.8
48641.4	10000	41.3709	92.1824	-831	QK	2.3	0	5.7	-2	0.9	-2	0.403	1	2.580	1	6.404	0	1615	39	1.8
48641.5	10000	41.3709	92.1815	-830	QK	2.3	-1	6.1	-2	0.9	-2	0.371	0	2.515	1	6.770	0	1654	41	1.8
48641.6	10000	41.3709	92.1807	-829	QK	2.3	-1	6.7	-1	1.0	-1	0.340	0	2.277	1	6.707	0	1717	50	1.8
48641.7	10000	41.3709	92.1799	-827	QK	2.4	0	6.7	-1	1.0	-1	0.356	0	2.300	1	6.466	0	1781	38	1.8
48641.8	10000	41.3709	92.1790	-825	QK	2.5	0	7.0	-1	1.1	-1	0.358	0	2.290	1	6.403	0	1825	45	1.8
48641.9	10000	41.3709	92.1782	-823	QK	2.8	0	7.4	-1	1.1	-1	0.376	0	2.582	1	6.876	1	1838	37	1.8
48642.0	10000	41.3709	92.1774	-819	QK	2.8	0	7.3	-1	1.1	-1	0.389	0	2.577	1	6.619	0	1851	42	1.8
48642.1	10000	41.3709	92.1766	-815	QK	2.8	0	7.9	-1	1.1	-1	0.355	0	2.458	1	6.923	1	1878	38	1.8
48642.2	10000	41.3709	92.1758	-812	QK	3.0	0	7.8	-1	1.1	-2	0.386	0	2.561	1	6.635	0	1894	34	1.8
48642.3	10000	41.3710	92.1749	-807	QK	3.1	1	7.2	-1	1.1	-2	0.433	1	2.691	1	6.221	0	1879	38	1.8
48642.4	10000	41.3710	92.1741	-801	QK	3.2	1	7.1	-1	1.1	-1	0.444	1	2.745	1	6.182	0	1878	42	1.8
48642.5	10000	41.3710	92.1733	-795	QK	3.2	1	6.8	-1	1.1	-1	0.477	1	2.846	1	5.970	-1	1880	39	1.8
48642.6	10000	41.3710	92.1724	-789	QK	3.2	1	6.9	-1	1.1	-2	0.464	1	2.766	1	5.959	-1	1884	35	1.8
48642.7	10000	41.3710	92.1716	-782	QK	3.0	1	7.1	-1	1.1	-1	0.421	1	2.645	1	6.279	0	1881	38	1.8
48642.8	10000	41.3710	92.1708	-775	QK	2.8	1	6.9	-1	1.1	-1	0.444	1	2.721	1	6.131	0	1872	54	1.8
48642.9	10000	41.3710	92.1700	-768	QK	2.6	0	6.8	-1	1.1	-1	0.382	0	2.337	1	6.118	-1	1855	47	1.8
48643.0	10000	41.3710	92.1691	-761	QK	2.5	0	7.2	-1	1.1	-1	0.342	0	2.213	1	6.461	0	1847	38	1.8
48643.1	10000	41.3710	92.1683	-753	QK	2.4	0	7.3	-1	1.1	-1	0.332	0	2.210	1	6.655	0	1835	46	1.7
48643.2	10000	41.3710	92.1675	-746	QK	2.2	-1	6.9	-1	1.1	-1	0.324	0	2.231	1	6.888	1	1820	35	1.7
48643.3	10000	41.3711	92.1666	-739	QK	2.2	-1	7.0	-1	1.1	-1	0.324	0	2.115	1	6.529	0	1797	43	1.7
48643.4	10000	41.3711	92.1658	-732	QK	1.9	-1	6.9	-1	1.1	-1	0.320	0	2.042	1	6.374	0	1775	42	1.7
48643.5	10000	41.3711	92.1650	-725	QK	2.0	-1	7.0	0	1.1	-1	0.269	-1	1.692	-1	6.286	0	1737	51	1.7
48643.6	10000	41.3711	92.1642	-719	QK	2.0	-1	7.0	0	1.0	-1	0.283	-1	1.857	-1	6.568	0	1718	46	1.7
48643.7	10000	41.3711	92.1633	-713	QK	2.0	-1	7.0	0	1.0	-1	0.285	-1	1.952	-1	6.859	1	1696	54	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48643.8	10000	41.3711	92.1625	-707	QK	1.9	-1	7.2	0	1.0	-1	0.259	-1	1.828	-1	7.054	1	1695	45	1.7
48643.9	10000	41.3711	92.1617	-702	QK	1.6	-2	7.5	0	1.0	-1	0.215	-2	1.611	-1	7.488	1	1689	56	1.7
48644.0	10000	41.3711	92.1609	-696	QK	1.8	-2	7.7	1	1.0	-1	0.231	-2	1.745	-1	7.544	2	1701	41	1.7
48644.1	10000	41.3711	92.1600	-691	QK	1.7	-2	7.5	0	1.0	-1	0.230	-2	1.728	-1	7.515	1	1701	44	1.7
48644.2	10000	41.3711	92.1592	-687	QK	1.8	-1	7.8	1	1.0	-1	0.233	-2	1.819	-1	7.797	2	1730	48	1.7
48644.3	10000	41.3712	92.1584	-683	QK	1.9	-1	7.4	0	1.1	-1	0.252	-1	1.764	-1	6.991	1	1749	38	1.7
48644.4	10000	41.3712	92.1575	-678	QK	1.9	-1	7.7	1	1.1	0	0.249	-1	1.717	-1	6.890	1	1786	50	1.7
48644.5	10000	41.3712	92.1567	-674	QK	1.9	-1	7.6	0	1.2	1	0.250	-1	1.541	-2	6.161	0	1813	40	1.7
48644.6	10000	41.3712	92.1559	-670	QK	2.1	-1	7.6	1	1.3	1	0.272	-1	1.612	-1	5.930	-1	1844	42	1.7
48644.7	10000	41.3712	92.1551	-666	QK	2.0	-1	7.4	0	1.3	2	0.268	-1	1.515	-2	5.650	-1	1854	38	1.7
48644.8	10000	41.3712	92.1542	-662	QK	2.0	-1	7.6	1	1.3	2	0.261	-1	1.513	-2	5.799	-1	1868	43	1.7
48644.9	10000	41.3712	92.1534	-659	QK	2.2	-1	7.6	0	1.3	2	0.294	-1	1.698	-1	5.780	-1	1870	39	1.7
48645.0	10000	41.3712	92.1526	-654	QK	2.2	-1	7.8	1	1.3	1	0.287	-1	1.780	-1	6.195	0	1867	43	1.7
48645.1	10000	41.3713	92.1518	-651	QK	2.1	-1	7.7	1	1.2	1	0.276	-1	1.716	-1	6.222	0	1848	46	1.7
48645.2	10000	41.3713	92.1509	-648	QK	2.2	-1	7.8	1	1.2	0	0.288	-1	1.936	-1	6.723	0	1831	36	1.7
48645.3	10000	41.3713	92.1501	-645	QK	2.4	0	7.5	0	1.1	0	0.328	0	2.188	0	6.664	0	1819	45	1.7
48645.4	10000	41.3713	92.1493	-641	QK	2.4	0	7.7	1	1.1	0	0.309	-1	2.097	0	6.778	0	1811	46	1.7
48645.5	10000	41.3713	92.1485	-638	QK	2.7	0	7.6	1	1.2	0	0.361	0	2.356	0	6.530	0	1819	41	1.7
48645.6	10000	41.3713	92.1476	-635	QK	2.8	0	7.4	0	1.2	0	0.371	0	2.399	0	6.463	0	1815	53	1.7
48645.7	10000	41.3713	92.1468	-631	QK	2.5	0	7.8	1	1.2	0	0.317	0	2.136	0	6.728	0	1821	41	1.7
48645.8	10000	41.3713	92.1460	-628	QK	2.8	1	7.6	1	1.1	0	0.365	0	2.459	0	6.736	0	1828	47	1.7
48645.9	10000	41.3713	92.1451	-624	QK	2.8	1	7.4	0	1.1	0	0.385	0	2.544	1	6.607	0	1831	41	1.7
48646.0	10000	41.3713	92.1443	-621	QK	2.8	1	7.5	0	1.1	0	0.375	0	2.608	1	6.955	1	1818	32	1.7
48646.1	10000	41.3714	92.1435	-617	QK	2.9	1	7.6	1	1.0	-1	0.379	0	2.849	1	7.512	1	1815	44	1.7
48646.2	10000	41.3714	92.1427	-613	QK	2.5	0	7.5	0	1.0	-1	0.338	0	2.576	1	7.630	2	1805	42	1.7
48646.3	10000	41.3714	92.1418	-610	QK	2.1	-1	7.8	1	1.0	-1	0.275	-1	2.131	0	7.740	2	1802	46	1.7
48646.4	10000	41.3714	92.1410	-606	QK	2.6	0	7.4	0	1.0	-1	0.358	0	2.712	1	7.578	2	1812	39	1.7
48646.5	10000	41.3714	92.1402	-602	QK	2.3	-1	7.5	0	1.0	-1	0.303	-1	2.237	0	7.372	1	1801	43	1.7
48646.6	10000	41.3714	92.1394	-597	QK	2.2	-1	7.7	1	1.1	-1	0.290	-1	2.099	0	7.225	1	1807	40	1.7
48646.7	10000	41.3714	92.1385	-594	QK	2.3	-1	7.7	1	1.1	-1	0.294	-1	2.110	0	7.164	1	1812	51	1.7
48646.8	10000	41.3714	92.1377	-590	QK	2.5	0	7.4	0	1.1	-1	0.333	0	2.354	0	7.078	1	1805	47	1.7
48646.9	10000	41.3714	92.1369	-587	QK	2.5	0	7.5	0	1.0	-1	0.328	0	2.392	0	7.298	1	1799	32	1.7
48647.0	10000	41.3714	92.1360	-584	QK	2.9	1	7.2	0	1.0	-1	0.400	1	2.810	1	7.030	1	1791	44	1.7
48647.1	10000	41.3715	92.1352	-581	QK	2.6	0	7.0	0	1.0	-1	0.373	0	2.566	1	6.885	1	1759	43	1.7
48647.2	10000	41.3715	92.1344	-579	QK	2.8	1	7.1	0	1.0	-1	0.398	1	2.859	1	7.180	1	1740	32	1.7
48647.3	10000	41.3715	92.1336	-577	QK	2.7	0	7.0	0	1.0	-1	0.385	1	2.791	1	7.256	1	1707	42	1.7
48647.4	10000	41.3715	92.1327	-575	QK	2.4	0	6.8	-1	1.0	-1	0.358	0	2.484	1	6.946	1	1704	38	1.7
48647.5	10000	41.3715	92.1319	-574	QK	2.3	-1	6.9	0	1.0	-1	0.325	0	2.318	1	7.128	1	1683	40	1.7
48647.6	10000	41.3715	92.1311	-572	QK	2.2	-1	6.5	-1	1.0	-1	0.331	0	2.156	0	6.517	0	1674	38	1.7
48647.7	10000	41.3715	92.1303	-571	QK	1.9	-1	6.5	-1	1.0	-1	0.294	-1	1.902	-1	6.477	0	1660	57	1.7
48647.8	10000	41.3715	92.1294	-570	QK	2.0	-1	6.3	-1	1.1	0	0.316	0	1.874	-1	5.934	-1	1663	41	1.7
48647.9	10000	41.3715	92.1286	-569	QK	2.3	-1	6.2	-1	1.1	0	0.366	0	2.099	-1	5.738	-1	1677	43	1.7
48648.0	10000	41.3716	92.1278	-568	QK	2.1	-1	5.8	-2	1.1	0	0.372	0	2.009	-1	5.406	-2	1679	40	1.7
48648.1	10000	41.3716	92.1270	-566	QK	2.2	-1	5.5	-2	1.1	0	0.396	1	2.005	-1	5.064	-2	1667	56	1.7
48648.2	10000	41.3716	92.1261	-565	QK	2.4	0	5.4	-3	1.1	0	0.442	1	2.127	0	4.816	-2	1671	50	1.7
48648.3	10000	41.3716	92.1253	-563	QK	2.4	0	5.5	-2	1.1	0	0.439	1	2.212	0	5.043	-2	1665	32	1.7
48648.4	10000	41.3716	92.1245	-561	QK	2.3	-1	5.5	-2	1.1	0	0.427	1	2.160	0	5.056	-2	1651	43	1.7
48648.5	10000	41.3716	92.1236	-559	QK	2.2	-1	5.4	-2	1.0	-1	0.399	1	2.081	0	5.217	-2	1638	52	1.7
48648.6	10000	41.3716	92.1228	-556	QK	2.0	-1	5.2	-3	1.0	-1	0.392	1	1.976	-1	5.037	-2	1633	36	1.7
48648.7	10000	41.3716	92.1220	-553	QK	2.1	-1	5.5	-2	1.1	-1	0.389	1	2.028	-1	5.214	-2	1627	37	1.7
48648.8	10000	41.3716	92.1212	-550	QK	2.1	-1	5.9	-2	1.0	-1	0.365	0	2.152	0	5.903	-1	1641	38	1.7
48648.9	10000	41.3716	92.1203	-546	QK	2.1	-1	6.2	-1	1.0	-1	0.338	0	2.030	0	6.011	-1	1661	42	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48649.0	10000	41.3717	92.1195	-541	QK	2.2	-1	6.2	-1	1.1	0	0.360	0	2.091	0	5.804	-1	1675	52	1.7
48649.1	10000	41.3717	92.1187	-536	QK	2.3	0	6.2	-1	1.1	0	0.372	0	2.128	0	5.718	-1	1712	43	1.7
48649.2	10000	41.3717	92.1179	-531	QK	2.5	0	6.4	-1	1.1	0	0.389	1	2.282	0	5.863	-1	1738	29	1.7
48649.3	10000	41.3717	92.1170	-526	QK	2.2	-1	6.4	-1	1.1	0	0.335	0	1.902	-1	5.682	-1	1746	44	1.7
48649.4	10000	41.3717	92.1162	-520	QK	2.4	0	6.6	-1	1.1	0	0.363	0	2.130	0	5.867	-1	1771	46	1.7
48649.5	10000	41.3717	92.1154	-515	QK	2.2	-1	6.4	-1	1.1	0	0.346	0	1.965	-1	5.680	-1	1757	40	1.7
48649.6	10000	41.3717	92.1145	-510	QK	2.1	-1	6.1	-2	1.1	0	0.347	0	1.919	-1	5.530	-1	1739	53	1.7
48649.7	10000	41.3717	92.1137	-505	QK	1.9	-1	6.0	-2	1.1	0	0.318	0	1.765	-1	5.556	-1	1727	51	1.7
48649.8	10000	41.3717	92.1129	-501	QK	2.0	-1	6.2	-1	1.1	0	0.317	0	1.767	-1	5.573	-1	1718	39	1.7
48649.9	10000	41.3717	92.1121	-498	QK	1.9	-1	6.3	-1	1.1	0	0.310	-1	1.769	-1	5.705	-1	1718	45	1.7
48650.0	10000	41.3717	92.1112	-494	QK	1.9	-1	6.2	-1	1.1	0	0.313	-1	1.722	-1	5.507	-1	1714	42	1.7
48650.1	10000	41.3718	92.1104	-492	QK	1.7	-2	6.3	-1	1.1	0	0.279	-1	1.579	-1	5.663	-1	1710	38	1.7
48650.2	10000	41.3718	92.1096	-489	QK	1.8	-1	6.2	-1	1.1	0	0.292	-1	1.623	-1	5.556	-1	1708	38	1.7
48650.3	10000	41.3718	92.1087	-487	QK	1.7	-2	6.5	-1	1.2	0	0.264	-1	1.464	-2	5.538	-1	1718	47	1.7
48650.4	10000	41.3718	92.1079	-485	QK	1.8	-2	6.8	-1	1.2	0	0.261	-1	1.534	-2	5.880	-1	1726	51	1.7
48650.5	10000	41.3718	92.1071	-484	QK	1.9	-1	6.9	0	1.1	0	0.271	-1	1.681	-1	6.212	0	1732	38	1.7
48650.6	10000	41.3718	92.1063	-483	QK	1.7	-2	7.1	0	1.1	0	0.243	-1	1.548	-2	6.361	0	1730	42	1.7
48650.7	10000	41.3718	92.1055	-482	QK	1.7	-2	7.3	0	1.1	0	0.240	-2	1.602	-1	6.689	0	1728	35	1.7
48650.8	10000	41.3718	92.1046	-481	QK	2.0	-1	6.9	0	1.1	0	0.282	-1	1.746	-1	6.203	0	1738	43	1.7
48650.9	10000	41.3718	92.1038	-480	QK	1.9	-1	6.9	0	1.1	0	0.274	-1	1.699	-1	6.206	0	1736	36	1.7
48651.0	10000	41.3718	92.1030	-480	QK	2.0	-1	6.8	-1	1.0	-1	0.300	-1	1.939	-1	6.467	0	1723	40	1.7
48651.1	10000	41.3718	92.1021	-480	QK	2.3	-1	6.5	-1	1.0	-1	0.349	0	2.193	0	6.290	0	1707	45	1.7
48651.2	10000	41.3719	92.1013	-478	QK	2.2	-1	6.1	-1	1.0	-1	0.361	0	2.141	0	5.940	-1	1693	43	1.7
48651.3	10000	41.3719	92.1005	-477	QK	2.5	0	5.8	-2	1.0	-1	0.435	1	2.596	1	5.966	-1	1676	46	1.7
48651.4	10000	41.3719	92.0997	-476	QK	2.5	0	5.8	-2	0.9	-2	0.442	1	2.795	1	6.317	0	1652	32	1.7
48651.5	10000	41.3719	92.0988	-476	QK	2.3	0	5.7	-2	0.9	-2	0.412	1	2.628	1	6.382	0	1619	44	1.7
48651.6	10000	41.3719	92.0980	-476	QK	2.4	0	5.8	-2	0.9	-2	0.419	1	2.764	1	6.592	0	1613	45	1.7
48651.7	10000	41.3719	92.0972	-476	QK	2.3	0	5.7	-2	0.9	-2	0.403	1	2.463	0	6.113	-1	1602	38	1.7
48651.8	10000	41.3719	92.0963	-475	QK	2.0	-1	5.8	-2	0.9	-2	0.343	1	2.130	0	6.203	0	1600	42	1.7
48651.9	10000	41.3719	92.0955	-475	QK	2.0	-1	6.1	-2	1.0	-2	0.321	1	2.036	0	6.352	0	1607	44	1.8
48652.0	10000	41.3719	92.0947	-475	QK	1.6	-2	6.2	-1	1.0	-1	0.249	-1	1.527	-2	6.140	0	1633	35	1.8
48652.1	10000	41.3719	92.0939	-475	QK	1.6	-2	6.1	-2	1.1	0	0.272	-1	1.458	-2	5.368	-2	1670	41	1.8
48652.2	10000	41.3720	92.0930	-474	QK	1.6	-2	6.1	-2	1.1	0	0.258	-1	1.423	-2	5.519	-1	1684	43	1.8
48652.3	10000	41.3720	92.0922	-474	QK	1.8	-1	6.2	-1	1.1	0	0.289	-1	1.564	-1	5.403	-2	1687	45	1.8
48652.4	10000	41.3720	92.0914	-476	QK	1.7	-2	6.0	-2	1.1	0	0.281	-1	1.581	-1	5.634	-1	1684	54	1.8
48652.5	10000	41.3720	92.0906	-478	QK	1.9	-1	5.9	-2	1.0	-1	0.319	-1	1.810	-1	5.683	-1	1666	38	1.8
48652.6	10000	41.3720	92.0897	-480	QK	1.9	-1	5.5	-2	1.0	-1	0.348	-1	1.888	-1	5.426	-2	1636	43	1.8
48652.7	10000	41.3720	92.0889	-482	QK	2.1	-1	5.5	-2	1.0	-1	0.377	0	2.045	0	5.432	-1	1600	52	1.8
48652.8	10000	41.3720	92.0881	-486	QK	2.1	-1	5.9	-2	0.9	-2	0.355	0	2.306	0	6.494	0	1564	34	1.8
48652.9	10000	41.3720	92.0872	-489	QK	2.0	-1	6.0	-2	0.9	-2	0.333	0	2.273	0	6.821	0	1563	54	1.8
48653.0	10000	41.3720	92.0864	-493	QK	2.1	-1	6.1	-2	0.8	-2	0.338	0	2.464	0	7.284	1	1554	42	1.8
48653.1	10000	41.3720	92.0856	-497	QK	2.4	-1	6.0	-2	0.8	-2	0.393	1	2.836	1	7.209	1	1554	50	1.8
48653.2	10000	41.3721	92.0848	-501	QK	2.4	-1	6.2	-1	0.9	-2	0.386	1	2.806	1	7.274	1	1574	46	1.8
48653.3	10000	41.3721	92.0839	-507	QK	2.4	-1	6.4	-1	0.8	-2	0.370	1	2.832	1	7.663	2	1592	50	1.8
48653.4	10000	41.3721	92.0831	-512	QK	2.2	-1	6.4	-1	0.8	-3	0.343	1	2.678	1	7.805	2	1602	41	1.8
48653.5	10000	41.3721	92.0822	-518	QK	2.2	-1	6.3	-1	0.9	-2	0.350	1	2.555	1	7.301	1	1618	48	1.8
48653.6	10000	41.3721	92.0814	-524	QK	2.4	0	6.4	-1	0.9	-2	0.381	1	2.753	1	7.232	1	1628	38	1.8
48653.7	10000	41.3721	92.0806	-531	QK	2.3	0	6.8	-1	0.9	-2	0.336	1	2.488	1	7.231	1	1679	56	1.8
48653.8	10000	41.3721	92.0797	-538	QK	2.3	0	6.9	-1	1.0	-1	0.336	1	2.385	1	7.107	1	1724	40	1.8
48653.9	10000	41.3721	92.0789	-545	QK	2.4	0	7.2	0	1.0	-1	0.343	1	2.336	1	6.812	1	1761	50	1.8
48654.0	10000	41.3721	92.0780	-553	QK	2.5	1	7.2	0	1.0	-1	0.343	1	2.413	1	7.026	1	1796	49	1.8
48654.1	10000	41.3721	92.0772	-560	QK	2.8	1	7.1	0	1.1	0	0.393	1	2.612	1	6.640	0	1832	37	1.8

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48654.2	10000	41.3722	92.0764	-567	QK	2.8	1	7.2	0	1.1	0	0.384	0	2.536	1	6.611	0	1862	55	1.8
48654.3	10000	41.3722	92.0755	-574	QK	2.7	0	7.7	1	1.2	0	0.353	0	2.324	0	6.576	0	1891	46	1.8
48654.4	10000	41.3722	92.0747	-581	QK	2.7	0	7.3	0	1.2	1	0.374	0	2.289	0	6.127	-1	1890	37	1.8
48654.5	10000	41.3722	92.0738	-588	QK	2.5	0	7.4	0	1.2	1	0.342	0	2.027	-1	5.922	-1	1897	47	1.8
48654.6	10000	41.3722	92.0730	-595	QK	2.4	0	7.5	0	1.3	1	0.321	0	1.885	-1	5.867	-1	1906	41	1.8
48654.7	10000	41.3722	92.0722	-600	QK	2.5	0	7.4	0	1.3	1	0.336	0	1.930	-1	5.743	-1	1915	54	1.8
48654.8	10000	41.3722	92.0713	-606	QK	2.5	0	7.7	1	1.3	1	0.321	0	1.930	-1	6.011	-1	1912	38	1.8
48654.9	10000	41.3722	92.0705	-611	QK	2.2	-1	7.8	1	1.3	1	0.285	-1	1.754	-1	6.151	0	1919	40	1.8
48655.0	10000	41.3722	92.0696	-617	QK	2.4	0	7.4	0	1.2	1	0.330	0	1.974	-1	5.990	-1	1916	42	1.8
48655.1	10000	41.3722	92.0688	-622	QK	2.4	0	7.1	0	1.2	1	0.332	0	1.951	-1	5.875	-1	1899	33	1.8
48655.2	10000	41.3722	92.0679	-626	QK	2.6	0	7.4	0	1.2	1	0.349	0	2.127	0	6.098	-1	1900	49	1.8
48655.3	10000	41.3722	92.0671	-630	QK	2.6	0	7.4	0	1.2	1	0.349	0	2.165	0	6.195	0	1902	29	1.8
48655.4	10000	41.3723	92.0663	-632	QK	2.5	0	7.5	0	1.2	1	0.337	0	2.133	0	6.333	0	1899	42	1.8
48655.5	10000	41.3723	92.0654	-637	QK	2.6	0	7.4	0	1.2	1	0.353	0	2.213	0	6.271	0	1929	44	1.8
48655.6	10000	41.3723	92.0646	-646	QK	3.1	1	7.4	0	1.2	1	0.420	1	2.510	1	5.976	-1	1937	43	1.8
48655.7	10000	41.3723	92.0637	-652	QK	2.9	1	7.5	0	1.2	1	0.388	1	2.386	0	6.156	0	1948	56	1.8
48655.8	10000	41.3723	92.0629	-655	QK	3.0	1	7.6	1	1.2	1	0.398	1	2.444	0	6.143	0	1964	47	1.8
48655.9	10000	41.3723	92.0621	-659	QK	3.0	1	7.4	0	1.2	1	0.409	1	2.499	0	6.110	-1	1962	33	1.8
48656.0	10000	41.3723	92.0612	-662	QK	3.1	1	7.4	0	1.2	1	0.418	1	2.557	1	6.110	-1	1969	33	1.8
48656.1	10000	41.3723	92.0604	-665	QK	3.1	1	7.2	0	1.2	1	0.422	1	2.497	0	5.918	-1	1976	36	1.8
48656.2	10000	41.3723	92.0595	-667	QK	3.0	1	7.2	0	1.2	1	0.420	1	2.449	0	5.832	-1	1950	36	1.8
48656.3	10000	41.3723	92.0587	-669	QK	2.8	1	6.9	0	1.2	1	0.409	1	2.339	0	5.715	-1	1938	47	1.8
48656.4	10000	41.3724	92.0578	-672	QK	2.8	1	6.7	-1	1.2	1	0.416	1	2.338	0	5.625	-1	1909	40	1.8
48656.5	10000	41.3724	92.0570	-674	QK	2.7	0	6.8	-1	1.2	0	0.394	1	2.275	0	5.769	-1	1892	55	1.8
48656.6	10000	41.3724	92.0562	-676	QK	2.7	0	6.8	-1	1.2	0	0.401	1	2.275	0	5.670	-1	1897	58	1.8
48656.7	10000	41.3724	92.0553	-678	QK	2.7	0	6.5	-1	1.2	0	0.408	1	2.280	0	5.584	-1	1880	54	1.8
48656.8	10000	41.3724	92.0545	-679	QK	2.6	0	6.6	-1	1.2	1	0.391	1	2.141	0	5.475	-1	1862	49	1.8
48656.9	10000	41.3724	92.0536	-681	QK	2.5	0	6.7	-1	1.2	1	0.378	1	2.110	0	5.578	-1	1853	52	1.8
48657.0	10000	41.3724	92.0528	-682	QK	2.5	0	6.9	-1	1.2	1	0.366	1	2.069	0	5.660	-1	1852	45	1.8
48657.1	10000	41.3724	92.0520	-683	QK	2.6	0	6.9	0	1.2	1	0.379	1	2.107	0	5.567	-1	1854	45	1.8
48657.2	10000	41.3724	92.0511	-683	QK	2.6	0	7.0	0	1.2	1	0.378	1	2.158	0	5.713	-1	1854	36	1.8
48657.3	10000	41.3724	92.0503	-684	QK	2.3	-1	7.2	0	1.2	1	0.326	0	1.883	-1	5.778	-1	1841	50	1.8
48657.4	10000	41.3724	92.0494	-684	QK	2.2	-1	7.5	0	1.3	1	0.291	-1	1.740	-1	5.972	-1	1834	34	1.8
48657.5	10000	41.3724	92.0486	-684	QK	2.2	-1	7.6	1	1.3	1	0.292	-1	1.749	-1	5.979	-1	1833	43	1.8
48657.6	10000	41.3725	92.0478	-685	QK	2.0	-1	7.6	1	1.3	1	0.269	-1	1.577	-1	5.863	-1	1818	54	1.8
48657.7	10000	41.3725	92.0469	-685	QK	1.9	-1	7.6	1	1.3	1	0.251	-1	1.512	-2	6.026	-1	1805	46	1.8
48657.8	10000	41.3725	92.0461	-685	QK	1.7	-2	7.6	1	1.2	1	0.219	-2	1.351	-2	6.179	0	1810	43	1.8
48657.9	10000	41.3725	92.0452	-684	QK	1.8	-2	7.7	1	1.2	1	0.230	-2	1.449	-2	6.315	0	1816	41	1.8
48658.0	10000	41.3725	92.0444	-682	QK	2.1	-1	8.0	1	1.2	1	0.267	-1	1.838	-1	6.881	1	1820	49	1.8
48658.1	10000	41.3725	92.0435	-680	QK	2.3	0	7.6	1	1.1	1	0.302	-1	1.995	-1	6.608	0	1823	33	1.8
48658.2	10000	41.3725	92.0427	-682	QK	2.5	0	7.6	1	1.1	1	0.325	0	2.202	0	6.769	0	1830	44	1.8
48658.3	10000	41.3725	92.0419	-684	QK	2.6	0	7.4	1	1.1	1	0.351	0	2.377	0	6.768	0	1839	34	1.8
48658.4	10000	41.3725	92.0410	-685	QK	3.0	1	7.3	1	1.1	1	0.409	1	2.791	1	6.817	0	1853	37	1.8
48658.5	10000	41.3725	92.0402	-686	QK	3.2	1	7.5	1	1.1	1	0.434	1	2.953	1	6.811	0	1855	33	1.7
48658.6	10000	41.3725	92.0394	-686	QK	3.2	1	7.3	1	1.1	1	0.434	1	2.966	1	6.836	1	1842	43	1.7
48658.7	10000	41.3725	92.0385	-687	QK	3.0	1	7.7	-1	1.1	1	0.442	1	2.618	1	5.920	-1	1849	46	1.7
48658.8	10000	41.3726	92.0377	-688	QK	3.2	1	7.1	1	1.1	1	0.446	1	2.822	1	6.333	0	1852	35	1.7
48658.9	10000	41.3726	92.0368	-689	QK	3.1	1	7.3	1	1.1	1	0.442	1	2.884	1	6.524	0	1853	40	1.7
48659.0	10000	41.3726	92.0360	-690	QK	3.0	1	7.5	1	1.1	1	0.425	1	2.884	1	6.792	0	1869	33	1.7
48659.1	10000	41.3726	92.0351	-691	QK	2.8	1	7.6	1	1.1	1	0.394	1	2.673	1	6.779	0	1863	40	1.7
48659.2	10000	41.3726	92.0343	-693	QK	2.8	1	7.9	1	1.1	0	0.374	1	2.594	1	6.932	1	1855	42	1.7
48659.3	10000	41.3726	92.0335	-695	QK	2.8	1	7.9	1	1.1	0	0.355	0	2.468	0	6.947	1	1870	40	1.7

LINE 320 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
48659.4	10000	41.3726	92.0326	-697	QK	2.5	0	8.1	1	1.1	0	0.305	-1	2.265	0	7.414	1	1848	37	1.7
48659.5	10000	41.3726	92.0318	-699	QK	2.1	-1	8.0	1	1.1	0	0.265	-1	1.907	-1	7.186	1	1831	47	1.7
48659.6	10000	41.3726	92.0309	-702	QK	2.1	-1	7.9	1	1.2	0	0.271	-1	1.852	-1	6.825	0	1822	41	1.7
48659.7	10000	41.3726	92.0301	-705	QK	2.5	0	7.8	1	1.2	1	0.318	0	2.102	0	6.600	0	1810	47	1.7
48659.8	10000	41.3726	92.0293	-708	QK	2.5	0	7.6	1	1.1	0	0.321	0	2.148	0	6.695	0	1793	35	1.7
48659.9	10000	41.3727	92.0284	-713	QK	2.4	0	7.6	1	1.1	0	0.313	-1	2.090	0	6.669	0	1785	47	1.7
48660.0	10000	41.3727	92.0276	-717	QK	2.3	0	7.3	0	1.1	0	0.313	-1	2.079	0	6.646	0	1748	42	1.7
48660.1	10000	41.3727	92.0267	-722	QK	2.6	0	7.3	0	1.1	0	0.356	0	2.404	0	6.754	0	1753	47	1.7
48660.2	10000	41.3727	92.0259	-727	QK	2.9	1	7.3	0	1.0	-1	0.393	1	2.765	1	7.033	1	1752	45	1.7
48660.3	10000	41.3727	92.0250	-733	QK	2.8	1	7.4	0	1.0	-1	0.373	0	2.768	1	7.415	1	1748	35	1.7
48660.4	10000	41.3727	92.0242	-738	QK	2.5	0	7.5	0	1.0	-1	0.331	0	2.574	1	7.774	2	1748	40	1.7
48660.5	10000	41.3727	92.0234	-745	QK	2.3	0	7.5	0	0.9	-2	0.308	-1	2.467	0	8.022	2	1747	44	1.7
48660.6	10000	41.3727	92.0225	-751	QK	2.5	0	7.3	0	0.9	-2	0.338	0	2.658	1	7.866	2	1746	41	1.7
48660.7	10000	41.3727	92.0217	-758	QK	2.7	0	7.3	0	0.9	-2	0.369	0	2.876	1	7.801	2	1783	38	1.7
48660.8	10000	41.3727	92.0208	-765	QK	2.8	1	7.1	0	0.9	-2	0.392	1	3.055	2	7.793	2	1768	37	1.7
48660.9	10000	41.3727	92.0200	-772	QK	2.8	1	6.9	0	0.9	-2	0.401	1	2.984	2	7.434	1	1762	40	1.6
48661.0	10000	41.3727	92.0191	-780	QK	2.8	0	6.6	-1	0.9	-2	0.420	1	3.042	2	7.240	1	1750	47	1.6
48661.1	10000	41.3727	92.0183	-787	QK	2.7	0	6.5	-1	0.9	-2	0.419	1	3.011	2	7.186	1	1740	41	1.6
48661.2	10000	41.3728	92.0175	-795	QK	2.8	1	6.5	-1	0.9	-1	0.433	1	2.970	1	6.866	1	1751	46	1.6
48661.3	10000	41.3728	92.0166	-803	QK	2.7	0	6.8	-1	1.0	-1	0.405	1	2.767	1	6.828	0	1773	44	1.6
48661.4	10000	41.3728	92.0158	-811	QK	2.6	0	7.0	0	1.0	-1	0.380	0	2.644	1	6.962	1	1783	44	1.6
48661.5	10000	41.3728	92.0150	-819	QK	2.7	0	7.5	0	1.1	0	0.363	0	2.567	1	7.064	1	1818	41	1.6
48661.6	10000	41.3728	92.0141	-827	QK	2.5	0	7.7	1	1.1	0	0.324	0	2.341	0	7.232	1	1837	43	1.6
48661.7	10000	41.3728	92.0133	-834	QK	2.3	0	8.3	1	1.1	0	0.277	-1	2.001	-1	7.234	1	1864	32	1.6
48661.8	10000	41.3728	92.0124	-842	QK	2.1	-1	8.5	2	1.2	1	0.254	-1	1.794	-1	7.065	1	1875	43	1.6
48661.9	10000	41.3728	92.0116	-849	QK	2.0	-1	8.4	2	1.2	1	0.242	-2	1.667	-1	6.897	1	1880	43	1.6
48662.0	10000	41.3728	92.0107	-856	QK	2.1	-1	8.0	1	1.1	0	0.269	-1	1.882	-1	6.993	1	1854	32	1.6
48662.1	10000	41.3728	92.0099	-864	QK	2.3	-1	7.6	1	1.1	0	0.295	-1	2.039	0	6.902	1	1823	58	1.6
48662.2	10000	41.3728	92.0091	-870	QK	1.9	-1	7.5	0	1.0	-1	0.254	-1	1.827	-1	7.202	1	1780	33	1.6
48662.3	10000	41.3728	92.0082	-877	QK	2.2	-1	7.1	0	1.0	-1	0.311	-1	2.164	0	6.959	1	1764	57	1.6
48662.4	10000	41.3729	92.0074	-883	QK	2.6	0	6.6	-1	0.9	-1	0.394	1	2.766	1	7.015	1	1738	33	1.6
48662.5	10000	41.3729	92.0065	-889	QK	2.7	0	6.5	-1	0.9	-2	0.409	1	2.960	1	7.232	1	1725	38	1.6
48662.6	10000	41.3729	92.0057	-894	QK	2.9	1	6.5	-1	0.9	-2	0.442	1	3.174	2	7.186	1	1737	44	1.6
48662.7	10000	41.3729	92.0049	-899	QK	2.8	1	6.8	-1	0.9	-1	0.408	1	2.933	1	7.194	1	1767	52	1.6
48662.8	10000	41.3729	92.0040	-904	QK	2.5	0	7.3	0	1.0	-1	0.339	0	2.466	0	7.269	1	1800	40	1.6
48662.9	10000	41.3729	92.0032	-909	QK	2.4	0	7.3	0	1.0	-1	0.330	0	2.331	0	7.057	1	1840	46	1.6
48663.0	10000	41.3729	92.0023	-913	QK	2.0	-1	7.9	1	1.1	0	0.249	-1	1.828	-1	7.330	1	1867	38	1.6
48663.1	10000	41.3729	92.0015	-916	QK	1.5	-2	8.2	1	1.1	0	0.180	-2	1.324	-2	7.348	1	1892	50	1.6

GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-
A 1	290	E 5	300	I 9	310	M 13	320								
B 1	290	F 5	300	J 9	310										
C 1	290	G 5	300	K 9	310	A 14	320								
D 1	290	H 5	300	L 9	310	B 14	320								
E 1	290	I 5	300	M 9	310	C 14	320								
F 1	290	J 5	300			D 14	320								
G 1	290	K 5	300	A 10	310	E 14	320								
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I 1	290	M 5	300	C 10	310	G 14	320								
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K 1	290	A 6	300	E 10	310	I 14	320								
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J 2	290			D 11	310										
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1LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45166.9	10000	41.2828	93.9981	-848	QKA	2.6	0	8.0	1	1.0	0	0.322	0	2.505	1	7.774	1	1806	41	1.3
45166.8	10000	41.2828	93.9972	-849	QKA	2.6	0	7.7	1	1.0	0	0.336	0	2.551	1	7.593	1	1812	49	1.3
45166.7	10000	41.2828	93.9964	-850	QKA	2.6	0	7.7	1	1.0	0	0.332	0	2.524	1	7.606	1	1814	56	1.3
45166.6	10000	41.2828	93.9955	-851	QKA	2.5	0	7.8	1	1.1	0	0.325	0	2.403	0	7.402	1	1825	42	1.3
45166.5	10000	41.2828	93.9946	-853	QKA	2.3	0	7.7	1	1.1	0	0.299	-1	2.029	0	6.798	0	1850	43	1.3
45166.4	10000	41.2828	93.9938	-855	QKA	2.5	0	7.6	1	1.1	1	0.331	0	2.193	0	6.617	0	1879	32	1.3
45166.3	10000	41.2828	93.9929	-856	QKA	2.7	0	7.5	0	1.2	1	0.365	0	2.272	0	6.224	-1	1922	45	1.3
45166.2	10000	41.2828	93.9921	-858	QKA	2.6	0	7.4	0	1.3	1	0.353	0	2.044	0	5.795	-1	1957	49	1.3
45166.1	10000	41.2828	93.9912	-860	QKA	2.7	1	8.0	1	1.3	2	0.338	0	2.021	0	5.976	-1	1978	59	1.3
45166.0	10000	41.2829	93.9904	-862	QKA	2.8	1	7.9	1	1.3	2	0.352	0	2.067	0	5.879	-1	1999	47	1.3
45165.9	10000	41.2829	93.9895	-864	QKA	2.9	1	8.2	1	1.3	2	0.354	0	2.181	0	6.154	-1	2018	48	1.3
45165.8	10000	41.2829	93.9886	-867	QKA	3.1	1	8.5	2	1.3	1	0.360	0	2.414	0	6.713	0	2027	38	1.3
45165.7	10000	41.2829	93.9878	-868	QKA	2.9	1	8.4	2	1.2	1	0.342	0	2.333	0	6.822	0	2023	44	1.3
45165.6	10000	41.2829	93.9869	-871	QKA	2.6	1	8.7	2	1.2	1	0.303	0	2.169	0	7.148	1	2009	46	1.3
45165.5	10000	41.2829	93.9861	-873	QKA	2.7	1	8.8	2	1.2	1	0.307	0	2.299	0	7.488	1	1987	42	1.3
45165.4	10000	41.2829	93.9852	-875	QKA	2.6	0	8.7	2	1.1	1	0.296	-1	2.234	0	7.546	1	1978	45	1.3
45165.3	10000	41.2829	93.9844	-877	QKA	2.6	0	8.5	2	1.2	1	0.301	-1	2.146	0	7.135	1	1967	45	1.3
45165.2	10000	41.2829	93.9835	-879	QKA	2.5	0	8.2	1	1.2	1	0.301	-1	2.023	0	6.732	0	1957	53	1.3
45165.1	10000	41.2829	93.9826	-880	QKA	2.4	0	8.0	1	1.3	1	0.302	-1	1.931	-1	6.394	0	1948	54	1.2
45165.0	10000	41.2829	93.9818	-882	QKA	2.6	0	7.8	1	1.3	1	0.334	0	2.038	0	6.103	-1	1940	47	1.2
45164.9	10000	41.2829	93.9809	-884	QKA	2.6	0	7.6	1	1.3	1	0.341	0	2.021	0	5.921	-1	1946	47	1.2
45164.8	10000	41.2829	93.9801	-886	QKA	2.7	1	7.7	1	1.3	2	0.350	0	2.091	0	5.967	-1	1946	66	1.2
45164.7	10000	41.2829	93.9792	-887	QKA	2.6	0	7.8	1	1.3	2	0.335	0	1.980	-1	5.917	-1	1954	43	1.2
45164.6	10000	41.2829	93.9783	-889	QKA	2.5	0	8.5	2	1.3	2	0.289	-1	1.892	-1	6.549	0	1959	37	1.2
45164.5	10000	41.2829	93.9775	-891	QKA	2.5	0	8.5	2	1.3	2	0.292	-1	1.892	-1	6.484	0	1967	56	1.2
45164.4	10000	41.2830	93.9766	-892	QKA	2.5	0	8.1	1	1.3	2	0.307	0	1.854	-1	6.041	-1	1976	49	1.2
45164.3	10000	41.2830	93.9758	-894	QKA	2.3	0	8.4	2	1.4	2	0.270	-1	1.663	-1	6.156	-1	1987	42	1.2
45164.2	10000	41.2830	93.9749	-896	QKA	2.2	0	8.6	2	1.4	2	0.260	-1	1.614	-1	6.212	-1	1992	44	1.2
45164.1	10000	41.2830	93.9741	-898	QKA	2.2	-1	8.5	2	1.4	2	0.254	-1	1.583	-1	6.239	-1	2004	34	1.2
45164.0	10000	41.2830	93.9732	-900	QKA	2.3	0	8.4	2	1.4	2	0.270	-1	1.734	-1	6.419	0	1998	39	1.2
45163.9	10000	41.2830	93.9724	-902	QKA	2.5	0	8.0	1	1.3	2	0.308	0	1.900	-1	6.164	-1	2002	42	1.2
45163.8	10000	41.2830	93.9715	-904	QKA	2.4	0	7.7	1	1.3	2	0.312	0	1.899	-1	6.090	-1	1999	48	1.2
45163.7	10000	41.2830	93.9706	-906	QKA	2.4	0	8.4	2	1.3	2	0.289	-1	1.932	-1	6.687	0	1995	43	1.2
45163.6	10000	41.2830	93.9698	-908	QKA	2.6	1	8.3	2	1.3	1	0.317	0	2.105	0	6.640	0	2013	43	1.2
45163.5	10000	41.2830	93.9689	-910	QKA	2.7	1	8.5	2	1.2	1	0.316	0	2.154	0	6.828	0	1998	41	1.2
45163.4	10000	41.2830	93.9681	-912	QKA	2.6	0	8.3	2	1.3	1	0.306	0	2.021	0	6.598	0	1973	44	1.2
45163.3	10000	41.2830	93.9672	-915	QKA	2.6	0	8.0	1	1.3	2	0.328	0	2.029	0	6.193	-1	1969	44	1.2
45163.2	10000	41.2830	93.9664	-917	QKA	2.5	0	8.0	1	1.3	2	0.319	-1	1.931	-1	6.046	-1	1961	42	1.2
45163.1	10000	41.2831	93.9655	-919	QKA	2.5	0	8.3	1	1.3	2	0.303	-1	1.963	-1	6.475	0	1937	47	1.2
45163.0	10000	41.2831	93.9646	-922	QKA	2.4	0	8.0	1	1.2	2	0.303	-1	1.934	-1	6.378	0	1922	44	1.2
45162.9	10000	41.2831	93.9638	-925	QKA	2.4	0	7.8	1	1.2	2	0.310	-1	1.998	-1	6.444	0	1891	45	1.2
45162.8	10000	41.2831	93.9629	-927	QKA	2.5	0	7.3	0	1.2	1	0.346	0	2.144	0	6.192	-1	1905	46	1.2
45162.7	10000	41.2831	93.9621	-930	QKA	2.5	0	7.5	1	1.2	1	0.337	0	2.143	0	6.367	0	1920	47	1.2
45162.6	10000	41.2831	93.9612	-933	QKA	2.7	1	7.7	1	1.2	1	0.344	0	2.294	0	6.667	0	1922	43	1.2
45162.5	10000	41.2831	93.9603	-935	QKA	2.7	1	7.6	1	1.1	1	0.350	0	2.420	0	6.917	0	1918	49	1.2
45162.4	10000	41.2831	93.9595	-938	QKA	2.8	1	7.4	0	1.1	1	0.373	0	2.432	0	6.525	0	1934	54	1.2
45162.3	10000	41.2831	93.9586	-941	QKA	2.8	1	7.7	1	1.1	1	0.356	0	2.408	0	6.766	0	1935	43	1.2
45162.2	10000	41.2831	93.9578	-944	QKA	2.6	1	7.9	1	1.1	1	0.327	0	2.257	0	6.912	0	1942	55	1.2
45162.1	10000	41.2831	93.9569	-947	QKA	2.5	1	8.1	1	1.1	1	0.303	0	2.154	0	7.100	1	1917	45	1.2
45162.0	10000	41.2831	93.9561	-949	QKA	2.7	1	8.1	1	1.1	1	0.333	0	2.415	0	7.249	1	1907	47	1.2
45161.9	10000	41.2831	93.9552	-952	QKA	2.7	1	7.9	1	1.1	1	0.345	0	2.499	0	7.245	1	1908	48	1.2
45161.8	10000	41.2831	93.9543	-955	QKA	3.0	1	8.2	1	1.1	0	0.362	0	2.612	1	7.206	1	1916	45	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45161.7	10000	41.2831	93.9535	-957	QKA	2.8	1	8.1	1	1.1	0	0.344	0	2.522	1	7.337	1	1917	41	1.2
45161.6	10000	41.2831	93.9526	-959	QKA	2.9	1	7.8	1	1.1	0	0.371	0	2.582	1	6.952	0	1927	37	1.2
45161.5	10000	41.2831	93.9518	-960	QKA	3.0	1	7.9	1	1.1	0	0.374	1	2.598	1	6.946	0	1917	26	1.2
45161.4	10000	41.2831	93.9509	-961	QKA	2.8	1	7.8	1	1.1	0	0.363	0	2.504	1	6.899	0	1918	40	1.2
45161.3	10000	41.2832	93.9501	-963	QKA	2.8	1	7.8	1	1.1	1	0.359	0	2.425	0	6.747	0	1922	50	1.2
45161.2	10000	41.2832	93.9492	-968	QKA	2.5	0	7.7	1	1.2	1	0.326	0	2.089	0	6.413	0	1927	54	1.2
45161.1	10000	41.2832	93.9483	-971	QKA	2.4	0	7.5	1	1.2	1	0.315	0	1.983	-1	6.298	0	1933	45	1.2
45161.0	10000	41.2832	93.9475	-973	QKA	2.6	0	7.9	1	1.2	1	0.326	0	2.167	0	6.636	0	1929	28	1.2
45160.9	10000	41.2832	93.9466	-975	QKA	2.5	0	7.9	1	1.2	1	0.319	0	2.141	0	6.702	0	1911	33	1.2
45160.8	10000	41.2832	93.9458	-977	QKA	2.5	0	7.8	1	1.2	1	0.320	0	2.077	0	6.482	0	1909	49	1.2
45160.7	10000	41.2832	93.9449	-978	QKA	2.6	0	7.8	1	1.2	1	0.331	0	2.101	0	6.355	0	1912	38	1.2
45160.6	10000	41.2832	93.9441	-980	QKA	2.6	0	7.8	1	1.3	1	0.331	0	2.048	0	6.179	-1	1910	35	1.2
45160.5	10000	41.2832	93.9432	-981	QKA	2.7	1	8.0	1	1.3	1	0.330	0	2.106	0	6.386	0	1901	51	1.2
45160.4	10000	41.2832	93.9424	-982	QKA	2.5	0	8.0	1	1.3	1	0.308	0	1.924	-1	6.242	-1	1908	39	1.2
45160.3	10000	41.2832	93.9415	-984	QKA	2.3	0	7.9	1	1.3	2	0.288	-1	1.714	-1	5.949	-1	1911	43	1.2
45160.2	10000	41.2832	93.9406	-985	QKA	2.4	0	7.7	1	1.3	2	0.312	0	1.814	-1	5.812	-1	1933	37	1.2
45160.1	10000	41.2832	93.9398	-987	QKA	2.6	0	7.8	1	1.4	2	0.331	0	1.888	-1	5.706	-1	1957	46	1.2
45160.0	10000	41.2832	93.9389	-988	QKA	2.5	0	7.8	1	1.4	2	0.327	0	1.849	-1	5.659	-1	1969	49	1.2
45159.9	10000	41.2832	93.9381	-989	QKA	2.6	0	7.7	1	1.4	2	0.337	0	1.886	-1	5.598	-1	1987	44	1.2
45159.8	10000	41.2833	93.9372	-991	QKA	2.6	0	7.5	0	1.4	2	0.343	0	1.858	-1	5.413	-2	2000	45	1.2
45159.7	10000	41.2833	93.9363	-992	QKA	2.5	0	7.4	0	1.4	2	0.345	0	1.871	-1	5.419	-2	1980	41	1.2
45159.6	10000	41.2833	93.9355	-993	QKA	2.5	0	7.1	0	1.3	2	0.357	0	1.925	-1	5.399	-2	1971	40	1.2
45159.5	10000	41.2833	93.9346	-995	QKA	2.5	0	7.2	0	1.3	2	0.340	0	1.839	-1	5.407	-2	1960	38	1.2
45159.4	10000	41.2833	93.9338	-996	QKA	2.4	0	6.9	0	1.3	2	0.344	0	1.855	-1	5.392	-2	1954	45	1.2
45159.3	10000	41.2833	93.9329	-997	QKA	2.6	0	7.0	0	1.3	1	0.368	0	2.035	0	5.530	-1	1943	45	1.2
45159.2	10000	41.2833	93.9321	-998	QKA	2.5	0	7.0	0	1.2	1	0.362	0	2.061	0	5.688	-1	1924	50	1.2
45159.1	10000	41.2833	93.9312	-999	QKA	2.7	1	7.0	0	1.2	1	0.379	1	2.217	0	5.846	-1	1893	46	1.3
45159.0	10000	41.2833	93.9303	-1000	QKA	2.8	1	6.9	0	1.2	1	0.403	1	2.382	0	5.908	-1	1879	44	1.3
45158.9	10000	41.2833	93.9295	-1002	QKA	3.0	1	6.9	0	1.2	1	0.438	1	2.599	1	5.933	-1	1864	40	1.3
45158.8	10000	41.2833	93.9286	-1003	QKA	3.1	2	6.7	-1	1.1	2	0.469	2	2.779	1	5.930	-1	1871	42	1.3
45158.7	10000	41.2833	93.9278	-1004	QKA	3.1	1	6.7	-1	1.1	2	0.463	2	2.800	1	6.045	-1	1864	43	1.3
45158.6	10000	41.2833	93.9269	-1005	QKA	3.0	1	6.5	-1	1.1	2	0.466	2	2.759	1	5.917	-1	1862	43	1.3
45158.5	10000	41.2833	93.9261	-1007	QKA	3.0	1	6.4	-1	1.0	2	0.464	2	2.826	1	6.093	-1	1858	44	1.3
45158.4	10000	41.2833	93.9252	-1008	QKA	2.7	1	6.8	-1	1.0	1	0.406	1	2.776	1	6.836	0	1875	48	1.3
45158.3	10000	41.2833	93.9243	-1010	QKA	2.8	1	6.8	0	1.1	1	0.414	1	2.655	1	6.412	0	1893	41	1.3
45158.2	10000	41.2833	93.9235	-1011	QKA	2.7	1	6.8	0	1.1	1	0.397	1	2.447	1	6.162	-1	1916	55	1.3
45158.1	10000	41.2834	93.9226	-1012	QKA	2.5	1	7.2	0	1.1	1	0.343	0	2.232	1	6.512	0	1900	58	1.4
45158.0	10000	41.2834	93.9218	-1014	QKA	2.6	1	7.4	0	1.1	1	0.357	0	2.418	1	6.775	0	1901	43	1.4
45157.9	10000	41.2834	93.9209	-1014	QKA	2.6	1	7.8	1	1.1	1	0.327	0	2.315	1	7.069	0	1903	45	1.4
45157.8	10000	41.2834	93.9201	-1016	QKA	2.5	0	8.0	1	1.2	1	0.310	0	2.159	1	6.963	0	1910	46	1.4
45157.7	10000	41.2834	93.9192	-1017	QKA	2.8	1	7.5	1	1.3	1	0.371	0	2.193	1	5.911	-1	1927	43	1.4
45157.6	10000	41.2834	93.9183	-1018	QKA	2.9	1	7.4	1	1.3	1	0.390	0	2.388	1	6.122	-1	1937	31	1.4
45157.5	10000	41.2834	93.9175	-1019	QKA	3.0	1	7.5	1	1.3	1	0.403	0	2.529	1	6.275	-1	1945	52	1.4
45157.4	10000	41.2834	93.9166	-1021	QKA	3.1	1	7.4	0	1.3	1	0.414	1	2.595	1	6.261	-1	1948	33	1.4
45157.3	10000	41.2834	93.9158	-1022	QKA	2.8	1	6.9	0	1.2	1	0.412	1	2.328	1	5.650	-1	1931	52	1.4
45157.2	10000	41.2834	93.9149	-1023	QKA	2.2	1	6.2	-1	1.2	1	0.528	1	2.818	2	5.339	-2	1920	38	1.4
45157.1	10000	41.2834	93.9140	-1024	QKA	2.4	2	6.1	-1	1.1	1	0.556	2	3.084	2	5.550	-1	1889	37	1.4
45157.0	10000	41.2834	93.9132	-1026	QKA	2.1	2	6.2	-1	1.1	1	0.507	1	2.937	1	5.788	-1	1849	40	1.4
45156.9	10000	41.2834	93.9123	-1027	QKA	1.8	1	6.2	-1	1.0	1	0.457	1	2.724	1	5.962	-1	1808	36	1.4
45156.8	10000	41.2834	93.9115	-1028	QKA	1.6	0	6.0	-2	1.0	1	0.441	1	2.529	1	5.739	-1	1766	44	1.4
45156.7	10000	41.2834	93.9106	-1030	QKA	1.7	1	5.8	-2	1.0	1	0.473	2	2.620	1	5.543	-1	1754	53	1.4
45156.6	10000	41.2835	93.9098	-1031	QKA	1.7	1	6.2	-1	1.0	0	0.438	1	2.637	1	6.021	-1	1738	47	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45156.5	10000	41.2835	93.9089	-1032	QKA	2.3	0	6.4	-1	1.1	0	0.365	0	2.149	0	5.891	-1	1734	52	1.5
45156.4	10000	41.2835	93.9081	-1032	QKA	2.4	0	6.2	-1	1.1	0	0.392	1	2.262	0	5.763	-1	1735	52	1.5
45156.3	10000	41.2835	93.9072	-1034	QKA	2.8	1	6.0	-1	1.0	0	0.458	2	2.724	1	5.954	-1	1726	51	1.5
45156.2	10000	41.2835	93.9063	-1036	QKA	2.8	1	6.1	-1	1.0	-1	0.458	2	2.790	1	6.097	-1	1746	41	1.5
45156.1	10000	41.2835	93.9055	-1036	QKA	3.0	1	6.4	-1	1.0	-1	0.471	2	2.976	1	6.319	0	1790	37	1.5
45156.0	10000	41.2835	93.9046	-1033	QKA	3.1	1	6.5	-1	1.0	-1	0.475	2	3.086	2	6.501	0	1825	49	1.5
45155.9	10000	41.2835	93.9038	-1036	QKA	3.4	2	6.4	-1	1.0	-1	0.523	3	3.396	2	6.488	0	1862	43	1.5
45155.8	10000	41.2835	93.9029	-1039	QKA	3.8	3	6.6	-1	1.0	-1	0.571	3	3.844	3	6.736	0	1898	41	1.5
45155.7	10000	41.2835	93.9021	-1041	QKA	3.8	3	7.0	0	1.0	0	0.533	3	3.677	3	6.894	0	1924	46	1.5
45155.6	10000	41.2835	93.9012	-1042	QKA	3.5	3	7.2	0	1.0	0	0.488	2	3.363	2	6.886	0	1956	42	1.5
45155.5	10000	41.2835	93.9003	-1042	QKA	3.7	3	7.4	0	1.1	0	0.494	2	3.461	2	7.007	0	1980	30	1.5
45155.4	10000	41.2835	93.8995	-1044	QKA	3.4	2	7.4	0	1.1	0	0.464	2	3.206	2	6.915	0	1967	44	1.5
45155.3	10000	41.2835	93.8986	-1045	QKA	3.3	2	7.3	0	1.1	0	0.450	2	3.121	2	6.942	0	1929	55	1.5
45155.2	10000	41.2835	93.8978	-1046	QKA	3.1	2	7.1	0	1.1	0	0.443	2	2.906	1	6.564	0	1903	36	1.6
45155.1	10000	41.2835	93.8969	-1046	QKA	3.0	1	6.7	-1	1.0	-1	0.442	2	2.960	1	6.692	0	1848	42	1.6
45155.0	10000	41.2835	93.8960	-1047	QKA	2.6	0	6.3	-1	1.0	-1	0.421	1	2.700	1	6.406	0	1805	49	1.6
45154.9	10000	41.2835	93.8952	-1048	QKA	2.4	0	6.1	-1	1.0	-1	0.386	1	2.416	0	6.250	-1	1779	48	1.6
45154.8	10000	41.2836	93.8943	-1049	QKA	2.4	0	5.9	-2	1.0	-1	0.405	1	2.414	0	5.959	-1	1755	41	1.6
45154.7	10000	41.2836	93.8935	-1050	QKA	2.6	0	5.8	-2	1.0	-1	0.449	2	2.733	1	6.086	-1	1738	46	1.6
45154.6	10000	41.2836	93.8926	-1051	QKA	2.4	0	5.7	-2	1.0	-1	0.431	1	2.474	0	5.747	-1	1733	47	1.6
45154.5	10000	41.2836	93.8918	-1052	QKA	2.1	-1	5.9	-2	1.0	-1	0.362	0	2.229	0	6.157	-1	1713	46	1.6
45154.4	10000	41.2836	93.8909	-1053	QKA	2.0	-1	5.9	-2	0.9	-1	0.341	0	2.136	0	6.261	-1	1706	45	1.6
45154.3	10000	41.2836	93.8900	-1054	QKA	2.1	-1	6.0	-1	0.9	-1	0.351	0	2.240	0	6.379	0	1712	35	1.6
45154.2	10000	41.2836	93.8892	-1055	QKA	2.3	0	6.1	-1	0.9	-1	0.381	1	2.489	0	6.534	0	1726	40	1.6
45154.1	10000	41.2836	93.8883	-1056	QKA	2.3	0	6.2	-1	0.9	-1	0.367	0	2.520	1	6.864	0	1732	41	1.6
45154.0	10000	41.2836	93.8875	-1056	QKA	2.2	0	6.2	-1	0.9	-1	0.351	0	2.443	0	6.954	0	1742	41	1.6
45153.9	10000	41.2836	93.8866	-1057	QKA	2.2	0	6.3	-1	0.9	-1	0.348	0	2.436	0	7.006	0	1757	37	1.6
45153.8	10000	41.2836	93.8858	-1058	QKA	2.5	0	6.7	-1	0.9	-1	0.382	1	2.700	1	7.076	0	1802	57	1.6
45153.7	10000	41.2836	93.8849	-1058	QKA	2.6	0	6.9	0	1.0	-1	0.381	1	2.663	1	6.997	0	1855	40	1.6
45153.6	10000	41.2836	93.8840	-1059	QKA	2.8	1	7.0	0	1.0	0	0.402	1	2.752	1	6.846	0	1884	49	1.6
45153.5	10000	41.2836	93.8832	-1060	QKA	2.7	1	6.9	0	1.1	0	0.394	1	2.559	1	6.491	0	1910	44	1.6
45153.4	10000	41.2836	93.8823	-1062	QKA	2.8	1	7.0	0	1.1	0	0.401	1	2.500	0	6.227	-1	1928	49	1.6
45153.3	10000	41.2836	93.8815	-1063	QKA	2.8	1	7.1	0	1.2	1	0.390	1	2.353	0	6.026	-1	1952	48	1.6
45153.2	10000	41.2837	93.8806	-1064	QKA	3.0	1	7.5	0	1.2	1	0.397	1	2.459	0	6.194	-1	1980	45	1.6
45153.1	10000	41.2837	93.8798	-1065	QKA	2.6	0	7.1	0	1.2	1	0.372	1	2.162	0	5.806	-1	1968	49	1.6
45153.0	10000	41.2837	93.8789	-1066	QKA	2.5	0	7.5	0	1.2	1	0.332	0	1.997	-1	6.024	-1	1932	53	1.6
45152.9	10000	41.2837	93.8781	-1067	QKA	2.4	0	7.1	0	1.2	1	0.338	0	2.037	0	6.028	-1	1897	50	1.6
45152.8	10000	41.2837	93.8772	-1068	QKA	2.3	0	7.4	0	1.2	1	0.309	0	1.966	-1	6.357	0	1859	35	1.6
45152.7	10000	41.2837	93.8763	-1070	QKA	2.1	-1	7.0	0	1.1	0	0.305	0	1.968	-1	6.458	0	1811	53	1.6
45152.6	10000	41.2837	93.8755	-1071	QKA	2.1	-1	6.8	0	1.1	0	0.303	0	1.969	-1	6.493	0	1749	46	1.6
45152.5	10000	41.2837	93.8746	-1072	QKA	2.0	-1	6.4	-1	1.0	-1	0.316	0	2.008	0	6.361	0	1697	41	1.6
45152.4	10000	41.2837	93.8738	-1073	QKA	2.1	-1	6.4	-1	1.0	-1	0.327	0	2.124	0	6.497	0	1668	43	1.6
45152.3	10000	41.2837	93.8729	-1074	QKA	1.9	-1	5.9	-2	1.0	-1	0.328	0	1.972	-1	6.008	-1	1661	47	1.6
45152.2	10000	41.2837	93.8721	-1075	QKA	1.9	-1	6.5	-1	1.0	0	0.291	-1	1.834	-1	6.305	0	1678	55	1.6
45152.1	10000	41.2837	93.8712	-1076	QKA	1.8	-1	6.3	-1	1.0	-1	0.281	-1	1.695	-1	6.021	-1	1689	46	1.6
45152.0	10000	41.2837	93.8704	-1077	QKA	1.6	-2	6.6	-1	1.1	-1	0.251	-1	1.492	-2	5.944	-1	1736	44	1.6
45151.9	10000	41.2837	93.8695	-1078	QKA	1.7	-2	6.7	-1	1.2	1	0.247	-1	1.413	-2	5.723	-1	1791	34	1.6
45151.8	10000	41.2837	93.8686	-1079	QKA	1.6	-2	7.0	0	1.2	1	0.227	-2	1.305	-2	5.740	-1	1827	39	1.6
45151.7	10000	41.2837	93.8678	-1081	QKA	1.5	-2	7.3	0	1.2	1	0.207	-2	1.236	-2	5.959	-1	1859	43	1.6
45151.6	10000	41.2837	93.8669	-1082	QKA	1.8	-1	7.5	1	1.2	1	0.242	-1	1.465	-2	6.063	-1	1888	40	1.6
45151.5	10000	41.2837	93.8661	-1083	QKA	1.8	-1	7.1	0	1.2	1	0.259	-1	1.492	-2	5.768	-1	1897	45	1.6
45151.4	10000	41.2837	93.8652	-1084	QKA	2.1	-1	7.2	0	1.2	1	0.289	-1	1.706	-1	5.914	-1	1905	45	1.6

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45151.3	10000	41.2838	93.8644	-1084	QKA	2.4	0	7.5	0	1.3	1	0.317	0	1.886	-1	5.953	-1	1896	42	1.6
45151.2	10000	41.2838	93.8635	-1082	QKA	2.5	0	7.5	1	1.2	1	0.333	0	2.041	0	6.139	-1	1907	47	1.6
45151.1	10000	41.2838	93.8627	-1082	QKA	2.6	0	7.3	0	1.3	1	0.356	0	2.053	0	5.760	-1	1918	46	1.6
45151.0	10000	41.2838	93.8618	-1085	QKA	2.8	1	7.4	0	1.3	1	0.384	1	2.244	0	5.838	-1	1937	47	1.6
45150.9	10000	41.2838	93.8609	-1087	QKA	2.7	1	7.3	0	1.3	2	0.371	0	2.071	0	5.582	-1	1949	39	1.6
45150.8	10000	41.2838	93.8601	-1088	QKA	2.9	1	7.7	1	1.3	1	0.378	1	2.289	0	6.052	-1	1960	36	1.6
45150.7	10000	41.2838	93.8592	-1089	QKA	3.0	1	8.0	1	1.3	1	0.375	1	2.348	0	6.261	-1	1982	52	1.6
45150.6	10000	41.2838	93.8584	-1090	QKA	2.8	1	7.8	1	1.3	1	0.364	0	2.211	0	6.079	-1	1993	59	1.6
45150.5	10000	41.2838	93.8575	-1091	QKA	2.9	1	7.8	1	1.3	2	0.369	0	2.228	0	6.034	-1	1998	33	1.5
45150.4	10000	41.2838	93.8567	-1092	QKA	3.0	1	8.2	1	1.3	1	0.374	1	2.407	0	6.444	0	2024	47	1.5
45150.3	10000	41.2838	93.8558	-1093	QKA	3.0	1	8.1	1	1.3	1	0.369	0	2.356	0	6.380	0	2035	52	1.5
45150.2	10000	41.2838	93.8549	-1094	QKA	3.3	2	8.4	2	1.3	1	0.389	1	2.609	1	6.707	0	2034	34	1.5
45150.1	10000	41.2838	93.8541	-1095	QKA	3.0	1	8.3	2	1.3	2	0.360	0	2.232	0	6.204	-1	2055	34	1.5
45150.0	10000	41.2838	93.8532	-1096	QKA	2.9	1	8.4	2	1.3	2	0.346	0	2.145	0	6.193	-1	2057	39	1.5
45149.9	10000	41.2838	93.8524	-1095	QKA	3.1	1	8.3	2	1.3	2	0.369	0	2.279	0	6.178	-1	2066	45	1.5
45149.8	10000	41.2838	93.8515	-1096	QKA	3.0	1	8.1	1	1.3	2	0.372	1	2.279	0	6.120	-1	2069	45	1.5
45149.7	10000	41.2839	93.8507	-1098	QKA	2.9	1	8.1	1	1.3	2	0.352	0	2.196	0	6.231	-1	2067	60	1.5
45149.6	10000	41.2839	93.8498	-1099	QKA	3.1	1	7.7	1	1.3	2	0.399	1	2.328	0	5.8[illegible]	-1	2057	45	1.5
45149.5	10000	41.2839	93.8490	-1099	QKA	2.8	1	7.4	0	1.3	2	0.377	1	2.169	0	5.75[illegible]	-1	2042	39	1.5
45149.4	10000	41.2839	93.8481	-1100	QKA	3.1	2	7.5	2	1.3	1	0.420	1	2.467	0	5.8[illegible]	-1	2026	52	1.5
45149.3	10000	41.2839	93.8472	-1101	QKA	3.4	2	7.2	2	1.3	1	0.478	2	2.733	1	5.[illegible]	-1	2027	40	1.5
45149.2	10000	41.2839	93.8464	-1101	QKA	3.4	2	7.1	2	1.3	1	0.476	2	2.684	1	[illegible]	[illegible]	2033	41	1.4
45149.1	10000	41.2839	93.8455	-1102	QKA	3.3	2	7.3	2	1.3	2	0.454	2	2.524	1	[illegible]	[illegible]	2045	41	1.4
45149.0	10000	41.2839	93.8447	-1103	QKA	3.7	3	7.3	2	1.3	2	0.502	2	2.786	1	[illegible]	[illegible]	2032	47	1.4
45148.9	10000	41.2839	93.8438	-1103	QKA	3.3	2	7.2	2	1.3	2	0.462	2	2.575	1	[illegible]71	[illegible]	2026	47	1.4
45148.8	10000	41.2839	93.8430	-1104	QKA	3.4	3	7.3	2	1.3	2	0.461	2	2.609	1	[illegible]63	-1	2031	40	1.4
45148.7	10000	41.2839	93.8421	-1105	QKA	3.3	2	7.2	2	1.3	2	0.458	2	2.578	1	[illegible]28	-1	2014	47	1.4
45148.6	10000	41.2839	93.8412	-1106	QKA	2.9	1	7.1	2	1.2	2	0.412	2	2.353	1	[illegible]10	-1	1962	43	1.4
45148.5	10000	41.2839	93.8404	-1107	QKA	3.0	1	7.2	1	1.2	2	0.413	2	2.558	1	[illegible]89	-1	1918	44	1.4
45148.4	10000	41.2839	93.8395	-1107	QKA	2.8	1	6.9	1	1.1	2	0.451	2	2.851	1	[illegible]21	0	1879	50	1.4
45148.3	10000	41.2839	93.8387	-1109	QKA	2.9	1	7.1	1	1.0	1	0.397	1	2.746	1	[illegible]23	0	1866	41	1.4
45148.2	10000	41.2839	93.8378	-1109	QKA	3.1	1	7.4	1	1.0	1	0.396	1	2.889	1	[illegible]00	1	1869	46	1.4
45148.1	10000	41.2839	93.8370	-1109	QKA	3.1	1	7.7	1	1.0	1	0.405	1	2.989	1	[illegible]74	1	1894	42	1.4
45148.0	10000	41.2840	93.8361	-1109	QKA	3.1	1	7.8	1	1.0	1	0.395	1	3.100	1	[illegible]58	1	1918	41	1.4
45147.9	10000	41.2839	93.8353	-1109	QKA	3.2	1	7.9	1	1.0	1	0.401	1	3.028	1	[illegible]43	1	1964	51	1.3
45147.8	10000	41.2840	93.8344	-1110	QKA	3.2	2	7.9	1	1.1	1	0.402	1	2.917	1	[illegible]56	1	1994	38	1.3
45147.7	10000	41.2840	93.8335	-1112	QKA	3.0	2	8.3	1	1.1	1	0.367	0	2.759	1	[illegible]18	1	2011	48	1.3
45147.6	10000	41.2840	93.8327	-1113	QKA	3.0	2	8.4	1	1.1	1	0.361	0	2.647	1	[illegible]25	1	2013	43	1.3
45147.5	10000	41.2840	93.8318	-1113	QKA	3.0	2	8.4	1	1.2	1	0.361	0	2.602	1	[illegible]18	1	2010	43	1.3
45147.4	10000	41.2840	93.8310	-1114	QKA	3.0	2	8.2	1	1.2	1	0.333	0	2.322	1	6.979	0	1985	37	1.3
45147.3	10000	41.2840	93.8301	-1115	QKA	3.0	2	8.0	1	1.2	1	0.323	0	2.107	1	6.521	0	1969	45	1.3
45147.2	10000	41.2840	93.8293	-1116	QKA	3.0	2	7.9	1	1.2	1	0.317	0	2.122	1	6.697	0	1953	47	1.3
45147.1	10000	41.2840	93.8284	-1116	QKA	3.0	2	7.9	1	1.2	1	0.312	0	2.095	1	6.715	0	1922	51	1.3
45147.0	10000	41.2840	93.8276	-1118	QKA	3.0	2	7.9	1	1.2	1	0.325	0	2.183	1	6.708	0	1902	51	1.3
45146.9	10000	41.2840	93.8267	-1118	QKA	3.0	2	7.5	1	1.2	1	0.327	0	1.990	0	6.092	-1	1909	41	1.2
45146.8	10000	41.2840	93.8258	-1119	QKA	3.0	2	7.4	1	1.2	1	0.355	0	2.132	1	5.998	-1	1908	44	1.2
45146.7	10000	41.2840	93.8250	-1120	QKA	3.0	2	7.3	1	1.2	1	0.399	0	2.357	1	5.910	-1	1929	44	1.2
45146.6	10000	41.2840	93.8241	-1121	QKA	3.0	2	7.3	1	1.2	1	0.407	0	2.403	1	5.903	-1	1938	33	1.2
45146.5	10000	41.2840	93.8233	-1122	QKA	3.0	2	7.3	1	1.2	1	0.406	0	2.426	1	5.982	-1	1949	42	1.2
45146.4	10000	41.2840	93.8224	-1123	QKA	3.0	2	7.3	1	1.2	1	0.389	0	2.421	1	6.226	-1	1962	37	1.2
45146.3	10000	41.2840	93.8216	-1124	QKA	3.0	2	7.3	1	1.2	1	0.373	0	2.431	1	6.525	0	1969	54	1.2
45146.2	10000	41.2840	93.8207	-1126	QKA	3.1	1	8.0	1	1.2	1	0.389	1	2.587	1	6.659	0	1943	35	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45146.1	10000	41.2840	93.8199	-1127	QKA	2.8	1	7.8	1	1.2	1	0.355	0	2.340	0	6.586	0	1931	40	1.2
45146.0	10000	41.2840	93.8190	-1127	QKA	2.8	1	8.1	1	1.2	1	0.350	0	2.454	0	7.008	0	1922	45	1.2
45145.9	10000	41.2841	93.8181	-1128	QKA	2.8	1	8.2	1	1.2	1	0.342	0	2.370	0	6.930	0	1915	54	1.2
45145.8	10000	41.2841	93.8173	-1127	QKA	2.8	1	7.7	1	1.2	1	0.370	0	2.358	0	6.379	0	1912	49	1.1
45145.7	10000	41.2841	93.8164	-1127	QKA	2.8	1	7.2	1	1.3	1	0.386	1	2.233	0	5.779	-1	1930	47	1.1
45145.6	10000	41.2841	93.8156	-1129	QKA	2.7	1	7.0	0	1.3	2	0.387	1	2.038	0	5.266	-2	1950	48	1.1
45145.5	10000	41.2841	93.8147	-1133	QKA	2.8	1	7.0	0	1.4	2	0.407	1	2.099	0	5.164	-2	1968	49	1.1
45145.4	10000	41.2841	93.8139	-1135	QKA	2.8	1	7.4	0	1.4	2	0.384	1	2.047	0	5.334	-2	1964	46	1.1
45145.3	10000	41.2841	93.8130	-1136	QKA	2.5	0	7.4	0	1.4	2	0.345	0	1.792	-1	5.201	-2	1949	37	1.1
45145.2	10000	41.2841	93.8121	-1138	QKA	2.4	0	7.7	1	1.4	2	0.308	0	1.744	-1	5.665	-1	1938	50	1.1
45145.1	10000	41.2841	93.8113	-1139	QKA	2.3	0	8.1	1	1.4	2	0.282	-1	1.685	-1	5.971	-1	1926	53	1.1
45145.0	10000	41.2841	93.8104	-1141	QKA	2.2	0	8.2	1	1.3	2	0.273	-1	1.728	-1	6.331	0	1898	56	1.1
45144.9	10000	41.2841	93.8096	-1142	QKA	2.3	0	7.9	1	1.3	1	0.288	-1	1.817	-1	6.311	0	1863	37	1.1
45144.8	10000	41.2841	93.8087	-1142	QKA	2.2	0	7.9	1	1.2	1	0.274	-1	1.753	-1	6.392	0	1837	42	1.1
45144.7	10000	41.2841	93.8079	-1142	QKA	2.1	-1	7.7	1	1.2	1	0.273	-1	1.772	-1	6.487	0	1821	54	1.0
45144.6	10000	41.2841	93.8070	-1142	QKA	2.0	-1	7.5	0	1.2	1	0.262	-1	1.692	-1	6.462	0	1788	43	1.0
45144.5	10000	41.2841	93.8062	-1143	QKA	2.1	-1	7.0	0	1.1	0	0.295	-1	1.808	-1	6.132	-1	1764	49	1.0
45144.4	10000	41.2841	93.8053	-1143	QKA	2.0	-1	6.9	0	1.1	0	0.291	-1	1.801	-1	6.194	-1	1732	51	1.0
45144.3	10000	41.2841	93.8044	-1143	QKA	2.1	-1	6.6	-1	1.1	0	0.314	0	1.909	-1	6.069	-1	1721	49	1.0
45144.2	10000	41.2841	93.8036	-1145	QKA	2.1	-1	6.9	0	1.0	0	0.299	-1	1.980	-1	6.610	0	1714	42	1.0
45144.1	10000	41.2841	93.8027	-1147	QKA	2.0	-1	7.2	0	1.0	-1	0.280	-1	2.032	0	7.248	1	1707	38	1.0
45144.0	10000	41.2841	93.8019	-1150	QKA	2.2	0	7.3	0	1.0	-1	0.306	0	2.274	0	7.421	1	1702	38	1.0
45143.9	10000	41.2842	93.8010	-1153	QKA	2.4	0	7.2	0	1.0	-1	0.329	0	2.457	0	7.477	1	1713	42	1.0
45143.8	10000	41.2842	93.8002	-1154	QKA	2.5	0	7.2	0	1.0	-1	0.345	0	2.581	1	7.492	1	1717	50	1.0
45143.7	10000	41.2842	93.7993	-1154	QKA	2.5	0	7.1	0	0.9	-1	0.356	0	2.712	1	7.617	1	1721	43	1.0
45143.6	10000	41.2842	93.7984	-1154	QKA	2.5	0	7.5	1	0.9	-1	0.335	0	2.742	1	8.194	2	1729	43	1.0
45143.5	10000	41.2842	93.7976	-1155	QKA	2.5	0	7.5	0	1.0	-1	0.338	0	2.588	1	7.655	1	1742	56	1.0
45143.4	10000	41.2842	93.7967	-1155	QKA	2.6	0	7.4	0	1.0	0	0.355	0	2.535	1	7.147	1	1774	46	0.9
45143.3	10000	41.2842	93.7959	-1156	QKA	2.6	0	7.3	0	1.1	0	0.361	0	2.441	1	6.770	0	1801	37	0.9
45143.2	10000	41.2842	93.7950	-1156	QKA	2.7	0	7.5	0	1.1	0	0.354	0	2.425	0	6.860	0	1817	45	0.9
45143.1	10000	41.2842	93.7942	-1157	QKA	2.5	0	7.6	1	1.1	0	0.331	0	2.252	0	6.801	0	1846	52	0.9
45143.0	10000	41.2842	93.7933	-1157	QKA	2.8	1	7.8	1	1.2	1	0.358	0	2.333	0	6.512	0	1880	40	0.9
45142.9	10000	41.2842	93.7925	-1157	QKA	2.7	1	7.2	1	1.3	1	0.372	0	2.127	0	5.724	-1	1902	49	0.9
45142.8	10000	41.2842	93.7916	-1157	QKA	2.7	1	7.4	1	1.2	1	0.362	0	2.177	0	6.011	-1	1910	47	0.9
45142.7	10000	41.2842	93.7907	-1158	QKA	2.6	0	7.2	1	1.2	1	0.363	0	2.094	0	5.775	-1	1907	34	0.9
45142.6	10000	41.2842	93.7899	-1158	QKA	2.5	0	7.5	1	1.2	1	0.328	0	2.035	0	6.196	-1	1895	52	0.9
45142.5	10000	41.2842	93.7890	-1159	QKA	2.5	0	7.6	1	1.2	1	0.332	0	2.107	0	6.349	0	1888	47	0.9
45142.4	10000	41.2842	93.7882	-1159	QKA	2.7	1	7.4	1	1.2	1	0.366	0	2.351	0	6.418	0	1859	45	0.9
45142.3	10000	41.2842	93.7873	-1160	QKA	2.7	1	7.4	1	1.1	0	0.358	0	2.344	0	6.549	0	1831	39	0.9
45142.2	10000	41.2842	93.7865	-1161	QKA	2.7	1	7.5	1	1.1	0	0.364	1	2.548	1	6.996	0	1807	63	0.9
45142.1	10000	41.2843	93.7856	-1161	QKA	2.8	1	7.5	1	1.1	0	0.378	1	2.586	1	6.831	0	1791	31	0.9
45142.0	10000	41.2843	93.7848	-1161	QKA	2.7	1	7.4	1	1.0	0	0.369	1	2.652	1	7.184	1	1762	41	0.9
45141.9	10000	41.2843	93.7839	-1161	QKA	2.8	1	7.1	1	1.0	0	0.391	1	2.683	1	6.857	0	1753	40	0.9
45141.8	10000	41.2843	93.7831	-1161	QKA	2.7	1	6.9	1	1.0	0	0.385	1	2.611	1	6.789	0	1750	43	0.9
45141.7	10000	41.2843	93.7822	-1161	QKA	2.5	0	7.3	1	1.0	0	0.347	0	2.473	1	7.125	1	1768	41	0.9
45141.6	10000	41.2843	93.7813	-1161	QKA	2.4	0	7.2	1	1.0	-1	0.327	0	2.416	1	7.384	1	1772	38	0.9
45141.5	10000	41.2843	93.7805	-1160	QKA	2.2	-1	7.5	1	1.0	-1	0.301	-1	2.254	1	7.478	1	1762	46	0.9
45141.4	10000	41.2843	93.7796	-1160	QKA	2.1	-1	7.1	0	1.0	-1	0.301	-1	2.253	1	7.477	1	1756	44	0.9
45141.3	10000	41.2843	93.7788	-1160	QKA	2.4	0	7.1	0	1.0	-1	0.341	0	2.480	1	7.269	1	1754	45	0.9
45141.2	10000	41.2843	93.7779	-1161	QKA	2.6	0	7.2	0	0.9	-1	0.358	0	2.748	1	7.671	1	1752	44	0.9
45141.1	10000	41.2843	93.7771	-1161	QKA	2.5	0	7.0	0	0.9	-1	0.350	0	2.589	1	7.395	1	1733	45	0.9
45141.0	10000	41.2843	93.7762	-1162	QKA	2.3	0	6.9	0	1.0	-1	0.330	0	2.310	0	7.002	0	1722	36	0.9

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45140.9	10000	41.2843	93.7753	-1162	QKA	2.2	0	6.9	0	1.0	-1	0.317	0	2.220	0	7.009	0	1721	31	0.9
45140.8	10000	41.2843	93.7745	-1161	QKA	2.2	0	7.0	0	1.0	-1	0.308	0	2.274	0	7.372	1	1719	44	0.9
45140.7	10000	41.2843	93.7736	-1162	QKA	2.3	0	7.4	0	1.0	-1	0.312	0	2.368	0	7.597	1	1715	56	0.9
45140.6	10000	41.2843	93.7728	-1161	QKA	2.2	0	7.8	1	1.0	-1	0.280	-1	2.260	0	8.061	2	1721	43	0.9
45140.5	10000	41.2843	93.7719	-1161	QKA	2.0	-1	7.7	1	1.1	0	0.262	-1	1.916	-1	7.314	1	1730	48	0.9
45140.4	10000	41.2843	93.7711	-1160	QKA	2.5	0	7.7	1	1.1	0	0.318	0	2.332	0	7.330	1	1768	53	0.9
45140.3	10000	41.2843	93.7702	-1160	QKA	2.5	0	8.0	1	1.1	0	0.310	0	2.332	0	7.520	1	1794	42	0.9
45140.2	10000	41.2843	93.7693	-1160	QKA	2.7	1	8.1	1	1.1	0	0.334	0	2.386	0	7.137	1	1813	46	0.9
45140.1	10000	41.2844	93.7685	-1159	QKA	2.7	1	7.9	1	1.2	1	0.343	0	2.324	0	6.784	0	1820	50	0.9
45140.0	10000	41.2844	93.7676	-1160	QKA	2.6	0	8.0	1	1.2	1	0.330	0	2.168	0	6.561	0	1848	37	0.9
45139.9	10000	41.2844	93.7668	-1160	QKA	2.6	0	7.7	1	1.2	1	0.336	0	2.102	0	6.247	-1	1855	53	0.9
45139.8	10000	41.2844	93.7659	-1160	QKA	2.6	1	7.4	0	1.2	1	0.358	0	2.259	0	6.317	0	1848	55	0.9
45139.7	10000	41.2844	93.7651	-1160	QKA	2.5	0	7.3	0	1.1	0	0.346	0	2.237	0	6.469	0	1819	53	0.9
45139.6	10000	41.2844	93.7642	-1159	QKA	3.0	1	6.6	-1	1.1	0	0.455	2	2.610	1	5.742	-1	1794	33	0.9
45139.5	10000	41.2844	93.7634	-1159	QKA	3.0	1	6.4	-1	1.1	0	0.471	2	2.804	1	5.951	-1	1764	51	0.9
45139.4	10000	41.2844	93.7625	-1159	QKA	3.1	1	6.4	-1	1.0	0	0.482	2	2.917	1	6.051	-1	1747	45	0.9
45139.3	10000	41.2844	93.7617	-1159	QKA	3.0	1	6.2	-1	1.0	-1	0.492	2	3.087	2	6.272	-1	1706	43	0.9
45139.2	10000	41.2844	93.7608	-1159	QKA	3.0	1	6.0	-2	1.0	-1	0.504	2	3.150	2	6.251	-1	1676	40	0.9
45139.1	10000	41.2845	93.7600	-1159	QKA	2.9	1	6.1	-1	1.0	-1	0.477	2	2.935	1	6.149	-1	1676	38	0.9
45139.0	10000	41.2845	93.7591	-1158	QKA	2.9	1	6.3	-1	1.0	0	0.458	2	2.737	1	5.973	-1	1674	45	0.9
45138.9	10000	41.2845	93.7583	-1158	QKA	2.5	0	6.7	-1	1.1	0	0.379	1	2.381	0	6.286	-1	1683	49	0.9
45138.8	10000	41.2845	93.7574	-1158	QKA	2.3	0	7.0	0	1.1	0	0.335	0	2.123	0	6.346	0	1692	42	0.9
45138.7	10000	41.2845	93.7566	-1157	QKA	2.3	0	6.8	0	1.1	0	0.333	0	2.066	0	6.211	-1	1690	53	0.9
45138.6	10000	41.2845	93.7557	-1157	QKA	2.4	0	6.3	-1	1.1	0	0.376	1	2.143	0	5.700	-1	1697	48	0.9
45138.5	10000	41.2845	93.7549	-1156	QKA	2.3	0	6.5	-1	1.1	0	0.360	0	2.187	0	6.072	-1	1695	42	0.9
45138.4	10000	41.2845	93.7540	-1156	QKA	2.5	0	6.7	-1	1.0	0	0.368	0	2.354	0	6.400	0	1696	42	0.9
45138.3	10000	41.2845	93.7532	-1156	QKA	2.4	0	6.6	-1	1.0	0	0.360	0	2.262	0	6.288	-1	1699	50	0.9
45138.2	10000	41.2846	93.7523	-1156	QKA	2.3	0	6.6	-1	1.0	0	0.355	0	2.342	0	6.604	0	1680	42	0.9
45138.1	10000	41.2846	93.7515	-1156	QKA	2.3	0	6.5	-1	1.0	0	0.358	0	2.427	0	6.781	0	1670	54	0.9
45138.0	10000	41.2846	93.7506	-1156	QKA	2.4	0	6.8	0	1.0	0	0.360	0	2.493	0	6.915	0	1676	26	0.9
45137.9	10000	41.2846	93.7498	-1156	QKA	2.3	0	7.1	0	1.0	0	0.329	0	2.407	0	7.309	1	1689	47	0.9
45137.8	10000	41.2846	93.7489	-1155	QKA	2.6	1	7.0	0	1.1	0	0.374	1	2.589	1	7.920	1	1713	46	0.9
45137.7	10000	41.2846	93.7481	-1155	QKA	2.7	1	6.9	0	1.1	0	0.389	1	2.532	1	7.512	1	1727	55	0.9
45137.6	10000	41.2846	93.7472	-1155	QKA	2.8	1	7.3	1	1.1	0	0.379	1	2.584	1	7.819	1	1761	32	0.9
45137.5	10000	41.2846	93.7464	-1154	QKA	2.8	1	7.7	1	1.1	0	0.365	1	2.615	1	7.162	1	1789	49	0.9
45137.4	10000	41.2846	93.7455	-1154	QKA	2.9	1	7.6	1	1.1	0	0.381	1	2.620	1	6.883	1	1827	44	0.9
45137.3	10000	41.2846	93.7447	-1154	QKA	3.0	1	7.7	1	1.2	1	0.385	1	2.544	1	6.604	0	1873	44	0.9
45137.2	10000	41.2847	93.7438	-1153	QKA	2.9	1	7.6	1	1.2	1	0.374	1	2.343	0	6.271	-1	1889	45	0.9
45137.1	10000	41.2847	93.7430	-1153	QKA	2.6	1	7.7	1	1.3	1	0.334	1	2.061	0	6.169	-1	1891	46	0.9
45137.0	10000	41.2847	93.7421	-1153	QKA	2.5	1	7.6	1	1.2	1	0.328	1	2.078	0	6.327	-1	1860	46	0.9
45136.9	10000	41.2847	93.7413	-1153	QKA	2.6	1	7.4	1	1.1	1	0.356	1	2.298	0	6.452	0	1830	43	0.9
45136.8	10000	41.2847	93.7404	-1153	QKA	2.7	1	7.0	1	1.2	1	0.385	1	2.282	0	5.928	-1	1822	48	0.9
45136.7	10000	41.2847	93.7396	-1153	QKA	2.7	1	6.9	1	1.2	1	0.398	1	2.320	0	5.828	-1	1814	35	0.9
45136.6	10000	41.2847	93.7387	-1153	QKA	2.7	1	7.0	1	1.1	1	0.393	1	2.417	0	6.155	-1	1807	42	0.9
45136.5	10000	41.2847	93.7379	-1153	QKA	2.7	1	7.6	1	1.1	1	0.362	1	2.483	0	6.855	0	1810	44	0.9
45136.4	10000	41.2847	93.7370	-1152	QKA	2.9	1	7.8	1	1.1	1	0.374	1	2.700	0	7.222	1	1818	50	0.9
45136.3	10000	41.2847	93.7362	-1153	QKA	2.8	1	8.1	1	1.1	1	0.350	0	2.654	0	7.579	1	1847	42	0.9
45136.2	10000	41.2847	93.7353	-1152	QKA	2.7	1	8.1	1	1.1	1	0.335	0	2.368	0	7.064	1	1873	45	0.9
45136.1	10000	41.2848	93.7345	-1152	QKA	2.5	1	8.4	1	1.2	1	0.298	-1	2.188	0	7.345	1	1888	37	0.9
45136.0	10000	41.2848	93.7336	-1152	QKA	2.4	1	8.6	1	1.2	1	0.274	-1	2.037	0	7.435	1	1898	50	1.0
45135.9	10000	41.2848	93.7328	-1151	QKA	2.3	1	8.5	1	1.2	1	0.272	-1	1.945	-1	7.145	1	1882	46	1.0
45135.8	10000	41.2848	93.7319	-1151	QKA	2.4	0	8.0	1	1.1	1	0.295	-1	2.056	0	6.966	0	1854	38	1.0

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45135.7	10000	41.2848	93.7311	-1150	QKA	2.2	0	8.0	1	1.1	0	0.278	-1	1.997	-1	7.193	1	1817	39	1.0
45135.6	10000	41.2848	93.7302	-1150	QKA	2.3	0	7.7	1	1.1	0	0.302	-1	2.105	0	6.981	0	1780	45	1.0
45135.5	10000	41.2848	93.7294	-1149	QKA	2.3	0	7.6	1	1.1	0	0.308	0	2.204	0	7.165	1	1752	53	1.0
45135.4	10000	41.2848	93.7285	-1150	QKA	2.6	0	7.3	0	1.0	0	0.354	0	2.465	0	6.969	0	1724	46	1.0
45135.3	10000	41.2849	93.7277	-1150	QKA	2.6	0	7.0	0	1.0	-1	0.369	0	2.657	1	7.191	1	1694	43	1.0
45135.2	10000	41.2849	93.7268	-1150	QKA	2.6	0	6.7	-1	0.9	-1	0.385	1	2.820	1	7.332	1	1684	46	1.0
45135.1	10000	41.2849	93.7260	-1149	QKA	2.7	1	6.6	-1	1.0	-1	0.406	1	2.796	1	6.880	0	1692	37	1.0
45135.0	10000	41.2849	93.7251	-1148	QKA	2.8	1	6.5	-1	1.0	-1	0.433	1	2.816	1	6.500	0	1714	56	1.0
45134.9	10000	41.2849	93.7243	-1147	QKA	2.8	1	7.0	0	1.0	0	0.396	1	2.670	1	6.734	0	1754	46	1.0
45134.8	10000	41.2849	93.7234	-1147	QKA	2.6	0	7.3	0	1.1	0	0.356	0	2.382	0	6.690	0	1777	48	1.0
45134.7	10000	41.2849	93.7226	-1146	QKA	2.5	0	7.4	0	1.1	0	0.331	0	2.234	0	6.744	0	1794	46	1.0
45134.6	10000	41.2849	93.7217	-1145	QKA	2.3	0	7.6	1	1.2	1	0.297	-1	1.940	-1	6.525	0	1814	45	1.0
45134.5	10000	41.2849	93.7209	-1144	QKA	2.2	0	7.8	1	1.2	1	0.282	-1	1.858	-1	6.588	0	1840	42	1.0
45134.4	10000	41.2849	93.7200	-1144	QKA	2.1	-1	8.2	1	1.2	1	0.259	-1	1.806	-1	6.969	0	1854	43	1.0
45134.3	10000	41.2850	93.7192	-1143	QKA	1.9	-1	8.3	2	1.2	1	0.232	-2	1.650	-1	7.098	1	1863	36	1.0
45134.2	10000	41.2850	93.7183	-1142	QKA	1.9	-1	7.9	1	1.1	0	0.235	-1	1.648	-1	7.023	0	1838	48	1.0
45134.1	10000	41.2850	93.7175	-1141	QKA	1.9	-1	7.7	1	1.1	0	0.245	-1	1.696	-1	6.924	0	1821	39	1.0
45134.0	10000	41.2850	93.7166	-1140	QKA	1.9	-1	7.8	1	1.1	0	0.246	-1	1.710	-1	6.937	0	1811	48	1.0
45133.9	10000	41.2850	93.7158	-1140	QKA	2.3	0	7.3	0	1.0	0	0.313	0	2.198	0	7.015	0	1795	46	1.0
45133.8	10000	41.2850	93.7149	-1139	QKA	2.5	0	7.1	0	1.0	-1	0.344	0	2.455	0	7.138	1	1750	46	1.0
45133.7	10000	41.2850	93.7141	-1138	QKA	2.5	0	6.9	0	0.9	-1	0.366	0	2.694	1	7.364	1	1728	50	1.0
45133.6	10000	41.2850	93.7132	-1137	QKA	2.8	1	6.3	-1	0.9	-1	0.447	2	3.016	2	6.745	0	1722	55	1.0
45133.5	10000	41.2850	93.7124	-1135	QKA	2.9	1	6.2	-1	1.0	-1	0.468	2	2.996	1	6.396	0	1726	50	1.0
45133.4	10000	41.2850	93.7115	-1134	QKA	3.0	1	6.1	-1	0.9	-1	0.488	2	3.216	2	6.588	0	1732	33	1.0
45133.3	10000	41.2850	93.7107	-1132	QKA	2.9	1	6.2	-1	0.9	-1	0.462	2	3.045	2	6.595	0	1747	56	1.0
45133.2	10000	41.2851	93.7098	-1132	QKA	2.7	1	6.9	0	1.0	0	0.392	1	2.637	1	6.726	0	1767	43	1.0
45133.1	10000	41.2851	93.7090	-1130	QKA	2.5	0	7.2	0	1.0	0	0.341	0	2.406	0	7.046	0	1805	46	1.0
45133.0	10000	41.2851	93.7081	-1129	QKA	2.2	0	7.5	0	1.1	0	0.289	-1	1.939	-1	6.716	0	1826	33	1.0
45132.9	10000	41.2851	93.7073	-1128	QKA	2.0	-1	8.1	1	1.1	0	0.246	-1	1.765	-1	7.175	1	1849	46	1.0
45132.8	10000	41.2851	93.7064	-1126	QKA	2.0	-1	8.6	1	1.2	1	0.232	-2	1.705	-1	7.363	1	1874	39	1.0
45132.7	10000	41.2851	93.7056	-1125	QKA	1.9	-1	8.8	1	1.2	1	0.219	-2	1.650	-1	7.553	1	1883	42	1.0
45132.6	10000	41.2851	93.7047	-1124	QKA	2.0	-1	8.8	1	1.1	1	0.225	-2	1.804	-1	8.002	2	1882	42	1.0
45132.5	10000	41.2851	93.7039	-1123	QKA	1.9	-1	8.8	1	1.1	1	0.216	-2	1.761	-1	8.148	2	1879	42	1.0
45132.4	10000	41.2851	93.7030	-1121	QKA	1.9	-1	8.8	1	1.1	1	0.217	-2	1.729	-1	7.981	2	1860	43	1.0
45132.3	10000	41.2851	93.7022	-1119	QKA	2.3	0	8.1	1	1.1	1	0.285	-1	2.142	0	7.514	1	1852	40	1.0
45132.2	10000	41.2852	93.7013	-1118	QKA	2.2	0	7.9	1	1.1	1	0.277	-1	2.048	0	7.398	1	1819	48	1.0
45132.1	10000	41.2852	93.7005	-1117	QKA	2.0	-1	7.4	0	1.1	0	0.276	-1	1.948	-1	7.061	1	1808	43	1.0
45132.0	10000	41.2852	93.6996	-1115	QAL	2.0	-1	7.6	1	1.1	1	0.262	-1	1.837	-1	7.012	1	1795	49	1.0
45131.9	10000	41.2852	93.6988	-1114	QAL	2.1	-1	7.8	1	1.1	1	0.299	-1	1.892	-1	6.331	0	1796	36	1.0
45131.8	10000	41.2852	93.6979	-1113	QAL	2.1	-1	8.0	1	1.2	1	0.319	-1	1.795	-1	5.621	-1	1781	51	1.0
45131.7	10000	41.2852	93.6971	-1112	QAL	2.3	0	8.2	1	1.2	1	0.367	0	1.890	-1	5.151	-1	1770	55	1.0
45131.6	10000	41.2852	93.6962	-1112	QAL	1.9	-1	7.7	1	1.2	1	0.286	-1	1.621	-1	5.667	-1	1753	42	1.0
45131.5	10000	41.2852	93.6954	-1111	QAL	1.9	-1	7.7	1	1.2	1	0.281	-1	1.624	-1	5.777	-1	1748	39	1.0
45131.4	10000	41.2852	93.6945	-1110	QAL	1.9	-1	7.0	1	1.2	1	0.268	-1	1.585	-1	5.905	-1	1729	44	1.0
45131.3	10000	41.2852	93.6936	-1109	QAL	2.2	0	6.7	1	1.1	1	0.329	-1	1.950	-1	5.929	-1	1735	44	1.0
45131.2	10000	41.2853	93.6928	-1108	QAL	2.1	0	6.7	1	1.1	1	0.318	-1	1.881	-1	5.908	-1	1726	42	1.0
45131.1	10000	41.2853	93.6920	-1107	QAL	2.3	0	7.1	1	1.1	1	0.316	-1	2.003	-1	6.342	0	1719	41	1.0
45131.0	10000	41.2853	93.6911	-1106	QAL	2.0	0	7.3	1	1.1	1	0.270	-1	1.823	-1	6.742	0	1711	40	1.0
45130.9	10000	41.2853	93.6902	-1106	QAL	2.5	0	6.8	1	1.1	1	0.339	0	2.170	0	6.394	0	1703	58	1.0
45130.8	10000	41.2853	93.6894	-1105	QKA	2.8	1	6.6	-1	1.1	1	0.374	1	2.366	1	6.334	0	1705	50	1.0
45130.7	10000	41.2853	93.6886	-1104	QKA	2.8	1	6.3	-1	1.0	0	0.444	2	2.808	2	6.328	0	1709	37	1.0
45130.6	10000	41.2853	93.6877	-1104	QKA	2.3	0	6.0	-1	1.1	0	0.388	1	2.228	0	5.736	-1	1679	50	1.0

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45130.5	10000	41.2853	93.6868	-1104	QKA	2.1	-1	5.8	-2	1.0	0	0.354	0	1.968	-1	5.563	-1	1648	49	1.0
45130.4	10000	41.2853	93.6860	-1103	QKA	1.9	-1	5.5	-2	1.0	-1	0.340	0	1.865	-1	5.484	-2	1616	48	1.0
45130.3	10000	41.2853	93.6852	-1103	QKA	1.9	-1	5.7	-2	1.0	0	0.330	0	1.788	-1	5.422	-2	1616	38	1.0
45130.2	10000	41.2854	93.6843	-1103	QKA	1.7	-1	5.6	-2	1.1	0	0.290	-1	1.549	-1	5.343	-2	1647	48	1.0
45130.1	10000	41.2854	93.6834	-1102	QKA	1.8	-1	5.9	-2	1.2	1	0.303	-1	1.551	-1	5.123	-2	1666	42	1.0
45130.0	10000	41.2854	93.6826	-1102	QKA	1.7	-1	5.8	-2	1.2	1	0.290	-1	1.447	-2	4.996	-2	1685	45	1.0
45129.9	10000	41.2854	93.6817	-1102	QKA	2.0	-1	5.9	-2	1.2	1	0.338	0	1.742	-1	5.148	-2	1713	44	1.0
45129.8	10000	41.2854	93.6809	-1102	QKA	2.4	0	6.2	-1	1.1	0	0.388	1	2.181	0	5.617	-1	1749	29	1.0
45129.7	10000	41.2854	93.6800	-1103	QKA	2.7	1	6.7	-1	1.1	0	0.402	1	2.418	0	6.019	-1	1776	36	1.0
45129.6	10000	41.2854	93.6792	-1103	QKA	2.9	1	6.6	-1	1.1	0	0.433	1	2.654	1	6.129	-1	1779	48	1.0
45129.5	10000	41.2854	93.6783	-1102	QKA	2.8	1	6.5	-1	1.0	-1	0.427	1	2.794	1	6.541	0	1744	44	1.0
45129.4	10000	41.2854	93.6775	-1103	QKA	2.8	1	6.5	-1	1.0	-1	0.433	1	2.915	1	6.730	0	1734	47	1.0
45129.3	10000	41.2854	93.6766	-1103	QKA	2.8	1	6.9	0	1.0	-1	0.411	1	2.887	1	7.032	0	1744	37	1.0
45129.2	10000	41.2855	93.6758	-1104	QKA	2.8	1	7.0	0	1.0	-1	0.392	1	2.758	1	7.032	0	1755	57	1.0
45129.1	10000	41.2855	93.6749	-1104	QKA	2.7	1	6.9	0	1.0	-1	0.387	1	2.692	1	6.954	0	1765	49	1.0
45129.0	10000	41.2855	93.6741	-1105	QKA	2.7	1	6.7	-1	1.0	-1	0.397	1	2.685	1	6.764	0	1788	51	1.0
45128.9	10000	41.2855	93.6732	-1106	QKA	2.8	1	6.6	-1	1.0	0	0.423	1	2.756	1	6.514	0	1810	47	1.0
45128.8	10000	41.2855	93.6724	-1106	QKA	3.0	1	6.7	-1	1.1	0	0.454	2	2.783	1	6.125	-1	1839	46	1.0
45128.7	10000	41.2855	93.6715	-1107	QKA	3.1	1	6.5	-1	1.1	0	0.482	2	2.826	1	5.868	-1	1850	41	1.0
45128.6	10000	41.2855	93.6707	-1107	QKA	3.2	2	6.1	-1	1.1	0	0.532	3	2.846	1	5.348	-2	1857	53	1.0
45128.5	10000	41.2855	93.6698	-1108	QKA	3.2	2	6.1	-1	1.2	1	0.515	3	2.742	1	5.325	-2	1876	32	1.0
45128.4	10000	41.2855	93.6690	-1109	QKA	3.0	1	6.5	-1	1.2	1	0.461	2	2.526	1	5.479	-2	1876	42	1.0
45128.3	10000	41.2855	93.6681	-1110	QKA	2.9	1	6.6	-1	1.2	1	0.439	1	2.389	0	5.439	-2	1907	59	1.0
45128.2	10000	41.2856	93.6673	-1111	QKA	2.7	1	6.8	0	1.2	1	0.392	1	2.277	0	5.802	-1	1912	41	1.0
45128.1	10000	41.2856	93.6664	-1111	QKA	2.6	0	7.1	0	1.2	1	0.364	0	2.239	0	6.158	-1	1912	41	1.0
45128.0	10000	41.2856	93.6656	-1112	QKA	2.2	0	7.4	0	1.1	0	0.304	-1	1.980	-1	6.506	0	1888	32	1.0
45127.9	10000	41.2856	93.6647	-1113	QKA	2.2	0	7.0	0	1.1	0	0.314	0	2.074	0	6.603	0	1842	49	1.0
45127.8	10000	41.2856	93.6639	-1113	QKA	2.4	0	6.9	0	1.0	-1	0.342	0	2.414	0	7.067	0	1780	58	1.0
45127.7	10000	41.2856	93.6630	-1114	QKA	2.3	0	6.6	-1	1.0	-1	0.350	0	2.384	0	6.808	0	1732	54	1.1
45127.6	10000	41.2856	93.6622	-1115	QKA	2.3	0	6.6	-1	0.9	-1	0.352	0	2.508	1	7.114	1	1653	38	1.1
45127.5	10000	41.2856	93.6613	-1116	QKA	2.7	1	6.4	-1	0.9	-1	0.417	1	2.906	1	6.977	0	1625	39	1.1
45127.4	10000	41.2856	93.6605	-1117	QKA	2.6	1	6.4	-1	0.9	-1	0.413	1	2.905	1	7.037	0	1609	42	1.1
45127.3	10000	41.2856	93.6596	-1118	QKA	2.7	1	6.4	-1	0.9	-1	0.425	1	2.949	1	6.937	0	1602	46	1.1
45127.2	10000	41.2857	93.6588	-1118	QKA	2.8	1	6.7	-1	0.9	-1	0.413	1	3.044	2	7.367	1	1603	42	1.1
45127.1	10000	41.2857	93.6579	-1120	QKA	2.6	1	6.7	-1	1.0	-1	0.385	1	2.695	1	6.991	0	1636	41	1.1
45127.0	10000	41.2857	93.6571	-1121	QKA	2.6	0	6.9	0	1.0	-1	0.378	1	2.658	1	7.026	0	1669	48	1.1
45126.9	10000	41.2857	93.6562	-1121	QKA	2.6	0	6.8	0	1.1	0	0.387	1	2.412	0	6.230	-1	1717	44	1.1
45126.8	10000	41.2857	93.6554	-1122	QKA	2.1	-1	7.0	0	1.1	0	0.302	-1	1.886	-1	6.236	-1	1737	49	1.1
45126.7	10000	41.2857	93.6545	-1121	QKA	2.0	-1	6.7	-1	1.2	1	0.303	-1	1.715	-1	5.660	-1	1766	45	1.1
45126.6	10000	41.2857	93.6537	-1117	QKA	2.1	-1	6.8	0	1.2	1	0.310	-1	1.747	-1	5.637	-1	1811	50	1.1
45126.5	10000	41.2857	93.6528	-1118	QKA	2.1	-1	7.3	0	1.3	1	0.286	-1	1.669	-1	5.824	-1	1843	37	1.1
45126.4	10000	41.2857	93.6520	-1124	QKA	2.4	0	7.5	0	1.2	1	0.317	0	1.921	-1	6.060	-1	1859	43	1.1
45126.3	10000	41.2857	93.6511	-1125	QKA	2.6	0	7.3	0	1.2	1	0.359	0	2.178	1	6.065	-1	1860	48	1.1
45126.2	10000	41.2858	93.6503	-1126	QKA	2.9	1	7.5	0	1.1	0	0.390	1	2.572	1	6.590	0	1863	54	1.1
45126.1	10000	41.2858	93.6494	-1127	QKA	3.1	1	7.3	0	1.1	0	0.427	2	2.730	1	6.389	0	1875	43	1.1
45126.0	10000	41.2858	93.6486	-1127	QKA	3.5	2	7.7	1	1.1	0	0.457	2	3.188	2	6.970	0	1886	37	1.1
45125.9	10000	41.2858	93.6477	-1128	QKA	3.3	2	7.9	1	1.1	0	0.422	2	2.983	2	7.076	0	1866	37	1.1
45125.8	10000	41.2858	93.6469	-1129	QKA	3.5	2	7.6	1	1.1	0	0.454	2	3.165	2	6.974	0	1865	38	1.1
45125.7	10000	41.2858	93.6460	-1129	QKA	3.1	1	7.6	1	1.1	0	0.401	2	2.733	2	6.816	0	1848	43	1.1
45125.6	10000	41.2858	93.6452	-1131	QKA	2.8	1	7.7	1	1.1	0	0.365	1	2.451	1	6.717	0	1833	55	1.1
45125.5	10000	41.2858	93.6443	-1131	QKA	2.5	0	7.8	1	1.2	0	0.314	0	2.083	1	6.624	0	1820	63	1.1
45125.4	10000	41.2858	93.6435	-1132	QKA	2.2	0	7.8	1	1.2	1	0.284	-1	1.872	-1	6.586	0	1820	38	1.1

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45125.3	10000	41.2858	93.6426	-1133	QKA	2.0	-1	7.8	1	1.2	1	0.256	-1	1.641	-1	6.418	0	1812	36	1.1
45125.2	10000	41.2858	93.6418	-1133	QKA	2.1	-1	7.5	1	1.2	1	0.276	-1	1.679	-1	6.085	-1	1832	46	1.1
45125.1	10000	41.2859	93.6409	-1134	QKA	1.9	-1	7.8	1	1.3	1	0.251	-1	1.547	-1	6.164	-1	1846	46	1.1
45125.0	10000	41.2859	93.6401	-1134	QKA	2.2	0	7.6	1	1.3	1	0.287	-1	1.739	-1	6.066	-1	1854	40	1.1
45124.9	10000	41.2859	93.6392	-1135	QKA	2.1	-1	7.8	1	1.3	1	0.262	-1	1.623	-1	6.193	-1	1865	50	1.1
45124.8	10000	41.2859	93.6384	-1135	QKA	2.0	-1	7.8	1	1.2	1	0.253	-1	1.646	-1	6.505	0	1856	46	1.1
45124.7	10000	41.2859	93.6375	-1135	QKA	2.1	-1	8.1	1	1.2	1	0.259	-1	1.782	-1	6.871	0	1841	47	1.1
45124.6	10000	41.2859	93.6367	-1136	QKA	2.0	-1	8.1	1	1.1	0	0.251	-1	1.808	-1	7.195	1	1821	52	1.1
45124.5	10000	41.2859	93.6358	-1138	QKA	2.1	-1	8.3	2	1.1	0	0.253	-1	1.979	-1	7.819	1	1800	50	1.1
45124.4	10000	41.2859	93.6350	-1139	QKA	2.1	-1	8.2	1	1.0	-1	0.260	-1	2.165	0	8.317	2	1757	40	1.1
45124.3	10000	41.2859	93.6341	-1140	QKA	2.1	-1	7.8	1	0.9	-1	0.271	-1	2.259	0	8.325	2	1733	30	1.1
45124.2	10000	41.2859	93.6333	-1141	QKA	2.4	0	7.6	1	0.9	-1	0.315	0	2.591	1	8.228	2	1719	55	1.1
45124.1	10000	41.2859	93.6324	-1142	QKA	2.5	0	7.5	0	0.9	-1	0.339	0	2.677	1	7.902	2	1733	41	1.2
45124.0	10000	41.2859	93.6316	-1143	QKA	2.9	1	7.3	0	0.9	-1	0.395	1	3.187	2	8.073	2	1732	55	1.2
45123.9	10000	41.2859	93.6307	-1144	QKA	3.1	1	7.0	0	0.9	-1	0.436	1	3.359	2	7.696	1	1734	38	1.2
45123.8	10000	41.2859	93.6299	-1145	QKA	3.3	2	6.5	-1	0.9	-2	0.506	2	3.805	3	7.516	1	1730	39	1.2
45123.7	10000	41.2859	93.6290	-1146	QKA	3.4	2	6.4	-1	0.9	-1	0.530	3	3.666	3	6.914	0	1767	43	1.2
45123.6	10000	41.2858	93.6282	-1148	QKA	3.4	2	6.7	-1	0.9	-1	0.512	3	3.674	3	7.170	1	1782	48	1.2
45123.5	10000	41.2858	93.6273	-1148	QKA	3.3	2	7.0	0	0.9	-1	0.477	2	3.598	3	7.545	1	1801	44	1.2
45123.4	10000	41.2858	93.6265	-1149	QKA	3.3	2	7.1	0	1.0	-1	0.461	2	3.389	2	7.356	1	1815	49	1.2
45123.3	10000	41.2858	93.6256	-1150	QKA	3.2	2	7.0	0	1.0	-1	0.450	2	3.276	2	7.278	1	1822	43	1.2
45123.2	10000	41.2858	93.6248	-1151	QKA	3.1	1	7.1	0	1.0	-1	0.432	1	3.084	2	7.145	1	1825	49	1.2
45123.1	10000	41.2858	93.6239	-1152	QKA	2.9	1	7.1	0	1.0	0	0.399	1	2.786	1	6.977	0	1816	49	1.2
45123.0	10000	41.2858	93.6231	-1153	QKA	2.8	1	6.9	0	1.0	-1	0.401	1	2.793	1	6.967	0	1785	48	1.2
45122.9	10000	41.2858	93.6223	-1155	QKA	2.6	0	6.9	0	1.0	0	0.378	1	2.568	1	6.793	0	1778	49	1.2
45122.8	10000	41.2858	93.6214	-1156	QKA	2.7	1	6.7	-1	1.0	0	0.397	1	2.597	1	6.541	0	1770	47	1.2
45122.7	10000	41.2858	93.6205	-1157	QKA	2.8	1	6.5	-1	1.0	0	0.429	1	2.825	1	6.590	0	1757	53	1.2
45122.6	10000	41.2858	93.6197	-1157	QKA	2.7	1	6.7	-1	1.0	0	0.402	1	2.606	1	6.482	0	1760	45	1.2
45122.5	10000	41.2858	93.6189	-1158	QKA	2.7	1	6.6	0	1.0	0	0.405	1	2.667	1	6.589	0	1768	51	1.2
45122.4	10000	41.2858	93.6180	-1159	QKA	2.7	1	7.0	0	1.0	0	0.381	1	2.605	1	6.843	0	1793	47	1.2
45122.3	10000	41.2858	93.6172	-1160	QKA	2.7	1	7.2	0	1.0	0	0.373	1	2.578	1	6.913	0	1813	54	1.2
45122.2	10000	41.2858	93.6163	-1160	QKA	2.8	1	7.5	0	1.0	0	0.372	1	2.682	1	7.213	1	1846	45	1.2
45122.1	10000	41.2858	93.6155	-1161	QKA	2.8	1	7.6	1	1.0	0	0.372	1	2.785	1	7.486	1	1856	43	1.2
45122.0	10000	41.2858	93.6146	-1162	QKA	2.9	1	7.8	1	1.0	0	0.374	1	2.800	1	7.494	1	1862	47	1.2
45121.9	10000	41.2858	93.6138	-1162	QKA	2.9	1	7.8	1	1.0	0	0.377	1	2.799	1	7.424	1	1891	34	1.2
45121.8	10000	41.2858	93.6129	-1163	QAL	3.1	1	7.9	1	1.1	0	0.396	1	2.863	1	7.231	1	1924	40	1.2
45121.7	10000	41.2858	93.6121	-1164	QAL	3.2	1	7.8	1	1.1	0	0.409	1	3.057	1	7.482	2	1941	54	1.2
45121.6	10000	41.2858	93.6112	-1165	QAL	3.0	1	8.3	2	1.1	1	0.356	1	2.660	1	7.470	2	1963	52	1.2
45121.5	10000	41.2858	93.6104	-1165	QAL	3.3	1	8.4	2	1.1	1	0.390	1	2.950	1	7.571	2	1978	44	1.2
45121.4	10000	41.2858	93.6095	-1166	QAL	3.5	2	8.2	2	1.1	1	0.435	1	3.040	1	6.992	1	2011	54	1.2
45121.3	10000	41.2858	93.6087	-1167	QAL	3.2	1	8.0	2	1.1	1	0.396	1	2.656	1	6.700	1	2019	37	1.2
45121.2	10000	41.2858	93.6078	-1168	QAL	3.4	1	7.7	2	1.1	1	0.445	1	2.830	1	6.352	0	2005	40	1.2
45121.1	10000	41.2858	93.6070	-1169	QAL	3.4	1	7.4	3	1.1	1	0.466	1	2.744	1	5.886	0	1997	46	1.2
45121.0	10000	41.2858	93.6061	-1170	QAL	3.4	1	7.3	3	1.1	1	0.461	1	2.692	1	5.837	0	1974	54	1.2
45120.9	10000	41.2858	93.6053	-1171	QAL	3.4	1	7.1	3	1.1	1	0.498	1	2.722	1	5.464	-1	1969	42	1.2
45120.8	10000	41.2858	93.6044	-1172	QAL	3.4	1	6.8	3	1.1	1	0.442	1	2.209	1	5.003	-1	1961	51	1.2
45120.7	10000	41.2858	93.6036	-1173	QKA	3.0	1	6.7	3	1.1	1	0.364	1	1.913	1	5.253	-2	1948	40	1.2
45120.6	10000	41.2858	93.6027	-1173	QKA	3.0	1	6.6	2	1.1	1	0.455	1	2.462	1	5.415	-2	1941	40	1.2
45120.5	10000	41.2857	93.6019	-1174	QKA	2.8	1	6.5	2	1.1	1	0.430	1	2.334	1	5.423	-2	1920	44	1.2
45120.4	10000	41.2857	93.6010	-1174	QKA	2.6	1	6.6	2	1.1	1	0.390	1	2.308	1	5.914	-1	1883	43	1.2
45120.3	10000	41.2857	93.6002	-1174	QKA	2.6	1	6.5	2	1.1	1	0.409	1	2.322	1	5.673	-1	1873	31	1.2
45120.2	10000	41.2857	93.5993	-1175	QKA	3.0	1	6.4	-1	1.1	0	0.473	2	2.726	1	5.760	-1	1855	59	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GECL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45120.1	10000	41.2857	93.5985	-1175	QKA	3.2	2	6.1	-1	1.0	0	0.514	3	3.084	2	6.003	-1	1829	45	1.2
45120.0	10000	41.2857	93.5976	-1175	QKA	3.2	2	6.3	-1	1.0	0	0.506	2	3.105	2	6.133	-1	1803	34	1.2
45119.9	10000	41.2857	93.5968	-1174	QKA	2.8	1	6.5	-1	1.0	0	0.430	1	2.666	1	6.198	-1	1794	49	1.2
45119.8	10000	41.2857	93.5959	-1173	QKA	2.9	1	6.5	-1	1.0	0	0.449	2	2.825	1	6.289	-1	1798	50	1.2
45119.7	10000	41.2857	93.5951	-1175	QKA	2.9	1	6.7	-1	1.0	0	0.442	2	2.860	1	6.473	0	1771	31	1.2
45119.6	10000	41.2857	93.5943	-1177	QKA	2.9	1	6.4	-1	1.0	-1	0.452	2	3.004	2	6.639	0	1708	39	1.2
45119.5	10000	41.2857	93.5934	-1178	QKA	2.8	1	6.1	-1	0.8	-2	0.455	2	3.308	2	7.263	1	1608	47	1.2
45119.4	10000	41.2857	93.5925	-1179	QKA	2.8	1	5.8	-2	0.7	-2	0.482	2	3.738	3	7.761	1	1503	45	1.2
45119.3	10000	41.2857	93.5917	-1180	QKA	2.7	1	5.2	-3	0.7	-3	0.518	3	4.017	4	7.751	1	1451	41	1.2
45119.2	10000	41.2857	93.5909	-1180	QKA	2.7	1	5.0	-3	0.6	-3	0.543	3	4.401	4	8.098	2	1439	52	1.2
45119.1	10000	41.2857	93.5900	-1180	QKA	2.7	1	5.0	-3	0.6	-3	0.548	3	4.527	5	8.264	2	1444	46	1.2
45119.0	10000	41.2857	93.5892	-1180	QKA	2.7	1	4.9	-3	0.7	-3	0.548	3	3.837	3	7.001	0	1500	42	1.2
45118.9	10000	41.2857	93.5883	-1180	QKA	2.7	1	5.0	-3	0.8	-2	0.529	3	3.308	2	6.252	-1	1595	45	1.2
45118.8	10000	41.2857	93.5875	-1181	QKA	2.6	1	5.6	-2	0.9	-1	0.469	2	2.776	1	5.915	-1	1714	34	1.2
45118.7	10000	41.2857	93.5866	-1181	QKA	2.9	1	6.0	-2	1.0	0	0.480	2	2.781	1	5.799	-1	1817	34	1.2
45118.6	10000	41.2857	93.5858	-1181	QKA	3.2	2	6.1	-1	1.1	0	0.525	3	2.952	1	5.629	-1	1856	47	1.2
45118.5	10000	41.2857	93.5849	-1181	QKA	3.1	1	6.3	-1	1.1	0	0.490	2	2.795	1	5.705	-1	1850	45	1.2
45118.4	10000	41.2857	93.5841	-1181	QKA	2.8	1	6.4	-1	1.1	0	0.444	2	2.569	1	5.781	-1	1840	49	1.2
45118.3	10000	41.2857	93.5832	-1181	QKA	3.0	1	6.4	-1	1.0	0	0.466	2	2.929	1	6.289	-1	1817	40	1.2
45118.2	10000	41.2857	93.5824	-1181	QKA	3.1	1	6.4	-1	1.0	-1	0.479	2	3.125	2	6.526	0	1802	64	1.2
45118.1	10000	41.2857	93.5815	-1180	QKA	3.0	1	6.3	-1	1.0	-1	0.473	2	3.113	2	6.578	0	1781	46	1.2
45118.0	10000	41.2857	93.5807	-1179	QKA	2.9	1	6.2	-1	0.9	-1	0.470	2	3.187	2	6.782	0	1759	48	1.2
45117.9	10000	41.2857	93.5798	-1179	QKA	2.9	1	6.4	-1	0.9	-1	0.452	2	3.294	2	7.285	1	1748	36	1.2
45117.8	10000	41.2857	93.5790	-1179	QKA	3.0	1	6.2	-1	0.9	-1	0.482	2	3.408	2	7.076	0	1755	33	1.2
45117.7	10000	41.2856	93.5781	-1179	QKA	3.1	1	6.1	-1	0.9	-1	0.500	2	3.447	2	6.890	0	1748	54	1.2
45117.6	10000	41.2857	93.5773	-1180	QKA	2.9	1	6.4	-1	0.9	-1	0.462	2	3.234	2	6.999	0	1760	42	1.2
45117.5	10000	41.2856	93.5764	-1181	QKA	3.1	1	6.5	-1	0.9	-1	0.476	2	3.332	2	6.996	0	1778	37	1.2
45117.4	10000	41.2856	93.5756	-1182	QKA	3.3	2	6.4	-1	0.9	-1	0.511	3	3.746	2	7.330	1	1770	37	1.2
45117.3	10000	41.2856	93.5747	-1182	QKA	3.0	1	6.7	-1	0.9	-1	0.449	2	3.308	2	7.362	1	1790	40	1.2
45117.2	10000	41.2856	93.5739	-1182	QKA	2.8	1	6.7	-1	0.9	-1	0.419	2	3.063	2	7.312	1	1813	31	1.2
45117.1	10000	41.2856	93.5730	-1183	QKA	3.0	1	6.8	-1	0.9	-1	0.444	2	3.200	2	7.207	1	1821	49	1.2
45117.0	10000	41.2856	93.5722	-1183	QKA	3.3	1	6.8	-1	1.0	-1	0.416	2	2.947	2	7.087	0	1827	43	1.2
45116.9	10000	41.2856	93.5713	-1184	QKA	2.9	1	6.5	-1	1.0	-1	0.447	2	2.996	2	6.698	0	1807	41	1.2
45116.8	10000	41.2856	93.5705	-1184	QKA	2.5	0	6.4	-1	1.0	-1	0.388	1	2.486	1	6.404	-1	1785	47	1.2
45116.7	10000	41.2856	93.5696	-1184	QKA	2.3	0	6.7	-1	1.1	0	0.346	1	2.069	1	5.982	-1	1813	38	1.2
45116.6	10000	41.2856	93.5688	-1183	QKA	2.5	1	6.7	-1	1.2	1	0.370	1	2.084	1	5.629	-1	1835	39	1.2
45116.5	10000	41.2856	93.5679	-1183	QKA	2.2	0	6.8	-1	1.2	1	0.330	1	1.809	1	5.484	-1	1834	44	1.2
45116.4	10000	41.2856	93.5671	-1183	QKA	2.1	0	7.1	-1	1.3	1	0.297	1	1.627	1	5.485	-1	1859	39	1.2
45116.3	10000	41.2856	93.5663	-1183	QKA	2.1	0	7.3	-1	1.3	1	0.280	1	1.589	1	5.670	-1	1879	44	1.2
45116.2	10000	41.2856	93.5654	-1183	QKA	2.1	0	7.4	-1	1.3	1	0.281	1	1.600	1	5.694	-1	1895	46	1.2
45116.1	10000	41.2856	93.5645	-1183	QKA	2.3	0	7.4	-1	1.3	1	0.307	1	1.713	1	5.583	-1	1897	39	1.2
45116.0	10000	41.2856	93.5637	-1183	QKA	2.3	0	7.0	-1	1.2	1	0.326	1	1.831	1	5.611	-1	1879	43	1.2
45115.9	10000	41.2856	93.5629	-1183	QKA	2.3	0	6.9	-1	1.2	1	0.335	1	1.902	1	5.677	-1	1864	44	1.2
45115.8	10000	41.2856	93.5620	-1183	QKA	2.5	0	7.0	-1	1.2	1	0.364	1	2.112	1	5.802	-1	1863	41	1.2
45115.7	10000	41.2856	93.5612	-1183	QKA	2.5	0	6.6	-1	1.2	1	0.381	1	2.148	1	5.633	-1	1843	45	1.2
45115.6	10000	41.2856	93.5603	-1184	QKA	2.6	0	6.5	-1	1.2	1	0.405	1	2.301	1	5.688	-1	1820	53	1.2
45115.5	10000	41.2856	93.5595	-1184	QKA	2.6	0	6.8	-1	1.2	1	0.377	1	2.213	1	5.869	-1	1826	51	1.2
45115.4	10000	41.2856	93.5586	-1184	QKA	2.4	0	7.1	-1	1.2	1	0.346	1	2.126	1	6.146	-1	1834	48	1.2
45115.3	10000	41.2856	93.5578	-1184	QKA	2.5	0	7.2	-1	1.2	1	0.353	1	2.069	1	5.860	-1	1850	54	1.2
45115.2	10000	41.2856	93.5569	-1184	QKA	2.6	0	7.4	-1	1.2	1	0.349	1	2.088	1	5.974	-1	1853	45	1.2
45115.1	10000	41.2856	93.5561	-1184	QKA	2.6	0	7.2	-1	1.2	1	0.359	1	2.121	1	5.909	-1	1862	47	1.2
45115.0	10000	41.2856	93.5552	-1184	QKA	2.7	1	7.4	0	1.2	1	0.365	0	2.261	0	6.189	-1	1858	47	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45114.9	10000	41.2856	93.5544	-1184	QKA	2.8	1	7.4	0	1.2	1	0.375	1	2.284	0	6.090	-1	1868	45	1.2
45114.8	10000	41.2856	93.5535	-1184	QKA	2.9	1	7.1	0	1.2	1	0.412	1	2.465	0	5.988	-1	1857	42	1.2
45114.7	10000	41.2855	93.5527	-1184	QKA	3.1	1	7.0	0	1.2	1	0.445	2	2.661	1	5.975	-1	1859	51	1.2
45114.6	10000	41.2856	93.5518	-1183	QKA	2.9	1	7.1	0	1.1	0	0.418	1	2.693	1	6.449	0	1845	43	1.2
45114.5	10000	41.2855	93.5510	-1184	QKA	2.8	1	7.0	0	1.1	0	0.402	1	2.540	1	6.322	0	1840	37	1.2
45114.4	10000	41.2855	93.5501	-1184	QKA	2.7	1	7.3	0	1.1	0	0.376	1	2.453	0	6.524	0	1833	41	1.2
45114.3	10000	41.2855	93.5493	-1184	QKA	2.7	1	7.0	0	1.1	0	0.383	1	2.400	0	6.264	-1	1826	52	1.2
45114.2	10000	41.2855	93.5484	-1185	QKA	2.5	0	7.0	0	1.1	0	0.356	0	2.320	0	6.523	0	1801	50	1.2
45114.1	10000	41.2855	93.5476	-1183	QKA	2.4	0	7.1	0	1.1	0	0.345	0	2.264	0	6.566	0	1802	37	1.1
45114.0	10000	41.2855	93.5467	-1183	QKA	2.4	0	7.3	0	1.0	0	0.336	0	2.370	0	7.055	0	1792	36	1.1
45113.9	10000	41.2855	93.5459	-1182	QKA	2.5	0	7.4	0	1.1	0	0.331	0	2.300	0	6.943	0	1814	42	1.1
45113.8	10000	41.2855	93.5450	-1181	QKA	2.6	0	7.4	0	1.1	0	0.348	0	2.427	0	6.972	0	1828	44	1.1
45113.7	10000	41.2855	93.5442	-1181	QKA	2.6	0	7.2	0	1.1	0	0.362	0	2.485	0	6.861	0	1815	49	1.1
45113.6	10000	41.2855	93.5433	-1181	QKA	2.5	0	7.9	1	1.0	0	0.321	0	2.492	0	7.760	1	1830	36	1.1
45113.5	10000	41.2855	93.5425	-1180	QKA	2.8	1	8.1	1	1.0	0	0.338	0	2.725	1	8.054	2	1861	43	1.1
45113.4	10000	41.2855	93.5416	-1179	QKA	2.8	1	8.5	2	1.0	0	0.324	0	2.687	1	8.280	2	1868	56	1.1
45113.3	10000	41.2855	93.5408	-1177	QKA	3.0	1	8.2	1	1.1	0	0.361	0	2.766	1	7.668	1	1886	52	1.1
45113.2	10000	41.2855	93.5399	-1175	QKA	3.1	2	7.9	1	1.1	0	0.395	1	2.969	1	7.508	1	1886	38	1.1
45113.1	10000	41.2855	93.5391	-1170	QKA	3.2	2	7.7	1	1.1	0	0.416	1	2.939	1	7.064	0	1891	49	1.1
45113.0	10000	41.2855	93.5383	-1166	QKA	3.2	2	7.5	0	1.1	0	0.426	1	2.785	1	6.540	0	1905	48	1.1
45112.9	10000	41.2855	93.5374	-1162	QKA	3.2	2	6.9	0	1.2	1	0.461	2	2.740	1	5.941	-1	1899	51	1.1
45112.8	10000	41.2855	93.5365	-1162	QKA	3.2	2	6.8	0	1.2	1	0.475	2	2.729	1	5.745	-1	1891	36	1.1
45112.7	10000	41.2855	93.5357	-1166	QKA	3.0	1	6.5	-1	1.2	1	0.460	2	2.439	0	5.298	-2	1888	43	1.1
45112.6	10000	41.2855	93.5349	-1163	QKA	2.9	1	6.8	0	1.3	1	0.422	2	2.283	0	5.406	-2	1876	35	1.1
45112.5	10000	41.2855	93.5340	-1164	QKA	2.7	1	7.2	0	1.3	2	0.370	2	2.019	0	5.454	-2	1882	40	1.1
45112.4	10000	41.2855	93.5332	-1175	QKA	2.3	0	7.1	1	1.3	2	0.324	2	1.720	-1	5.312	-2	1879	41	1.1
45112.3	10000	41.2855	93.5323	-1177	QKA	2.4	0	7.6	1	1.4	2	0.315	2	1.750	-1	5.559	-1	1890	45	1.1
45112.2	10000	41.2855	93.5315	-1178	QKA	2.7	1	7.8	1	1.4	2	0.343	2	1.937	-1	5.652	-1	1893	46	1.1
45112.1	10000	41.2855	93.5306	-1177	QKA	2.8	1	7.6	1	1.4	2	0.364	2	1.965	-1	5.395	-2	1909	41	1.1
45112.0	10000	41.2856	93.5298	-1178	QKA	2.8	1	7.3	0	1.4	2	0.382	2	1.999	-1	5.234	-2	1905	39	1.1
45111.9	10000	41.2856	93.5289	-1179	QKA	2.5	1	7.4	0	1.4	2	0.335	2	1.782	-1	5.314	-2	1898	42	1.1
45111.8	10000	41.2856	93.5281	-1179	QKA	2.7	1	7.0	0	1.4	2	0.393	2	2.032	-1	5.169	-2	1889	41	1.1
45111.7	10000	41.2856	93.5273	-1179	QKA	2.9	1	7.5	1	1.3	2	0.382	2	2.182	0	5.707	-1	1870	40	1.1
45111.6	10000	41.2856	93.5264	-1180	QKA	2.9	1	7.1	0	1.3	2	0.407	2	2.271	0	5.585	-1	1862	45	1.1
45111.5	10000	41.2856	93.5256	-1181	QKA	2.7	1	6.8	0	1.3	2	0.402	2	2.127	0	5.288	-2	1856	48	1.1
45111.4	10000	41.2856	93.5247	-1182	QKA	2.5	0	6.9	0	1.2	1	0.366	2	2.028	0	5.548	-1	1849	39	1.1
45111.3	10000	41.2856	93.5239	-1183	QKA	2.7	1	7.5	1	1.3	2	0.365	2	2.183	0	5.980	-1	1854	42	1.2
45111.2	10000	41.2856	93.5230	-1183	QKA	2.9	1	7.6	1	1.2	1	0.388	2	2.390	0	6.166	-1	1877	42	1.2
45111.1	10000	41.2856	93.5222	-1183	QKA	2.8	1	7.8	1	1.2	1	0.365	2	2.367	0	6.483	0	1878	47	1.2
45111.0	10000	41.2856	93.5214	-1183	QKA	2.9	1	7.9	1	1.2	1	0.374	2	2.350	0	6.288	-1	1907	44	1.2
45110.9	10000	41.2857	93.5205	-1183	QKA	2.8	1	7.9	1	1.3	1	0.348	2	2.192	0	6.307	0	1915	50	1.2
45110.8	10000	41.2857	93.5197	-1183	QKA	2.6	1	8.6	1	1.3	1	0.308	2	2.103	0	6.835	0	1928	44	1.2
45110.7	10000	41.2857	93.5188	-1182	QKA	2.7	1	8.5	1	1.3	1	0.319	2	2.163	0	6.773	0	1938	38	1.2
45110.6	10000	41.2857	93.5180	-1182	QKA	2.5	1	8.3	1	1.3	1	0.307	2	2.023	0	6.595	0	1959	31	1.2
45110.5	10000	41.2857	93.5171	-1182	QKA	2.6	1	8.2	1	1.3	1	0.320	2	2.052	0	6.418	0	1969	44	1.2
45110.4	10000	41.2857	93.5163	-1182	QKA	2.5	1	8.9	1	1.3	1	0.321	2	1.988	-1	6.193	-1	1985	36	1.2
45110.3	10000	41.2857	93.5154	-1182	QKA	2.6	1	8.1	1	1.3	2	0.323	2	2.064	0	6.430	0	1991	40	1.2
45110.2	10000	41.2857	93.5146	-1183	QKA	2.7	1	8.3	1	1.2	2	0.369	2	2.172	0	6.729	0	2004	40	1.2
45110.1	10000	41.2857	93.5138	-1183	QKA	2.9	1	7.8	1	1.2	2	0.389	2	2.373	0	6.439	0	2018	37	1.2
45110.0	10000	41.2857	93.5129	-1183	QKA	3.0	1	7.6	1	1.2	2	0.412	2	2.431	0	6.244	-1	2022	50	1.2
45109.9	10000	41.2857	93.5121	-1183	QKA	3.1	1	7.5	1	1.2	2	0.423	2	2.495	0	6.054	-1	2023	46	1.2
45109.8	10000	41.2858	93.5112	-1182	QKA	2.9	1	7.5	0	1.2	1	0.383	1	2.350	0	6.141	-1	2019	37	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45109.7	10000	41.2858	93.5104	-1182	QKA	2.8	1	7.7	1	1.3	1	0.363	0	2.193	0	6.048	-1	2032	46	1.2
45109.6	10000	41.2858	93.5095	-1181	QKA	3.0	1	7.5	0	1.2	1	0.398	1	2.394	0	6.023	-1	2023	36	1.2
45109.5	10000	41.2858	93.5087	-1181	QKA	3.1	2	7.6	1	1.3	1	0.416	1	2.491	0	5.994	-1	2033	49	1.2
45109.4	10000	41.2858	93.5078	-1181	QKA	3.0	1	7.7	1	1.3	2	0.386	1	2.298	0	5.953	-1	2024	43	1.2
45109.3	10000	41.2858	93.5070	-1181	QKA	2.8	1	7.7	1	1.3	1	0.359	0	2.203	0	6.136	-1	2015	50	1.2
45109.2	10000	41.2858	93.5062	-1180	QKA	2.8	1	8.0	1	1.2	1	0.349	0	2.304	0	6.592	0	2000	53	1.2
45109.1	10000	41.2858	93.5053	-1180	QKA	3.1	1	8.0	1	1.2	1	0.386	1	2.619	-1	6.778	0	1999	60	1.2
45109.0	10000	41.2858	93.5045	-1180	QKA	3.0	1	7.9	1	1.1	0	0.381	1	2.678	-1	7.037	0	1989	41	1.2
45108.9	10000	41.2858	93.5036	-1180	QKA	2.8	1	8.0	1	1.1	1	0.358	0	2.482	0	6.937	0	1986	51	1.2
45108.8	10000	41.2858	93.5028	-1180	QKA	2.5	1	7.7	1	1.2	1	0.324	0	2.107	0	6.497	0	1960	53	1.2
45108.7	10000	41.2859	93.5019	-1180	QKA	2.5	1	7.6	1	1.2	1	0.324	0	2.103	0	6.499	0	1954	48	1.3
45108.6	10000	41.2859	93.5011	-1179	QKA	2.4	1	7.4	1	1.2	1	0.325	0	1.962	-1	6.045	-1	1962	42	1.3
45108.5	10000	41.2859	93.5002	-1178	QKA	2.4	1	7.2	1	1.3	1	0.342	0	1.955	-1	5.714	-1	1986	47	1.3
45108.4	10000	41.2859	93.4994	-1178	QKA	2.3	1	6.8	2	1.3	2	0.344	0	1.741	-1	5.219	-2	1977	46	1.3
45108.3	10000	41.2859	93.4986	-1178	QKA	2.5	1	6.8	2	1.3	2	0.370	0	1.899	-1	5.135	-2	1978	52	1.3
45108.2	10000	41.2859	93.4977	-1177	QAL	2.4	1	6.6	2	1.4	2	0.370	0	1.743	-1	4.704	-2	1980	47	1.3
45108.1	10000	41.2859	93.4969	-1176	QAL	2.8	1	6.9	2	1.4	2	0.403	0	2.020	-1	5.010	-1	2000	35	1.3
45108.0	10000	41.2859	93.4960	-1176	QAL	2.7	1	6.9	2	1.4	2	0.398	0	1.917	-1	4.821	-2	2006	40	1.3
45107.9	10000	41.2859	93.4952	-1176	QAL	2.7	1	7.6	2	1.4	2	0.356	0	1.910	-1	5.363	-1	2010	48	1.3
45107.8	10000	41.2859	93.4943	-1175	QAL	2.7	1	7.8	2	1.4	2	0.351	0	1.915	-1	5.450	-1	2004	37	1.3
45107.7	10000	41.2859	93.4935	-1175	QAL	2.8	1	8.0	2	1.4	2	0.351	0	2.002	-1	5.703	-1	2004	46	1.3
45107.6	10000	41.2859	93.4927	-1174	QAL	2.8	1	8.4	2	1.4	2	0.335	-1	2.057	0	6.137	0	2009	41	1.3
45107.5	10000	41.2860	93.4918	-1173	QAL	2.8	1	8.2	2	1.3	2	0.304	-1	2.175	0	7.149	1	2017	42	1.3
45107.4	10000	41.2860	93.4910	-1172	QAL	2.9	1	8.8	2	1.3	2	0.329	-1	2.220	0	6.740	1	2015	51	1.3
45107.3	10000	41.2860	93.4901	-1172	QAL	3.1	1	8.7	2	1.3	2	0.353	0	2.400	0	6.803	1	2003	44	1.3
45107.2	10000	41.2860	93.4893	-1171	QAL	3.2	1	8.4	2	1.3	2	0.377	0	2.521	0	6.682	1	1991	44	1.3
45107.1	10000	41.2860	93.4884	-1171	QAL	3.1	1	8.4	2	1.2	2	0.368	0	2.512	0	6.829	1	1983	40	1.4
45107.0	10000	41.2860	93.4876	-1170	QAL	3.1	1	8.6	2	1.2	2	0.358	0	2.496	0	7.069	1	1998	43	1.4
45106.9	10000	41.2860	93.4867	-1169	QAL	2.9	1	8.2	2	1.2	1	0.352	0	2.333	0	6.635	1	2008	32	1.4
45106.8	10000	41.2860	93.4859	-1168	QAL	3.0	1	7.7	1	1.2	1	0.396	0	2.550	0	6.443	0	2004	55	1.4
45106.7	10000	41.2860	93.4851	-1167	QAL	2.9	1	7.6	1	1.1	1	0.380	0	2.536	0	6.673	1	1985	44	1.4
45106.6	10000	41.2860	93.4842	-1167	QAL	3.0	1	7.8	1	1.1	1	0.379	0	2.761	0	7.284	1	1994	44	1.4
45106.5	10000	41.2860	93.4834	-1167	QAL	3.4	2	7.4	1	1.0	1	0.451	1	3.230	0	7.169	1	1985	42	1.4
45106.4	10000	41.2860	93.4825	-1166	QAL	3.5	2	7.4	1	1.1	1	0.478	2	3.307	0	6.926	1	1987	38	1.4
45106.3	10000	41.2861	93.4817	-1166	QAL	3.6	2	6.9	1	1.1	1	0.517	2	3.210	0	6.214	0	1999	39	1.4
45106.2	10000	41.2861	93.4808	-1165	QAL	3.6	2	6.6	1	1.1	1	0.543	2	3.402	0	6.266	0	1980	53	1.4
45106.1	10000	41.2861	93.4800	-1164	QK	3.9	3	6.5	0	1.2	1	0.598	2	3.350	1	5.605	-1	2008	47	1.4
45106.0	10000	41.2861	93.4791	-1164	QK	3.9	3	6.6	1	1.2	1	0.592	2	3.298	1	5.570	-1	2028	40	1.4
45105.9	10000	41.2861	93.4783	-1164	QK	3.9	3	6.4	1	1.3	1	0.617	2	3.153	1	5.111	-2	2028	37	1.4
45105.8	10000	41.2861	93.4775	-1164	QK	3.6	3	6.5	1	1.3	1	0.554	2	2.762	1	4.988	-2	2041	48	1.4
45105.7	10000	41.2861	93.4766	-1164	QK	3.6	3	6.5	1	1.3	1	0.555	2	2.820	1	5.081	-2	2040	54	1.4
45105.6	10000	41.2861	93.4758	-1164	QK	3.5	3	6.7	1	1.3	1	0.519	2	2.795	1	5.384	-2	2020	46	1.4
45105.5	10000	41.2861	93.4749	-1164	QK	3.2	2	7.2	1	1.3	1	0.494	2	2.767	1	5.597	-1	2022	46	1.4
45105.4	10000	41.2861	93.4741	-1164	QK	3.2	2	7.2	1	1.3	1	0.445	2	2.551	1	5.727	-1	1991	46	1.4
45105.3	10000	41.2861	93.4732	-1163	QK	3.2	2	7.2	1	1.3	1	0.450	2	2.535	1	5.633	-1	1987	49	1.4
45105.2	10000	41.2862	93.4724	-1163	QK	3.1	2	7.6	1	1.3	1	0.409	2	2.435	1	5.953	-1	1984	39	1.4
45105.1	10000	41.2862	93.4715	-1164	QK	3.0	2	8.0	1	1.3	1	0.379	2	2.337	1	6.159	0	1982	53	1.4
45105.0	10000	41.2862	93.4707	-1165	QK	2.7	1	7.8	1	1.3	1	0.353	2	2.128	1	6.037	-1	1967	40	1.4
45104.9	10000	41.2862	93.4699	-1165	QK	2.7	1	7.9	1	1.3	1	0.347	2	2.131	1	6.142	0	1959	52	1.4
45104.8	10000	41.2862	93.4690	-1166	QK	2.6	1	7.7	1	1.3	1	0.333	2	1.945	1	5.833	-1	1948	47	1.4
45104.7	10000	41.2862	93.4682	-1166	QK	2.7	1	8.0	1	1.3	1	0.337	2	1.992	1	5.917	-1	1956	45	1.4
45104.6	10000	41.2862	93.4673	-1167	QK	2.5	0	7.9	1	1.3	2	0.319	0	1.921	-1	6.023	-1	1949	38	1.4

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45104.5	10000	41.2862	93.4665	-1166	QK	2.7	0	7.7	1	1.3	1	0.348	0	2.119	0	6.081	-1	1944	50	1.4
45104.4	10000	41.2862	93.4656	-1167	QK	2.8	1	7.6	1	1.2	1	0.372	0	2.298	0	6.169	0	1929	58	1.4
45104.3	10000	41.2862	93.4648	-1167	QK	2.8	1	8.0	1	1.2	1	0.353	0	2.314	0	6.548	0	1911	46	1.4
45104.2	10000	41.2862	93.4639	-1168	QK	2.9	1	8.0	1	1.2	1	0.365	0	2.390	0	6.557	0	1905	40	1.4
45104.1	10000	41.2863	93.4631	-1169	QK	2.7	1	7.7	1	1.1	0	0.390	1	2.458	1	6.818	0	1898	41	1.4
45104.0	10000	41.2863	93.4623	-1170	QK	2.6	1	7.4	0	1.0	-1	0.428	1	2.628	2	7.079	1	1867	43	1.4
45103.9	10000	41.2863	93.4614	-1170	QK	2.3	2	7.4	0	1.0	-1	0.448	1	2.335	2	7.444	1	1848	29	1.4
45103.8	10000	41.2863	93.4606	-1171	QK	2.2	1	7.5	0	1.0	-1	0.426	1	2.245	2	7.615	2	1816	41	1.4
45103.7	10000	41.2863	93.4597	-1172	QK	2.0	1	7.3	0	1.0	-1	0.407	1	2.134	2	7.709	2	1808	47	1.4
45103.6	10000	41.2863	93.4589	-1172	QK	2.0	1	7.0	0	1.0	-1	0.430	1	2.129	2	7.269	1	1818	33	1.4
45103.5	10000	41.2863	93.4580	-1172	QK	2.0	1	7.0	0	1.0	-1	0.430	1	3.099	2	7.200	1	1822	59	1.4
45103.4	10000	41.2863	93.4572	-1173	QK	2.8	1	7.2	0	1.0	-1	0.397	1	2.790	1	7.028	1	1830	33	1.4
45103.3	10000	41.2863	93.4564	-1173	QK	2.5	1	7.2	0	1.1	-1	0.350	0	2.403	0	6.865	1	1847	30	1.4
45103.2	10000	41.2863	93.4555	-1173	QK	2.3	0	7.7	1	1.1	0	0.303	-1	2.116	0	6.990	1	1856	40	1.4
45103.1	10000	41.2863	93.4547	-1174	QK	2.1	-1	7.8	1	1.1	0	0.267	-1	1.860	-1	6.959	1	1903	40	1.4
45103.0	10000	41.2863	93.4538	-1174	QK	2.1	-1	7.9	1	1.2	1	0.267	-1	1.831	-1	6.853	1	1919	37	1.4
45102.9	10000	41.2864	93.4530	-1175	QK	2.0	-1	8.4	2	1.2	1	0.241	-2	1.703	-1	7.062	1	1927	48	1.4
45102.8	10000	41.2864	93.4521	-1175	QK	2.0	-1	8.4	2	1.3	1	0.234	-2	1.606	-1	6.874	1	1935	62	1.4
45102.7	10000	41.2864	93.4513	-1175	QK	2.0	-1	8.6	2	1.3	1	0.233	-2	1.584	-1	6.803	0	1940	40	1.4
45102.6	10000	41.2864	93.4504	-1175	QK	1.9	-1	8.6	2	1.3	1	0.223	-2	1.489	-2	6.687	0	1939	43	1.4
45102.5	10000	41.2864	93.4496	-1176	QK	2.0	-1	8.1	1	1.2	1	0.243	-1	1.590	-1	6.536	0	1936	43	1.4
45102.4	10000	41.2864	93.4488	-1177	QK	2.1	-1	8.0	1	1.2	1	0.282	-1	1.890	-1	6.700	0	1901	58	1.4
45102.3	10000	41.2864	93.4479	-1178	QK	2.1	-1	7.9	1	1.2	0	0.264	-1	1.740	-1	6.585	0	1876	48	1.4
45102.2	10000	41.2864	93.4471	-1178	QK	2.3	0	7.7	1	1.2	0	0.304	-1	1.989	-1	6.545	0	1864	51	1.4
45102.1	10000	41.2864	93.4462	-1179	QK	2.2	-1	7.6	1	1.1	0	0.292	-1	2.022	-1	6.916	1	1838	51	1.4
45102.0	10000	41.2864	93.4454	-1179	QK	2.2	-1	7.1	0	1.1	0	0.317	-1	2.087	-1	6.590	0	1800	55	1.4
45101.9	10000	41.2864	93.4445	-1179	QK	2.6	-1	6.8	-1	1.1	0	0.376	-1	2.502	-1	6.657	0	1771	48	1.4
45101.8	10000	41.2865	93.4437	-1179	QK	2.1	-1	7.2	0	1.0	0	0.295	-1	2.039	-1	6.883	1	1759	44	1.4
45101.7	10000	41.2865	93.4428	-1178	QK	2.0	-1	6.7	-1	1.1	0	0.296	-1	1.803	-1	6.095	-1	1735	34	1.3
45101.6	10000	41.2865	93.4420	-1177	QK	2.3	-1	6.6	-1	1.1	0	0.353	-1	2.217	-1	6.284	0	1715	38	1.3
45101.5	10000	41.2865	93.4412	-1176	QK	2.4	-1	6.5	-1	1.0	0	0.347	-1	2.230	-1	6.432	0	1704	52	1.3
45101.4	10000	41.2865	93.4403	-1176	QK	2.5	-1	6.3	-1	1.0	0	0.389	-1	2.487	-1	6.388	0	1684	40	1.3
45101.3	10000	41.2865	93.4395	-1175	QK	2.5	-1	6.3	-1	0.9	-1	0.401	-1	2.719	-1	6.782	0	1681	40	1.3
45101.2	10000	41.2865	93.4386	-1173	QK	2.5	-1	6.7	-1	0.9	-2	0.335	-1	2.490	-1	7.441	1	1673	49	1.3
45101.1	10000	41.2865	93.4378	-1168	QK	2.7	-2	6.1	-2	0.9	-2	0.443	-1	3.076	-1	6.945	1	1648	40	1.3
45101.0	10000	41.2865	93.4369	-1164	QK	2.8	-2	6.4	-2	0.9	-2	0.436	-1	3.229	-1	7.410	1	1667	46	1.3
45100.9	10000	41.2865	93.4361	-1162	QK	2.7	-2	6.0	-2	0.9	-2	0.455	-1	3.083	-1	6.781	0	1692	41	1.3
45100.8	10000	41.2865	93.4352	-1160	QK	2.6	-1	6.1	-2	0.9	-2	0.431	-1	2.982	-1	6.925	1	1715	36	1.3
45100.7	10000	41.2865	93.4344	-1166	QK	2.6	-1	6.6	-1	0.9	-2	0.389	-1	2.816	-1	7.245	1	1762	35	1.3
45100.6	10000	41.2865	93.4336	-1177	QK	2.6	-1	7.3	-1	1.0	-1	0.361	-1	2.747	-1	7.605	2	1805	38	1.3
45100.5	10000	41.2865	93.4327	-1180	QK	2.6	-1	7.2	-1	1.0	-1	0.413	-1	2.950	-1	7.894	1	1853	60	1.3
45100.4	10000	41.2866	93.4319	-1181	QK	2.7	-1	7.4	-1	1.1	-1	0.353	-1	2.366	-1	6.702	0	1900	55	1.3
45100.3	10000	41.2866	93.4310	-1180	QK	2.7	-1	7.7	-1	1.2	-1	0.349	-1	2.298	-1	6.590	0	1936	56	1.3
45100.2	10000	41.2866	93.4302	-1180	QK	2.6	-1	7.9	-1	1.2	-1	0.321	-1	2.147	-1	6.680	0	1967	41	1.3
45100.1	10000	41.2866	93.4293	-1179	QK	2.5	-1	8.1	-1	1.3	-1	0.314	-1	1.962	-1	6.242	0	1966	41	1.3
45100.0	10000	41.2866	93.4285	-1180	QK	2.7	-1	8.1	-1	1.3	-1	0.331	-1	2.022	-1	6.110	-1	1977	57	1.3
45099.9	10000	41.2866	93.4276	-1179	QK	2.4	-1	8.3	-1	1.3	-1	0.296	-1	1.802	-1	6.093	-1	1961	44	1.3
45099.8	10000	41.2866	93.4268	-1179	QK	2.1	-1	7.9	-1	1.3	-1	0.254	-1	1.588	-1	6.240	-1	1949	38	1.3
45099.7	10000	41.2866	93.4260	-1178	QK	2.3	-1	7.7	-1	1.3	-1	0.293	-1	1.792	-1	6.107	-1	1946	42	1.3
45099.6	10000	41.2866	93.4251	-1178	QK	2.1	-1	7.9	-1	1.3	-1	0.262	-1	1.683	-1	5.736	-1	1932	41	1.2
45099.5	10000	41.2866	93.4243	-1178	QK	2.1	-1	8.3	-1	1.3	-1	0.258	-1	1.625	-1	6.007	-1	1916	42	1.2
45099.4	10000	41.2867	93.4234	-1176	QK											6.288	0	1914	49	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45099.3	10000	41.2867	93.4226	-1178	QK	1.8	-2	8.0	1	1.4	2	0.223	-2	1.311	-2	5.871	-1	1904	33	1.2
45099.2	10000	41.2867	93.4217	-1178	QK	2.0	-1	8.0	1	1.4	2	0.252	-1	1.462	-2	5.810	-1	1909	39	1.2
45099.1	10000	41.2867	93.4209	-1178	QK	2.0	-1	7.7	1	1.4	2	0.258	-1	1.475	-2	5.721	-1	1915	49	1.2
45099.0	10000	41.2867	93.4200	-1178	QK	2.0	-1	8.1	1	1.3	1	0.245	-1	1.543	-2	6.285	0	1914	52	1.2
45098.9	10000	41.2867	93.4192	-1178	QK	2.1	-1	8.5	2	1.3	1	0.250	-1	1.689	-1	6.758	0	1920	39	1.2
45098.8	10000	41.2867	93.4184	-1177	QK	2.3	-1	8.1	1	1.3	2	0.281	-1	1.744	-1	6.206	0	1928	47	1.2
45098.7	10000	41.2867	93.4175	-1177	QK	2.5	0	8.1	1	1.3	2	0.306	-1	1.880	-1	6.140	0	1954	59	1.2
45098.6	10000	41.2867	93.4167	-1177	QK	2.7	0	7.8	1	1.2	1	0.341	0	2.175	0	6.379	0	1957	38	1.2
45098.5	10000	41.2867	93.4158	-1177	QK	2.7	0	7.9	1	1.2	1	0.336	0	2.180	0	6.497	0	1967	49	1.2
45098.4	10000	41.2867	93.4150	-1177	QK	3.0	[illegible]	7.9	1	1.2	1	0.384	0	2.457	0	6.401	0	1961	50	1.2
45098.3	10000	41.2867	93.4141	-1177	QK	2.9	1	7.9	1	1.3	1	0.363	0	2.249	0	6.188	0	1975	49	1.2
45098.2	10000	41.2868	93.4133	-1176	QK	2.9	1	7.8	1	1.3	1	0.364	0	2.246	0	6.174	0	1972	59	1.1
45098.1	10000	41.2868	93.4125	-1176	QK	2.9	1	8.0	1	1.2	1	0.365	0	2.458	0	6.729	0	1963	41	1.1
45098.0	10000	41.2868	93.4116	-1176	QK	2.8	1	7.7	1	1.2	1	0.366	0	2.336	0	6.384	0	1946	56	1.1
45097.9	10000	41.2868	93.4108	-1176	QK	2.9	1	8.3	1	1.2	1	0.347	0	2.378	0	6.859	1	1950	34	1.1
45097.8	10000	41.2868	93.4099	-1175	QK	2.8	1	8.0	1	1.2	1	0.349	0	2.330	0	6.685	0	1942	43	1.1
45097.7	10000	41.2868	93.4091	-1175	QK	2.4	0	8.1	1	1.2	1	0.302	-1	2.002	-1	6.632	0	1960	53	1.1
45097.6	10000	41.2868	93.4082	-1174	QK	2.5	0	7.9	1	1.2	1	0.312	-1	2.046	0	6.560	0	1956	44	1.1
45097.5	10000	41.2868	93.4074	-1173	QK	2.5	0	8.2	1	1.2	1	0.303	-1	2.077	0	6.848	1	1961	41	1.1
45097.4	10000	41.2868	93.4065	-1172	QK	2.6	0	7.9	1	1.2	1	0.325	0	2.128	0	6.548	0	1970	50	1.1
45097.3	10000	41.2868	93.4057	-1172	QK	2.7	0	8.2	1	1.2	0	0.329	0	2.320	0	7.042	1	1977	35	1.1
45097.2	10000	41.2868	93.4049	-1172	QK	2.8	1	7.9	1	1.2	0	0.361	0	2.451	0	6.798	0	1975	48	1.1
45097.1	10000	41.2868	93.4040	-1171	QK	2.8	1	7.9	1	1.1	0	0.357	0	2.504	1	7.006	1	1975	44	1.1
45097.0	10000	41.2868	93.4032	-1170	QK	2.9	1	8.4	2	1.1	0	0.344	0	2.573	1	7.485	1	1960	46	1.1
45096.9	10000	41.2869	93.4023	-1169	QK	2.8	1	8.2	1	1.1	0	0.346	0	2.555	1	7.386	1	1947	44	1.1
45096.8	10000	41.2869	93.4015	-1168	QK	2.9	1	8.3	2	1.1	0	0.343	0	2.543	1	7.419	1	1935	37	1.1
45096.7	10000	41.2869	93.4007	-1167	QK	2.7	0	8.8	2	1.1	0	0.312	-1	2.482	0	7.960	2	1911	54	1.1
45096.6	10000	41.2869	93.3999	-1165	QK	2.6	0	8.4	2	1.1	0	0.314	-1	2.429	0	7.727	2	1877	37	1.1
45096.5	10000	41.2869	93.3990	-1164	QK	2.7	0	8.2	1	1.1	-1	0.327	0	2.530	1	7.735	2	1831	35	1.1
45096.4	10000	41.2869	93.3982	-1162	QK	2.7	0	7.9	1	1.1	-1	0.348	0	2.584	1	7.424	1	1796	58	1.1
45096.3	10000	41.2869	93.3974	-1161	QK	2.8	1	7.4	1	1.0	-1	0.376	0	2.780	1	7.387	1	1772	45	1.1
45096.2	10000	41.2869	93.3965	-1159	QK	3.0	1	7.5	1	1.0	-1	0.393	1	3.081	2	7.835	2	1762	56	1.1
45096.1	10000	41.2869	93.3957	-1156	QK	3.1	1	7.3	1	1.0	-1	0.426	1	3.103	2	7.281	1	1775	42	1.1
45096.0	10000	41.2869	93.3949	-1153	QK	3.2	1	6.9	1	1.1	0	0.470	2	3.050	2	6.493	0	1801	52	1.1
45095.9	10000	41.2869	93.3941	-1152	QK	3.3	2	7.2	1	1.0	-1	0.465	2	3.171	2	6.812	0	1825	53	1.1
45095.8	10000	41.2869	93.3932	-1151	QK	3.0	1	7.1	1	1.1	0	0.421	1	2.743	1	6.509	0	1856	37	1.1
45095.7	10000	41.2869	93.3924	-1149	QK	3.3	2	7.8	1	1.2	0	0.430	1	2.903	1	6.749	0	1897	37	1.1
45095.6	10000	41.2870	93.3916	-1147	QK	3.2	1	7.8	1	1.2	1	0.411	1	2.607	1	6.348	0	1939	37	1.1
45095.5	10000	41.2870	93.3908	-1144	QK	3.2	1	7.8	1	1.3	2	0.413	1	2.410	1	5.835	-1	1954	39	1.1
45095.4	10000	41.2870	93.3900	-1142	QK	2.9	1	7.6	1	1.3	1	0.376	0	2.231	0	5.942	-1	1953	45	1.2
45095.3	10000	41.2870	93.3891	-1140	QK	3.1	1	8.0	1	1.3	2	0.382	0	2.398	0	6.282	0	1954	46	1.2
45095.2	10000	41.2870	93.3883	-1138	QK	2.9	1	7.8	1	1.3	2	0.370	0	2.183	0	5.896	-1	1964	42	1.2
45095.1	10000	41.2870	93.3875	-1135	QK	3.1	1	8.0	1	1.3	2	0.381	0	2.294	0	6.018	-1	1978	32	1.2
45095.0	10000	41.2870	93.3867	-1132	QK	2.9	1	7.5	1	1.3	2	0.389	0	2.250	0	5.783	-1	1978	47	1.2
45094.9	10000	41.2870	93.3858	-1131	QK	2.8	1	7.9	1	1.2	1	0.362	0	2.273	0	6.289	0	1957	44	1.2
45094.8	10000	41.2870	93.3850	-1128	QK	2.9	1	8.3	2	1.2	1	0.353	0	2.294	0	6.508	0	1965	44	1.2
45094.7	10000	41.2870	93.3842	-1126	QK	2.9	1	8.2	2	1.2	1	0.346	0	2.377	0	6.862	1	1963	44	1.2
45094.6	10000	41.2870	93.3834	-1124	QK	2.5	0	8.4	2	1.1	0	0.300	-1	2.093	0	6.974	1	1958	33	1.2
45094.5	10000	41.2870	93.3825	-1122	QK	2.6	0	8.2	2	1.1	0	0.306	-1	2.268	0	7.406	1	1938	57	1.2
45094.4	10000	41.2871	93.3817	-1120	QK	2.4	0	8.4	2	1.1	0	0.295	-1	2.140	0	7.252	1	1920	48	1.2
45094.3	10000	41.2871	93.3809	-1118	QK	2.2	-1	8.4	2	1.1	0	0.262	-1	1.964	-1	7.486	1	1921	58	1.2
45094.2	10000	41.2871	93.3801	-1116	QK	2.7	0	7.8	1	1.1	0	0.342	0	2.399	0	7.007	1	1933	41	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45094.1	10000	41.2871	93.3792	-1114	QK	2.6	0	8.2	1	1.1	0	0.315	0	2.266	0	7.182	1	1932	40	1.2
45094.0	10000	41.2871	93.3784	-1113	QK	2.8	1	7.9	1	1.2	0	0.362	0	2.449	0	6.762	0	1942	39	1.2
45093.9	10000	41.2871	93.3776	-1111	QK	3.0	1	7.7	1	1.2	0	0.391	1	2.611	1	6.677	0	1949	45	1.2
45093.8	10000	41.2871	93.3768	-1109	QK	2.9	1	8.1	1	1.2	1	0.355	0	2.366	0	6.674	0	1971	49	1.2
45093.7	10000	41.2871	93.3759	-1107	QK	3.0	1	8.1	1	1.2	1	0.366	0	2.444	0	6.679	0	1997	54	1.2
45093.6	10000	41.2871	93.3751	-1106	QK	3.3	2	8.2	1	1.2	1	0.406	1	2.698	1	6.652	0	2000	45	1.2
45093.5	10000	41.2871	93.3743	-1104	QK	3.1	1	8.3	2	1.2	1	0.372	0	2.552	1	6.857	1	1983	50	1.2
45093.4	10000	41.2871	93.3735	-1102	QK	3.5	2	7.9	1	1.2	0	0.440	1	2.968	1	6.746	0	1985	53	1.2
45093.3	10000	41.2872	93.3726	-1100	QK	3.2	1	8.0	1	1.2	0	0.394	1	2.738	1	6.951	1	1973	38	1.2
45093.2	10000	41.2872	93.3718	-1099	QK	3.0	1	8.2	1	1.2	1	0.366	0	2.430	0	6.635	0	1959	50	1.2
45093.1	10000	41.2872	93.3710	-1097	QK	3.3	2	7.6	1	1.2	1	0.435	1	2.720	1	6.258	0	1961	53	1.2
45093.0	10000	41.2872	93.3702	-1096	QK	3.2	1	7.6	1	1.2	1	0.417	1	2.619	1	6.274	0	1949	41	1.2
45092.9	10000	41.2872	93.3693	-1096	QK	2.9	1	7.2	0	1.2	1	0.400	1	2.398	0	5.988	-1	1940	54	1.2
45092.8	10000	41.2872	93.3685	-1095	QK	2.8	1	7.3	0	1.2	1	0.381	0	2.299	0	6.032	-1	1940	38	1.3
45092.7	10000	41.2872	93.3677	-1094	QK	2.4	0	7.5	0	1.2	1	0.322	0	2.020	-1	6.268	0	1928	36	1.3
45092.6	10000	41.2872	93.3669	-1094	QK	2.6	0	7.3	0	1.2	0	0.360	0	2.231	0	6.203	0	1914	34	1.3
45092.5	10000	41.2872	93.3660	-1093	QK	2.7	0	6.9	0	1.1	0	0.387	1	2.388	0	6.167	0	1900	43	1.3
45092.4	10000	41.2872	93.3652	-1093	QK	2.4	0	6.9	-1	1.1	0	0.352	0	2.243	0	6.378	0	1886	44	1.3
45092.3	10000	41.2872	93.3644	-1091	QK	2.5	0	6.9	0	1.1	0	0.359	0	2.195	0	6.113	-1	1879	41	1.3
45092.2	10000	41.2872	93.3636	-1091	QK	2.6	0	7.0	0	1.2	0	0.367	0	2.236	0	6.091	-1	1878	54	1.3
45092.1	10000	41.2872	93.3627	-1093	QK	2.6	0	6.6	-1	1.2	0	0.388	1	2.213	0	5.702	-1	1857	44	1.3
45092.0	10000	41.2872	93.3619	-1096	QK	2.6	0	6.4	-1	1.1	0	0.407	1	2.269	0	5.575	-1	1826	42	1.3
45091.9	10000	41.2873	93.3611	-1097	QK	2.4	0	6.3	-1	1.2	0	0.386	0	2.110	0	5.465	-1	1808	48	1.3
45091.8	10000	41.2873	93.3603	-1098	QK	2.4	0	6.6	-1	1.2	0	0.369	0	2.077	0	5.624	-1	1815	45	1.3
45091.7	10000	41.2873	93.3595	-1099	QK	2.4	0	6.9	-1	1.2	0	0.350	0	1.983	-1	5.660	-1	1818	52	1.3
45091.6	10000	41.2873	93.3586	-1101	QK	2.4	0	7.0	0	1.2	0	0.337	0	1.989	-1	5.907	-1	1831	37	1.3
45091.5	10000	41.2873	93.3578	-1102	QK	2.4	0	7.3	0	1.2	0	0.320	0	2.007	-1	6.272	0	1844	33	1.3
45091.4	10000	41.2873	93.3570	-1103	QK	2.3	0	7.8	0	1.2	0	0.300	-1	1.938	-1	6.465	0	1881	39	1.3
45091.3	10000	41.2873	93.3561	-1105	QK	2.5	0	8.2	0	1.2	0	0.300	-1	1.940	-1	6.461	0	1911	59	1.3
45091.2	10000	41.2873	93.3553	-1107	QK	2.7	0	8.0	0	1.2	0	0.333	0	2.016	-1	6.057	-1	1940	38	1.3
45091.1	10000	41.2873	93.3545	-1108	QK	2.6	0	7.8	0	1.2	0	0.321	0	1.934	-1	6.021	-1	1952	55	1.3
45091.0	10000	41.2873	93.3537	-1110	QK	2.7	0	8.0	0	1.2	0	0.344	0	2.000	-1	5.822	-1	1956	43	1.3
45090.9	10000	41.2873	93.3528	-1111	QK	2.6	0	7.9	0	1.2	0	0.325	0	1.939	-1	5.962	-1	1953	42	1.3
45090.8	10000	41.2873	93.3520	-1113	QK	2.6	0	7.7	0	1.2	0	0.322	0	1.899	-1	5.899	-1	1940	39	1.3
45090.7	10000	41.2874	93.3512	-1114	QK	2.6	0	7.7	0	1.2	0	0.330	0	1.899	-1	5.760	-1	1933	36	1.3
45090.6	10000	41.2874	93.3504	-1115	QK	2.6	0	7.8	0	1.2	0	0.338	0	1.927	-1	5.701	-1	1944	43	1.3
45090.5	10000	41.2874	93.3495	-1117	QK	2.4	0	8.1	1	1.2	0	0.302	-1	1.791	-1	5.921	-1	1934	42	1.3
45090.4	10000	41.2874	93.3487	-1118	QK	2.3	0	8.4	1	1.2	0	0.280	-1	1.724	-1	6.162	0	1929	44	1.3
45090.3	10000	41.2874	93.3479	-1119	QK	2.0	-1	8.2	1	1.2	0	0.239	-2	1.509	-2	6.313	0	1920	49	1.3
45090.2	10000	41.2874	93.3471	-1120	QK	2.1	-1	8.3	1	1.2	0	0.252	-1	1.614	-1	6.411	0	1913	49	1.3
45090.1	10000	41.2874	93.3463	-1120	QK	2.0	-1	8.3	1	1.2	0	0.240	-2	1.561	-1	6.511	0	1909	31	1.3
45090.0	10000	41.2874	93.3454	-1121	QK	2.1	-1	8.5	1	1.2	0	0.245	-1	1.685	-1	6.875	1	1901	43	1.3
45089.9	10000	41.2874	93.3446	-1122	QK	2.1	-1	8.7	1	1.2	0	0.237	-2	1.680	-1	7.075	1	1895	45	1.3
45089.8	10000	41.2874	93.3438	-1123	QK	2.2	-1	8.6	1	1.2	0	0.237	-2	1.810	-1	7.626	2	1905	45	1.3
45089.7	10000	41.2874	93.3430	-1123	QK	2.5	-1	8.5	1	1.2	0	0.255	-1	1.977	-1	7.751	2	1912	41	1.3
45089.6	10000	41.2874	93.3421	-1124	QK	2.7	-1	8.6	1	1.2	0	0.303	-1	2.399	0	7.915	2	1919	51	1.3
45089.5	10000	41.2874	93.3413	-1124	QK	2.7	-1	8.6	1	1.2	0	0.320	0	2.463	0	7.699	2	1939	55	1.3
45089.4	10000	41.2875	93.3405	-1124	QK	2.7	-1	8.6	1	1.2	0	0.327	0	2.479	0	7.583	2	1940	44	1.4
45089.3	10000	41.2875	93.3397	-1124	QK	2.9	-1	8.6	1	1.2	0	0.352	0	2.684	1	7.615	2	1945	43	1.4
45089.2	10000	41.2875	93.3388	-1124	QK	2.6	-1	8.3	1	1.2	0	0.313	-1	2.392	0	7.650	2	1954	46	1.4
45089.1	10000	41.2875	93.3380	-1124	QK	2.6	-1	8.4	1	1.2	0	0.285	-1	2.220	0	7.791	2	1958	45	1.4
45089.0	10000	41.2875	93.3372	-1124	QK	2.6	0	8.7	2	1.2	0	0.303	-1	2.289	0	7.557	2	1954	56	1.4

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45088.9	10000	41.2875	93.3363	-1123	QK	2.8	1	8.5	2	1.2	1	0.324	0	2.319	0	7.158	1	1953	38	1.4
45088.8	10000	41.2875	93.3355	-1123	QK	2.6	0	8.1	1	1.1	0	0.320	0	2.277	0	7.111	1	1945	42	1.4
45088.7	10000	41.2875	93.3347	-1124	QK	2.8	1	8.1	1	1.2	0	0.345	0	2.412	0	6.984	1	1963	45	1.4
45088.6	10000	41.2875	93.3339	-1123	QK	2.7	0	8.3	1	1.2	1	0.320	0	2.241	0	7.003	1	1992	48	1.4
45088.5	10000	41.2875	93.3331	-1124	QK	3.0	1	7.9	1	1.2	0	0.374	0	2.538	1	6.790	0	1998	47	1.4
45088.4	10000	41.2875	93.3322	-1124	QK	3.1	1	7.5	0	1.2	1	0.415	1	2.599	1	6.267	0	2003	47	1.4
45088.3	10000	41.2875	93.3314	-1123	QK	3.1	1	7.5	0	1.2	1	0.419	1	2.573	1	6.145	0	2009	43	1.4
45088.2	10000	41.2876	93.3306	-1123	QK	3.1	1	7.9	1	1.2	1	0.395	1	2.487	0	6.304	0	2007	51	1.4
45088.1	10000	41.2876	93.3298	-1123	QK	3.2	1	8.0	1	1.3	1	0.403	1	2.519	1	6.255	0	2022	46	1.4
45088.0	10000	41.2876	93.3289	-1123	QK	3.0	1	7.8	1	1.3	1	0.390	1	2.353	0	6.032	-1	2012	52	1.4
45087.9	10000	41.2876	93.3281	-1123	QK	3.0	1	7.6	1	1.3	2	0.396	1	2.323	0	5.866	-1	1987	40	1.4
45087.8	10000	41.2876	93.3273	-1123	QK	3.0	1	7.6	1	1.3	2	0.397	1	2.276	0	5.738	-1	1975	43	1.4
45087.7	10000	41.2876	93.3265	-1123	QK	2.9	1	7.2	0	1.3	1	0.408	1	2.267	0	5.557	-1	1970	57	1.4
45087.6	10000	41.2876	93.3256	-1123	QK	2.8	1	7.6	0	1.3	1	0.366	0	2.145	0	5.861	-1	1967	45	1.4
45087.5	10000	41.2876	93.3248	-1123	QK	2.4	0	7.6	0	1.3	1	0.321	0	1.937	-1	6.030	-1	1975	39	1.4
45087.4	10000	41.2876	93.3240	-1123	QK	2.5	0	7.6	0	1.3	1	0.326	0	1.966	-1	6.025	-1	1967	37	1.4
45087.3	10000	41.2876	93.3232	-1122	QK	2.6	0	7.9	1	1.2	1	0.323	0	2.069	0	6.396	0	1978	58	1.4
45087.2	10000	41.2876	93.3223	-1122	QK	2.6	0	8.1	1	1.3	1	0.316	0	2.019	-1	6.393	0	1980	50	1.4
45087.1	10000	41.2876	93.3215	-1122	QK	2.6	0	8.4	2	1.3	1	0.311	-1	2.072	0	6.665	0	1972	42	1.4
45087.0	10000	41.2876	93.3207	-1121	QK	2.6	0	8.7	2	1.3	1	0.297	-1	2.059	0	6.937	1	1978	59	1.4
45086.9	10000	41.2877	93.3199	-1121	QK	2.7	0	8.5	2	1.3	1	0.315	-1	2.115	0	6.724	0	1986	45	1.3
45086.8	10000	41.2877	93.3190	-1121	QK	2.5	0	8.8	2	1.3	1	0.284	-1	1.950	-1	6.878	1	2000	44	1.3
45086.7	10000	41.2877	93.3182	-1121	QK	2.3	0	8.7	2	1.3	1	0.267	-1	1.794	-1	6.721	0	1998	36	1.3
45086.6	10000	41.2877	93.3174	-1121	QK	2.2	-1	8.6	2	1.3	1	0.261	-1	1.746	-1	6.692	0	1981	41	1.3
45086.5	10000	41.2877	93.3166	-1121	QK	2.2	-1	8.5	2	1.2	1	0.255	-1	1.742	-1	6.819	0	1985	42	1.3
45086.4	10000	41.2877	93.3157	-1120	QK	1.8	-1	8.4	2	1.3	1	0.217	-2	1.441	-2	6.631	0	2003	44	1.3
45086.3	10000	41.2877	93.3149	-1120	QK	1.8	-1	8.3	2	1.3	1	0.220	-2	1.463	-2	6.652	0	2008	30	1.3
45086.2	10000	41.2877	93.3141	-1119	QK	2.1	-1	8.7	2	1.2	1	0.242	-2	1.706	-1	7.044	1	2021	40	1.3
45086.1	10000	41.2877	93.3133	-1119	QK	2.5	0	8.5	2	1.2	1	0.300	-1	2.056	0	6.861	1	2024	37	1.3
45086.0	10000	41.2877	93.3124	-1119	QK	2.6	0	8.5	2	1.2	1	0.306	-1	2.162	0	7.070	1	2023	43	1.3
45085.9	10000	41.2877	93.3116	-1118	QK	2.8	1	8.7	2	1.2	1	0.322	0	2.339	0	7.259	1	2037	40	1.3
45085.8	10000	41.2877	93.3108	-1118	QK	2.8	1	8.5	2	1.1	1	0.335	0	2.492	0	7.442	1	2029	45	1.3
45085.7	10000	41.2877	93.3100	-1118	QK	3.2	1	8.4	2	1.1	1	0.380	1	2.926	2	7.697	2	2021	42	1.3
45085.6	10000	41.2877	93.3091	-1117	QK	3.2	1	9.0	2	1.1	0	0.354	1	2.984	2	8.421	3	1999	51	1.3
45085.5	10000	41.2878	93.3083	-1117	QK	3.1	1	8.6	2	1.0	-1	0.356	1	3.044	2	8.541	3	1955	36	1.3
45085.4	10000	41.2878	93.3075	-1116	QK	3.0	1	8.5	2	1.0	-1	0.357	1	3.098	2	8.684	3	1917	43	1.3
45085.3	10000	41.2878	93.3067	-1113	QK	3.0	1	8.4	2	1.0	-1	0.355	1	3.013	2	8.488	3	1906	46	1.3
45085.2	10000	41.2878	93.3058	-1114	QK	2.9	1	8.4	2	1.0	-1	0.349	1	2.809	1	8.047	2	1897	46	1.3
45085.1	10000	41.2878	93.3050	-1115	QK	3.0	1	8.3	2	1.0	-1	0.356	1	2.850	1	8.017	2	1894	39	1.3
45085.0	10000	41.2878	93.3042	-1114	QK	3.1	1	8.4	2	1.0	-1	0.372	1	2.978	2	8.001	2	1907	47	1.3
45084.9	10000	41.2878	93.3034	-1113	QK	3.1	1	7.8	1	1.1	0	0.405	1	2.879	1	7.116	1	1932	39	1.3
45084.8	10000	41.2878	93.3026	-1112	QK	3.3	1	7.5	1	1.2	0	0.447	1	2.845	1	6.359	0	1975	35	1.3
45084.7	10000	41.2878	93.3017	-1111	QK	3.5	2	7.4	1	1.2	0	0.477	1	3.028	2	6.353	0	2023	51	1.3
45084.6	10000	41.2878	93.3009	-1110	QK	3.7	2	7.5	1	1.1	0	0.498	1	3.306	2	6.638	0	2044	37	1.3
45084.5	10000	41.2878	93.3001	-1109	QK	4.2	3	7.3	1	1.1	0	0.571	2	3.874	3	6.780	0	2065	38	1.3
45084.4	10000	41.2878	93.2993	-1108	QK	4.2	3	7.5	1	1.1	0	0.572	2	3.764	3	6.562	0	2084	49	1.3
45084.3	10000	41.2878	93.2984	-1107	QK	4.2	3	7.5	1	1.1	0	0.556	2	3.764	3	6.774	0	2079	41	1.3
45084.2	10000	41.2879	93.2976	-1106	QK	4.4	4	7.4	1	1.1	0	0.586	2	3.912	3	6.671	0	2081	48	1.3
45084.1	10000	41.2879	93.2968	-1105	QK	4.4	4	7.7	1	1.1	1	0.571	2	3.857	3	6.757	0	2080	53	1.3
45084.0	10000	41.2879	93.2959	-1104	QK	4.2	3	7.9	1	1.2	1	0.533	2	3.664	3	6.873	1	2081	39	1.3
45083.9	10000	41.2879	93.2951	-1102	QK	4.1	3	7.9	1	1.2	1	0.522	2	3.498	3	6.703	0	2080	41	1.3
45083.8	10000	41.2879	93.2943	-1101	QK	3.7	2	8.0	1	1.2	1	0.458	1	3.071	2	6.704	0	2084	48	1.3

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45083.7	10000	41.2879	93.2935	-1099	QK	3.7	2	8.1	1	1.2	1	0.454	1	2.965	1	6.533	0	2096	36	1.3
45083.6	10000	41.2879	93.2926	-1098	QK	3.6	2	8.0	1	1.2	1	0.446	1	2.919	1	6.541	0	2122	40	1.3
45083.5	10000	41.2879	93.2918	-1096	QK	3.5	2	8.5	2	1.3	1	0.406	1	2.758	1	6.790	0	2148	41	1.3
45083.4	10000	41.2879	93.2910	-1095	QK	3.3	2	8.8	2	1.3	1	0.382	0	2.656	1	6.948	1	2158	51	1.3
45083.3	10000	41.2879	93.2902	-1094	QK	3.4	2	8.3	1	1.3	1	0.411	1	2.715	1	6.611	0	2146	49	1.3
45083.2	10000	41.2879	93.2894	-1093	QK	3.4	2	8.7	2	1.3	1	0.395	1	2.699	1	6.840	1	2134	46	1.2
45083.1	10000	41.2879	93.2885	-1092	QK	3.5	2	8.7	2	1.2	1	0.398	1	2.781	1	6.987	1	2113	46	1.2
45083.0	10000	41.2879	93.2877	-1090	QK	3.3	2	8.6	2	1.2	1	0.384	0	2.711	1	7.060	1	2084	53	1.2
45082.9	10000	41.2879	93.2869	-1088	QK	3.2	1	8.7	2	1.3	1	0.364	0	2.491	0	6.847	1	2049	49	1.2
45082.8	10000	41.2880	93.2861	-1087	QK	2.9	1	8.5	2	1.3	1	0.345	0	2.323	0	6.726	0	2008	42	1.2
45082.7	10000	41.2880	93.2852	-1085	QK	2.6	0	8.4	2	1.3	1	0.316	0	2.040	0	6.456	0	1983	45	1.2
45082.6	10000	41.2880	93.2844	-1083	QK	2.5	0	8.8	2	1.3	2	0.284	-1	1.890	-1	6.654	0	1966	47	1.2
45082.5	10000	41.2880	93.2836	-1082	QK	2.4	0	8.5	1	1.3	2	0.288	-1	1.792	-1	6.218	0	1965	52	1.2
45082.4	10000	41.2880	93.2828	-1081	QK	2.3	0	8.2	1	1.3	2	0.286	-1	1.752	-1	6.123	-1	1978	46	1.2
45082.3	10000	41.2880	93.2819	-1079	QK	2.5	0	8.1	1	1.4	2	0.306	-1	1.783	-1	5.818	-1	1986	41	1.2
45082.2	10000	41.2880	93.2811	-1078	QK	2.5	0	7.7	1	1.4	2	0.325	0	1.843	-1	5.674	-1	1977	53	1.2
45082.1	10000	41.2880	93.2803	-1077	QK	2.5	0	7.3	0	1.3	2	0.349	0	1.923	-1	5.511	-1	1974	48	1.2
45082.0	10000	41.2880	93.2795	-1076	QK	2.7	0	7.1	0	1.2	1	0.385	0	2.190	0	5.683	-1	1968	40	1.2
45081.9	10000	41.2880	93.2786	-1075	QK	2.9	1	7.1	0	1.3	1	0.407	1	2.285	0	5.612	-1	1970	37	1.2
45081.8	10000	41.2880	93.2778	-1073	QK	3.0	1	7.3	0	1.3	1	0.414	1	2.352	0	5.684	-1	1961	42	1.2
45081.7	10000	41.2880	93.2770	-1072	QK	2.9	1	6.9	0	1.3	2	0.425	1	2.230	0	5.247	-2	1942	49	1.2
45081.6	10000	41.2880	93.2762	-1072	QK	3.0	1	7.0	0	1.3	1	0.429	1	2.382	0	5.551	-1	1943	51	1.2
45081.5	10000	41.2880	93.2753	-1072	QK	3.0	1	7.1	0	1.2	1	0.418	1	2.396	0	5.737	-1	1953	41	1.2
45081.4	10000	41.2880	93.2745	-1071	QK	3.1	1	7.3	0	1.2	1	0.431	1	2.548	1	5.909	-1	1974	46	1.2
45081.3	10000	41.2880	93.2737	-1071	QK	3.1	1	7.5	0	1.2	1	0.418	1	2.537	1	6.074	-1	1998	47	1.2
45081.2	10000	41.2880	93.2729	-1070	QK	3.2	1	7.3	0	1.3	1	0.441	1	2.554	1	5.796	-1	2039	48	1.2
45081.1	10000	41.2880	93.2720	-1071	QK	3.1	1	7.4	0	1.2	1	0.413	1	2.462	0	5.955	-1	2059	55	1.2
45081.0	10000	41.2880	93.2712	-1072	QK	3.3	2	7.8	1	1.2	1	0.427	1	2.831	1	6.634	0	2077	40	1.1
45080.9	10000	41.2880	93.2704	-1072	QK	3.0	1	8.0	1	1.2	1	0.381	1	2.515	1	6.595	0	2082	50	1.1
45080.8	10000	41.2880	93.2695	-1073	QK	3.1	1	7.9	1	1.2	1	0.389	1	2.555	1	6.573	0	2082	39	1.1
45080.7	10000	41.2880	93.2687	-1074	QK	3.0	1	7.7	1	1.2	1	0.391	1	2.469	0	6.307	0	2062	38	1.1
45080.6	10000	41.2879	93.2679	-1074	QK	3.1	1	7.9	1	1.2	1	0.395	1	2.546	1	6.442	0	2043	53	1.1
45080.5	10000	41.2879	93.2671	-1075	QK	3.0	1	7.9	1	1.2	1	0.384	0	2.586	1	6.732	0	1994	38	1.1
45080.4	10000	41.2879	93.2663	-1076	QK	3.3	2	8.0	1	1.1	1	0.411	1	2.914	1	7.096	1	1960	43	1.1
45080.3	10000	41.2879	93.2654	-1077	QK	2.9	1	7.8	1	1.2	1	0.367	0	2.450	1	6.670	0	1945	38	1.1
45080.2	10000	41.2879	93.2646	-1079	QK	2.9	1	7.8	1	1.2	1	0.374	0	2.479	1	6.634	0	1917	41	1.1
45080.1	10000	41.2879	93.2638	-1080	QK	2.8	1	7.9	1	1.2	1	0.350	0	2.266	1	6.475	0	1908	36	1.1
45080.0	10000	41.2879	93.2629	-1080	QK	2.6	0	8.1	1	1.2	1	0.324	0	2.106	0	6.507	0	1911	43	1.1
45079.9	10000	41.2879	93.2621	-1082	QK	2.3	-1	7.8	1	1.3	1	0.290	-1	1.766	-1	6.098	-1	1896	43	1.1
45079.8	10000	41.2879	93.2613	-1082	QK	2.1	-1	7.8	1	1.3	2	0.264	-1	1.560	-1	5.909	-1	1889	45	1.1
45079.7	10000	41.2879	93.2605	-1083	QK	1.8	-1	8.0	1	1.4	2	0.229	-2	1.339	-2	5.844	-1	1916	38	1.1
45079.6	10000	41.2879	93.2596	-1084	QK	1.9	-1	7.9	1	1.3	2	0.246	-1	1.446	-2	5.881	-1	1923	41	1.1
45079.5	10000	41.2879	93.2588	-1085	QK	2.0	-1	7.7	1	1.3	2	0.265	-1	1.596	-1	6.031	-1	1950	43	1.1
45079.4	10000	41.2879	93.2580	-1086	QK	2.4	0	7.9	1	1.3	2	0.299	-1	1.835	-1	6.147	0	1957	52	1.1
45079.3	10000	41.2879	93.2572	-1087	QK	2.6	0	8.0	1	1.2	1	0.326	0	2.131	0	6.545	0	1957	41	1.1
45079.2	10000	41.2879	93.2563	-1088	QK	2.9	1	8.0	1	1.2	1	0.362	0	2.412	0	6.666	0	1978	49	1.1
45079.1	10000	41.2879	93.2555	-1089	QK	3.1	1	8.1	1	1.2	1	0.382	0	2.709	1	7.095	1	2003	40	1.1
45079.0	10000	41.2879	93.2547	-1090	QK	3.2	1	7.9	1	1.2	1	0.399	1	2.690	1	6.738	0	2012	32	1.1
45078.9	10000	41.2878	93.2538	-1091	QK	3.3	1	8.2	2	1.2	1	0.372	0	2.700	1	7.263	1	2041	40	1.1
45078.8	10000	41.2878	93.2530	-1092	QK	3.4	1	8.5	2	1.2	1	0.356	0	2.722	1	7.652	2	2055	46	1.1
45078.7	10000	41.2878	93.2522	-1093	QK	3.4	1	8.9	2	1.2	1	0.382	0	2.888	1	7.567	2	2074	43	1.1
45078.6	10000	41.2878	93.2514	-1094	QK	3.5	2	9.0	2	1.2	1	0.386	0	2.938	1	7.608	2	2082	50	1.1

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45078.5	10000	41.2878	93.2505	-1094	QK	3.5	2	8.9	2	1.2	1	0.388	1	2.876	1	7.404	1	2080	50	1.1
45078.4	10000	41.2878	93.2497	-1095	QK	3.3	2	8.5	2	1.2	1	0.385	0	2.743	1	7.122	1	2065	55	1.1
45078.3	10000	41.2878	93.2489	-1096	QK	3.3	2	8.6	2	1.2	0	0.381	0	2.782	1	7.302	1	2046	47	1.1
45078.2	10000	41.2878	93.2481	-1097	QK	3.3	2	8.4	2	1.2	1	0.390	1	2.723	1	6.986	1	2016	45	1.1
45078.1	10000	41.2878	93.2472	-1098	QK	3.1	1	7.7	1	1.2	1	0.398	1	2.499	0	6.284	0	1984	33	1.1
45078.0	10000	41.2878	93.2464	-1099	QK	2.8	1	7.9	1	1.3	1	0.352	0	2.206	0	6.266	0	1961	43	1.1
45077.9	10000	41.2878	93.2456	-1099	QK	2.7	0	7.9	1	1.3	1	0.342	0	2.147	0	6.281	0	1969	49	1.1
45077.8	10000	41.2878	93.2448	-1099	QK	2.8	0	8.1	1	1.2	1	0.341	0	2.268	0	6.643	0	1972	43	1.1
45077.7	10000	41.2878	93.2439	-1100	QK	2.8	0	8.2	1	1.2	1	0.335	0	2.253	0	6.715	0	1983	42	1.1
45077.6	10000	41.2878	93.2431	-1100	QK	2.9	1	8.4	2	1.2	0	0.350	0	2.525	1	7.211	1	2004	46	1.1
45077.5	10000	41.2878	93.2423	-1101	QK	3.2	1	8.1	1	1.1	0	0.399	1	3.049	2	7.639	2	2002	35	1.1
45077.4	10000	41.2878	93.2415	-1101	QK	3.6	2	8.8	2	1.0	-1	0.413	1	3.519	3	8.522	3	2028	42	1.1
45077.3	10000	41.2878	93.2406	-1100	QK	3.4	2	9.1	2	1.0	-1	0.377	0	3.390	2	8.995	4	2049	41	1.1
45077.2	10000	41.2878	93.2398	-1099	QK	3.5	2	8.6	2	1.0	-1	0.401	1	3.377	2	8.419	3	2034	23	1.1
45077.1	10000	41.2878	93.2390	-1101	QK	3.5	2	8.4	2	1.0	-1	0.422	1	3.493	3	8.271	3	2035	35	1.1
45077.0	10000	41.2877	93.2382	-1105	QK	3.7	2	8.6	2	1.0	-1	0.430	1	3.670	3	8.535	3	2054	47	1.1
45076.9	10000	41.2877	93.2373	-1106	QK	3.8	3	8.3	2	1.1	0	0.458	1	3.435	2	7.500	1	2051	38	1.1
45076.8	10000	41.2877	93.2365	-1103	QK	3.5	2	8.4	2	1.2	1	0.418	1	2.939	1	7.026	1	2069	37	1.1
45076.7	10000	41.2877	93.2357	-1100	QK	3.1	1	8.0	1	1.2	1	0.392	1	2.520	1	6.426	0	2064	43	1.1
45076.6	10000	41.2877	93.2348	-1097	QK	3.5	2	7.6	1	1.3	1	0.452	1	2.685	1	5.941	-1	2064	41	1.2
45076.5	10000	41.2877	93.2340	-1095	QK	3.5	2	8.3	1	1.3	1	0.419	1	2.778	1	6.629	0	2086	46	1.2
45076.4	10000	41.2877	93.2332	-1094	QK	3.4	2	8.5	2	1.3	2	0.406	1	2.652	1	6.535	0	2102	43	1.2
45076.3	10000	41.2877	93.2324	-1092	QK	3.6	2	8.5	2	1.3	2	0.424	1	2.751	1	6.484	0	2090	41	1.2
45076.2	10000	41.2877	23.2316	-1090	QK	3.5	2	8.8	2	1.2	1	0.405	1	2.838	1	7.014	1	2097	34	1.2
45076.1	10000	41.2877	93.2307	-1089	QK	3.4	2	8.3	1	1.2	1	0.417	1	2.821	1	6.769	1	2092	44	1.2
45076.0	10000	41.2877	93.2299	-1091	QK	3.7	2	8.1	1	1.2	1	0.460	2	3.070	1	6.669	1	2098	36	1.2
45075.9	10000	41.2877	93.2291	-1093	QK	3.7	2	8.3	1	1.2	1	0.446	2	3.092	1	6.938	1	2103	43	1.2
45075.8	10000	41.2877	93.2282	-1092	QK	3.5	2	7.8	1	1.2	1	0.456	1	2.887	1	6.331	1	2096	35	1.2
45075.7	10000	41.2877	93.2274	-1091	QK	3.4	2	8.0	1	1.2	1	0.421	1	2.767	1	6.570	1	2080	56	1.2
45075.6	10000	41.2877	93.2266	-1088	QK	3.9	1	8.2	1	1.2	1	0.356	0	2.478	1	6.962	1	2062	43	1.2
45075.5	10000	41.2877	93.2258	-1087	QK	3.8	1	8.4	1	1.2	1	0.336	0	2.362	1	7.023	1	2046	54	1.2
45075.4	10000	41.2877	93.2249	-1085	QK	3.8	1	8.8	1	1.3	1	0.324	0	2.274	1	7.024	1	2039	45	1.3
45075.3	10000	41.2877	93.2241	-1084	QK	3.6	1	8.9	1	1.2	1	0.295	-1	2.113	1	7.158	1	2022	42	1.3
45075.2	10000	41.2876	93.2233	-1083	QK	3.6	1	8.9	1	1.2	1	0.291	-1	2.088	1	7.183	1	1986	44	1.3
45075.1	10000	41.2876	93.2225	-1082	QK	3.4	1	9.0	1	1.3	1	0.262	-1	1.916	-1	7.310	1	1969	37	1.3
45075.0	10000	41.2876	93.2216	-1081	QK	3.4	1	8.9	1	1.3	1	0.266	-1	1.879	-1	7.072	1	1958	45	1.3
45074.9	10000	41.2876	93.2208	-1080	QK	3.5	1	8.3	1	1.3	1	0.295	-1	1.919	-1	6.517	0	1953	36	1.3
45074.8	10000	41.2876	93.2200	-1079	QK	3.3	1	7.9	1	1.3	1	0.290	-1	1.787	-1	6.161	0	1943	34	1.3
45074.7	10000	41.2876	93.2192	-1078	QK	3.3	0	7.9	1	1.3	1	0.288	-1	1.831	-1	6.366	0	1931	35	1.3
45074.6	10000	41.2876	93.2183	-1077	QK	3.3	0	8.0	1	1.3	1	0.287	-1	1.879	-1	6.543	0	1920	35	1.3
45074.5	10000	41.2876	93.2175	-1076	QK	3.0	-1	7.9	1	1.2	1	0.257	-1	1.666	-1	6.494	0	1920	51	1.3
45074.4	10000	41.2876	93.2167	-1075	QK	3.1	-1	7.9	1	1.2	1	0.264	-1	1.739	-1	6.599	0	1909	52	1.3
45074.3	10000	41.2876	93.2159	-1073	QK	3.2	-1	7.6	1	1.2	1	0.286	-1	1.866	-1	6.521	0	1896	32	1.4
45074.2	10000	41.2876	93.2150	-1072	QK	3.1	-1	7.6	1	1.2	1	0.279	-1	1.831	-1	6.552	0	1874	41	1.4
45074.1	10000	41.2876	93.2142	-1070	QK	3.3	-1	7.9	1	1.2	1	0.292	-1	2.013	-1	6.886	1	1870	44	1.4
45074.0	10000	41.2876	93.2134	-1069	QK	3.2	-1	7.9	1	1.1	1	0.277	-1	1.959	-1	7.060	1	1850	39	1.4
45073.9	10000	41.2876	93.2126	-1067	QK	3.1	-1	7.7	1	1.1	1	0.267	-1	1.841	-1	6.883	1	1840	48	1.4
45073.8	10000	41.2876	93.2117	-1066	QK	3.2	-1	7.5	1	1.1	2	0.288	-1	1.885	-1	6.543	0	1849	47	1.4
45073.7	10000	41.2876	93.2109	-1063	QK	3.3	-1	7.5	1	1.1	2	0.310	-1	1.874	-1	6.036	-1	1856	29	1.4
45073.6	10000	41.2875	93.2101	-1063	QK	3.2	-1	7.7	1	1.1	2	0.307	-1	1.954	-1	6.361	0	1889	40	1.4
45073.5	10000	41.2875	93.2092	-1061	QK	3.4	0	7.7	1	1.2	2	0.314	-1	2.017	-1	6.430	0	1914	41	1.4
45073.4	10000	41.2875	93.2084	-1059	QK	2.4	0	7.0	0	1.2	1	0.336	0	1.932	-1	5.743	-1	1932	36	1.4

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45073.3	10000	41.2875	93.2076	-1057	QK	2.7	0	7.0	0	1.3	1	0.384	0	2.138	0	5.572	-1	1979	40	1.5
45073.2	10000	41.2875	93.2068	-1055	QK	2.8	1	7.1	0	1.3	1	0.403	1	2.189	0	5.435	-1	2003	54	1.5
45073.1	10000	41.2875	93.2059	-1053	QK	2.9	1	7.3	0	1.2	1	0.403	1	2.398	0	5.953	-1	2022	61	1.5
45073.0	10000	41.2875	93.2051	-1051	QK	2.9	1	7.9	1	1.2	1	0.370	0	2.403	0	6.501	0	2047	41	1.5
45072.9	10000	41.2875	93.2043	-1049	QK	2.8	1	8.0	1	1.2	1	0.347	0	2.294	0	6.611	0	2024	39	1.5
45072.8	10000	41.2875	93.2035	-1047	QK	3.1	1	7.7	1	1.2	1	0.403	1	2.634	1	6.538	0	2031	39	1.5
45072.7	10000	41.2875	93.2026	-1045	QK	3.0	1	7.9	1	1.1	0	0.380	0	2.630	1	6.929	1	2031	43	1.5
45072.6	10000	41.2875	93.2018	-1044	QK	2.8	0	7.8	1	1.1	0	0.351	0	2.497	0	7.121	1	2004	44	1.5
45072.5	10000	41.2875	93.2010	-1042	QK	3.0	1	7.6	1	1.0	-1	0.388	1	2.834	1	7.301	1	1996	42	1.5
45072.4	10000	41.2875	93.2002	-1038	QK	3.1	1	7.6	0	1.1	0	0.416	1	2.923	1	7.019	1	1981	49	1.5
45072.3	10000	41.2875	93.1993	-1034	QK	3.1	1	7.1	0	1.1	0	0.443	1	2.937	1	6.624	0	1953	45	1.5
45072.2	10000	41.2875	93.1985	-1032	QK	2.9	1	6.7	-1	1.1	0	0.438	1	2.684	1	6.128	-1	1955	49	1.5
45072.1	10000	41.2875	93.1977	-1029	QK	2.6	0	7.1	0	1.1	0	0.367	0	2.434	0	6.630	0	1943	39	1.5
45072.0	10000	41.2875	93.1969	-1027	QK	2.7	0	7.2	0	1.1	0	0.374	0	2.528	1	6.759	0	1922	43	1.5
45071.9	10000	41.2874	93.1960	-1024	WATER	2.6	999	7.1	999	1.1	999	0.370	999	2.448	999	6.612	999	1918	42	1.6
45071.8	10000	41.2874	93.1952	-1020	WATER	2.5	999	7.3	999	1.1	999	0.340	999	2.286	999	6.723	999	1918	36	1.6
45071.7	10000	41.2874	93.1944	-1017	WATER	2.4	999	7.7	999	1.1	999	0.309	999	2.103	999	6.813	999	1936	51	1.6
45071.6	10000	41.2874	93.1936	-1014	WATER	2.4	999	8.0	999	1.1	999	0.297	999	2.174	999	7.321	999	1941	42	1.6
45071.5	10000	41.2874	93.1927	-1011	WATER	2.6	999	8.0	999	1.1	999	0.318	999	2.332	999	7.344	999	1952	59	1.6
45071.4	10000	41.2874	93.1919	-1008	WATER	2.6	999	8.2	999	1.1	999	0.315	999	2.265	999	7.191	999	1964	49	1.6
45071.3	10000	41.2874	93.1911	-1005	WATER	2.6	999	8.3	999	1.2	999	0.307	999	2.208	999	7.188	999	1976	43	1.6
45071.2	10000	41.2874	93.1902	-1001	WATER	2.5	999	8.3	999	1.2	999	0.305	999	2.119	999	6.940	999	1994	57	1.6
45071.1	10000	41.2874	93.1894	-997	WATER	2.7	999	8.4	999	1.2	999	0.325	999	2.267	999	6.981	999	1990	37	1.6
45071.0	10000	41.2874	93.1886	-996	WATER	2.6	999	7.9	999	1.1	999	0.329	999	2.272	999	6.912	999	1954	38	1.6
45070.9	10000	41.2874	93.1878	-995	WATER	2.7	999	7.7	999	1.2	999	0.353	999	2.361	999	6.694	999	1932	47	1.6
45070.8	10000	41.2874	93.1870	-994	WATER	2.7	999	7.7	999	1.1	999	0.344	999	2.446	999	7.116	999	1888	39	1.6
45070.7	10000	41.2874	93.1861	-990	WATER	2.7	999	7.5	999	1.0	999	0.357	999	2.563	999	7.171	999	1861	49	1.6
45070.6	10000	41.2874	93.1853	-987	WATER	2.7	999	7.0	999	1.0	999	0.381	999	2.588	999	6.789	999	1840	44	1.6
45070.5	10000	41.2874	93.1845	-983	QK	2.8	1	6.6	-1	1.0	-1	0.428	1	2.728	1	6.370	0	1826	36	1.6
45070.4	10000	41.2873	93.1836	-978	QK	2.7	0	6.2	-1	1.0	-1	0.444	1	2.623	1	5.914	-1	1834	56	1.6
45070.3	10000	41.2873	93.1828	-975	QK	2.6	0	6.7	-1	1.1	0	0.396	1	2.440	0	6.169	0	1841	49	1.6
45070.2	10000	41.2873	93.1820	-973	QK	2.6	0	6.8	-1	1.1	0	0.380	0	2.325	0	6.114	-1	1859	50	1.6
45070.1	10000	41.2873	93.1812	-971	QK	2.5	0	7.3	0	1.2	1	0.338	0	1.998	-1	5.907	-1	1894	39	1.6
45070.0	10000	41.2873	93.1803	-969	QK	2.3	0	7.1	0	1.3	1	0.329	0	1.804	-1	5.475	-1	1915	31	1.6
45069.9	10000	41.2873	93.1795	-967	QK	2.3	0	7.4	0	1.3	2	0.316	0	1.788	-1	5.653	-1	1915	48	1.6
45069.8	10000	41.2873	93.1787	-965	QK	2.4	0	7.7	1	1.3	1	0.309	-1	1.857	-1	6.010	-1	1918	42	1.6
45069.7	10000	41.2873	93.1779	-963	QK	2.2	-1	7.8	1	1.3	1	0.283	-1	1.731	-1	6.120	-1	1891	59	1.6
45069.6	10000	41.2873	93.1770	-962	QK	2.4	0	7.6	1	1.2	1	0.312	-1	1.921	-1	6.151	0	1902	49	1.6
45069.5	10000	41.2873	93.1762	-960	QK	2.2	-1	7.7	1	1.2	1	0.284	-1	1.793	-1	6.306	0	1905	48	1.6
45069.4	10000	41.2873	93.1754	-960	QK	2.5	0	7.2	0	1.2	1	0.342	0	2.066	0	6.042	-1	1922	54	1.6
45069.3	10000	41.2873	93.1746	-959	QK	2.5	0	7.1	0	1.1	0	0.348	0	2.171	0	6.235	0	1931	48	1.6
45069.2	10000	41.2873	93.1737	-958	QK	2.5	0	7.5	0	1.1	0	0.338	0	2.212	0	6.544	0	1958	35	1.6
45069.1	10000	41.2873	93.1729	-958	QK	2.5	0	7.5	0	1.1	0	0.325	0	2.170	0	6.677	0	1965	37	1.6
45069.0	10000	41.2873	93.1721	-958	QK	2.5	0	7.8	0	1.1	0	0.317	0	2.192	0	6.907	1	1994	30	1.6
45068.9	10000	41.2873	93.1712	-956	QK	2.6	0	7.5	0	1.1	0	0.340	0	2.281	0	6.700	0	1995	45	1.6
45068.8	10000	41.2872	93.1704	-955	QK	2.9	1	7.4	0	1.1	0	0.397	1	2.655	1	6.691	0	2004	48	1.6
45068.7	10000	41.2872	93.1696	-952	QK	2.9	1	8.2	1	1.1	0	0.360	0	2.706	1	7.519	1	1996	44	1.6
45068.6	10000	41.2872	93.1687	-952	QK	3.1	1	8.4	2	1.1	0	0.367	0	2.771	1	7.541	2	2000	33	1.6
45068.5	10000	41.2873	93.1679	-953	QK	3.1	1	7.9	1	1.1	1	0.397	1	2.866	1	7.218	1	1988	44	1.6
45068.4	10000	41.2873	93.1671	-954	QK	3.3	2	8.0	1	1.1	1	0.409	1	2.957	1	7.234	1	1999	39	1.6
45068.3	10000	41.2873	93.1662	-953	QK	3.3	2	7.9	1	1.1	1	0.419	1	2.960	1	7.063	1	2017	39	1.6
45068.2	10000	41.2873	93.1653	-952	QK	3.2	1	8.0	1	1.2	1	0.399	1	2.683	1	6.730	0	2040	52	1.6

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45068.1	10000	41.2873	93.1645	-952	QK	3.0	1	8.0	1	1.3	1	0.379	0	2.414	0	6.376	0	2077	49	1.6
45068.0	10000	41.2873	93.1637	-952	QK	3.0	1	7.8	1	1.2	1	0.380	0	2.382	0	6.259	0	2094	44	1.6
45067.9	10000	41.2873	93.1628	-951	QK	2.9	1	8.1	1	1.2	1	0.353	0	2.341	0	6.638	0	2111	41	1.6
45067.8	10000	41.2873	93.1620	-949	QK	2.8	1	8.8	2	1.3	1	0.317	0	2.209	0	6.961	1	2141	47	1.6
45067.7	10000	41.2873	93.1611	-948	QK	2.7	0	8.9	2	1.3	1	0.300	-1	2.068	0	6.901	1	2139	49	1.6
45067.6	10000	41.2873	93.1602	-947	QK	2.7	0	8.8	2	1.3	1	0.311	-1	2.116	0	6.806	0	2116	55	1.6
45067.5	10000	41.2873	93.1594	-946	QK	2.8	1	9.0	2	1.3	1	0.307	-1	2.162	0	7.044	1	2111	36	1.6
45067.4	10000	41.2874	93.1586	-945	QK	2.7	0	8.8	2	1.2	1	0.304	-1	2.222	0	7.315	1	2070	51	1.6
45067.3	10000	41.2874	93.1577	-944	QK	2.7	0	8.6	2	1.2	1	0.317	0	2.248	0	7.087	1	2059	45	1.6
45067.2	10000	41.2874	93.1569	-942	QK	2.8	1	8.2	1	1.2	1	0.339	0	2.298	0	6.774	0	2034	50	1.5
45067.1	10000	41.2874	93.1560	-940	QK	2.8	0	8.4	2	1.2	1	0.329	0	2.299	0	6.988	1	2020	32	1.5
45067.0	10000	41.2874	93.1552	-939	QK	2.8	1	8.6	2	1.2	1	0.323	0	2.347	0	7.267	1	2009	44	1.5
45066.9	10000	41.2874	93.1543	-937	QK	2.6	0	8.6	2	1.2	1	0.302	-1	2.191	0	7.255	1	2008	42	1.5
45066.8	10000	41.2874	93.1535	-936	QK	2.6	0	8.6	2	1.2	0	0.298	-1	2.213	0	7.422	1	1999	66	1.5
45066.7	10000	41.2874	93.1526	-934	QK	2.6	0	9.2	3	1.2	0	0.286	-1	2.234	0	7.819	2	2007	44	1.5
45066.6	10000	41.2874	93.1517	-933	QK	2.5	0	9.6	3	1.1	0	0.255	-1	2.204	0	8.654	3	1994	48	1.5
45066.5	10000	41.2874	93.1509	-931	QK	2.5	0	9.6	3	1.1	0	0.263	-1	2.279	0	8.680	3	2001	49	1.5
45066.4	10000	41.2874	93.1501	-930	QK	2.6	0	9.4	3	1.1	0	0.281	-1	2.418	0	8.595	3	1998	42	1.5
45066.3	10000	41.2875	93.1492	-927	QK	2.5	0	9.1	2	1.1	0	0.281	-1	2.390	0	8.509	3	1989	49	1.5
45066.2	10000	41.2875	93.1484	-925	QK	2.5	0	9.0	2	1.0	-1	0.283	-1	2.419	0	8.548	3	1997	43	1.5
45066.1	10000	41.2875	93.1475	-922	QK	2.6	0	9.0	2	1.1	-1	0.286	-1	2.437	0	8.506	3	1991	57	1.5
45066.0	10000	41.2875	93.1467	-920	QK	2.6	0	9.0	2	1.1	-1	0.291	-1	2.480	0	8.523	3	1998	47	1.5
45065.9	10000	41.2875	93.1458	-918	QK	2.7	0	8.5	2	1.1	0	0.316	0	2.381	0	7.535	1	2000	39	1.5
45065.8	10000	41.2875	93.1450	-916	QK	2.4	0	8.3	2	1.2	0	0.288	-1	2.090	0	7.249	1	1999	44	1.5
45065.7	10000	41.2875	93.1441	-914	QK	2.5	0	8.1	2	1.2	1	0.311	-1	2.117	0	6.796	0	1997	42	1.5
45065.6	10000	41.2875	93.1432	-912	QK	2.6	0	8.4	2	1.2	1	0.306	-1	2.103	0	6.874	1	2014	43	1.5
45065.5	10000	41.2875	93.1424	-910	QK	2.8	1	8.8	2	1.2	1	0.316	0	2.359	0	7.460	1	2007	39	1.5
45065.4	10000	41.2875	93.1416	-907	QK	2.6	0	8.9	2	1.2	1	0.286	-1	2.155	0	7.549	2	2002	40	1.5
45065.3	10000	41.2875	93.1407	-906	QK	2.6	0	8.6	2	1.2	1	0.298	-1	2.150	0	7.221	1	1994	37	1.5
45065.2	10000	41.2876	93.1399	-904	QK	2.5	0	8.4	2	1.2	1	0.297	-1	2.105	0	7.094	1	1985	42	1.5
45065.1	10000	41.2876	93.1390	-903	QK	2.6	0	8.7	2	1.2	1	0.301	-1	2.202	0	7.324	1	1967	56	1.5
45065.0	10000	41.2876	93.1382	-902	QK	2.5	0	8.5	2	1.2	1	0.291	-1	2.087	0	7.168	1	1947	37	1.5
45064.9	10000	41.2876	93.1373	-900	QK	2.4	0	8.2	2	1.2	1	0.292	-1	2.043	0	7.002	1	1916	51	1.5
45064.8	10000	41.2876	93.1365	-899	QK	2.2	-1	7.7	1	1.2	1	0.287	-1	1.850	-1	6.453	0	1897	38	1.5
45064.7	10000	41.2876	93.1356	-899	QK	2.4	0	7.2	1	1.2	1	0.339	0	2.061	0	6.088	-1	1866	41	1.5
45064.6	10000	41.2876	93.1348	-898	QK	2.3	0	6.8	1	1.1	0	0.339	0	2.004	-1	5.910	-1	1821	29	1.5
45064.5	10000	41.2876	93.1339	-897	QK	2.1	-1	6.7	1	1.2	0	0.315	0	1.815	-1	5.757	-1	1787	41	1.5
45064.4	10000	41.2876	93.1331	-896	QK	2.0	-1	6.6	1	1.1	0	0.303	-1	1.797	-1	5.926	-1	1760	47	1.5
45064.3	10000	41.2876	93.1322	-896	QK	1.8	-1	6.7	1	1.0	-1	0.270	-1	1.748	-1	6.478	0	1725	34	1.5
45064.2	10000	41.2876	93.1314	-896	QK	1.9	-1	6.5	1	1.1	0	0.291	-1	1.794	-1	6.162	0	1717	39	1.5
45064.1	10000	41.2876	93.1305	-896	QK	1.9	-1	6.7	1	1.0	-1	0.279	-1	1.817	-1	6.513	0	1703	41	1.5
45064.0	10000	41.2877	93.1297	-896	QK	1.7	-2	7.1	1	1.0	-1	0.245	-1	1.728	-1	7.056	1	1704	48	1.5
45063.9	10000	41.2877	93.1288	-897	QK	1.8	-2	7.3	1	1.0	-1	0.244	-1	1.715	-1	7.028	1	1731	48	1.5
45063.8	10000	41.2877	93.1280	-896	QK	1.9	-1	7.5	1	1.0	-1	0.259	-1	1.914	-1	7.377	1	1769	45	1.5
45063.7	10000	41.2877	93.1271	-896	QK	2.0	-1	7.5	2	1.1	-1	0.269	-1	1.985	-1	7.371	1	1794	43	1.5
45063.6	10000	41.2877	93.1263	-895	QK	2.1	-1	7.2	1	1.1	-1	0.287	-1	1.946	-1	6.776	0	1813	58	1.5
45063.5	10000	41.2877	93.1254	-895	QK	2.2	-1	7.5	1	1.1	-1	0.296	-1	2.114	0	7.138	1	1840	42	1.5
45063.4	10000	41.2877	93.1246	-896	QK	2.4	0	7.8	2	1.1	0	0.305	-1	2.183	0	7.151	1	1880	44	1.5
45063.3	10000	41.2877	93.1237	-897	QK	2.5	0	7.3	1	1.2	0	0.348	0	2.196	0	6.314	0	1924	40	1.5
45063.2	10000	41.2877	93.1229	-897	QK	2.5	0	7.3	1	1.2	0	0.339	0	2.138	0	6.314	0	1926	40	1.5
45063.1	10000	41.2877	93.1220	-897	QK	2.6	0	7.2	1	1.1	0	0.354	0	2.231	0	6.302	0	1906	26	1.5
45063.0	10000	41.2878	93.1212	-897	QK	2.7	0	7.3	1	1.1	0	0.368	0	2.349	0	6.383	0	1897	38	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45062.9	10000	41.2878	93.1203	-898	QK	2.8	1	7.6	1	1.1	0	0.373	0	2.543	1	6.813	0	1904	43	1.5
45062.8	10000	41.2878	93.1195	-899	QK	2.9	1	7.5	0	1.1	0	0.381	0	2.503	0	6.572	0	1902	43	1.5
45062.7	10000	41.2878	93.1186	-900	QK	2.8	1	7.5	0	1.1	0	0.377	0	2.477	0	6.575	0	1887	37	1.5
45062.6	10000	41.2878	93.1178	-900	QK	2.7	0	7.8	1	1.1	0	0.341	0	2.477	0	7.255	1	1879	61	1.5
45062.5	10000	41.2878	93.1169	-901	QK	2.8	1	7.7	1	1.1	0	0.367	0	2.637	1	7.190	1	1877	43	1.5
45062.4	10000	41.2878	93.1161	-901	QK	2.7	0	7.6	1	1.0	-1	0.361	0	2.630	1	7.293	1	1861	37	1.5
45062.3	10000	41.2878	93.1152	-902	QK	2.5	0	7.2	0	1.0	-1	0.347	0	2.435	0	7.008	1	1848	40	1.5
45062.2	10000	41.2878	93.1144	-904	QK	2.3	0	7.1	0	1.0	-1	0.329	0	2.262	0	6.872	1	1842	38	1.5
45062.1	10000	41.2878	93.1135	-905	QK	2.3	0	7.2	0	1.0	-1	0.321	0	2.389	0	7.431	1	1824	30	1.5
45062.0	10000	41.2878	93.1127	-906	QK	2.1	-1	6.8	-1	0.9	-1	0.315	-1	2.252	0	7.157	1	1813	46	1.5
45061.9	10000	41.2878	93.1118	-906	QK	2.0	-1	7.0	0	0.9	-2	0.292	-1	2.222	0	7.605	2	1792	38	1.5
45061.8	10000	41.2878	93.1110	-905	QK	1.9	-1	7.4	0	0.9	-2	0.255	-1	2.034	0	7.975	2	1791	40	1.5
45061.7	10000	41.2879	93.1101	-904	QK	2.0	-1	7.5	0	1.0	-1	0.267	-1	2.030	0	7.588	2	1827	33	1.5
45061.6	10000	41.2879	93.1093	-904	QK	2.1	-1	7.9	1	1.0	-1	0.266	-1	2.057	0	7.736	2	1855	40	1.5
45061.5	10000	41.2879	93.1084	-904	QK	2.1	-1	8.3	1	1.1	-1	0.255	-1	2.002	-1	7.856	2	1863	46	1.5
45061.4	10000	41.2879	93.1076	-902	QK	2.2	-1	7.9	1	1.1	0	0.231	-1	2.037	0	7.240	1	1867	37	1.5
45061.3	10000	41.2879	93.1067	-902	QK	2.5	0	8.0	1	1.1	0	0.318	0	2.364	0	7.432	1	1860	48	1.5
45061.2	10000	41.2879	93.1059	-901	QK	2.6	0	7.5	0	1.1	0	0.350	0	2.422	0	6.916	1	1849	51	1.5
45061.1	10000	41.2879	93.1050	-902	QK	2.6	0	7.0	0	1.1	0	0.377	0	2.464	0	6.540	0	1836	54	1.5
45061.0	10000	41.2879	93.1042	-903	QK	2.8	1	6.6	-1	1.0	-1	0.419	1	2.762	1	6.592	0	1816	56	1.5
45060.9	10000	41.2879	93.1033	-902	QK	2.5	0	6.1	-2	1.0	-1	0.419	1	2.453	0	5.855	-1	1801	41	1.5
45060.8	10000	41.2879	93.1025	-900	QK	2.4	0	6.1	-2	1.0	-1	0.399	1	2.470	0	6.196	0	1805	41	1.5
45060.7	10000	41.2879	93.1016	-898	QK	2.3	0	6.4	-1	1.0	-1	0.360	0	2.284	0	6.345	0	1827	52	1.5
45060.6	10000	41.2879	93.1008	-895	QK	1.9	-1	6.4	-1	1.0	-1	0.299	-1	1.844	-1	6.159	0	1853	44	1.5
45060.5	10000	41.2880	93.0999	-893	QK	1.8	-2	6.8	-1	1.1	0	0.262	-1	1.657	-1	6.337	0	1873	53	1.5
45060.4	10000	41.2880	93.0991	-893	QK	1.8	-1	6.8	-1	1.1	0	0.273	-1	1.722	-1	6.304	0	1895	51	1.5
45060.3	10000	41.2880	93.0982	-895	QK	2.0	-1	7.3	0	1.1	0	0.276	-1	1.886	-1	6.837	1	1911	48	1.5
45060.2	10000	41.2880	93.0974	-897	QK	2.0	-1	7.4	0	1.0	-1	0.264	-1	1.921	-1	7.287	1	1923	46	1.5
45060.1	10000	41.2880	93.0965	-897	QK	2.1	-1	7.5	0	1.1	0	0.274	-1	1.874	-1	6.840	1	1932	41	1.6
45060.0	10000	41.2880	93.0957	-899	QK	2.1	-1	7.7	0	1.1	0	0.270	-1	1.865	-1	6.917	1	1930	42	1.6
45059.9	10000	41.2880	93.0948	-901	QK	2.3	0	7.6	1	1.1	0	0.304	-1	2.133	0	7.021	1	1942	47	1.6
45059.8	10000	41.2880	93.0940	-902	QK	2.6	0	7.7	1	1.1	0	0.343	0	2.428	0	7.081	1	1955	39	1.6
45059.7	10000	41.2880	93.0931	-903	QK	2.6	0	7.9	1	1.1	0	0.331	0	2.417	0	7.292	1	1953	32	1.6
45059.6	10000	41.2880	93.0923	-901	QK	2.5	0	7.5	1	1.1	0	0.297	-1	2.143	0	7.220	1	1961	55	1.6
45059.5	10000	41.2880	93.0914	-901	QK	2.6	0	7.5	1	1.2	0	0.307	-1	2.270	0	7.406	1	1965	36	1.6
45059.4	10000	41.2880	93.0906	-902	QK	2.8	0	7.3	1	1.1	0	0.342	0	2.564	0	7.[illegible]8	1	1960	53	1.6
45059.3	10000	41.2880	93.0897	-904	QK	2.7	0	7.5	2	1.1	0	0.317	0	2.488	0	7.[illegible]9	2	1947	43	1.6
45059.2	10000	41.2881	93.0889	-906	QK	2.7	0	7.5	2	1.1	0	0.312	-1	2.415	0	7.[illegible]40	2	1932	53	1.6
45059.1	10000	41.2881	93.0880	-907	QK	2.6	0	7.5	1	1.1	-1	0.315	0	2.460	0	7.[illegible]01	2	1914	47	1.6
45059.0	10000	41.2881	93.0872	-906	QK	2.6	0	7.3	1	1.1	0	0.319	0	2.476	0	7.756	2	1910	43	1.6
45058.9	10000	41.2881	93.0863	-906	QK	2.7	0	7.8	1	1.0	-1	0.347	0	2.652	1	7.640	2	1899	44	1.6
45058.8	10000	41.2881	93.0855	-910	QK	2.8	1	7.9	1	1.0	-1	0.358	0	2.853	1	7.981	2	1877	50	1.6
45058.7	10000	41.2881	93.0846	-912	QK	2.6	0	7.8	1	0.9	-2	0.336	0	2.821	1	8.385	3	1846	44	1.6
45058.6	10000	41.2881	93.0838	-912	QK	2.6	0	7.4	0	0.9	-2	0.344	0	2.818	1	8.197	3	1824	36	1.6
45058.5	10000	41.2881	93.0829	-912	QK	2.4	0	7.6	0	0.9	-2	0.317	0	2.724	1	8.590	3	1797	42	1.6
45058.4	10000	41.2881	93.0821	-910	QK	2.3	0	7.7	0	0.9	-2	0.301	-1	2.607	1	8.647	3	1768	42	1.6
45058.3	10000	41.2881	93.0812	-907	QK	2.1	-1	7.5	0	0.8	-2	0.285	-1	2.519	1	8.842	3	1742	42	1.6
45058.2	10000	41.2881	93.0804	-905	QK	1.9	-1	7.3	0	0.8	-2	0.266	-1	2.321	1	8.709	3	1711	42	1.6
45058.1	10000	41.2882	93.0795	-902	QK	1.8	-2	6.9	0	0.9	-2	0.258	-1	2.043	0	7.930	2	1711	44	1.6
45058.0	10000	41.2882	93.0787	-899	QK	1.8	-1	6.7	-1	0.9	-2	0.269	-1	1.990	-1	7.401	1	1724	43	1.6
45057.9	10000	41.2882	93.0778	-897	QK	2.0	-1	6.6	-1	0.9	-2	0.298	-1	2.155	0	7.229	1	1751	50	1.6
45057.8	10000	41.2882	93.0770	-892	QK	2.2	-1	6.9	0	0.9	-2	0.318	0	2.349	0	7.395	1	1783	56	1.6

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45057.7	10000	41.2882	93.0761	-886	QK	2.5	0	6.5	-1	0.9	-1	0.388	1	2.664	1	6.863	1	1830	43	1.6
45057.6	10000	41.2882	93.0753	-882	QK	2.6	0	6.4	-1	1.0	-1	0.400	1	2.602	1	6.500	0	1876	38	1.7
45057.5	10000	41.2882	93.0744	-877	QK	2.6	0	6.7	-1	1.1	0	0.383	0	2.364	0	6.163	0	1924	61	1.7
45057.4	10000	41.2882	93.0736	-870	QK	2.9	1	6.8	-1	1.1	0	0.433	1	2.693	1	6.216	0	1988	62	1.7
45057.3	10000	41.2882	93.0727	-863	QK	3.2	1	6.8	-1	1.1	0	0.468	2	2.777	1	5.932	-1	2041	22	1.7
45057.2	10000	41.2882	93.0719	-857	QK	3.3	1	7.2	0	1.1	0	0.447	2	2.835	1	6.344	0	2075	36	1.7
45057.1	10000	41.2882	93.0710	-852	QK	3.3	2	6.8	-1	1.2	1	0.486	2	2.806	1	5.772	-1	2086	54	1.7
45057.0	10000	41.2882	93.0702	-843	QK	3.0	1	7.2	0	1.2	1	0.419	1	2.518	1	6.013	-1	2079	42	1.7
45056.9	10000	41.2883	93.0693	-832	QK	3.0	1	7.5	0	1.2	0	0.399	1	2.583	1	6.479	0	2064	38	1.7
45056.8	10000	41.2883	93.0685	-824	QK	3.0	1	7.8	1	1.1	0	0.386	0	2.784	1	7.204	1	2049	37	1.7
45056.7	10000	41.2883	93.0676	-817	QK	2.9	1	7.9	1	1.1	0	0.367	0	2.598	1	7.071	1	2011	39	1.7
45056.6	10000	41.2883	93.0668	-809	QK	2.6	0	8.0	1	1.0	-1	0.326	0	2.497	0	7.671	2	1967	39	1.7
45056.5	10000	41.2883	93.0660	-796	QK	2.5	0	7.7	1	1.0	-1	0.325	0	2.404	0	7.408	1	1923	37	1.7
45056.4	10000	41.2883	93.0652	-787	QK	2.3	0	8.2	1	1.0	-1	0.284	-1	2.305	0	8.109	2	1897	38	1.7
45056.3	10000	41.2883	93.0645	-779	QK	2.1	-1	8.1	1	1.0	-1	0.261	-1	2.119	0	8.108	2	1880	34	1.7
45056.2	10000	41.2883	93.0637	-768	QK	2.3	0	7.9	1	1.0	-1	0.289	-1	2.250	0	7.788	2	1870	46	1.7
45056.1	10000	41.2883	93.0629	-756	QK	2.2	-1	7.6	1	1.1	-1	0.283	-1	2.043	0	7.226	1	1869	49	1.7
45056.0	10000	41.2883	93.0621	-741	QK	2.4	0	7.7	1	1.0	-1	0.304	-1	2.343	0	7.701	2	1867	46	1.7
45055.9	10000	41.2883	93.0613	-728	QK	2.2	-1	7.9	1	1.1	0	0.282	-1	2.008	-1	7.114	1	1896	41	1.7
45055.8	10000	41.2882	93.0605	-716	QK	2.3	-1	8.1	1	1.1	0	0.280	-1	2.019	-1	7.205	1	1932	48	1.7
45055.7	10000	41.2882	93.0597	-702	QK	2.3	-1	7.5	0	1.2	0	0.301	-1	1.955	-1	6.488	0	1960	43	1.7
45055.6	10000	41.2882	93.0589	-689	QK	2.6	0	7.9	1	1.2	0	0.324	0	2.173	0	6.726	0	1995	41	1.7
45055.5	10000	41.2882	93.0581	-678	QK	2.7	0	8.2	1	1.2	1	0.335	0	2.240	0	6.695	0	2024	43	1.8
45055.4	10000	41.2882	93.0573	-666	QK	2.9	0	8.3	2	1.2	1	0.349	0	2.473	0	7.083	1	2031	40	1.8
45055.3	10000	41.2882	93.0565	-654	QK	2.7	0	8.3	1	1.2	1	0.326	0	2.217	0	6.807	0	2030	50	1.8
45055.2	10000	41.2882	93.0557	-640	QK	3.1	1	8.3	2	1.2	1	0.372	0	2.694	1	7.233	1	2022	42	1.8
45055.1	10000	41.2882	93.0549	-625	QK	3.3	1	8.3	2	1.2	1	0.394	1	2.761	1	6.999	1	2002	57	1.8
45055.0	10000	41.2882	93.0541	-611	QK	3.4	2	8.3	2	1.2	1	0.424	1	2.979	1	7.029	1	1985	48	1.8
45054.9	10000	41.2882	93.0533	-599	QK	3.4	2	8.0	2	1.2	1	0.447	1	3.038	1	6.799	0	1979	41	1.8
45054.8	10000	41.2882	93.0526	-589	QK	3.4	2	7.6	2	1.1	1	0.471	2	3.131	1	6.649	0	1973	40	1.8
45054.7	10000	41.2882	93.0518	-579	QK	3.6	2	6.8	2	1.1	1	0.523	2	3.282	1	6.273	0	1982	51	1.8
45054.6	10000	41.2882	93.0510	-569	QK	3.6	2	6.9	2	1.1	1	0.522	2	3.278	1	6.282	0	2009	38	1.8
45054.5	10000	41.2882	93.0502	-559	QK	3.7	2	6.9	2	1.1	1	0.526	2	3.295	1	6.267	0	2030	46	1.8
45054.4	10000	41.2882	93.0494	-550	QK	3.6	2	6.7	1	1.1	0	0.540	2	3.290	1	6.096	-1	2043	42	1.8
45054.3	10000	41.2882	93.0486	-541	QK	3.4	2	7.1	2	1.1	0	0.482	2	3.359	2	6.967	-1	2050	47	1.8
45054.2	10000	41.2882	93.0478	-533	QK	3.5	2	7.4	2	1.1	0	0.474	2	3.154	2	6.659	0	2062	47	1.8
45054.1	10000	41.2882	93.0470	-525	QK	3.4	2	7.8	2	1.2	0	0.433	1	2.951	1	6.812	0	2097	42	1.8
45054.0	10000	41.2882	93.0462	-518	QK	3.5	2	8.4	2	1.2	1	0.387	0	2.674	1	6.911	1	2136	48	1.8
45053.9	10000	41.2882	93.0454	-510	QK	3.4	2	8.6	2	1.3	1	0.390	1	2.670	1	6.854	1	2186	40	1.8
45053.8	10000	41.2882	93.0446	-504	QK	3.5	2	8.2	2	1.3	1	0.406	1	2.541	1	6.265	0	2200	40	1.8
45053.7	10000	41.2882	93.0438	-500	QK	3.5	2	8.6	2	1.4	1	0.405	1	2.456	1	6.066	-1	2242	37	1.8
45053.6	10000	41.2882	93.0430	-495	QK	3.9	2	8.3	2	1.5	1	0.466	2	2.610	2	5.602	-1	2266	36	1.8
45053.5	10000	41.2882	93.0422	-490	QK	3.6	2	8.0	2	1.4	1	0.447	2	2.537	2	5.680	-1	2261	46	1.8
45053.4	10000	41.2882	93.0414	-487	QK	3.7	2	7.6	2	1.4	1	0.472	2	2.648	2	5.604	-1	2233	40	1.8
45053.3	10000	41.2882	93.0406	-484	QK	3.6	2	7.3	2	1.4	1	0.486	2	2.704	2	5.569	-1	2210	52	1.8
45053.2	10000	41.2882	93.0398	-481	QK	3.6	2	7.3	2	1.3	1	0.489	2	2.760	2	5.638	-1	2159	39	1.8
45053.1	10000	41.2882	93.0390	-479	QK	4.4	2	7.3	2	1.2	1	0.459	2	2.762	2	6.022	-1	2130	29	1.8
45053.0	10000	41.2882	93.0383	-480	QK	4.4	2	6.9	2	1.1	1	0.491	2	2.151	2	6.419	0	2086	49	1.8
45052.9	10000	41.2882	93.0375	-481	QK	4.3	2	7.1	2	1.0	1	0.462	2	2.173	2	6.868	1	2069	36	1.8
45052.8	10000	41.2882	93.0367	-482	QK	4.4	2	7.4	2	1.0	1	0.460	2	2.292	2	7.155	1	2064	53	1.8
45052.7	10000	41.2882	93.0359	-485	QK	4.4	2	7.5	2	1.0	1	0.448	2	2.336	2	7.451	1	2065	36	1.8
45052.6	10000	41.2882	93.0351	-487	QK	4.3	2	7.6	2	1.0	1	0.429	1	2.233	2	7.535	1	2052	47	1.8

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45052.5	10000	41.2882	93.0343	-486	QK	3.1	1	7.8	1	1.0	-1	0.397	1	3.017	2	7.596	2	2031	44	1.8
45052.4	10000	41.2882	93.0335	-487	QK	3.1	1	8.0	1	1.0	-1	0.387	0	2.959	2	7.654	2	2021	38	1.8
45052.3	10000	41.2882	93.0327	-492	QK	2.6	0	8.5	2	1.1	0	0.310	-1	2.446	0	7.891	2	2014	41	1.8
45052.2	10000	41.2881	93.0319	-496	QK	2.2	-1	8.6	2	1.1	0	0.257	-1	1.952	-1	7.591	2	2005	40	1.8
45052.1	10000	41.2881	93.0311	-486	QK	2.2	-1	8.5	2	1.1	0	0.263	-1	1.989	-1	7.576	2	[illegible]	38	1.8
45052.0	10000	41.2881	93.0303	-473	QK	2.2	-1	8.6	2	1.2	0	0.253	-1	1.875	-1	7.423	1	1996	41	1.8
45051.9	10000	41.2881	93.0295	-490	QK	2.0	-1	8.4	2	1.1	0	0.236	-2	1.856	-1	7.866	2	1987	39	1.8
45051.8	10000	41.2881	93.0287	-517	QK	2.4	0	8.0	1	1.1	-1	0.298	-1	2.273	0	7.632	2	2002	41	1.8
45051.7	10000	41.2881	93.0279	-531	QK	2.5	0	8.2	1	1.0	-1	0.310	-1	2.501	0	8.065	2	2008	47	1.8
45051.6	10000	41.2881	93.0271	-538	QK	2.9	1	8.0	1	1.0	-1	0.365	0	2.812	1	7.712	2	2022	41	1.8
45051.5	10000	41.2881	93.0264	-540	QK	3.1	1	7.8	1	1.0	-1	0.390	1	3.043	2	7.799	2	2038	51	1.8
45051.4	10000	41.2881	93.0256	-540	QK	3.1	1	7.8	1	1.0	-1	0.398	1	3.096	2	7.776	2	2054	42	1.8
45051.3	10000	41.2881	93.0248	-544	QK	3.3	2	8.2	1	1.0	-1	0.402	1	3.328	2	8.276	3	2063	34	1.8
45051.2	10000	41.2881	93.0240	-549	QK	3.3	2	8.6	2	1.0	-1	0.378	1	3.119	2	8.250	3	2109	54	1.8
45051.1	10000	41.2881	93.0232	-549	QK	3.2	1	9.1	3	1.1	0	0.357	1	2.917	1	8.176	2	2164	51	1.8
45051.0	10000	41.2881	93.0224	-551	QK	3.1	1	8.8	2	1.2	0	0.356	0	2.697	1	7.574	2	2194	51	1.8
45050.9	10000	41.2881	93.0216	-553	QK	3.1	1	9.0	3	1.1	0	0.343	0	2.695	1	7.860	2	2220	32	1.8
45050.8	10000	41.2881	93.0208	-553	QK	3.5	2	9.5	3	1.1	0	0.375	0	3.176	2	8.467	3	2238	57	1.8
45050.7	10000	41.2881	93.0200	-550	QK	3.7	2	9.6	3	1.1	0	0.382	0	3.389	2	8.865	3	2275	43	1.8
45050.6	10000	41.2881	93.0192	-544	QK	3.8	2	9.3	3	1.1	0	0.414	1	3.591	2	8.677	3	2314	54	1.8
45050.5	10000	41.2881	93.0184	-537	QK	3.6	2	9.5	3	1.2	0	0.433	1	3.546	2	8.196	3	2345	38	1.8
45050.4	10000	41.2881	93.0176	-529	QK	3.6	2	9.4	3	1.1	0	0.380	0	3.244	2	8.528	3	2328	34	1.8
45050.3	10000	41.2881	93.0168	-521	QK	3.6	2	10.0	4	1.1	0	0.359	0	3.210	2	8.942	3	2349	52	1.8
45050.2	10000	41.2881	93.0160	-515	QK	3.7	2	10.1	4	1.1	0	0.366	0	3.220	2	8.804	3	2342	46	1.8
45050.1	10000	41.2881	93.0152	-509	QK	3.5	2	9.5	3	1.2	1	0.364	0	2.876	1	7.907	2	2325	40	1.8
45050.0	10000	41.2881	93.0145	-505	QK	3.0	1	9.1	3	1.3	1	0.333	0	2.392	0	7.186	1	2273	41	1.8
45049.9	10000	41.2881	93.0137	-500	QK	2.6	0	9.1	3	1.4	2	0.282	-1	1.887	-1	6.692	0	2229	34	1.8
45049.8	10000	41.2881	93.0129	-494	QK	2.4	0	8.3	2	1.3	1	0.290	-1	1.870	-1	6.438	0	2155	41	1.8
45049.7	10000	41.2881	93.0121	-489	QK	2.7	0	8.4	2	1.3	2	0.316	0	2.050	0	6.480	0	2109	36	1.8
45049.6	10000	41.2881	93.0113	-484	QK	2.7	0	7.6	2	1.3	2	0.362	0	2.032	0	5.610	-1	2066	36	1.8
45049.5	10000	41.2881	93.0105	-480	QK	2.6	0	7.1	2	1.3	2	0.359	0	1.886	-1	5.250	-2	2034	34	1.8
45049.4	10000	41.2881	93.0097	-476	QK	2.5	0	7.2	2	1.3	2	0.350	0	1.883	-1	5.386	-2	2018	36	1.8
45049.3	10000	41.2881	93.0089	-473	QK	2.6	0	7.4	2	1.3	2	0.352	0	1.926	-1	5.471	-1	2016	49	1.8
45049.2	10000	41.2881	93.0081	-472	QK	2.8	1	7.4	2	1.3	2	0.374	0	2.097	0	5.608	-1	1999	62	1.8
45049.1	10000	41.2881	93.0073	-471	QK	2.7	0	7.7	2	1.3	2	0.351	0	2.039	0	5.806	-1	2002	53	1.8
45049.0	10000	41.2881	93.0065	-470	QK	2.3	0	7.7	2	1.4	2	0.303	-1	1.722	-1	5.691	-1	1993	46	1.8
45048.9	10000	41.2881	93.0057	-471	QK	2.2	-1	7.5	1	1.3	1	0.295	-1	1.731	-1	5.865	-1	1983	42	1.8
45048.8	10000	41.2881	93.0049	-473	QK	2.3	-1	8.1	2	1.3	1	0.279	-1	1.784	-1	6.399	0	1979	42	1.8
45048.7	10000	41.2881	93.0041	-475	QK	2.2	-1	8.3	2	1.3	1	0.268	-1	1.820	-1	6.791	0	1967	46	1.8
45048.6	10000	41.2880	93.0033	-480	QK	2.2	-1	8.3	2	1.3	1	0.271	-1	1.778	-1	6.568	0	1963	42	1.8
45048.5	10000	41.2880	93.0025	-485	QK	2.0	-1	8.3	2	1.3	1	0.239	-2	1.555	-2	6.512	0	1963	49	1.8
45048.4	10000	41.2880	93.0017	-491	QK	2.0	-1	8.1	2	1.3	1	0.251	-1	1.599	-1	6.376	0	1952	53	1.8
45048.3	10000	41.2880	93.0009	-498	QK	1.8	-1	8.1	2	1.3	1	0.253	-1	1.641	-1	6.492	0	1947	36	1.7
45048.2	10000	41.2880	93.0002	-506	QK	1.8	-1	8.7	2	1.3	1	0.210	-2	1.416	-2	6.740	0	1940	42	1.7
45048.1	10000	41.2880	92.9994	-514	QK	1.5	-1	8.5	2	1.3	1	0.215	-2	1.406	-2	6.537	0	1939	50	1.7
45048.0	10000	41.2880	92.9986	-522	QK	1.5	-2	8.5	2	1.3	1	0.177	-2	1.143	-2	6.441	0	1936	37	1.7
45047.9	10000	41.2880	92.9978	-531	QK	1.5	-2	8.7	2	1.3	1	0.171	-2	1.163	-2	6.811	0	1930	50	1.7
45047.8	10000	41.2880	92.9970	-541	QK	1.5	-2	8.6	2	1.3	1	0.178	-2	1.224	-2	6.869	1	1910	39	1.7
45047.7	10000	41.2880	92.9962	-552	QK	1.5	-2	8.5	2	1.3	1	0.177	-2	1.223	-2	6.910	1	1894	45	1.7
45047.6	10000	41.2880	92.9954	-561	QK	1.5	-2	8.3	2	1.3	1	0.184	-2	1.268	-2	6.899	1	1877	38	1.7
45047.5	10000	41.2880	92.9946	-568	QK	1.9	-1	8.3	2	1.2	1	0.226	-2	1.626	-1	7.208	1	1872	35	1.7
45047.4	10000	41.2880	92.9938	-575	QK	1.8	-1	8.2	1	1.1	0	0.219	-2	1.601	-1	7.295	1	1859	49	1.7

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45047.3	10000	41.2880	92.9930	-581	QK	1.9	-1	7.8	1	1.2	1	0.244	-1	1.599	-1	6.546	0	1853	48	1.7
45047.2	10000	41.2880	92.9922	-587	QK	1.8	-2	7.7	1	1.2	1	0.233	-2	1.498	-2	6.435	0	1854	42	1.7
45047.1	10000	41.2880	92.9914	-592	QK	1.8	-1	7.7	1	1.2	1	0.236	-2	1.522	-2	6.456	0	1860	39	1.7
45047.0	10000	41.2880	92.9906	-594	QK	2.0	-1	7.7	1	1.2	1	0.256	-1	1.647	-1	6.444	0	1876	48	1.7
45046.9	10000	41.2880	92.9898	-595	QK	2.2	-1	7.8	1	1.2	1	0.287	-1	1.885	-1	6.563	0	1886	55	1.7
45046.8	10000	41.2880	92.9890	-594	QK	2.2	-1	7.3	0	1.2	1	0.305	-1	1.895	-1	6.202	0	1891	38	1.7
45046.7	10000	41.2880	92.9883	-592	QK	2.3	-1	7.2	0	1.2	1	0.315	-1	1.894	-1	6.020	-1	1892	45	1.7
45046.6	10000	41.2880	92.9875	-590	QK	2.4	0	7.4	0	1.1	1	0.320	0	2.111	0	6.599	0	1905	46	1.7
45046.5	10000	41.2880	92.9867	-586	QK	2.5	0	7.2	0	1.1	0	0.343	0	2.231	0	6.509	0	1903	44	1.7
45046.4	10000	41.2880	92.9859	-582	QK	2.4	0	7.4	0	1.1	0	0.326	0	2.276	0	6.987	1	1902	54	1.7
45046.3	10000	41.2880	92.9851	-577	QK	2.4	0	7.5	0	1.1	0	0.320	0	2.208	0	6.906	1	1917	44	1.7
45046.2	10000	41.2880	92.9843	-573	QK	2.1	-1	7.6	1	1.1	0	0.281	-1	1.979	-1	7.034	1	1942	43	1.7
45046.1	10000	41.2880	92.9835	-567	QK	2.0	-1	8.0	1	1.1	0	0.249	-1	1.759	-1	7.057	1	1948	41	1.7
45046.0	10000	41.2880	92.9827	-560	QK	2.0	-1	8.3	1	1.1	0	0.240	-2	1.739	-1	7.233	1	1967	45	1.7
45045.9	10000	41.2880	92.9819	-553	QK	2.1	-1	8.4	2	1.1	0	0.245	-1	1.814	-1	7.412	1	1969	34	1.6
45045.8	10000	41.2880	92.9811	-546	QK	2.2	-1	8.9	2	1.1	0	0.242	-2	1.980	-1	8.211	2	1974	41	1.6
45045.7	10000	41.2880	92.9803	-538	QK	2.5	0	8.7	2	1.1	0	0.286	-1	2.253	0	7.872	2	1990	35	1.6
45045.6	10000	41.2880	92.9795	-530	QK	2.5	0	8.4	2	1.1	0	0.294	-1	2.239	0	7.622	2	1977	47	1.6
45045.5	10000	41.2880	92.9787	-522	QK	2.9	1	8.3	1	1.1	0	0.353	0	2.666	1	7.548	2	1983	45	1.6
45045.4	10000	41.2880	92.9779	-515	QK	2.8	1	8.0	1	1.1	-1	0.348	0	2.667	1	7.657	2	1991	41	1.6
45045.3	10000	41.2879	92.9771	-509	QK	2.7	0	8.2	1	1.1	0	0.334	0	2.580	1	7.716	2	2003	43	1.6
45045.2	10000	41.2879	92.9763	-502	QK	2.8	1	7.9	1	1.1	0	0.355	0	2.612	1	7.355	1	2010	32	1.6
45045.1	10000	41.2879	92.9756	-496	QK	2.8	1	7.7	1	1.1	0	0.360	0	2.484	0	6.905	1	2021	36	1.6
45045.0	10000	41.2879	92.9748	-491	QK	2.7	0	7.6	0	1.1	0	0.362	0	2.400	0	6.630	0	2032	32	1.6
45044.9	10000	41.2879	92.9740	-486	QK	2.6	0	8.0	1	1.1	0	0.332	0	2.334	0	7.040	1	2056	49	1.6
45044.8	10000	41.2879	92.9732	-483	QK	2.4	0	8.1	1	1.2	0	0.297	-1	2.011	-1	6.775	0	2058	47	1.6
45044.7	10000	41.2879	92.9724	-481	QK	2.5	0	8.1	1	1.3	0	0.305	-1	1.956	-1	6.418	0	2048	39	1.6
45044.6	10000	41.2879	92.9716	-479	QK	2.3	0	8.2	1	1.3	0	0.280	-1	1.782	-1	6.355	0	2032	48	1.6
45044.5	10000	41.2879	92.9708	-478	QK	2.4	0	8.1	1	1.3	0	0.291	-1	1.828	-1	6.279	0	2011	62	1.6
45044.4	10000	41.2879	92.9700	-478	QK	2.4	0	8.2	1	1.3	0	0.287	-1	1.782	-1	6.217	0	1994	55	1.6
45044.3	10000	41.2879	92.9692	-479	QK	2.2	-1	8.1	1	1.3	0	0.265	-1	1.626	-1	6.126	-1	1973	44	1.6
45044.2	10000	41.2879	92.9684	-479	QK	2.5	0	7.9	1	1.4	0	0.316	0	1.829	-1	5.789	-1	1966	40	1.6
45044.1	10000	41.2879	92.9676	-482	QK	2.4	0	7.7	1	1.3	0	0.312	-1	1.785	-1	5.725	-1	1952	44	1.6
45044.0	10000	41.2879	92.9668	-488	QK	2.4	0	8.1	1	1.3	0	0.295	-1	1.814	-1	6.156	0	1959	47	1.6
45043.9	10000	41.2879	92.9660	-494	QK	2.6	0	7.7	1	1.3	0	0.341	0	2.044	0	5.993	-1	1972	45	1.6
45043.8	10000	41.2879	92.9652	-501	QK	2.7	0	7.9	1	1.3	0	0.338	0	2.082	0	6.158	0	1989	31	1.6
45043.7	10000	41.2879	92.9644	-509	QK	2.7	0	7.6	0	1.3	0	0.354	0	2.115	0	5.976	-1	2009	42	1.6
45043.6	10000	41.2879	92.9636	-520	QK	2.7	0	8.0	1	1.3	0	0.334	0	2.078	0	6.224	0	2016	46	1.6
45043.5	10000	41.2879	92.9628	-530	QK	2.4	-1	8.0	1	1.3	0	0.304	-1	1.915	-1	6.308	0	2007	35	1.6
45043.4	10000	41.2879	92.9621	-542	QK	2.4	-1	8.3	1	1.3	0	0.292	-1	1.866	-1	6.389	0	2014	43	1.6
45043.3	10000	41.2879	92.9613	-555	QK	2.5	-1	8.1	1	1.3	0	0.305	-1	1.892	-1	6.205	0	2015	42	1.5
45043.2	10000	41.2879	92.9605	-569	QK	2.4	-1	8.5	1	1.3	0	0.288	-1	1.852	-1	6.427	0	2010	43	1.5
45043.1	10000	41.2879	92.9597	-583	QK	2.2	-1	8.4	2	1.3	0	0.269	-1	1.736	-1	6.452	0	2001	35	1.5
45043.0	10000	41.2879	92.9589	-599	QK	2.2	-1	8.5	2	1.3	0	0.261	-1	1.679	-1	6.443	0	1990	48	1.5
45042.9	10000	41.2879	92.9581	-616	QK	2.2	-1	8.1	2	1.3	0	0.271	-1	1.710	-1	6.306	0	1983	36	1.5
45042.8	10000	41.2879	92.9573	-632	QK	2.2	-1	7.9	1	1.3	0	0.280	-1	1.721	-1	6.151	0	1968	41	1.5
45042.7	10000	41.2879	92.9565	-649	QK	2.5	0	7.7	1	1.2	0	0.322	0	2.002	-1	6.226	0	1945	42	1.5
45042.6	10000	41.2879	92.9557	-668	QK	2.6	0	7.6	1	1.2	0	0.345	0	2.166	0	6.285	0	1932	55	1.5
45042.5	10000	41.2879	92.9549	-686	QK	2.7	0	7.3	0	1.2	0	0.365	0	2.256	0	6.187	0	1914	41	1.5
45042.4	10000	41.2879	92.9541	-705	QK	2.9	1	7.3	0	1.2	0	0.400	1	2.441	0	6.094	-1	1913	42	1.5
45042.3	10000	41.2878	92.9533	-723	QK	2.9	1	7.2	0	1.2	0	0.403	1	2.513	1	6.235	0	1925	49	1.5
45042.2	10000	41.2878	92.9525	-740	QK	3.0	1	7.3	0	1.1	0	0.411	1	2.621	1	6.383	0	1924	41	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45042.1	10000	41.2878	92.9516	-757	QK	3.1	1	8.0	1	1.1	0	0.388	1	2.782	1	7.178	1	1939	37	1.5
45042.0	10000	41.2878	92.9508	-775	QK	2.8	1	8.1	1	1.1	0	0.350	0	2.578	1	7.358	1	1944	41	1.5
45041.9	10000	41.2878	92.9500	-792	QK	2.8	1	7.9	1	1.1	0	0.353	0	2.532	1	7.166	1	1929	46	1.5
45041.8	10000	41.2878	92.9492	-808	QK	3.0	1	7.8	1	1.1	0	0.391	1	2.838	1	7.260	1	1914	45	1.5
45041.7	10000	41.2878	92.9484	-823	QK	2.7	0	7.6	0	1.0	-1	0.361	0	2.630	1	7.283	1	1891	53	1.5
45041.6	10000	41.2878	92.9476	-838	QK	2.8	1	7.7	0	1.0	-1	0.365	0	2.877	1	7.874	2	1853	37	1.5
45041.5	10000	41.2878	92.9467	-852	QK	2.7	0	7.7	0	1.0	-1	0.347	0	2.738	1	7.895	2	1852	41	1.5
45041.4	10000	41.2878	92.9459	-864	QK	2.5	0	7.2	0	0.9	-2	0.349	0	2.696	1	7.735	2	1845	42	1.5
45041.3	10000	41.2878	92.9451	-876	QK	2.8	1	7.2	0	0.9	-2	0.387	1	2.958	1	7.641	2	1865	51	1.5
45041.2	10000	41.2878	92.9443	-887	QK	2.7	1	7.2	0	1.0	-1	0.374	0	2.809	1	7.509	1	1887	61	1.5
45041.1	10000	41.2878	92.9435	-898	QK	2.3	0	7.1	0	1.0	-1	0.322	0	2.269	0	7.055	1	1913	48	1.5
45041.0	10000	41.2878	92.9427	-907	QK	2.6	0	7.5	0	1.0	-1	0.343	0	2.485	0	7.255	1	1935	40	1.5
45040.9	10000	41.2878	92.9419	-915	QK	2.6	0	7.2	0	1.1	0	0.370	0	2.451	0	6.620	0	1954	46	1.5
45040.8	10000	41.2878	92.9410	-923	QK	3.1	1	6.8	-1	1.1	-1	0.450	1	2.922	1	6.487	0	1973	44	1.5
45040.7	10000	41.2878	92.9402	-930	QK	3.2	1	7.2	0	1.1	0	0.441	1	2.908	1	6.588	0	1991	31	1.5
45040.6	10000	41.2878	92.9394	-936	QK	3.1	1	7.2	0	1.1	0	0.426	1	2.738	1	6.420	0	1990	46	1.5
45040.5	10000	41.2878	92.9386	-942	QK	3.2	1	7.3	0	1.1	0	0.435	1	2.874	1	6.607	0	1999	41	1.5
45040.4	10000	41.2878	92.9378	-946	QK	3.5	2	7.7	0	1.1	0	0.452	1	3.258	2	7.202	1	2007	53	1.5
45040.3	10000	41.2878	92.9370	-951	QK	3.3	2	7.4	0	1.1	0	0.447	1	3.020	2	6.753	0	2011	43	1.5
45040.2	10000	41.2878	92.9362	-955	QK	3.3	2	7.5	0	1.1	0	0.433	1	2.897	1	6.690	0	2030	44	1.5
45040.1	10000	41.2878	92.9353	-958	QK	2.9	1	7.9	1	1.1	0	0.370	0	2.571	1	6.957	1	2025	37	1.4
45040.0	10000	41.2878	92.9345	-960	QK	3.0	1	7.7	1	1.1	0	0.393	1	2.626	1	6.681	0	2024	41	1.4
45039.9	10000	41.2878	92.9337	-961	QK	2.9	1	7.5	1	1.1	0	0.393	1	2.689	1	6.836	1	2009	42	1.4
45039.8	10000	41.2878	92.9329	-962	QK	3.0	1	7.6	1	1.1	0	0.395	1	2.817	1	7.136	1	2004	41	1.4
45039.7	10000	41.2878	92.9321	-964	QK	2.8	1	7.5	1	1.1	0	0.379	0	2.615	1	6.895	1	1985	44	1.4
45039.6	10000	41.2878	92.9313	-965	QK	2.8	1	7.7	1	1.1	0	0.361	0	2.528	1	7.007	1	1971	42	1.4
45039.5	10000	41.2878	92.9305	-965	QK	2.8	1	7.6	1	1.1	0	0.366	0	2.618	1	7.146	1	1947	48	1.4
45039.4	10000	41.2878	92.9296	-965	QK	2.8	1	7.4	0	1.0	-1	0.384	0	2.695	1	7.027	1	1927	44	1.4
45039.3	10000	41.2878	92.9288	-964	QK	2.6	0	7.0	0	1.1	-1	0.374	0	2.499	1	6.679	0	1893	40	1.4
45039.2	10000	41.2878	92.9280	-964	QK	2.6	0	6.9	0	1.1	-1	0.374	0	2.406	0	6.436	0	1882	34	1.4
45039.1	10000	41.2878	92.9272	-964	QK	2.4	0	6.5	-1	1.1	-1	0.360	0	2.230	0	6.200	0	1858	41	1.4
45039.0	10000	41.2878	92.9264	-964	QK	2.4	0	6.7	-1	1.1	-1	0.360	0	2.237	0	6.222	0	1838	36	1.4
45038.9	10000	41.2378	92.9256	-963	QK	2.5	0	6.8	-1	1.0	-1	0.369	0	2.473	0	6.704	0	1821	35	1.4
45038.8	10000	41.2877	92.9248	-961	QK	2.5	0	6.7	-1	1.0	-1	0.366	0	2.432	0	6.643	0	1807	43	1.4
45038.7	10000	41.2877	92.9240	-961	QK	2.7	0	6.4	-1	1.0	-1	0.420	1	2.593	1	6.178	0	1797	48	1.4
45038.6	10000	41.2877	92.9231	-962	QK	2.7	0	6.9	0	1.0	-1	0.386	1	2.787	1	7.218	1	1811	53	1.4
45038.5	10000	41.2877	92.9223	-963	QK	2.6	0	6.9	0	1.0	-1	0.374	0	2.618	1	6.997	1	1812	32	1.5
45038.4	10000	41.2877	92.9215	-963	QK	2.7	0	7.4	0	1.0	-1	0.361	0	2.718	1	7.519	1	1813	36	1.4
45038.3	10000	41.2877	92.9207	-963	QK	2.6	0	7.1	0	1.0	-1	0.366	0	2.657	1	7.265	1	1812	44	1.4
45038.2	10000	41.2877	92.9199	-963	QK	2.7	1	6.7	-1	1.0	-1	0.410	1	2.724	1	6.650	1	1818	39	1.5
45038.1	10000	41.2877	92.9191	-963	QK	2.8	1	6.4	-1	1.0	-1	0.433	1	2.723	1	6.290	1	1798	36	1.5
45038.0	10000	41.2877	92.9182	-965	QK	2.7	1	6.5	-1	1.0	-1	0.413	1	2.717	1	6.586	0	1790	45	1.5
45037.9	10000	41.2877	92.9174	-966	QK	2.7	1	6.4	-1	1.0	-1	0.421	1	2.577	1	6.117	-1	1780	45	1.5
45037.8	10000	41.2877	92.9166	-968	QK	2.7	1	6.5	-1	1.0	-1	0.413	1	2.752	1	6.664	0	1776	44	1.5
45037.7	10000	41.2877	92.9158	-968	QK	2.7	1	6.3	-1	1.0	-1	0.429	1	2.602	1	6.065	-1	1784	43	1.5
45037.6	10000	41.2877	92.9150	-967	QK	2.8	1	6.5	-1	1.0	-1	0.425	1	2.666	1	6.278	0	1819	43	1.5
45037.5	10000	41.2877	92.9142	-967	QK	2.5	1	7.0	0	1.1	0	0.350	0	2.285	0	6.530	0	1846	40	1.5
45037.4	10000	41.2877	92.9134	-967	QK	2.3	1	7.6	0	1.1	0	0.310	-1	2.144	0	6.922	1	1894	45	1.5
45037.3	10000	41.2877	92.9126	-967	QK	2.2	1	8.1	1	1.1	1	0.267	-1	1.914	-1	7.169	1	1929	47	1.5
45037.2	10000	41.2877	92.9117	-967	QK	2.3	1	8.1	1	1.2	1	0.283	-1	1.913	-1	6.756	0	1953	34	1.5
45037.1	10000	41.2877	92.9109	-967	QK	2.2	1	8.2	1	1.2	1	0.273	-1	1.803	-1	6.594	0	1971	48	1.5
45037.0	10000	41.2877	92.9101	-966	QK	2.2	-1	8.5	2	1.3	1	0.263	-1	1.774	-1	6.743	0	2001	33	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45036.9	10000	41.2877	92.9093	-965	QK	2.3	-1	8.7	2	1.3	1	0.260	-1	1.794	-1	6.899	1	2018	43	1.5
45036.8	10000	41.2877	92.9085	-965	QK	2.6	0	8.7	2	1.2	1	0.297	-1	2.087	0	7.039	1	2018	49	1.5
45036.7	10000	41.2877	92.9077	-962	QK	2.5	0	8.7	2	1.2	1	0.287	-1	2.094	0	7.303	1	2019	38	1.5
45036.6	10000	41.2877	92.9068	-957	QK	2.6	0	8.5	2	1.2	1	0.312	-1	2.227	0	7.147	1	2019	54	1.5
45036.5	10000	41.2877	92.9060	-958	QK	2.5	0	8.5	2	1.1	0	0.293	-1	2.189	0	7.481	1	2020	46	1.5
45036.4	10000	41.2877	92.9052	-960	QK	2.8	1	8.5	2	1.2	0	0.330	0	2.413	0	7.316	1	2022	50	1.5
45036.3	10000	41.2877	92.9044	-958	QK	2.8	1	8.3	1	1.1	0	0.339	0	2.506	0	7.394	1	1994	50	1.5
45036.2	10000	41.2877	92.9036	-955	QK	2.7	0	7.7	1	1.1	0	0.349	0	2.385	0	6.834	0	1985	55	1.5
45036.1	10000	41.2877	92.9028	-951	QK	2.8	1	7.7	1	1.2	0	0.371	0	2.452	0	6.611	0	2006	49	1.6
45036.0	10000	41.2877	92.9020	-948	QK	3.1	1	7.4	0	1.2	0	0.422	0	2.654	0	6.289	0	1992	47	1.6
45035.9	10000	41.2877	92.9012	-948	QK	3.0	1	7.8	1	1.2	1	0.383	0	2.498	0	6.529	0	2002	37	1.6
45035.8	10000	41.2877	92.9003	-947	QK	3.0	1	7.6	1	1.2	1	0.396	0	2.460	0	6.209	0	1990	51	1.6
45035.7	10000	41.2877	92.8995	-945	QK	2.7	0	7.2	1	1.2	1	0.377	0	2.254	0	5.981	-1	1998	39	1.6
45035.6	10000	41.2877	92.8987	-942	QK	3.0	1	7.3	1	1.3	1	0.410	1	2.379	0	5.799	-1	2024	43	1.6
45035.5	10000	41.2877	92.8979	-940	QK	3.2	1	7.5	1	1.2	1	0.431	1	2.643	1	6.129	-1	2015	44	1.6
45035.4	10000	41.2877	92.8971	-940	QK	2.9	1	7.2	1	1.2	1	0.405	1	2.424	0	5.980	-1	1989	39	1.6
45035.3	10000	41.2877	92.8963	-940	QK	2.9	1	7.3	1	1.2	1	0.401	1	2.402	0	5.997	-1	2001	47	1.6
45035.2	10000	41.2877	92.8954	-940	QK	3.0	1	7.0	0	1.1	0	0.426	1	2.615	1	6.140	0	1991	37	1.6
45035.1	10000	41.2876	92.8946	-939	QK	3.1	1	7.3	0	1.1	0	0.425	1	2.834	1	6.672	0	1998	40	1.6
45035.0	10000	41.2876	92.8938	-940	QK	3.4	2	7.6	1	1.1	0	0.438	1	3.076	2	7.020	1	1997	41	1.6
45034.9	10000	41.2876	92.8930	-942	QK	3.2	1	7.6	1	1.1	0	0.423	1	2.999	2	7.090	1	1990	57	1.6
45034.8	10000	41.2876	92.8922	-944	QK	3.0	1	7.6	0	1.1	0	0.394	1	2.653	1	6.738	0	1988	41	1.6
45034.7	10000	41.2876	92.8914	-945	QK	2.9	1	7.5	0	1.1	0	0.381	0	2.520	1	6.611	0	1988	46	1.7
45034.6	10000	41.2876	92.8906	-945	QK	2.5	0	7.5	0	1.1	0	0.336	0	2.223	0	6.615	0	1974	43	1.7
45034.5	10000	41.2876	92.8898	-944	QK	2.4	0	7.2	0	1.1	0	0.337	0	2.060	-1	6.107	-1	1982	36	1.7
45034.4	10000	41.2876	92.8889	-945	QK	2.3	0	7.3	0	1.2	0	0.321	0	1.886	-1	5.881	-1	1986	38	1.7
45034.3	10000	41.2876	92.8881	-949	QK	2.2	-1	7.5	0	1.2	0	0.289	-1	1.792	-1	6.210	0	1969	43	1.7
45034.2	10000	41.2876	92.8873	-951	QK	2.2	-1	7.6	0	1.2	0	0.285	-1	1.809	-1	6.352	0	1972	41	1.7
45034.1	10000	41.2876	92.8865	-953	QK	2.1	-1	8.0	1	1.2	0	0.265	-1	1.818	-1	6.869	1	1977	46	1.7
45034.0	10000	41.2876	92.8857	-955	QK	2.2	-1	8.7	1	1.2	0	0.253	-1	1.890	-1	7.472	1	2002	33	1.7
45033.9	10000	41.2876	92.8849	-958	QK	2.2	-1	8.6	1	1.2	0	0.260	-1	1.871	-1	7.206	1	2033	44	1.7
45033.8	10000	41.2876	92.8840	-959	QK	2.4	0	8.5	2	1.2	0	0.283	0	2.061	0	7.275	1	2015	45	1.7
45033.7	10000	41.2876	92.8832	-961	QK	2.8	0	8.3	2	1.1	0	0.337	0	2.484	0	7.377	1	2008	30	1.7
45033.6	10000	41.2876	92.8824	-962	QK	2.8	0	8.2	2	1.1	0	0.338	0	2.472	0	7.322	1	2011	47	1.7
45033.5	10000	41.2876	92.8816	-964	QK	2.9	0	8.2	2	1.1	0	0.347	0	2.526	1	7.288	1	1998	42	1.8
45033.4	10000	41.2876	92.8808	-966	QK	3.0	0	7.8	1	1.1	0	0.373	0	2.594	1	6.955	1	1989	40	1.8
45033.3	10000	41.2876	92.8800	-971	QK	3.2	0	7.4	1	1.1	0	0.405	0	2.691	1	6.645	1	1963	41	1.8
45033.2	10000	41.2876	92.8792	-974	QK	3.3	0	7.6	1	1.1	0	0.432	0	3.052	2	7.065	1	1933	43	1.8
45033.1	10000	41.2876	92.8784	-975	QAL	2.7	0	7.7	1	1.1	0	0.415	0	2.895	1	6.934	1	1948	48	1.8
45033.0	10000	41.2876	92.8775	-972	QAL	2.7	0	7.5	1	1.1	0	0.359	0	2.335	1	6.499	1	1963	40	1.8
45032.9	10000	41.2876	92.8767	-969	QAL	2.7	0	7.2	1	1.2	1	0.378	1	2.231	1	5.903	1	1942	48	1.8
45032.8	10000	41.2876	92.8759	-968	QAL	2.7	0	7.0	1	1.2	1	0.381	1	2.271	1	5.961	1	1933	42	1.8
45032.7	10000	41.2876	92.8751	-966	QAL	2.6	0	7.0	1	1.2	1	0.368	1	2.169	1	5.897	1	1934	41	1.8
45032.6	10000	41.2876	92.8743	-965	QAL	2.6	0	6.6	1	1.2	1	0.386	1	2.149	1	5.564	0	1938	45	1.8
45032.5	10000	41.2876	92.8735	-964	QAL	2.5	0	6.6	1	1.2	1	0.387	1	2.000	1	5.167	-1	1971	54	1.8
45032.4	10000	41.2876	92.8727	-963	QAL	2.3	0	6.7	1	1.2	1	0.338	1	1.855	0	5.479	-1	1960	42	1.8
45032.3	10000	41.2876	92.8718	-962	QAL	2.2	0	6.5	1	1.2	1	0.343	1	1.893	0	5.524	-1	1967	52	1.8
45032.2	10000	41.2875	92.8710	-960	QAL	2.4	0	6.7	1	1.2	1	0.359	1	2.079	1	5.792	0	2000	33	1.8
45032.1	10000	41.2875	92.8702	-959	QAL	2.6	0	7.0	1	1.3	1	0.373	1	2.085	1	5.590	-1	2021	40	1.8
45032.0	10000	41.2875	92.8694	-957	QAL	2.7	0	7.0	1	1.3	1	0.387	1	2.154	1	5.571	-1	2028	41	1.8
45031.9	10000	41.2875	92.8686	-956	QAL	2.7	0	7.5	1	1.3	1	0.363	1	2.159	1	5.942	0	2029	43	1.8
45031.8	10000	41.2875	92.8678	-955	QAL	2.6	0	7.3	1	1.2	1	0.362	0	2.126	0	5.874	0	2015	43	1.8

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45031.7	10000	41.2875	92.8670	-953	QAL	2.8	1	7.1	1	1.2	1	0.403	0	2.338	0	5.799	0	1986	34	1.8
45031.6	10000	41.2875	92.8661	-952	QAL	3.0	1	7.1	1	1.2	1	0.427	1	2.627	1	6.155	0	1917	37	1.8
45031.5	10000	41.2875	92.8653	-951	QAL	2.9	1	6.5	0	1.1	0	0.443	1	2.728	1	6.161	0	1784	34	1.8
45031.4	10000	41.2875	92.8645	-950	QAL	2.5	0	5.9	-1	0.9	-1	0.424	0	2.698	1	6.370	0	1667	32	1.8
45031.3	10000	41.2875	92.8637	-951	QAL	2.2	-1	5.6	-1	0.9	-1	0.385	0	2.434	0	6.320	0	1581	33	1.8
45031.2	10000	41.2875	92.8629	-952	QAL	1.8	-1	5.0	-2	0.9	-1	0.362	0	2.045	0	5.656	-1	1515	47	1.8
45031.1	10000	41.2875	92.8621	-951	QAL	2.0	-1	4.9	-2	0.8	-2	0.400	0	2.384	0	5.957	0	1441	48	1.8
45031.0	10000	41.2875	92.8613	-947	QAL	1.8	-1	4.9	-2	0.8	-2	0.377	0	2.350	0	6.241	0	1412	52	1.8
45030.9	10000	41.2875	92.8604	-942	QAL	1.9	-1	4.8	-2	0.8	-2	0.401	0	2.389	0	5.962	0	1431	42	1.8
45030.8	10000	41.2875	92.8596	-936	QAL	1.9	-1	5.2	-1	0.9	-1	0.359	0	2.099	0	5.846	0	1512	41	1.8
45030.7	10000	41.2875	92.8588	-932	QAL	1.9	-1	5.5	-1	1.0	-1	0.344	0	1.965	-1	5.709	-1	1585	36	1.8
45030.6	10000	41.2875	92.8580	-932	QAL	2.2	0	5.6	-1	1.0	0	0.395	0	2.180	0	5.524	-1	1663	42	1.8
45030.5	10000	41.2875	92.8572	-932	QAL	2.5	0	5.9	-1	1.0	0	0.424	1	2.402	0	5.670	-1	1729	48	1.8
45030.4	10000	41.2875	92.8564	-930	QAL	2.2	-1	6.1	0	1.1	0	0.357	0	2.015	-1	5.641	-1	1769	41	1.8
45030.3	10000	41.2875	92.8556	-929	QAL	2.3	0	6.0	-1	1.1	0	0.383	0	2.053	0	5.358	-1	1812	47	1.8
45030.2	10000	41.2875	92.8547	-929	QAL	2.1	-1	6.2	0	1.2	1	0.337	0	1.786	-1	5.308	-1	1822	42	1.8
45030.1	10000	41.2875	92.8539	-928	QAL	2.0	-1	5.8	-1	1.2	1	0.350	0	1.765	-1	5.039	-1	1803	39	1.8
45030.0	10000	41.2875	92.8531	-928	QAL	2.1	-1	5.9	-1	1.2	1	0.352	0	1.791	-1	5.084	-1	1787	56	1.8
45029.9	10000	41.2875	92.8523	-931	QAL	2.1	-1	5.8	-1	1.1	0	0.357	0	1.856	-1	5.197	-1	1761	39	1.8
45029.8	10000	41.2875	92.8515	-933	QAL	2.1	-1	5.8	-1	1.1	0	0.354	0	1.926	-1	5.437	-1	1733	47	1.8
45029.7	10000	41.2875	92.8507	-934	QAL	2.0	-1	5.6	-1	1.0	0	0.351	0	1.877	-1	5.346	-1	1739	42	1.8
45029.6	10000	41.2875	92.8499	-936	QAL	2.1	-1	6.0	-1	1.1	0	0.345	0	1.890	-1	5.471	-1	1744	62	1.8
45029.5	10000	41.2875	92.8490	-937	QAL	2.0	-1	6.1	0	1.1	0	0.332	-1	1.850	-1	5.574	-1	1790	53	1.8
45029.4	10000	41.2875	92.8482	-940	QAL	2.1	-1	6.8	0	1.1	0	0.311	-1	1.848	-1	5.950	0	1843	51	1.8
45029.3	10000	41.2875	92.8474	-942	QAL	2.1	-1	6.9	0	1.2	1	0.307	-1	1.818	-1	5.919	0	1892	39	1.8
45029.2	10000	41.2875	92.8466	-945	QAL	2.2	0	6.7	0	1.2	1	0.334	-1	1.926	-1	5.767	0	1923	36	1.8
45029.1	10000	41.2874	92.8458	-948	QAL	2.1	-1	6.8	0	1.2	1	0.303	-1	1.736	-1	5.740	0	1928	56	1.8
45029.0	10000	41.2874	92.8450	-951	QAL	2.5	0	7.4	1	1.2	1	0.339	0	2.109	0	6.219	0	1919	45	1.8
45028.9	10000	41.2874	92.8441	-955	QAL	2.4	0	7.4	1	1.1	0	0.330	-1	2.152	0	6.520	1	1893	51	1.8
45028.8	10000	41.2874	92.8433	-959	QAL	2.6	0	7.1	1	1.1	1	0.365	0	2.325	0	6.364	0	1857	40	1.7
45028.7	10000	41.2874	92.8425	-962	QAL	2.4	0	6.6	0	1.1	1	0.365	0	2.236	0	6.126	0	1810	54	1.7
45028.6	10000	41.2874	92.8417	-965	QAL	2.2	0	6.3	0	1.0	0	0.356	0	2.205	0	6.188	0	1739	35	1.7
45028.5	10000	41.2874	92.8409	-968	QK	2.0	-1	6.0	-2	1.0	-1	0.342	0	2.054	0	6.008	-1	1676	35	1.7
45028.4	10000	41.2874	92.8401	-972	QK	2.2	-1	5.7	-2	0.9	-2	0.379	0	2.362	0	6.227	0	1631	37	1.7
45028.3	10000	41.2874	92.8393	-977	QK	2.1	-1	5.5	-2	0.8	-2	0.379	0	2.501	0	6.602	0	1608	53	1.7
45028.2	10000	41.2874	92.8385	-983	QK	2.0	-1	5.5	-2	0.9	-2	0.369	0	2.383	0	6.458	0	1603	42	1.7
45028.1	10000	41.2874	92.8376	-988	QK	2.1	-1	5.5	-2	0.8	-2	0.379	0	2.502	0	6.603	0	1596	41	1.7
45028.0	10000	41.2874	92.8368	-993	QK	2.4	0	5.8	-2	0.8	-2	0.416	1	2.841	1	6.827	0	1612	47	1.7
45027.9	10000	41.2874	92.8360	-997	QK	2.5	0	6.1	-2	0.9	-2	0.410	1	2.800	1	6.822	0	1658	39	1.7
45027.8	10000	41.2874	92.8352	-1001	QK	2.5	0	6.6	-1	0.9	-1	0.376	0	2.613	1	6.949	1	1705	39	1.7
45027.7	10000	41.2874	92.8344	-1005	QK	2.4	0	6.7	-1	1.0	-1	0.361	0	2.311	0	6.397	0	1753	59	1.6
45027.6	10000	41.2874	92.8336	-1008	QK	2.5	0	6.7	-1	1.1	0	0.370	0	2.249	0	6.069	-1	1776	39	1.6
45027.5	10000	41.2874	92.8327	-1012	QK	2.4	0	6.6	-1	1.1	0	0.354	0	2.084	0	5.885	-1	1810	40	1.6
45027.4	10000	41.2874	92.8319	-1016	QK	2.3	0	6.7	-1	1.1	0	0.344	0	2.031	0	5.901	-1	1836	46	1.6
45027.3	10000	41.2874	92.8311	-1019	QK	2.5	0	6.7	-1	1.2	0	0.376	0	2.128	0	5.665	-1	1853	55	1.6
45027.2	10000	41.2874	92.8303	-1022	QK	2.4	0	6.8	-1	1.1	0	0.347	0	2.061	0	5.941	-1	1867	49	1.6
45027.1	10000	41.2874	92.8295	-1024	QK	2.6	0	6.9	0	1.1	0	0.373	0	2.288	0	6.129	-1	1887	47	1.6
45027.0	10000	41.2874	92.8287	-1025	QK	2.9	0	6.9	0	1.1	0	0.414	1	2.589	1	6.259	0	1912	42	1.6
45026.9	10000	41.2874	92.8279	-1026	QK	2.6	0	7.2	0	1.1	0	0.361	0	2.278	0	6.308	0	1935	45	1.6
45026.8	10000	41.2874	92.8271	-1028	QK	2.8	0	7.2	0	1.2	0	0.382	0	2.366	0	6.191	0	1951	47	1.5
45026.7	10000	41.2874	92.8262	-1029	QK	2.7	0	7.8	1	1.2	1	0.343	0	2.207	0	6.432	0	1963	45	1.5
45026.6	10000	41.2873	92.8254	-1029	QK	2.2	-1	7.9	1	1.2	1	0.282	-1	1.857	-1	6.583	0	1968	41	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45026.5	10000	41.2873	92.8246	-1030	QK	2.6	0	7.5	0	1.3	1	0.345	0	2.023	-1	5.870	-1	1992	40	1.5
45026.4	10000	41.2873	92.8238	-1030	QK	2.2	-1	7.5	0	1.3	1	0.297	-1	1.738	-1	5.856	-1	1986	45	1.5
45026.3	10000	41.2873	92.8230	-1029	QK	2.1	-1	7.9	1	1.3	1	0.266	-1	1.613	-1	6.061	-1	1973	42	1.5
45026.2	10000	41.2873	92.8222	-1028	QK	2.2	-1	8.0	1	1.3	2	0.270	-1	1.671	-1	6.184	0	1973	53	1.5
45026.1	10000	41.2872	92.8214	-1027	QK	2.0	-1	7.9	1	1.3	2	0.258	-1	1.559	-1	6.033	-1	1969	40	1.5
45026.0	10000	41.2872	92.8206	-1026	QK	2.1	-1	7.4	0	1.3	1	0.285	-1	1.659	-1	5.812	-1	1955	43	1.5
45025.9	10000	41.2872	92.8197	-1024	QK	2.4	0	7.4	0	1.3	1	0.321	0	1.879	-1	5.860	-1	1962	41	1.5
45025.8	10000	41.2872	92.8189	-1025	QK	2.6	0	7.6	1	1.2	1	0.341	0	2.093	0	6.137	0	1947	42	1.4
45025.7	10000	41.2871	92.8181	-1024	QK	2.8	1	7.5	1	1.2	1	0.369	0	2.259	0	6.118	-1	1941	42	1.4
45025.6	10000	41.2871	92.8173	-1024	QK	2.7	0	7.4	0	1.2	1	0.369	0	2.264	0	6.143	0	1943	36	1.4
45025.5	10000	41.2871	92.8165	-1022	QK	3.0	1	7.4	0	1.2	1	0.402	1	2.423	0	6.026	-1	1939	43	1.4
45025.4	10000	41.2871	92.8157	-1020	QK	2.9	1	7.5	0	1.2	1	0.389	1	2.419	0	6.225	0	1934	41	1.4
45025.3	10000	41.2871	92.8149	-1018	QK	3.0	1	8.0	1	1.2	1	0.372	0	2.402	0	6.449	0	1951	42	1.4
45025.2	10000	41.2870	92.8141	-1016	QK	3.0	1	7.8	1	1.2	1	0.385	0	2.428	0	6.311	0	1943	42	1.4
45025.1	10000	41.2870	92.8132	-1014	QK	2.6	0	7.7	1	1.2	1	0.340	0	2.189	0	6.430	0	1925	36	1.4
45025.0	10000	41.2870	92.8124	-1012	QK	2.6	0	7.6	1	1.2	1	0.344	0	2.205	0	6.404	0	1930	38	1.4
45024.9	10000	41.2870	92.8116	-1010	QK	2.7	0	7.6	1	1.2	0	0.351	0	2.275	0	6.474	0	1931	44	1.3
45024.8	10000	41.2869	92.8108	-1007	QK	2.5	0	7.4	0	1.2	0	0.333	0	2.121	0	6.374	0	1918	49	1.3
45024.7	10000	41.2869	92.8100	-1004	QK	2.7	0	7.2	0	1.2	1	0.370	0	2.192	0	5.918	-1	1930	33	1.3
45024.6	10000	41.2869	92.8092	-1002	QK	2.6	0	6.9	0	1.3	1	0.370	0	2.042	0	5.516	-1	1926	39	1.3
45024.5	10000	41.2869	92.8084	-999	QK	2.7	0	7.2	0	1.2	1	0.372	0	2.200	0	5.921	-1	1929	34	1.3
45024.4	10000	41.2869	92.8076	-997	QK	2.9	1	7.5	0	1.3	1	0.384	0	2.281	0	5.938	-1	1942	47	1.3
45024.3	10000	41.2868	92.8067	-993	QK	2.9	1	7.5	0	1.3	2	0.384	0	2.203	0	5.732	-1	1951	42	1.3
45024.2	10000	41.2868	92.8059	-991	QK	2.8	1	7.1	0	1.4	2	0.398	1	2.085	0	5.238	-2	1948	35	1.3
45024.1	10000	41.2868	92.8051	-988	QK	2.6	0	7.2	0	1.4	2	0.366	0	1.862	-1	5.089	-2	1971	50	1.3
45024.0	10000	41.2868	92.8043	-986	QK	2.5	0	7.4	0	1.3	2	0.341	0	1.867	-1	5.480	-1	1956	53	1.3
45023.9	10000	41.2867	92.8035	-983	QK	2.6	0	7.3	0	1.3	2	0.359	0	1.965	-1	5.471	-1	1957	52	1.3
45023.8	10000	41.2867	92.8027	-980	QK	2.4	0	7.2	0	1.4	2	0.331	0	1.712	-1	5.176	-2	1954	43	1.3
45023.7	10000	41.2867	92.8019	-977	QK	2.2	-1	7.3	0	1.4	2	0.302	-1	1.569	-1	5.203	-2	1960	40	1.2
45023.6	10000	41.2867	92.8011	-974	QK	2.3	-1	7.2	0	1.3	2	0.319	-1	1.715	-1	5.369	-2	1945	37	1.2
45023.5	10000	41.2867	92.8002	-971	QK	2.2	-1	7.3	0	1.3	2	0.304	-1	1.673	-1	5.495	-1	1959	30	1.2
45023.4	10000	41.2866	92.7994	-968	QK	2.7	0	7.2	0	1.3	1	0.378	0	2.108	0	5.571	-1	1947	51	1.2
45023.3	10000	41.2866	92.7986	-965	QK	2.7	0	7.2	0	1.3	1	0.370	0	2.078	0	5.610	-1	1941	49	1.2
45023.2	10000	41.2866	92.7978	-963	QK	2.6	0	7.2	1	1.3	1	0.363	0	2.127	0	5.853	-1	1944	35	1.2
45023.1	10000	41.2866	92.7970	-960	QK	2.8	1	7.5	1	1.2	1	0.378	0	2.361	0	6.244	0	1947	45	1.2
45023.0	10000	41.2865	92.7962	-957	QK	2.8	1	7.4	0	1.2	1	0.374	0	2.339	0	6.248	0	1943	41	1.2
45022.9	10000	41.2865	92.7954	-955	QK	2.9	1	7.8	1	1.2	1	0.370	0	2.407	0	6.499	0	1950	41	1.2
45022.8	10000	41.2865	92.7946	-951	QK	2.9	1	7.8	1	1.1	0	0.368	0	2.540	1	6.909	1	1919	50	1.2
45022.7	10000	41.2865	92.7938	-948	QK	2.7	0	8.0	1	1.1	0	0.342	0	2.528	1	7.401	1	1918	37	1.2
45022.6	10000	41.2865	92.7929	-945	QK	3.0	0	8.1	1	1.1	0	0.373	0	2.725	1	7.302	1	1937	54	1.2
45022.5	10000	41.2864	92.7921	-944	QK	3.0	0	8.2	1	1.1	0	0.364	0	2.660	1	7.307	1	1942	42	1.2
45022.4	10000	41.2864	92.7913	-942	QK	2.9	0	8.3	1	1.2	0	0.346	0	2.480	1	7.159	1	1966	38	1.2
45022.3	10000	41.2864	92.7905	-940	QK	2.9	0	8.1	1	1.2	0	0.359	0	2.436	0	6.783	0	1969	50	1.2
45022.2	10000	41.2864	92.7897	-937	QK	2.7	0	7.9	1	1.2	0	0.341	0	2.198	0	6.452	0	1961	40	1.2
45022.1	10000	41.2863	92.7889	-935	QK	2.6	0	8.0	1	1.3	0	0.329	0	2.065	0	6.277	0	1979	56	1.1
45022.0	10000	41.2863	92.7881	-933	QK	2.6	0	8.2	1	1.3	1	0.315	0	1.961	-1	6.217	0	1989	46	1.1
45021.9	10000	41.2863	92.7873	-931	QK	2.2	-1	8.0	1	1.3	1	0.271	-1	1.722	-1	6.360	0	1979	45	1.1
45021.8	10000	41.2863	92.7865	-929	QK	2.3	-1	8.3	1	1.3	2	0.275	-1	1.746	-1	6.357	0	1985	42	1.1
45021.7	10000	41.2863	92.7856	-927	QK	2.4	0	8.0	1	1.2	2	0.303	-1	1.993	-1	6.570	0	1968	47	1.1
45021.6	10000	41.2862	92.7848	-925	QK	2.5	0	8.2	1	1.2	2	0.309	-1	2.046	0	6.620	0	1965	42	1.1
45021.5	10000	41.2862	92.7840	-923	QK	2.5	0	8.2	1	1.2	2	0.307	-1	2.017	-1	6.559	0	1979	50	1.1
45021.4	10000	41.2862	92.7832	-921	QK	2.6	0	8.4	2	1.2	0	0.309	-1	2.207	0	7.143	1	1966	50	1.1

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45021.3	10000	41.2862	92.7824	-920	QK	2.5	0	8.0	1	1.2	1	0.309	-1	2.107	0	6.809	0	1949	41	1.1
45021.2	10000	41.2861	92.7816	-919	QK	2.7	0	7.7	1	1.2	1	0.351	0	2.291	0	6.533	0	1931	34	1.1
45021.1	10000	41.2861	92.7808	-918	QK	2.9	1	7.7	1	1.2	0	0.382	0	2.534	1	6.640	0	1899	43	1.1
45021.0	10000	41.2861	92.7800	-917	QK	2.6	0	7.5	0	1.2	1	0.343	0	2.132	0	6.214	0	1873	48	1.1
45020.9	10000	41.2861	92.7791	-916	QK	2.5	0	7.6	1	1.2	1	0.329	0	2.107	0	6.407	0	1847	40	1.1
45020.8	10000	41.2860	92.7783	-914	QK	2.7	0	6.9	0	1.1	0	0.389	1	2.441	0	6.282	0	1807	41	1.1
45020.7	10000	41.2860	92.7775	-912	QK	2.7	0	6.4	-1	1.1	0	0.428	1	2.517	1	5.885	-1	1775	40	1.1
45020.6	10000	41.2860	92.7767	-911	QK	2.9	1	6.3	-1	1.1	-1	0.462	2	2.755	1	5.968	-1	1743	44	1.1
45020.5	10000	41.2860	92.7759	-910	QK	2.9	1	6.1	-2	1.1	0	0.470	2	2.673	1	5.687	-1	1724	48	1.1
45020.4	10000	41.2860	92.7751	-910	QK	2.8	1	5.9	-2	1.0	-1	0.480	2	2.758	1	5.743	-1	1722	39	1.1
45020.3	10000	41.2859	92.7743	-909	QK	2.9	1	5.6	-2	1.0	-1	0.521	2	2.900	1	5.567	-1	1722	39	1.1
45020.2	10000	41.2859	92.7735	-907	QK	2.9	1	5.4	-3	1.0	-1	0.548	3	2.992	2	5.463	-1	1732	38	1.1
45020.1	10000	41.2859	92.7726	-907	QK	3.0	1	6.0	-2	1.0	-1	0.498	2	2.892	1	5.807	-1	1768	47	1.1
45020.0	10000	41.2859	92.7718	-906	QK	3.1	1	6.2	-1	1.1	0	0.498	2	2.886	1	5.800	-1	1803	41	1.1
45019.9	10000	41.2859	92.7710	-905	QK	3.2	1	6.2	-1	1.1	0	0.512	2	2.937	1	5.731	-1	1837	47	1.1
45019.8	10000	41.2858	92.7702	-904	QK	3.2	1	6.7	-1	1.0	-1	0.473	2	3.051	2	6.443	0	1864	47	1.1
45019.7	10000	41.2858	92.7694	-904	QK	3.4	2	6.7	-1	1.1	0	0.506	2	3.137	2	6.202	0	1878	53	1.1
45019.6	10000	41.2858	92.7686	-903	QK	3.5	2	7.1	0	1.1	0	0.495	2	3.235	2	6.532	0	1908	48	1.1
45019.5	10000	41.2858	92.7678	-903	QK	3.7	3	7.3	0	1.1	0	0.514	2	3.395	2	6.602	0	1910	54	1.1
45019.4	10000	41.2857	92.7670	-903	QK	3.8	3	6.9	0	1.1	0	0.549	3	3.543	3	6.451	0	1899	45	1.1
45019.3	10000	41.2857	92.7661	-902	QK	3.7	2	6.8	-1	1.1	0	0.543	3	3.328	2	6.125	-1	1898	41	1.1
45019.2	10000	41.2857	92.7653	-902	QK	3.5	2	7.1	0	1.1	0	0.490	2	3.103	2	6.331	0	1875	32	1.1
45019.1	10000	41.2857	92.7645	-902	QK	3.6	2	7.0	0	1.1	0	0.507	2	3.137	2	6.189	0	1867	41	1.1
45019.0	10000	41.2857	92.7637	-902	QK	3.0	1	7.1	0	1.1	0	0.425	1	2.640	1	6.212	0	1862	36	1.1
45018.9	10000	41.2856	92.7629	-902	QK	3.0	1	7.0	0	1.2	0	0.431	1	2.592	1	6.017	-1	1855	36	1.1
45018.8	10000	41.2856	92.7621	-900	QK	3.1	1	7.0	0	1.2	0	0.435	1	2.635	1	6.061	-1	1864	42	1.1
45018.7	10000	41.2856	92.7613	-898	QK	2.8	1	7.4	0	1.2	0	0.371	0	2.370	0	6.381	0	1868	48	1.1
45018.6	10000	41.2856	92.7605	-898	QK	2.6	0	8.0	1	1.1	0	0.322	0	2.275	0	7.061	1	1881	27	1.1
45018.5	10000	41.2855	92.7596	-899	QK	2.6	0	8.0	1	1.2	0	0.329	0	2.259	0	6.876	1	1916	39	1.1
45018.4	10000	41.2855	92.7588	-898	QK	2.5	0	7.8	1	1.2	0	0.317	0	2.109	0	6.657	0	1931	52	1.1
45018.3	10000	41.2855	92.7580	-898	QK	2.6	0	7.6	1	1.2	0	0.347	0	2.146	0	6.185	0	1941	36	1.1
45018.2	10000	41.2855	92.7572	-898	QK	2.7	0	7.5	1	1.2	0	0.364	0	2.210	0	6.075	-1	1949	40	1.1
45018.1	10000	41.2854	92.7564	-898	QK	2.8	1	7.4	1	1.3	0	0.383	0	2.235	0	5.830	-1	1977	36	1.1
45018.0	10000	41.2854	92.7556	-898	QK	3.1	1	7.1	2	1.3	0	0.432	1	2.336	0	5.407	-2	2004	40	1.1
45017.9	10000	41.2854	92.7548	-897	QK	3.3	2	7.0	2	1.3	1	0.471	1	2.541	1	5.393	-2	2016	55	1.1
45017.8	10000	41.2854	92.7540	-896	QK	3.4	2	7.0	1	1.3	1	0.479	1	2.600	1	5.432	-1	2028	37	1.1
45017.7	10000	41.2854	92.7532	-895	QK	3.5	2	7.4	1	1.3	1	0.476	1	2.748	1	5.775	-1	2043	40	1.1
45017.6	10000	41.2853	92.7523	-894	QK	3.5	2	7.6	1	1.2	1	0.459	1	2.814	1	6.136	0	2044	40	1.1
45017.5	10000	41.2853	92.7515	-894	QK	3.7	2	7.6	1	1.2	1	0.483	1	2.954	1	6.122	-1	2048	57	1.1
45017.4	10000	41.2853	92.7507	-893	QK	3.6	2	7.8	1	1.2	1	0.462	1	2.897	1	6.276	0	2040	37	1.1
45017.3	10000	41.2853	92.7499	-892	QK	3.8	2	8.1	1	1.2	1	0.440	1	3.101	2	7.045	1	2074	39	1.1
45017.2	10000	41.2852	92.7491	-890	QK	3.8	2	8.6	1	1.2	1	0.448	1	3.100	2	6.916	1	2104	61	1.1
45017.1	10000	41.2852	92.7483	-889	QK	3.9	2	8.4	1	1.2	1	0.460	1	3.115	2	6.764	0	2115	41	1.1
45017.0	10000	41.2852	92.7475	-887	QK	4.1	2	8.2	1	1.3	1	0.503	1	3.265	2	6.492	0	2133	36	1.1
45016.9	10000	41.2852	92.7467	-885	QK	4.1	2	8.9	2	1.3	1	0.468	1	3.170	2	6.778	0	2142	35	1.1
45016.8	10000	41.2852	92.7458	-884	QK	3.9	2	9.0	2	1.3	1	0.439	1	3.085	2	7.031	1	2141	46	1.1
45016.7	10000	41.2851	92.7450	-883	QK	3.6	2	9.4	2	1.3	1	0.400	1	2.871	2	7.180	1	2125	39	1.1
45016.6	10000	41.2851	92.7442	-881	QK	3.0	1	8.7	2	1.2	1	0.357	1	2.424	1	6.791	0	2058	43	1.1
45016.5	10000	41.2851	92.7434	-879	QK	2.9	1	8.0	1	1.2	1	0.361	1	2.393	1	6.632	0	2008	48	1.1
45016.4	10000	41.2851	92.7426	-876	QK	2.9	1	7.6	1	1.3	0	0.351	0	2.235	0	6.372	0	1969	40	1.1
45016.3	10000	41.2850	92.7418	-874	QK	2.6	1	8.1	1	1.3	0	0.324	0	2.031	0	6.275	0	1937	44	1.1
45016.2	10000	41.2850	92.7410	-872	QK	2.5	0	7.5	0	1.3	1	0.340	0	2.038	0	5.992	-1	1915	40	1.1

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45016.1	10000	41.2850	92.7402	-869	QK	2.5	0	7.3	0	1.2	1	0.339	0	1.982	-1	5.843	-1	1892	40	1.1
45016.0	10000	41.2850	92.7393	-867	QK	2.7	0	7.2	0	1.2	1	0.370	0	2.168	0	5.861	-1	1878	46	1.1
45015.9	10000	41.2849	92.7385	-864	QK	3.3	2	7.1	0	1.2	1	0.460	2	2.778	1	6.043	-1	1887	41	1.1
45015.8	10000	41.2849	92.7377	-862	QK	3.3	2	7.1	0	1.2	0	0.455	1	2.801	1	6.150	0	1892	41	1.1
45015.7	10000	41.2849	92.7369	-859	QK	3.3	2	7.2	0	1.1	0	0.457	1	2.967	1	6.485	0	1892	36	1.1
45015.6	10000	41.2849	92.7361	-856	QK	3.2	1	7.3	0	1.1	0	0.442	1	2.915	1	6.595	0	1898	49	1.1
45015.5	10000	41.2849	92.7353	-853	QK	3.4	2	7.5	0	1.1	0	0.447	1	3.054	2	6.837	1	1901	44	1.1
45015.4	10000	41.2848	92.7345	-850	QK	3.2	1	7.7	1	1.1	0	0.416	1	2.900	1	6.976	1	1909	47	1.1
45015.3	10000	41.2848	92.7337	-847	QK	3.2	1	7.9	1	1.1	0	0.400	1	2.752	1	6.879	1	1912	36	1.1
45015.2	10000	41.2848	92.7328	-843	QK	2.5	0	8.1	1	1.2	0	0.314	-1	2.157	0	6.870	1	1912	41	1.1
45015.1	10000	41.2848	92.7320	-840	QK	2.4	0	8.2	1	1.2	0	0.292	-1	2.031	0	6.947	1	1912	45	1.1
45015.0	10000	41.2847	92.7312	-838	QK	2.5	0	8.5	2	1.2	0	0.293	-1	2.109	0	7.202	1	1923	33	1.1
45014.9	10000	41.2847	92.7304	-836	QK	2.7	0	8.9	2	1.2	1	0.298	-1	2.240	0	7.514	1	1920	35	1.1
45014.8	10000	41.2847	92.7296	-834	QK	2.7	0	8.6	2	1.2	1	0.308	-1	2.209	0	7.161	1	1922	51	1.1
45014.7	10000	41.2847	92.7288	-832	QK	2.5	0	8.5	2	1.2	0	0.289	-1	2.099	0	7.257	1	1911	38	1.1
45014.6	10000	41.2846	92.7280	-831	QK	2.5	1	8.3	1	1.2	1	0.304	-1	2.109	0	6.946	1	1915	33	1.1
45014.5	10000	41.2846	92.7272	-830	QK	2.8	1	7.9	1	1.2	0	0.351	0	2.347	0	6.695	0	1910	48	1.1
45014.4	10000	41.2846	92.7264	-828	QK	3.0	1	7.5	0	1.2	0	0.397	1	2.539	1	6.399	0	1897	46	1.1
45014.3	10000	41.2846	92.7255	-826	QK	3.2	1	7.3	0	1.2	0	0.443	1	2.753	1	6.216	0	1900	45	1.1
45014.2	10000	41.2846	92.7247	-825	QK	3.3	2	6.8	-1	1.1	0	0.483	2	2.873	1	5.945	-1	1897	46	1.1
45014.1	10000	41.2845	92.7239	-823	QK	3.4	2	6.7	-1	1.2	0	0.503	2	2.909	1	5.787	-1	1908	37	1.1
45014.0	10000	41.2845	92.7231	-822	QK	3.8	3	6.7	-1	1.2	1	0.564	2	3.176	2	5.629	-1	1925	39	1.1
45013.9	10000	41.2845	92.7223	-821	QK	3.7	3	6.9	0	1.1	0	0.545	2	3.301	2	6.057	-1	1934	39	1.1
45013.8	10000	41.2845	92.7215	-821	QK	3.8	3	7.1	0	1.2	0	0.531	2	3.263	2	6.144	0	1964	42	1.1
45013.7	10000	41.2845	92.7207	-821	QK	4.0	3	7.4	0	1.2	0	0.543	2	3.429	2	6.320	0	1998	47	1.1
45013.6	10000	41.2845	92.7199	-820	QK	3.7	3	7.8	1	1.2	1	0.470	2	3.086	2	6.567	0	2000	37	1.1
45013.5	10000	41.2845	92.7191	-819	QK	3.7	3	7.8	1	1.2	0	0.478	2	3.170	2	6.635	0	2014	44	1.1
45013.4	10000	41.2845	92.7183	-819	QK	3.6	2	8.3	1	1.1	0	0.437	1	3.193	2	7.300	1	2004	47	1.1
45013.3	10000	41.2845	92.7175	-819	QK	3.5	2	8.4	2	1.1	0	0.423	1	3.153	2	7.449	1	1995	39	1.1
45013.2	10000	41.2845	92.7167	-818	QK	3.6	2	8.4	2	1.2	0	0.425	1	3.090	2	7.274	1	1993	40	1.1
45013.1	10000	41.2845	92.7159	-818	QK	3.5	2	8.3	2	1.1	0	0.430	1	3.133	2	7.290	1	1958	42	1.1
45013.0	10000	41.2845	92.7151	-817	QK	3.3	2	8.0	2	1.1	0	0.415	1	3.019	2	7.274	1	1941	45	1.1
45012.9	10000	41.2846	92.7143	-816	QK	3.4	2	7.7	1	1.1	0	0.439	1	3.066	2	6.987	1	1935	35	1.1
45012.8	10000	41.2846	92.7135	-816	QK	3.2	1	8.0	1	1.2	0	0.397	1	2.718	1	6.842	1	1931	51	1.1
45012.7	10000	41.2846	92.7127	-815	QK	2.9	1	7.9	1	1.2	0	0.366	0	2.363	0	6.448	0	1947	44	1.1
45012.6	10000	41.2846	92.7119	-814	QK	2.6	1	7.8	1	1.2	0	0.332	0	2.101	0	6.331	0	1951	41	1.1
45012.5	10000	41.2846	92.7111	-813	QK	2.5	1	8.0	1	1.3	0	0.316	0	2.011	-1	6.371	0	1948	43	1.1
45012.4	10000	41.2846	92.7103	-812	QK	2.4	1	7.9	1	1.3	1	0.303	-1	1.893	-1	6.251	0	1960	48	1.1
45012.3	10000	41.2846	92.7095	-811	QK	2.3	1	8.0	1	1.3	2	0.290	-1	1.789	-1	6.160	0	1960	37	1.1
45012.2	10000	41.2846	92.7087	-810	QK	2.6	1	8.1	1	1.3	1	0.316	0	1.961	-1	6.198	0	1964	51	1.1
45012.1	10000	41.2846	92.7079	-810	QK	2.8	1	8.0	1	1.2	0	0.355	0	2.286	0	6.434	0	1951	36	1.1
45012.0	10000	41.2846	92.7071	-810	QK	3.0	1	7.8	1	1.2	0	0.382	1	2.546	0	6.657	0	1936	45	1.1
45011.9	10000	41.2847	92.7063	-809	QK	3.2	2	8.1	1	1.2	0	0.389	1	2.697	1	6.930	1	1942	47	1.1
45011.8	10000	41.2847	92.7055	-807	QK	3.3	2	7.6	0	1.2	1	0.442	1	2.796	1	6.322	0	1940	53	1.1
45011.7	10000	41.2847	92.7047	-807	QK	3.5	2	7.7	1	1.2	1	0.462	2	2.888	1	6.256	0	1935	49	1.0
45011.6	10000	41.2847	92.7039	-807	QK	3.5	2	7.4	0	1.2	1	0.472	2	2.817	1	5.969	-1	1940	55	1.0
45011.5	10000	41.2847	92.7031	-806	QK	3.3	2	7.3	0	1.3	1	0.433	1	2.504	1	5.789	-1	1934	35	1.0
45011.4	10000	41.2847	92.7023	-805	QK	3.0	1	7.5	1	1.3	1	0.406	1	2.377	1	5.850	-1	1943	48	1.0
45011.3	10000	41.2847	92.7015	-804	QK	3.1	2	7.1	0	1.3	1	0.438	1	2.418	1	5.526	-1	1928	54	1.0
45011.2	10000	41.2847	92.7007	-804	QK	3.1	2	6.7	-1	1.3	1	0.465	2	2.420	1	5.207	-2	1921	41	1.0
45011.1	10000	41.2847	92.6999	-803	QK	3.3	2	7.1	0	1.2	1	0.460	2	2.657	1	5.770	-1	1937	50	1.0
45011.0	10000	41.2847	92.6991	-802	QK	3.4	2	7.3	0	1.2	0	0.463	2	2.908	1	6.283	0	1958	42	1.0

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45010.9	10000	41.2848	92.6983	-801	QK	3.3	2	7.6	1	1.1	0	0.436	1	3.092	2	7.092	1	1944	43	1.0
45010.8	10000	41.2848	92.6975	-801	QK	3.5	2	7.7	1	1.0	-1	0.456	1	3.370	2	7.397	1	1952	37	1.0
45010.7	10000	41.2848	92.6967	-800	QK	3.5	2	7.4	0	1.0	-1	0.476	2	3.429	2	7.205	1	1958	56	1.0
45010.6	10000	41.2848	92.6959	-799	QK	3.6	2	7.6	0	1.0	-1	0.474	2	3.510	3	7.407	1	1958	32	1.0
45010.5	10000	41.2848	92.6951	-798	QK	3.7	2	7.9	1	0.9	-1	0.470	2	3.885	3	8.274	3	1953	48	1.0
45010.4	10000	41.2848	92.6943	-798	QK	3.2	1	7.7	1	0.9	-2	0.411	1	3.573	3	8.692	3	1914	39	1.0
45010.3	10000	41.2848	92.6935	-797	QK	2.9	1	7.3	0	0.9	-2	0.399	1	3.143	2	7.881	2	1878	37	1.0
45010.2	10000	41.2848	92.6927	-796	QK	3.2	1	7.0	0	0.9	-2	0.454	1	3.465	3	7.625	2	1869	47	0.9
45010.1	10000	41.2848	92.6919	-795	QK	2.9	1	6.9	0	0.9	-2	0.415	1	3.043	2	7.330	1	1843	50	0.9
45010.0	10000	41.2848	92.6911	-794	QK	2.6	1	6.9	0	1.0	-1	0.384	0	2.583	1	6.723	0	1825	50	0.9
45009.9	10000	41.2849	92.6903	-793	QK	2.6	0	7.5	0	1.1	0	0.345	0	2.406	0	6.980	1	1834	38	0.9
45009.8	10000	41.2849	92.6895	-791	QK	2.3	0	7.1	0	1.2	0	0.322	0	1.996	-1	6.204	0	1822	53	0.9
45009.7	10000	41.2849	92.6887	-790	QK	2.5	0	7.8	1	1.2	1	0.318	0	2.063	0	6.484	0	1841	47	0.9
45009.6	10000	41.2849	92.6879	-788	QK	2.7	0	7.9	1	1.2	1	0.345	0	2.211	0	6.416	0	1848	57	0.9
45009.5	10000	41.2849	92.6871	-787	QK	2.6	1	7.7	1	1.3	1	0.336	0	2.018	-1	6.013	-1	1856	55	0.9
45009.4	10000	41.2849	92.6863	-785	QK	3.1	2	7.7	1	1.3	1	0.394	1	2.433	0	6.174	0	1883	45	0.9
45009.3	10000	41.2849	92.6855	-784	QK	3.3	2	7.8	1	1.2	1	0.430	1	2.823	1	6.569	0	1885	44	0.9
45009.2	10000	41.2849	92.6847	-782	QK	3.6	2	7.5	1	1.1	0	0.478	2	3.127	2	6.546	0	1901	48	0.9
45009.1	10000	41.2849	92.6839	-780	QK	3.8	3	7.4	0	1.1	0	0.519	2	3.558	3	6.856	1	1897	47	0.8
45009.0	10000	41.2849	92.6831	-778	QK	4.2	3	7.1	0	1.0	-1	0.597	3	4.023	4	6.737	0	1899	47	0.8
45008.9	10000	41.2850	92.6823	-776	QK	4.0	3	6.9	0	1.1	-1	0.579	3	3.817	3	6.595	0	1882	37	0.8
45008.8	10000	41.2850	92.6815	-773	QK	4.1	3	7.0	0	1.0	-1	0.597	3	4.237	4	7.103	1	1878	38	0.8
45008.7	10000	41.2850	92.6807	-770	QK	4.2	3	6.8	-1	1.0	-1	0.619	4	4.311	4	6.963	1	1865	48	0.8
45008.6	10000	41.2850	92.6799	-766	QK	4.1	3	7.1	0	0.9	-2	0.575	3	4.523	5	7.870	2	1832	54	0.8
45008.5	10000	41.2850	92.6791	-762	QK	4.0	3	7.0	0	0.8	-2	0.565	3	4.683	5	8.296	3	1794	33	0.8
45008.4	10000	41.2850	92.6783	-758	QK	3.8	3	7.1	0	0.9	-2	0.532	3	4.365	4	8.204	2	1775	36	0.8
45008.3	10000	41.2850	92.6775	-753	QK	3.4	2	6.6	-1	0.9	-2	0.516	3	3.731	3	7.227	1	1741	37	0.8
45008.2	10000	41.2850	92.6767	-749	QK	3.4	2	6.9	0	0.9	-2	0.489	2	3.898	3	7.968	2	1725	39	0.8
45008.1	10000	41.2850	92.6759	-745	QK	3.2	1	7.0	0	0.9	-2	0.464	2	3.789	3	8.172	2	1690	44	0.8
45008.0	10000	41.2850	92.6751	-740	QK	3.1	1	7.1	0	0.8	-2	0.439	2	3.758	3	8.567	3	1646	45	0.8
45007.9	10000	41.2850	92.6743	-736	QK	3.2	1	6.6	-1	0.9	-2	0.494	2	3.688	3	7.465	1	1659	57	0.8
45007.8	10000	41.2851	92.6735	-731	QK	3.3	1	6.4	-1	0.9	-2	0.508	2	3.549	3	6.981	1	1666	41	0.7
45007.7	10000	41.2851	92.6727	-725	QK	3.5	2	6.7	-1	0.9	-1	0.518	2	3.646	3	7.039	1	1680	37	0.7
45007.6	10000	41.2851	92.6719	-720	QK	3.3	2	7.0	0	0.9	-2	0.472	2	3.529	3	7.478	1	1695	35	0.7
45007.5	10000	41.2851	92.6711	-715	QK	3.3	2	7.0	0	1.0	-1	0.466	2	3.333	2	7.147	1	1704	43	0.7
45007.4	10000	41.2851	92.6703	-711	QK	3.3	2	6.8	-1	1.1	0	0.477	2	2.944	1	6.170	0	1727	47	0.7
45007.3	10000	41.2851	92.6695	-707	QK	3.3	2	6.8	-1	1.2	0	0.484	2	2.832	1	5.847	-1	1748	40	0.7
45007.2	10000	41.2851	92.6687	-703	QK	3.9	2	6.7	-1	1.2	1	0.432	1	2.407	1	5.572	-1	1730	32	0.7
45007.1	10000	41.2851	92.6679	-698	QK	3.6	2	6.6	-1	1.2	1	0.402	1	2.208	0	5.490	-1	1708	41	0.7
45007.0	10000	41.2851	92.6671	-693	QK	3.8	2	6.1	-1	1.1	1	0.458	1	2.457	0	5.365	-2	1702	48	0.7
45006.9	10000	41.2851	92.6663	-687	QK	3.1	1	5.6	-2	1.1	1	0.548	3	2.702	1	4.929	-2	1678	44	0.7
45006.8	10000	41.2851	92.6655	-682	QK	3.1	1	5.6	-2	1.1	1	0.545	3	2.688	1	4.927	-2	1665	32	0.7
45006.7	10000	41.2852	92.6647	-677	QK	3.2	1	5.9	-2	1.1	1	0.540	3	2.946	1	5.461	-1	1648	45	0.7
45006.6	10000	41.2852	92.6639	-672	QK	2.8	1	6.1	-1	1.1	0	0.457	-1	2.646	1	5.790	-1	1644	37	0.7
45006.5	10000	41.2852	92.6631	-665	QK	2.9	1	6.4	-1	1.1	0	0.456	-1	2.830	1	6.203	0	1641	42	0.7
45006.4	10000	41.2852	92.6623	-659	QK	3.1	1	6.5	-1	1.1	1	0.481	0	2.894	1	6.020	-1	1655	53	0.6
45006.3	10000	41.2852	92.6615	-654	QK	2.6	1	6.8	0	1.1	1	0.377	0	2.241	0	5.942	-1	1645	34	0.6
45006.2	10000	41.2852	92.6607	-649	QK	2.3	0	7.3	0	1.1	2	0.307	-1	1.905	-1	6.212	0	1671	41	0.6
45006.1	10000	41.2852	92.6599	-645	QK	1.9	-1	7.4	0	1.1	1	0.313	-1	2.062	-1	6.593	0	1675	51	0.6
45006.0	10000	41.2852	92.6591	-641	QK	2.0	-1	7.5	0	1.1	1	0.253	-1	1.765	-1	6.977	1	1666	40	0.6
45005.9	10000	41.2852	92.6583	-636	QK	2.0	-1	7.6	1	1.1	1	0.263	-1	1.804	-1	6.870	1	1655	47	0.6
45005.8	10000	41.2852	92.6575	-631	QK	1.9	-1	7.2	0	1.1	0	0.267	-1	1.774	-1	6.651	0	1642	49	0.6

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45005.7	10000	41.2852	92.6567	-626	QK	2.1	-1	7.4	0	1.0	-1	0.280	-1	2.028	-1	7.244	1	1650	54	0.6
45005.6	10000	41.2853	92.6559	-620	QK	2.6	0	6.7	-1	1.0	-1	0.391	1	2.527	-1	6.467	0	1650	51	0.6
45005.5	10000	41.2853	92.6551	-614	QK	2.6	0	6.3	-1	0.9	-1	0.418	1	2.792	-1	6.685	0	1627	50	0.6
45005.4	10000	41.2853	92.6543	-609	QK	2.8	1	6.2	-1	1.0	-1	0.446	1	2.743	1	6.155	0	1626	53	0.6
45005.3	10000	41.2853	92.6535	-604	QK	2.6	0	6.3	-1	1.0	-1	0.420	1	2.548	1	6.063	-1	1623	54	0.6
45005.2	10000	41.2853	92.6527	-600	QK	2.9	1	6.0	-2	1.0	-1	0.493	2	2.820	1	5.722	-1	1633	49	0.6
45005.1	10000	41.2853	92.6519	-596	QK	3.1	1	6.5	-1	1.0	-1	0.477	2	3.050	2	6.388	0	1650	47	0.6
45005.0	10000	41.2853	92.6511	-592	QK	3.0	1	6.5	-1	1.1	-1	0.461	2	2.859	1	6.204	0	1625	48	0.6
45004.9	10000	41.2853	92.6503	-588	QK	2.8	1	7.3	0	1.1	-1	0.391	1	2.712	1	6.929	1	1622	53	0.6
45004.8	10000	41.2853	92.6496	-583	QK	3.2	1	7.1	0	1.0	-1	0.445	1	3.123	2	7.016	1	1600	44	0.6
45004.7	10000	41.2853	92.6487	-579	QK	3.1	1	7.2	0	0.9	-1	0.426	1	3.260	2	7.655	2	1601	40	0.6
45004.6	10000	41.2854	92.6479	-574	QK	3.2	1	6.8	-1	0.9	-2	0.473	2	3.545	3	7.493	1	1616	43	0.6
45004.5	10000	41.2854	92.6471	-571	QK	3.3	2	6.4	-1	0.9	-2	0.517	2	3.556	3	6.884	1	1611	45	0.6
45004.4	10000	41.2854	92.6463	-567	QK	3.3	2	6.0	-2	1.0	-1	0.539	3	3.207	2	5.945	-1	1612	48	0.6
45004.3	10000	41.2854	92.6456	-565	QK	3.2	1	5.6	-2	1.1	-1	0.561	3	2.999	2	5.347	-2	1623	51	0.6
45004.2	10000	41.2854	92.6447	-562	QK	3.2	1	5.6	-2	1.0	-1	0.578	3	3.326	2	5.759	-1	1636	46	0.6
45004.1	10000	41.2854	92.6440	-561	QK	3.0	1	5.9	-2	1.1	0	0.505	2	2.815	1	5.570	-1	1642	46	0.6
45004.0	10000	41.2854	92.6432	-559	QK	2.8	1	5.2	-3	1.1	0	0.544	3	2.617	1	4.808	-2	1601	46	0.6
45003.9	10000	41.2854	92.6423	-555	CULTRL	3.0	999	5.1	999	1.1	999	0.595	999	2.819	999	4.735	999	1569	43	0.6
45003.8	10000	41.2854	92.6416	-549	CULTRL	3.1	999	5.8	999	1.0	999	0.531	999	3.182	999	5.989	999	1542	42	0.6
45003.7	10000	41.2854	92.6407	-543	CULTRL	3.2	999	5.4	999	0.9	999	0.589	999	3.731	999	6.333	999	1516	47	0.6
45003.6	10000	41.2855	92.6400	-541	CULTRL	3.4	999	5.6	999	0.8	999	0.608	999	4.040	999	6.644	999	1512	56	0.6
45003.5	10000	41.2855	92.6392	-543	CULTRL	3.6	999	5.3	999	0.8	999	0.672	999	4.281	999	6.372	999	1487	38	0.6
45003.4	10000	41.2855	92.6384	-547	CULTRL	3.8	999	5.1	999	0.8	999	0.745	999	4.605	999	6.181	999	1498	43	0.6
45003.3	10000	41.2855	92.6376	-551	CULTRL	3.5	999	5.3	999	0.8	999	0.665	999	4.267	999	6.422	999	1504	35	0.7
45003.2	10000	41.2855	92.6367	-553	CULTRL	3.2	999	5.5	999	0.9	999	0.587	999	3.740	999	6.367	999	1519	42	0.7
45003.1	10000	41.2855	92.6360	-554	CULTRL	2.9	999	5.0	999	0.9	999	0.575	999	3.114	999	5.413	999	1517	41	0.7
45003.0	10000	41.2855	92.6352	-553	CULTRL	2.6	999	5.8	999	1.0	999	0.457	999	2.565	999	5.607	999	1540	52	0.7
45002.9	10000	41.2855	92.6344	-553	CULTRL	2.2	999	5.7	999	1.0	999	0.392	999	2.206	999	5.632	999	1538	59	0.7
45002.8	10000	41.2855	92.6336	-554	CULTRL	1.8	999	5.9	999	1.1	999	0.311	999	1.717	999	5.523	999	1541	55	0.7
45002.7	10000	41.2855	92.6328	-555	CULTRL	1.6	999	6.1	999	1.0	999	0.255	999	1.514	999	5.932	999	1520	63	0.7
45002.6	10000	41.2855	92.6320	-555	CULTRL	1.8	999	6.0	999	1.0	999	0.307	999	1.791	999	5.840	999	1552	40	0.7
45002.5	10000	41.2856	92.6312	-555	CULTRL	2.1	999	6.0	999	1.0	999	0.352	999	2.103	999	5.977	999	1548	47	0.7
45002.4	10000	41.2856	92.6304	-555	CULTRL	2.3	999	6.0	999	1.1	999	0.390	999	2.210	999	5.661	999	1567	34	0.7
45002.3	10000	41.2856	92.6296	-554	CULTRL	2.6	999	5.3	999	1.0	999	0.481	999	2.518	999	5.231	999	1555	53	0.7
45002.2	10000	41.2856	92.6288	-554	CULTRL	2.8	999	5.4	999	1.0	999	0.515	999	2.788	999	5.415	999	1552	50	0.7
45002.1	10000	41.2856	92.6280	-553	CULTRL	2.8	999	5.5	999	1.0	999	0.501	999	2.750	999	5.486	999	1561	41	0.7
45002.0	10000	41.2856	92.6272	-552	CULTRL	3.2	999	5.2	999	1.0	999	0.613	999	3.131	999	5.105	999	1579	39	0.7
45001.9	10000	41.2856	92.6264	-549	CULTRL	3.5	999	5.4	999	1.0	999	0.635	999	3.409	999	5.368	999	1569	56	0.7
45001.8	10000	41.2856	92.6256	-548	CULTRL	3.1	999	5.6	999	1.0	999	0.565	999	3.079	999	5.452	999	1598	70	0.8
45001.7	10000	41.2856	92.6248	-546	CULTRL	3.1	999	5.7	999	1.0	999	0.545	999	3.164	999	5.805	999	1611	52	0.8
45001.6	10000	41.2856	92.6240	-544	CULTRL	2.8	999	6.0	999	1.0	999	0.467	999	2.789	999	5.974	999	1622	42	0.8
45001.5	10000	41.2857	92.6232	-542	CULTRL	3.0	999	5.7	999	1.0	999	0.537	999	3.074	999	5.720	999	1626	42	0.8
45001.4	10000	41.2857	92.6224	-540	CULTRL	2.8	999	6.1	999	1.0	999	0.461	999	2.871	999	6.222	999	1625	43	0.8
45001.3	10000	41.2857	92.6216	-538	CULTRL	2.7	999	6.0	999	1.0	999	0.449	999	2.762	999	6.147	999	1636	52	0.8
45001.2	10000	41.2857	92.6208	-536	CULTRL	2.6	999	5.8	999	1.0	999	0.452	999	2.572	999	5.685	999	1649	45	0.8
45001.1	10000	41.2857	92.6200	-535	CULTRL	2.9	999	5.4	999	1.0	999	0.542	999	2.903	999	5.359	999	1634	49	0.8
45001.0	10000	41.2857	92.6192	-533	CULTRL	3.0	999	5.4	999	1.0	999	0.545	999	3.064	999	5.620	999	1621	40	0.8
45000.9	10000	41.2857	92.6184	-532	CULTRL	2.8	999	5.7	999	1.0	999	0.496	999	2.932	999	5.915	999	1610	53	0.8
45000.8	10000	41.2857	92.6176	-530	CULTRL	2.4	999	6.1	999	1.0	999	0.398	999	2.420	999	6.081	999	1626	51	0.8
45000.7	10000	41.2857	92.6168	-529	CULTRL	2.9	999	5.2	999	1.1	999	0.555	999	2.667	999	4.804	999	1629	48	0.9
45000.6	10000	41.2857	92.6160	-528	CULTRL	2.7	999	5.4	999	1.1	999	0.491	999	2.503	999	5.100	999	1620	45	0.9

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45000.5	10000	41.2857	92.6152	-528	CULTRL	2.6	999	6.1	999	1.0	999	0.433	999	2.619	999	6.048	999	1625	37	0.9
45000.4	10000	41.2858	92.6144	-526	CULTRL	2.6	999	5.8	999	1.0	999	0.445	999	2.541	999	5.714	999	1621	38	0.9
45000.3	10000	41.2858	92.6136	-525	CULTRL	2.4	999	5.8	999	1.1	999	0.414	999	2.261	999	5.463	999	1626	50	0.9
45000.2	10000	41.2858	92.6128	-523	QK	2.8	1	5.9	-2	1.0	-1	0.484	2	2.715	1	5.613	-1	1662	51	0.9
45000.1	10000	41.2858	92.6120	-522	QK	2.8	1	5.9	-2	1.0	-1	0.482	2	2.901	1	6.018	-1	1664	55	0.9
45000.0	10000	41.2858	92.6112	-520	QK	2.7	0	6.7	-1	0.9	-2	0.405	1	3.038	2	7.511	1	1673	36	0.9
44999.9	10000	41.2858	92.6104	-518	QK	3.1	1	6.8	-1	0.9	-2	0.451	1	3.381	2	7.491	1	1703	45	0.9
44999.8	10000	41.2858	92.6096	-515	QK	2.7	0	6.7	-1	1.0	-1	0.402	1	2.779	1	6.911	1	1718	44	0.9
44999.7	10000	41.2858	92.6088	-512	QK	2.5	0	7.5	0	1.0	-1	0.328	0	2.478	0	7.565	2	1747	42	0.9
44999.6	10000	41.2858	92.6080	-510	QK	2.8	1	7.8	1	0.9	-1	0.363	0	2.987	2	8.237	2	1793	37	1.0
44999.5	10000	41.2858	92.6072	-509	QK	2.7	0	7.4	0	1.0	-1	0.361	0	2.767	1	7.673	2	1797	48	1.0
44999.4	10000	41.2858	92.6064	-508	QK	2.8	1	7.5	0	1.0	-1	0.375	0	2.801	1	7.459	1	1820	41	1.0
44999.3	10000	41.2859	92.6056	-505	QK	2.7	0	7.4	0	1.0	-1	0.365	0	2.605	1	7.140	1	1841	40	1.0
44999.2	10000	41.2859	92.6048	-503	QK	2.7	0	7.5	0	1.1	0	0.364	0	2.557	1	7.027	1	1850	49	1.0
44999.1	10000	41.2859	92.6040	-500	QK	3.0	1	7.6	1	1.0	-1	0.387	1	2.830	1	7.307	1	1861	34	1.0
44999.0	10000	41.2859	92.6032	-498	QK	3.2	1	7.6	1	1.1	0	0.418	1	2.975	1	7.112	1	1874	43	1.0
44998.9	10000	41.2859	92.6024	-495	QK	2.6	0	7.6	0	1.1	0	0.348	0	2.376	0	6.830	0	1847	45	1.0
44998.8	10000	41.2859	92.6016	-493	QK	2.4	0	8.2	1	1.1	0	0.296	-1	2.242	0	7.580	2	1834	42	1.0
44998.7	10000	41.2859	92.6008	-490	QK	2.4	0	8.0	1	1.0	-1	0.297	-1	2.295	0	7.733	2	1808	45	1.1
44998.6	10000	41.2859	92.6000	-486	QK	2.7	0	7.6	1	1.0	-1	0.356	0	2.675	1	7.508	1	1788	47	1.1
44998.5	10000	41.2859	92.5993	-481	QK	2.4	0	7.3	0	1.0	-1	0.323	0	2.400	0	7.438	1	1767	47	1.1
44998.4	10000	41.2858	92.5985	-477	QK	2.1	-1	7.3	0	1.0	-1	0.293	-1	2.199	0	7.492	1	1749	35	1.1
44998.3	10000	41.2858	92.5977	-473	QK	1.9	-1	7.0	0	1.0	-1	0.269	-1	1.930	-1	7.175	1	1729	40	1.1
44998.2	10000	41.2858	92.5970	-468	QK	2.2	-1	6.7	-1	1.0	-1	0.328	0	2.268	0	6.924	1	1728	35	1.1
44998.1	10000	41.2858	92.5962	-462	QK	2.5	0	6.3	-1	0.9	-1	0.394	1	2.634	1	6.690	0	1731	42	1.1
44998.0	10000	41.2858	92.5954	-457	QK	2.6	0	6.5	-1	0.9	-2	0.399	1	2.784	1	6.971	1	1735	34	1.1
44997.9	10000	41.2858	92.5946	-452	QK	2.3	0	6.6	-1	1.0	-1	0.350	0	2.437	0	6.972	1	1739	34	1.1
44997.8	10000	41.2858	92.5939	-446	QK	2.5	0	7.1	0	1.0	-1	0.353	0	2.631	1	7.456	1	1737	45	1.1
44997.7	10000	41.2857	92.5931	-440	QK	2.7	0	6.8	-1	0.9	-2	0.394	1	2.849	1	7.227	1	1736	55	1.2
44997.6	10000	41.2857	92.5923	-434	QK	3.0	1	7.1	0	0.9	-2	0.428	1	3.424	2	8.008	2	1724	42	1.2
44997.5	10000	41.2857	92.5916	-429	QK	2.8	1	6.9	0	0.9	-2	0.408	1	3.129	2	7.678	2	1715	29	1.2
44997.4	10000	41.2857	92.5908	-425	QK	2.8	1	6.6	-1	0.9	-2	0.424	1	3.144	2	7.415	1	1709	55	1.2
44997.3	10000	41.2857	92.5900	-420	QK	2.7	0	6.6	-1	0.9	-2	0.406	1	2.854	1	7.035	1	1703	36	1.2
44997.2	10000	41.2857	92.5892	-416	QK	2.7	0	6.6	-1	0.9	-2	0.406	1	2.899	1	7.132	1	1699	43	1.2
44997.1	10000	41.2856	92.5885	-413	QK	2.6	0	6.3	-1	0.9	-2	0.422	1	3.002	2	7.108	1	1687	43	1.2
44997.0	10000	41.2856	92.5877	-411	QK	2.9	1	6.4	-1	0.9	-2	0.454	1	3.343	2	7.369	1	1691	38	1.2
44996.9	10000	41.2856	92.5869	-410	QK	2.8	1	6.1	-2	0.9	-2	0.464	2	3.313	2	7.140	1	1689	49	1.2
44996.8	10000	41.2856	92.5862	-409	QK	2.2	1	6.0	-2	0.8	-3	0.530	2	4.056	4	7.658	2	1678	55	1.2
44996.7	10000	41.2856	92.5854	-408	QK	2.4	2	6.2	-1	0.8	-3	0.547	2	4.297	4	7.854	2	1676	46	1.2
44996.6	10000	41.2856	92.5846	-407	QK	2.5	2	6.3	-1	0.8	-3	0.507	2	4.098	4	8.087	2	1674	41	1.2
44996.5	10000	41.2856	92.5838	-407	QK	2.5	2	6.7	-1	0.8	-3	0.492	2	4.078	4	8.296	3	1676	46	1.3
44996.4	10000	41.2855	92.5831	-407	QK	2.1	1	6.6	-1	0.8	-2	0.470	2	3.729	3	7.936	2	1685	53	1.3
44996.3	10000	41.2855	92.5823	-407	QK	2.9	2	7.0	0	0.8	-2	0.423	2	3.523	3	8.321	3	1682	41	1.3
44996.2	10000	41.2855	92.5815	-407	QK	2.9	2	7.2	0	0.9	-2	0.397	2	3.405	3	8.577	3	1698	47	1.3
44996.1	10000	41.2855	92.5807	-407	QK	2.6	1	7.6	1	0.9	-2	0.344	1	3.054	3	8.877	3	1707	35	1.3
44996.0	10000	41.2855	92.5800	-409	QK	2.5	1	7.8	1	0.9	-2	0.301	1	2.723	2	9.059	4	1710	46	1.3
44995.9	10000	41.2855	92.5792	-411	QK	2.2	1	7.9	1	0.9	-2	0.319	1	2.825	3	8.850	4	1727	44	1.3
44995.8	10000	41.2854	92.5784	-412	QK	2.3	-1	8.1	1	0.9	-2	0.274	1	2.509	3	9.140	4	1732	53	1.3
44995.7	10000	41.2854	92.5777	-413	QK	2.3	-1	8.2	1	0.9	-2	0.278	1	2.600	3	9.358	4	1742	50	1.3
44995.6	10000	41.2854	92.5769	-413	QK	2.1	-1	8.2	1	1.0	-1	0.267	1	2.278	3	8.518	3	1762	40	1.3
44995.5	10000	41.2854	92.5761	-413	QK	2.1	-1	8.2	1	1.0	-1	0.252	1	2.156	3	8.562	3	1777	43	1.3
44995.4	10000	41.2854	92.5753	-414	QK	1.9	-1	8.5	2	1.0	-1	0.222	-2	1.852	-1	8.343	3	1806	36	1.3

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44995.3	10000	41.2854	92.5746	-416	QK	1.8	-1	8.5	2	1.1	0	0.218	-2	1.737	-1	7.972	2	1826	43	1.3
44995.2	10000	41.2854	92.5738	-417	QK	2.0	-1	8.3	1	1.1	0	0.243	-1	1.875	-1	7.717	2	1841	41	1.3
44995.1	10000	41.2853	92.5730	-419	QK	2.1	-1	7.8	1	1.1	0	0.270	-1	1.955	-1	7.230	1	1836	30	1.4
44995.0	10000	41.2853	92.5723	-421	QK	1.9	-1	7.7	1	1.1	0	0.252	-1	1.744	-1	6.911	1	1852	48	1.4
44994.9	10000	41.2853	92.5715	-422	QK	2.1	-1	7.5	0	1.1	0	0.276	-1	1.915	-1	6.944	1	1855	45	1.4
44994.8	10000	41.2853	92.5707	-423	QK	2.4	0	7.1	0	1.1	0	0.329	0	2.129	0	6.461	0	1859	33	1.4
44994.7	10000	41.2853	92.5699	-426	QK	2.7	0	6.9	0	1.1	0	0.391	1	2.500	0	6.400	0	1862	41	1.4
44994.6	10000	41.2853	92.5692	-430	QK	2.8	1	7.0	0	1.1	0	0.405	1	2.511	1	6.202	0	1874	39	1.4
44994.5	10000	41.2853	92.5684	-433	QK	2.6	0	7.2	0	1.1	0	0.366	0	2.370	0	6.479	0	1868	45	1.4
44994.4	10000	41.2852	92.5676	-438	QK	3.0	1	7.1	0	1.1	0	0.419	1	2.647	1	6.322	0	1899	33	1.4
44994.3	10000	41.2852	92.5669	-442	QK	3.3	2	7.6	1	1.1	0	0.431	1	2.866	1	6.647	0	1913	44	1.4
44994.2	10000	41.2852	92.5661	-446	QK	3.2	1	7.6	1	1.1	0	0.426	1	2.862	1	6.725	0	1921	36	1.4
44994.1	10000	41.2852	92.5653	-451	QK	3.1	1	8.0	1	1.1	0	0.382	0	2.677	1	7.007	1	1919	37	1.4
44994.0	10000	41.2852	92.5645	-456	QK	3.0	1	8.0	1	1.1	0	0.367	0	2.590	1	7.050	1	1916	40	1.4
44993.9	10000	41.2852	92.5638	-461	QK	2.9	1	7.9	1	1.1	0	0.362	0	2.547	1	7.030	1	1910	44	1.4
44993.8	10000	41.2851	92.5630	-467	QK	2.8	1	8.1	1	1.2	1	0.346	0	2.331	0	6.732	0	1918	41	1.4
44993.7	10000	41.2851	92.5622	-472	QK	2.6	0	8.3	2	1.2	1	0.312	-1	2.163	0	6.933	1	1908	37	1.4
44993.6	10000	41.2851	92.5615	-477	QK	2.4	0	7.8	1	1.2	0	0.312	-1	2.066	0	6.622	0	1885	44	1.4
44993.5	10000	41.2851	92.5607	-481	QK	2.2	-1	7.9	1	1.2	0	0.272	-1	1.829	-1	6.736	0	1879	35	1.4
44993.4	10000	41.2851	92.5599	-485	QK	2.0	-1	7.8	1	1.2	1	0.263	-1	1.715	-1	6.528	0	1876	46	1.4
44993.3	10000	41.2851	92.5591	-489	QK	1.7	-2	8.2	1	1.2	1	0.208	-2	1.370	-2	6.573	0	1886	42	1.4
44993.2	10000	41.2850	92.5584	-494	QK	1.6	-2	8.3	2	1.2	1	0.195	-2	1.346	-2	6.899	1	1883	37	1.5
44993.1	10000	41.2850	92.5576	-498	QK	1.7	-2	8.1	1	1.2	0	0.209	-2	1.463	-2	7.019	1	1886	36	1.5
44993.0	10000	41.2850	92.5568	-501	QK	1.5	-2	7.8	1	1.2	0	0.189	-2	1.275	-2	6.729	0	1885	54	1.5
44992.9	10000	41.2850	92.5561	-504	QK	1.3	-2	8.0	1	1.2	0	0.168	-3	1.146	-2	6.802	0	1872	47	1.5
44992.8	10000	41.2850	92.5553	-507	QK	1.6	-2	7.5	0	1.2	1	0.214	-2	1.362	-2	6.380	0	1854	53	1.5
44992.7	10000	41.2850	92.5545	-510	QK	1.8	-2	7.0	0	1.2	0	0.252	-1	1.529	-2	6.063	-1	1829	38	1.5
44992.6	10000	41.2850	92.5538	-513	QK	2.0	-1	6.6	-1	1.1	0	0.299	-1	1.779	-1	5.954	-1	1792	47	1.5
44992.5	10000	41.2850	92.5530	-516	QK	1.9	-1	6.1	-2	1.1	0	0.315	-1	1.695	-1	5.387	-2	1754	43	1.5
44992.4	10000	41.2849	92.5522	-518	QK	1.8	-1	6.0	-2	1.1	0	0.305	-1	1.661	-1	5.450	-1	1711	45	1.5
44992.3	10000	41.2849	92.5514	-520	QK	1.7	-2	6.2	-1	1.1	0	0.282	-1	1.637	-1	5.801	-1	1686	44	1.5
44992.2	10000	41.2849	92.5507	-523	QK	2.0	-1	6.1	-2	1.0	-1	0.323	0	1.927	-1	5.973	-1	1689	48	1.5
44992.1	10000	41.2849	92.5499	-525	QK	1.9	-1	6.4	-1	1.0	-1	0.301	-1	1.869	-1	6.217	0	1693	32	1.5
44992.0	10000	41.2849	92.5491	-527	QK	1.6	-2	6.8	-1	1.1	0	0.232	-2	1.445	-2	6.225	0	1721	36	1.5
44991.9	10000	41.2849	92.5484	-529	QK	1.7	-2	6.6	-1	1.1	0	0.257	-1	1.498	-2	5.817	-1	1745	53	1.5
44991.8	10000	41.2848	92.5476	-531	QK	1.6	-2	7.1	0	1.1	0	0.224	-2	1.416	-2	6.335	0	1779	45	1.5
44991.7	10000	41.2848	92.5468	-533	QK	1.5	-2	7.4	0	1.2	0	0.203	-2	1.306	-2	6.429	0	1807	33	1.5
44991.6	10000	41.2848	92.5460	-535	QK	1.7	-2	7.8	1	1.2	1	0.210	-2	1.393	-2	6.626	0	1825	51	1.5
44991.5	10000	41.2848	92.5453	-538	QK	1.5	-2	7.9	1	1.2	1	0.194	-2	1.257	-2	6.464	0	1828	41	1.5
44991.4	10000	41.2848	92.5445	-541	QK	1.4	-2	7.7	1	1.2	0	0.183	-2	1.215	-2	6.644	0	1818	45	1.5
44991.3	10000	41.2848	92.5437	-544	QK	1.9	-1	7.7	1	1.1	0	0.240	-2	1.697	-1	7.066	1	1795	31	1.5
44991.2	10000	41.2847	92.5430	-546	QK	2.0	-1	7.7	1	1.0	-1	0.255	-1	1.935	-1	7.576	2	1764	51	1.5
44991.1	10000	41.2847	92.5422	-550	QK	2.4	0	7.2	0	1.0	-1	0.331	0	2.503	0	7.551	2	1719	45	1.5
44991.0	10000	41.2847	92.5414	-553	QK	2.6	0	6.8	-1	0.9	-2	0.389	1	2.881	1	7.397	1	1677	43	1.5
44990.9	10000	41.2847	92.5406	-556	QK	2.7	0	6.2	-1	0.8	-2	0.429	1	3.242	2	7.564	2	1624	44	1.5
44990.8	10000	41.2847	92.5399	-560	QK	2.6	0	6.2	-1	0.8	-3	0.428	1	3.441	2	8.048	2	1574	53	1.5
44990.7	10000	41.2847	92.5391	-563	QK	2.6	0	5.9	-2	0.7	-3	0.436	1	3.518	2	8.077	2	1541	48	1.5
44990.6	10000	41.2847	92.5383	-567	QK	2.3	-1	6.2	-1	0.7	-3	0.367	0	3.057	2	8.333	2	1535	49	1.5
44990.5	10000	41.2846	92.5376	-571	QK	2.1	-1	6.5	-1	0.8	-3	0.320	0	2.684	1	8.396	2	1559	48	1.5
44990.4	10000	41.2846	92.5368	-575	QK	1.8	-1	6.9	0	0.8	-2	0.262	-1	2.143	0	8.193	2	1602	40	1.5
44990.3	10000	41.2846	92.5360	-579	QK	1.8	-2	7.2	0	0.9	-2	0.249	-1	1.983	-1	7.959	2	1649	37	1.5
44990.2	10000	41.2846	92.5352	-583	QK	1.9	-1	7.4	0	1.0	-1	0.262	-1	2.006	-1	7.666	2	1710	49	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44990.1	10000	41.2846	92.5345	-589	QK	2.1	-1	7.5	0	1.0	-1	0.283	-1	2.120	0	7.478	1	1774	43	1.5
44990.0	10000	41.2846	92.5337	-594	QK	2.5	0	7.9	1	1.1	-1	0.318	0	2.383	0	7.498	1	1832	46	1.5
44989.9	10000	41.2845	92.5329	-599	QK	2.6	0	7.8	1	1.1	0	0.336	0	2.464	0	7.346	1	1853	50	1.5
44989.8	10000	41.2845	92.5322	-605	QK	2.7	0	8.1	1	1.1	-1	0.331	0	2.557	1	7.728	2	1877	39	1.5
44989.7	10000	41.2845	92.5314	-610	QK	2.8	1	7.8	1	1.0	-1	0.363	0	2.776	1	7.644	2	1885	43	1.5
44989.6	10000	41.2845	92.5306	-616	QK	2.8	1	8.0	1	1.0	-1	0.354	0	2.810	1	7.938	2	1898	56	1.5
44989.5	10000	41.2845	92.5298	-622	QK	2.9	1	8.1	1	1.0	-1	0.359	0	2.854	1	7.957	2	1916	37	1.5
44989.4	10000	41.2845	92.5291	-628	QK	2.9	1	8.1	1	1.1	0	0.361	0	2.747	1	7.618	2	1920	30	1.5
44989.3	10000	41.2845	92.5283	-635	QK	2.8	0	7.8	1	1.0	-1	0.351	0	2.670	1	7.595	2	1905	44	1.5
44989.2	10000	41.2844	92.5275	-640	QK	2.7	0	7.8	1	1.0	-1	0.351	0	2.732	1	7.781	2	1897	49	1.5
44989.1	10000	41.2844	92.5267	-646	QK	2.6	0	7.2	0	1.0	-1	0.357	0	2.557	1	7.168	1	1871	46	1.5
44989.0	10000	41.2844	92.5260	-651	QK	2.5	0	7.5	0	1.0	-1	0.332	0	2.542	1	7.652	2	1854	41	1.5
44988.9	10000	41.2844	92.5252	-658	QK	2.7	0	7.4	0	1.0	-1	0.362	0	2.752	1	7.608	2	1842	36	1.5
44988.8	10000	41.2844	92.5244	-664	QK	2.6	0	7.3	0	1.0	-1	0.359	0	2.635	1	7.335	1	1833	53	1.5
44988.7	10000	41.2844	92.5237	-671	QK	2.4	0	7.5	0	1.0	-1	0.325	0	2.458	1	7.573	2	1833	45	1.5
44988.6	10000	41.2843	92.5229	-677	QK	2.5	0	7.6	1	1.0	-1	0.331	0	2.421	0	7.315	1	1843	44	1.5
44988.5	10000	41.2843	92.5221	-683	QK	2.7	0	7.6	1	1.1	0	0.353	0	2.518	1	7.131	1	1860	40	1.5
44988.4	10000	41.2843	92.5213	-689	QK	2.9	1	7.3	0	1.1	-1	0.390	1	2.713	1	6.964	1	1889	34	1.5
44988.3	10000	41.2843	92.5206	-696	QK	3.2	1	7.2	0	1.1	0	0.445	1	2.872	1	6.459	0	1923	60	1.5
44988.2	10000	41.2843	92.5198	-703	QK	3.2	1	7.2	0	1.1	0	0.444	1	2.893	1	6.512	0	1943	50	1.5
44988.1	10000	41.2843	92.5190	-710	QK	3.1	1	7.4	0	1.1	0	0.425	1	2.797	1	6.578	0	1939	35	1.5
44988.0	10000	41.2843	92.5183	-716	QK	3.3	2	7.4	0	1.1	0	0.443	1	3.026	2	6.838	1	1941	34	1.5
44987.9	10000	41.2842	92.5175	-722	QK	3.4	2	7.5	0	1.1	-1	0.460	2	3.261	2	7.089	1	1936	44	1.4
44987.8	10000	41.2842	92.5167	-728	QK	3.3	2	7.2	0	1.0	-1	0.459	2	3.285	2	7.151	1	1929	33	1.4
44987.7	10000	41.2842	92.5159	-734	QK	3.3	2	7.6	1	1.0	-1	0.436	1	3.353	2	7.698	2	1907	48	1.4
44987.6	10000	41.2842	92.5152	-740	QK	3.0	1	7.7	1	0.9	-1	0.393	1	3.185	2	8.109	2	1881	48	1.4
44987.5	10000	41.2842	92.5144	-746	QK	2.7	0	7.7	1	0.9	-2	0.356	0	3.156	2	8.875	3	1854	53	1.4
44987.4	10000	41.2842	92.5136	-753	QK	2.8	0	7.4	1	0.8	-2	0.370	0	3.260	2	8.817	3	1868	48	1.4
44987.3	10000	41.2841	92.5129	-758	QK	2.9	1	7.7	1	0.9	-2	0.380	0	3.311	2	8.716	3	1875	43	1.4
44987.2	10000	41.2841	92.5121	-763	QK	2.7	0	7.7	1	0.9	-2	0.353	0	2.946	2	8.346	3	1897	45	1.4
44987.1	10000	41.2841	92.5113	-768	QK	2.8	1	7.8	1	0.9	-2	0.359	0	3.016	2	8.396	3	1904	45	1.4
44987.0	10000	41.2841	92.5105	-773	QK	3.0	1	8.1	1	1.0	-1	0.375	0	3.123	2	8.332	3	1924	46	1.4
44986.9	10000	41.2841	92.5098	-778	QK	3.1	1	8.0	1	1.0	-1	0.385	0	3.207	2	8.322	3	1930	54	1.4
44986.8	10000	41.2841	92.5090	-782	QK	3.2	1	7.6	1	1.0	-1	0.418	0	3.094	2	7.405	2	1924	39	1.4
44986.7	10000	41.2841	92.5082	-786	QK	3.4	2	7.8	1	1.0	-1	0.435	0	3.303	2	7.600	2	1912	42	1.4
44986.6	10000	41.2840	92.5075	-791	QK	3.2	1	7.4	1	1.0	-1	0.441	0	3.197	2	7.246	2	1919	50	1.4
44986.5	10000	41.2840	92.5067	-794	QK	3.2	1	7.2	1	1.0	-1	0.440	0	3.054	2	6.935	2	1904	39	1.4
44986.4	10000	41.2840	92.5059	-797	QK	3.1	1	7.3	1	1.0	-1	0.432	0	3.004	2	6.962	2	1907	54	1.4
44986.3	10000	41.2840	92.5051	-800	QK	2.8	1	7.0	1	1.1	0	0.401	0	2.502	2	6.234	2	1910	45	1.4
44986.2	10000	41.2840	92.5044	-803	QK	2.9	1	7.5	1	1.2	1	0.381	0	2.432	2	6.385	2	1914	48	1.4
44986.1	10000	41.2840	92.5036	-805	QK	3.0	1	7.9	1	1.2	1	0.377	0	2.485	2	6.599	2	1951	42	1.4
44986.0	10000	41.2839	92.5028	-807	QK	3.0	1	7.9	1	1.2	1	0.379	0	2.542	2	6.710	2	1962	42	1.4
44985.9	10000	41.2839	92.5021	-809	QK	2.8	1	7.6	1	1.2	1	0.369	0	2.423	2	6.562	2	1952	55	1.4
44985.8	10000	41.2839	92.5013	-811	QK	3.0	1	7.5	1	1.2	1	0.398	0	2.583	2	6.495	2	1967	50	1.4
44985.7	10000	41.2839	92.5005	-812	QK	3.0	1	7.5	1	1.2	1	0.399	0	2.468	2	6.188	2	1978	60	1.4
44985.6	10000	41.2839	92.4997	-813	QK	3.0	1	7.6	1	1.1	1	0.395	0	2.622	2	6.642	2	1978	47	1.4
44985.5	10000	41.2839	92.4990	-813	QK	2.9	1	7.5	1	1.1	1	0.387	0	2.547	2	6.583	2	1993	37	1.4
44985.4	10000	41.2839	92.4982	-814	QK	3.0	1	7.4	1	1.1	1	0.405	0	2.621	2	6.472	2	1987	43	1.4
44985.3	10000	41.2838	92.4974	-815	QK	3.1	1	7.1	1	1.2	1	0.429	0	2.624	2	6.119	2	1986	49	1.4
44985.2	10000	41.2838	92.4967	-816	QK	3.3	2	7.0	1	1.2	1	0.466	0	2.748	2	5.894	3	1979	34	1.4
44985.1	10000	41.2838	92.4959	-818	QK	3.3	2	7.0	1	1.2	1	0.471	0	2.825	2	5.999	3	1965	38	1.4
44985.0	10000	41.2838	92.4951	-819	QK	3.3	2	7.0	0	1.1	0	0.473	2	2.907	1	6.145	0	1941	37	1.4

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44984.9	10000	41.2838	92.4943	-820	QK	3.5	2	7.1	0	1.1	0	0.486	2	3.028	2	6.230	0	1944	49	1.4
44984.8	10000	41.2838	92.4936	-821	QK	3.7	2	6.9	0	1.2	0	0.532	3	3.182	2	5.985	-1	1947	38	1.4
44984.7	10000	41.2837	92.4928	-825	QK	3.6	2	7.0	0	1.2	0	0.509	2	3.084	2	6.061	-1	1935	44	1.4
44984.6	10000	41.2837	92.4920	-829	QK	3.4	2	7.3	0	1.1	0	0.468	2	3.032	2	6.475	0	1916	52	1.4
44984.5	10000	41.2837	92.4913	-833	QK	3.4	2	7.5	0	1.1	0	0.450	1	3.002	2	6.665	0	1916	40	1.4
44984.4	10000	41.2837	92.4905	-837	QK	3.4	2	7.6	0	1.1	0	0.444	1	2.985	2	6.727	0	1913	40	1.4
44984.3	10000	41.2837	92.4897	-842	QK	3.3	2	7.1	0	1.1	0	0.457	1	2.929	1	6.414	0	1907	38	1.4
44984.2	10000	41.2837	92.4889	-846	QK	3.0	1	6.7	-1	1.1	0	0.453	1	2.690	1	5.943	-1	1878	35	1.4
44984.1	10000	41.2837	92.4882	-851	QK	2.6	0	6.7	-1	1.1	0	0.385	0	2.310	0	6.002	-1	1845	40	1.4
44984.0	10000	41.2836	92.4874	-856	QK	2.3	0	6.8	-1	1.1	0	0.339	0	2.043	0	6.033	-1	1844	38	1.4
44983.9	10000	41.2836	92.4866	-861	QK	2.2	-1	6.7	-1	1.2	0	0.330	0	1.919	-1	5.823	-1	1854	32	1.4
44983.8	10000	41.2836	92.4859	-866	QK	2.2	-1	6.7	-1	1.2	0	0.328	0	1.903	-1	5.811	-1	1862	39	1.4
44983.7	10000	41.2836	92.4851	-871	QK	2.2	-1	6.7	-1	1.2	0	0.335	0	1.950	-1	5.812	-1	1878	41	1.4
44983.6	10000	41.2836	92.4843	-876	QK	2.5	0	7.1	0	1.2	0	0.349	0	2.124	0	6.086	-1	1905	44	1.4
44983.5	10000	41.2836	92.4835	-880	QK	2.7	0	7.3	0	1.2	1	0.374	0	2.282	0	6.109	-1	1935	40	1.4
44983.4	10000	41.2835	92.4828	-883	QK	3.0	1	7.2	0	1.2	1	0.410	1	2.502	0	6.105	-1	1963	46	1.4
44983.3	10000	41.2835	92.4820	-886	QK	3.2	1	7.4	0	1.2	0	0.429	1	2.731	1	6.366	0	1978	56	1.4
44983.2	10000	41.2835	92.4812	-890	QK	3.3	2	7.5	0	1.2	1	0.435	1	2.697	1	6.203	0	1990	34	1.4
44983.1	10000	41.2835	92.4805	-893	QK	3.2	1	7.7	1	1.2	1	0.417	1	2.642	1	6.34	0	1984	52	1.4
44983.0	10000	41.2835	92.4797	-896	QK	3.0	1	7.9	1	1.2	1	0.380	0	2.477	0	6.510	0	1967	36	1.4
44982.9	10000	41.2835	92.4789	-898	QK	2.7	0	8.1	1	1.3	1	0.337	0	2.163	0	6.416	0	1969	56	1.4
44982.8	10000	41.2835	92.4781	-899	QK	2.4	0	7.9	1	1.3	1	0.302	-1	1.905	-1	6.310	0	1962	62	1.3
44982.7	10000	41.2835	92.4774	-901	QK	2.4	0	8.3	1	1.3	1	0.286	-1	1.848	-1	6.453	0	1956	44	1.3
44982.6	10000	41.2835	92.4766	-902	QK	2.3	0	8.1	1	1.3	2	0.290	-1	1.773	-1	6.102	-1	1936	36	1.3
44982.5	10000	41.2835	92.4758	-903	QK	2.4	0	7.9	1	1.3	1	0.305	-1	1.864	-1	6.106	-1	1921	40	1.4
44982.4	10000	41.2835	92.4751	-903	QK	2.3	0	7.8	1	1.3	1	0.298	-1	1.848	-1	6.204	0	1916	43	1.4
44982.3	10000	41.2835	92.4743	-904	QK	2.4	0	7.7	1	1.2	1	0.314	-1	1.937	-1	6.165	0	1914	54	1.4
44982.2	10000	41.2835	92.4735	-905	QK	2.5	0	7.6	1	1.2	1	0.330	-1	2.075	-1	6.291	0	1895	38	1.4
44982.1	10000	41.2835	92.4728	-905	QK	2.9	1	8.0	1	1.2	1	0.363	0	2.459	0	6.771	0	1903	40	1.4
44982.0	10000	41.2836	92.4720	-906	QK	3.1	2	7.7	1	1.2	1	0.399	1	2.674	0	6.695	0	1896	45	1.4
44981.9	10000	41.2836	92.4712	-906	QK	3.3	2	7.3	1	1.1	1	0.453	2	2.981	2	6.582	0	1905	42	1.4
44981.8	10000	41.2836	92.4705	-906	QK	3.3	2	7.1	1	1.1	1	0.469	2	2.981	2	6.360	0	1896	40	1.4
44981.7	10000	41.2836	92.4697	-906	QK	3.6	2	7.0	1	1.1	1	0.515	2	3.292	2	6.391	0	1900	41	1.4
44981.6	10000	41.2836	92.4689	-906	QK	3.5	2	6.9	1	1.1	1	0.512	2	3.121	2	6.092	-1	1910	41	1.4
44981.5	10000	41.2836	92.4682	-906	QK	3.6	2	6.4	1	1.1	1	0.560	3	3.223	2	5.759	-1	1911	41	1.4
44981.4	10000	41.2836	92.4674	-906	QK	3.6	2	6.1	1	1.1	1	0.590	3	3.176	2	5.380	-2	1900	45	1.4
44981.3	10000	41.2836	92.4666	-905	QK	3.5	2	5.9	1	1.2	1	0.601	3	3.064	2	5.096	-2	1906	32	1.4
44981.2	10000	41.2836	92.4659	-905	QK	3.2	1	5.9	1	1.2	1	0.535	2	2.717	1	5.078	-2	1905	38	1.4
44981.1	10000	41.2836	92.4651	-904	QK	3.1	1	6.0	1	1.2	1	0.515	2	2.608	1	5.060	-2	1918	51	1.4
44981.0	10000	41.2837	92.4643	-904	QK	2.9	1	6.0	1	1.2	1	0.473	2	2.345	1	4.956	-2	1920	56	1.4
44980.9	10000	41.2837	92.4636	-903	QK	2.8	1	6.1	1	1.2	1	0.467	2	2.338	1	5.003	-2	1906	52	1.4
44980.8	10000	41.2837	92.4628	-902	QK	2.6	1	6.3	1	1.2	1	0.410	2	2.145	1	5.236	-2	1923	41	1.4
44980.7	10000	41.2837	92.4620	-901	QK	2.5	1	6.3	1	1.2	1	0.398	2	2.079	1	5.222	-2	1917	45	1.4
44980.6	10000	41.2837	92.4613	-900	QK	2.4	1	6.7	1	1.2	1	0.357	1	2.106	1	5.896	-1	1922	41	1.4
44980.5	10000	41.2837	92.4605	-898	QK	2.6	1	6.9	1	1.2	1	0.381	1	2.299	1	6.028	-1	1929	42	1.4
44980.4	10000	41.2837	92.4597	-897	QK	2.8	1	7.2	1	1.2	1	0.383	1	2.429	1	6.340	0	1933	43	1.4
44980.3	10000	41.2837	92.4590	-896	QK	2.8	1	7.3	1	1.2	1	0.385	1	2.417	1	6.279	0	1936	43	1.4
44980.2	10000	41.2837	92.4582	-894	QK	2.9	1	7.5	1	1.2	1	0.387	1	2.638	1	6.811	0	1949	47	1.4
44980.1	10000	41.2838	92.4574	-893	QK	3.0	1	7.5	1	1.2	1	0.401	1	2.690	1	6.713	0	1925	37	1.5
44980.0	10000	41.2838	92.4566	-891	QK	3.0	1	7.4	1	1.2	1	0.396	1	2.749	1	6.941	-1	1902	42	1.5
44979.9	10000	41.2838	92.4559	-890	QK	3.0	1	7.3	1	1.1	1	0.417	1	2.797	1	6.706	0	1876	52	1.5
44979.8	10000	41.2838	92.4551	-888	QK	3.2	1	7.4	0	1.1	0	0.433	1	2.920	1	6.743	0	1867	37	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44979.7	10000	41.2838	92.4543	-886	QK	3.0	1	7.3	0	1.1	0	0.412	1	2.795	1	6.789	0	1835	40	1.5
44979.6	10000	41.2838	92.4536	-885	QK	3.1	1	6.9	0	1.0	-1	0.452	1	3.138	2	6.937	1	1808	48	1.5
44979.5	10000	41.2838	92.4528	-883	QK	3.0	1	6.6	-1	1.0	-1	0.461	2	3.013	2	6.538	0	1796	40	1.5
44979.4	10000	41.2838	92.4520	-881	QK	3.1	1	6.4	-1	1.0	-1	0.490	2	3.044	2	6.209	0	1787	42	1.5
44979.3	10000	41.2838	92.4513	-879	QK	2.9	1	6.6	-1	1.0	-1	0.446	1	2.846	1	6.382	0	1816	46	1.5
44979.2	10000	41.2839	92.4505	-877	QK	2.9	1	6.7	-1	1.0	-1	0.438	1	2.810	1	6.415	0	1838	33	1.5
44979.1	10000	41.2839	92.4497	-875	QK	2.8	1	6.9	0	1.0	-1	0.414	1	2.762	1	6.677	0	1855	45	1.5
44979.0	10000	41.2839	92.4490	-873	QK	2.9	1	6.7	-1	1.0	-1	0.425	1	2.755	1	6.484	0	1879	46	1.5
44978.9	10000	41.2839	92.4482	-871	QK	2.7	0	7.1	0	1.1	0	0.390	1	2.493	0	6.401	0	1892	41	1.5
44978.8	10000	41.2839	92.4474	-870	QK	2.6	0	7.0	0	1.1	0	0.373	0	2.282	0	6.119	-1	1906	49	1.5
44978.7	10000	41.2839	92.4467	-867	QK	2.7	0	7.6	0	1.1	0	0.360	0	2.410	0	6.689	0	1926	31	1.5
44978.6	10000	41.2839	92.4459	-865	QK	2.6	0	7.5	0	1.2	0	0.349	0	2.217	0	6.357	0	1915	40	1.5
44978.5	10000	41.2839	92.4451	-863	QK	2.6	0	7.3	0	1.1	0	0.350	0	2.245	0	6.420	0	1889	42	1.5
44978.4	10000	41.2839	92.4444	-861	QK	2.5	0	7.2	0	1.1	0	0.340	0	2.219	0	6.520	0	1852	39	1.5
44978.3	10000	41.2839	92.4436	-859	QK	2.6	0	7.1	0	1.1	0	0.370	0	2.443	0	6.608	0	1816	48	1.5
44978.2	10000	41.2840	92.4428	-856	QK	2.8	1	7.0	0	1.0	-1	0.397	1	2.758	1	6.949	1	1801	40	1.5
44978.1	10000	41.2840	92.4421	-853	QK	2.8	1	7.1	0	1.0	-1	0.393	1	2.811	1	7.159	1	1800	40	1.5
44978.0	10000	41.2840	92.4413	-850	QK	2.6	0	6.9	0	1.0	-1	0.368	0	2.673	1	7.269	1	1809	58	1.5
44977.9	10000	41.2840	92.4405	-848	QAL	2.9	1	7.5	1	0.9	-1	0.385	0	3.151	2	8.190	3	1810	43	1.5
44977.8	10000	41.2840	92.4398	-846	QAL	3.0	1	6.9	0	0.9	-1	0.437	1	3.277	2	7.498	2	1812	41	1.5
44977.7	10000	41.2840	92.4390	-843	QAL	2.9	1	6.8	0	0.9	-1	0.430	1	3.159	2	7.354	2	1810	42	1.5
44977.6	10000	41.2840	92.4382	-841	QAL	2.7	0	6.8	0	0.9	-1	0.397	0	2.890	1	7.274	1	1824	45	1.5
44977.5	10000	41.2840	92.4375	-839	QAL	2.6	0	6.8	0	1.0	-1	0.382	0	2.655	1	6.944	1	1838	37	1.5
44977.4	10000	41.2840	92.4367	-837	QAL	2.7	0	6.6	0	1.0	0	0.408	0	2.668	1	6.537	1	1819	47	1.5
44977.3	10000	41.2840	92.4359	-835	QAL	2.8	1	6.4	0	1.1	0	0.434	1	2.615	1	6.031	0	1801	39	1.5
44977.2	10000	41.2841	92.4352	-834	QAL	2.7	0	6.1	0	1.1	0	0.446	1	2.506	0	5.619	-1	1796	53	1.5
44977.1	10000	41.2841	92.4344	-832	QAL	2.8	1	6.5	0	1.1	0	0.434	1	2.507	0	5.778	0	1835	40	1.5
44977.0	10000	41.2841	92.4336	-831	QAL	2.9	1	6.6	0	1.2	1	0.434	1	2.440	0	5.620	-1	1875	43	1.5
44976.9	10000	41.2841	92.4328	-830	QAL	2.9	1	6.8	0	1.2	1	0.418	1	2.390	0	5.711	-1	1898	48	1.5
44976.8	10000	41.2841	92.4321	-829	QK	2.9	1	6.8	-1	1.2	1	0.425	1	2.339	0	5.507	-1	1906	45	1.5
44976.7	10000	41.2841	92.4313	-828	QK	2.9	1	7.0	0	1.2	1	0.413	1	2.400	0	5.809	-1	1931	41	1.5
44976.6	10000	41.2841	92.4306	-827	QK	3.1	1	7.4	1	1.1	1	0.417	1	2.713	1	6.510	0	1938	32	1.5
44976.5	10000	41.2841	92.4298	-826	QK	3.2	1	7.7	1	1.1	1	0.408	1	2.813	1	6.897	1	1944	50	1.5
44976.4	10000	41.2841	92.4290	-826	QK	3.0	1	7.6	1	1.1	1	0.393	1	2.699	1	6.874	1	1923	39	1.5
44976.3	10000	41.2841	92.4283	-826	QK	3.2	1	7.5	1	1.1	1	0.427	1	3.020	1	7.068	1	1902	31	1.5
44976.2	10000	41.2841	92.4275	-826	QK	3.2	1	7.6	1	1.1	1	0.418	1	2.978	1	7.130	1	1899	45	1.5
44976.1	10000	41.2842	92.4267	-826	QK	3.3	1	7.2	1	1.0	1	0.453	1	3.167	1	6.986	1	1886	42	1.5
44976.0	10000	41.2842	92.4259	-826	QK	3.2	1	7.2	1	1.0	1	0.448	1	3.224	1	7.198	1	1861	38	1.5
44975.9	10000	41.2842	92.4252	-827	QK	2.8	1	6.7	1	1.1	1	0.418	1	2.652	0	6.347	0	1841	43	1.5
44975.8	10000	41.2842	92.4244	-827	QK	2.6	0	6.5	1	1.1	1	0.406	1	2.438	0	6.011	-1	1825	48	1.4
44975.7	10000	41.2842	92.4236	-827	QK	2.4	0	6.7	1	1.1	1	0.357	0	2.152	0	6.033	-1	1822	47	1.4
44975.6	10000	41.2842	92.4229	-827	QK	2.0	-1	6.5	1	1.2	1	0.311	-1	1.743	-1	5.610	-1	1820	34	1.4
44975.5	10000	41.2842	92.4221	-827	QK	2.1	-1	6.9	1	1.1	1	0.303	-1	1.819	-1	6.008	-1	1840	51	1.4
44975.4	10000	41.2842	92.4213	-827	QK	1.9	-1	7.4	1	1.2	1	0.256	-1	1.629	-1	6.352	0	1864	44	1.4
44975.3	10000	41.2842	92.4206	-827	QK	2.1	-1	7.5	1	1.2	1	0.281	-1	1.805	-1	6.420	0	1885	39	1.4
44975.2	10000	41.2843	92.4198	-827	QK	2.3	-1	7.6	1	1.2	1	0.297	-1	1.939	-1	6.526	0	1925	38	1.4
44975.1	10000	41.2843	92.4190	-827	QK	2.4	-1	7.7	1	1.2	1	0.314	-1	2.004	-1	6.376	0	1951	45	1.4
44975.0	10000	41.2843	92.4183	-827	QK	2.3	-1	7.8	1	1.2	1	0.302	-1	2.011	-1	6.660	0	1951	31	1.4
44974.9	10000	41.2843	92.4175	-827	QK	2.3	0	8.0	1	1.1	1	0.290	-1	2.087	0	7.201	1	1955	44	1.4
44974.8	10000	41.2843	92.4167	-826	QK	2.4	0	7.9	1	1.1	1	0.305	-1	2.124	0	6.962	1	1947	53	1.4
44974.7	10000	41.2843	92.4160	-826	QK	2.6	0	7.9	1	1.1	1	0.329	0	2.318	0	7.050	1	1943	47	1.4
44974.6	10000	41.2843	92.4152	-825	QK	2.5	0	7.9	1	1.1	0	0.319	0	2.248	0	7.041	1	1938	36	1.3

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44974.5	10000	41.2843	92.4144	-824	QK	2.6	0	8.0	1	1.1	0	0.327	0	2.399	0	7.346	1	1907	36	1.3
44974.4	10000	41.2843	92.4137	-824	QK	2.4	0	7.7	1	1.0	-1	0.310	-1	2.341	0	7.544	2	1883	53	1.3
44974.3	10000	41.2843	92.4129	-822	QK	2.8	1	7.5	0	1.1	-1	0.374	0	2.664	1	7.130	1	1872	43	1.3
44974.2	10000	41.2843	92.4121	-820	QK	2.9	1	7.5	0	1.1	0	0.379	0	2.648	1	6.993	1	1874	42	1.3
44974.1	10000	41.2844	92.4114	-818	QK	2.9	1	7.6	0	1.0	-1	0.380	0	2.756	1	7.250	1	1861	37	1.3
44974.0	10000	41.2844	92.4106	-816	QK	2.5	1	7.4	0	1.0	-1	0.340	0	2.421	0	7.127	1	1829	47	1.3
44973.9	10000	41.2844	92.4098	-814	QK	2.4	0	7.6	0	1.1	0	0.315	0	2.179	0	6.91[illegible]	1	1836	51	1.3
44973.8	10000	41.2844	92.4091	-812	QK	2.3	0	7.4	0	1.1	0	0.312	-1	2.111	0	6.77[illegible]	0	1850	56	1.3
44973.7	10000	41.2844	92.4083	-809	QK	2.7	0	7.5	0	1.1	0	0.358	0	2.488	0	6.955	1	1863	39	1.2
44973.6	10000	41.2844	92.4075	-806	QK	2.6	0	7.6	1	1.1	0	0.335	0	2.316	0	6.921	1	1873	50	1.2
44973.5	10000	41.2844	92.4068	-803	QK	2.9	1	7.7	1	1.2	0	0.378	0	2.500	0	6.618	0	1877	44	1.2
44973.4	10000	41.2844	92.4060	-800	QK	3.0	1	7.4	0	1.2	0	0.404	1	2.581	1	6.390	0	1884	24	1.2
44973.3	10000	41.2844	92.4052	-797	QK	3.2	1	7.5	0	1.2	0	0.427	1	2.733	1	6.398	0	1903	43	1.2
44973.2	10000	41.2845	92.4044	-793	QK	3.1	1	7.5	0	1.1	0	0.409	1	2.702	1	6.609	0	1894	36	1.2
44973.1	10000	41.2845	92.4037	-790	QK	3.0	1	8.0	1	1.2	0	0.372	0	2.549	1	6.855	1	1889	38	1.2
44973.0	10000	41.2845	92.4029	-787	QK	2.7	1	8.0	1	1.2	1	0.334	0	2.161	0	6.471	0	1897	49	1.2
44972.9	10000	41.2845	92.4021	-783	QK	2.7	0	8.0	1	1.3	1	0.341	0	2.156	0	6.323	0	1913	37	1.2
44972.8	10000	41.2845	92.4014	-780	QK	2.4	0	8.4	2	1.3	1	0.290	-1	1.893	-1	6.534	0	1916	34	1.2
44972.7	10000	41.2845	92.4006	-777	QK	2.1	-1	8.3	1	1.3	1	0.259	-1	1.648	-1	6.370	0	1896	34	1.1
44972.6	10000	41.2845	92.3998	-775	QK	2.2	-1	8.5	2	1.3	1	0.255	-1	1.711	-1	6.702	0	1906	49	1.1
44972.5	10000	41.2845	92.3991	-772	QK	2.3	0	8.5	2	1.3	1	0.275	-1	1.807	-1	6.578	0	1914	51	1.1
44972.4	10000	41.2845	92.3983	-770	QK	2.4	0	8.1	1	1.3	1	0.293	-1	1.838	-1	6.280	0	1901	36	1.1
44972.3	10000	41.2845	92.3975	-768	QK	2.4	0	8.0	1	1.3	1	0.300	-1	1.906	-1	6.361	0	1889	52	1.1
44972.2	10000	41.2846	92.3968	-766	QK	2.2	-1	7.8	1	1.2	1	0.283	-1	1.796	-1	6.333	0	1870	50	1.1
44972.1	10000	41.2846	92.3960	-765	QK	2.2	-1	7.7	1	1.2	1	0.287	-1	1.804	-1	6.280	0	1874	50	1.1
44972.0	10000	41.2846	92.3952	-764	QK	2.3	0	8.0	1	1.2	1	0.293	-1	1.914	-1	6.544	0	1882	43	1.1
44971.9	10000	41.2846	92.3945	-762	QK	2.2	-1	7.6	1	1.2	1	0.288	-1	1.803	-1	6.253	0	1859	52	1.1
44971.8	10000	41.2846	92.3937	-762	QK	2.0	-1	7.6	1	1.2	1	0.264	-1	1.644	-1	6.219	0	1839	52	1.1
44971.7	10000	41.2846	92.3929	-762	QK	2.0	-1	7.8	1	1.2	1	0.258	-1	1.640	-1	6.362	0	1859	41	1.0
44971.6	10000	41.2846	92.3922	-763	QK	2.3	0	8.3	1	1.3	1	0.283	-1	1.845	-1	6.523	0	1859	41	1.0
44971.5	10000	41.2846	92.3914	-763	QK	2.3	0	8.7	2	1.2	1	0.266	-1	1.914	-1	7.185	1	1857	39	1.0
44971.4	10000	41.2846	92.3906	-764	QK	2.4	1	8.1	1	1.1	0	0.300	-1	2.139	0	7.136	1	1839	60	1.0
44971.3	10000	41.2846	92.3899	-765	QK	2.6	1	7.9	1	1.1	0	0.326	0	2.272	0	6.980	1	1840	40	1.0
44971.2	10000	41.2847	92.3891	-765	QK	2.6	1	8.2	1	1.2	0	0.320	0	2.152	0	6.723	1	1854	46	1.0
44971.1	10000	41.2847	92.3883	-765	QK	2.7	1	8.0	1	1.2	0	0.332	0	2.259	0	6.800	1	1864	55	1.0
44971.0	10000	41.2847	92.3876	-768	QK	2.7	1	7.9	1	1.2	0	0.338	0	2.260	0	6.693	1	1853	51	1.0
44970.9	10000	41.2847	92.3868	-774	QK	2.6	0	7.4	0	1.1	0	0.346	0	2.254	0	6.518	1	1845	39	1.0
44970.8	10000	41.2847	92.3860	-778	QK	2.7	0	7.3	0	1.1	0	0.368	0	2.340	0	6.364	1	1862	49	1.0
44970.7	10000	41.2847	92.3853	-782	QK	2.6	0	7.7	1	1.2	0	0.336	0	2.215	0	6.591	1	1869	42	1.0
44970.6	10000	41.2847	92.3845	-786	QK	2.4	0	8.1	1	1.2	0	0.292	-1	2.014	-1	6.905	1	1861	41	1.0
44970.5	10000	41.2847	92.3837	-790	QK	2.7	0	7.8	1	1.1	0	0.343	0	2.491	0	7.273	1	1836	37	1.0
44970.4	10000	41.2847	92.3829	-794	QK	2.8	1	7.6	1	1.1	0	0.371	0	2.641	1	7.117	1	1820	36	0.9
44970.3	10000	41.2847	92.3822	-799	QK	2.8	1	7.7	1	1.0	-1	0.368	0	2.882	1	7.823	2	1809	42	0.9
44970.2	10000	41.2848	92.3814	-804	QK	2.8	0	7.7	1	1.0	-1	0.365	0	2.936	1	8.049	2	1813	49	0.9
44970.1	10000	41.2848	92.3806	-809	QK	2.6	0	7.5	1	1.0	-1	0.351	-1	2.761	1	7.865	2	1785	34	0.9
44970.0	10000	41.2848	92.3799	-814	QK	2.8	0	7.3	1	1.0	-1	0.385	-1	2.961	1	7.683	2	1767	32	0.9
44969.9	10000	41.2848	92.3791	-819	QK	2.9	0	6.8	1	0.9	-1	0.421	-1	3.031	2	7.201	2	1757	57	0.9
44969.8	10000	41.2848	92.3783	-824	QK	2.7	0	7.2	1	1.0	-1	0.379	-1	2.752	1	7.256	2	1769	49	0.9
44969.7	10000	41.2848	92.3776	-829	QK	2.6	0	7.4	1	1.1	-1	0.349	-1	2.608	1	7.481	1	1767	40	0.9
44969.6	10000	41.2848	92.3768	-834	QK	2.5	0	7.0	1	1.1	-1	0.366	-1	2.379	1	6.491	1	1781	46	0.9
44969.5	10000	41.2848	92.3760	-839	QK	2.6	0	7.6	1	1.1	-1	0.343	-1	2.459	1	7.173	1	1783	48	0.9
44969.4	10000	41.2848	92.3753	-845	QK	2.8	1	7.3	0	1.1	0	0.379	0	2.614	1	6.902	1	1797	35	0.9

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKJT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44969.3	10000	41.2848	92.3745	-850	QK	2.9	1	7.1	0	1.1	-1	0.414	1	2.796	1	6.751	0	1805	38	0.9
44969.2	10000	41.2849	92.3737	-855	QK	3.1	1	7.4	0	1.1	0	0.425	1	2.870	1	6.886	1	1817	47	0.9
44969.1	10000	41.2849	92.3730	-860	QK	3.1	1	7.4	0	1.0	-1	0.413	1	2.922	-1	7.082	1	1824	56	0.9
44969.0	10000	41.2849	92.3722	-864	QK	3.2	1	7.1	0	1.1	0	0.455	1	2.958	2	6.567	0	1831	47	0.9
44968.9	10000	41.2849	92.3714	-869	QK	3.3	2	7.2	0	1.0	-1	0.463	2	3.200	2	6.906	1	1812	42	0.9
44968.8	10000	41.2849	92.3707	-873	QK	3.1	1	6.8	-1	1.0	-1	0.456	1	2.958	1	6.481	0	1794	46	0.9
44968.7	10000	41.2849	92.3699	-875	QK	3.0	1	7.0	0	1.1	-1	0.431	1	2.882	1	6.679	0	1777	46	0.9
44968.6	10000	41.2849	92.3691	-878	QK	2.8	1	7.4	0	1.0	-1	0.377	1	2.661	1	7.113	1	1786	54	0.9
44968.5	10000	41.2849	92.3684	-883	QK	2.8	1	7.2	0	1.1	-1	0.388	1	2.735	1	6.797	0	1798	42	0.9
44968.4	10000	41.2849	92.3676	-887	QK	2.8	1	6.9	0	1.1	0	0.407	1	2.599	1	6.384	0	1815	52	0.9
44968.3	10000	41.2849	92.3668	-890	QK	2.9	1	7.5	0	1.1	0	0.387	1	2.525	1	6.632	0	1829	43	0.9
44968.2	10000	41.2849	92.3661	-892	QK	2.8	1	7.6	0	1.2	1	0.370	1	2.343	1	6.326	0	1858	41	0.9
44968.1	10000	41.2850	92.3653	-894	QK	3.0	1	7.2	0	1.3	1	0.410	1	2.353	0	5.737	-1	1892	39	1.0
44968.0	10000	41.2850	92.3645	-896	QK	3.2	1	7.2	0	1.3	1	0.445	1	2.562	1	5.758	-1	1925	37	1.0
44967.9	10000	41.2850	92.3638	-898	QK	3.5	2	7.4	0	1.3	1	0.470	1	2.710	1	5.764	-1	1935	44	1.0
44967.8	10000	41.2850	92.3630	-900	QK	3.4	2	7.3	0	1.2	1	0.469	2	2.713	1	5.781	-1	1917	48	1.0
44967.7	10000	41.2850	92.3622	-901	QK	3.4	2	7.3	0	1.2	1	0.461	2	2.705	1	5.868	-1	1916	39	1.0
44967.6	10000	41.2850	92.3615	-902	QK	3.4	2	7.1	0	1.2	1	0.479	2	2.826	1	5.901	-1	1926	38	1.0
44967.5	10000	41.2850	92.3607	-904	QK	3.5	2	6.8	-1	1.1	0	0.515	2	3.074	2	5.972	-1	1928	47	1.0
44967.4	10000	41.2850	92.3599	-905	QK	3.7	2	7.1	0	1.1	0	0.517	2	3.331	2	6.449	0	1926	41	1.0
44967.3	10000	41.2850	92.3591	-905	QK	3.7	2	7.0	0	1.1	0	0.528	2	3.356	2	6.355	0	1936	51	1.0
44967.2	10000	41.2850	92.3584	-906	QK	3.3	2	6.8	-1	1.1	0	0.485	2	2.909	1	5.995	-1	1928	49	1.0
44967.1	10000	41.2851	92.3576	-906	QK	3.3	2	7.1	0	1.1	0	0.472	2	2.972	1	6.300	0	1945	47	1.0
44967.0	10000	41.2851	92.3568	-906	QK	3.3	2	6.9	0	1.1	0	0.476	2	2.891	1	6.076	-1	1949	29	1.0
44966.9	10000	41.2851	92.3561	-906	QK	3.1	2	6.9	0	1.2	1	0.481	2	2.869	1	5.967	-1	1949	37	1.0
44966.8	10000	41.2851	92.3553	-906	QK	2.9	1	7.2	0	1.2	1	0.428	1	2.505	1	5.851	-1	1953	33	1.0
44966.7	10000	41.2851	92.3546	-905	QK	2.8	1	7.5	0	1.3	1	0.383	1	2.245	0	5.867	-1	1943	33	1.0
44966.6	10000	41.2851	92.3538	-905	QK	2.8	1	7.7	1	1.2	1	0.361	1	2.224	0	6.152	0	1930	59	1.0
44966.5	10000	41.2851	92.3530	-904	QK	2.8	1	7.7	1	1.2	1	0.368	1	2.281	0	6.197	0	1945	40	1.1
44966.4	10000	41.2851	92.3522	-904	QK	2.5	1	7.9	1	1.3	1	0.314	0	1.929	-1	6.152	0	1962	39	1.1
44966.3	10000	41.2851	92.3515	-903	QK	2.5	1	8.2	1	1.3	1	0.311	0	1.995	-1	6.408	0	1962	45	1.1
44966.2	10000	41.2851	92.3507	-903	QK	2.2	1	8.3	1	1.2	1	0.262	0	1.744	-1	6.658	0	1954	43	1.1
44966.1	10000	41.2852	92.3499	-902	QK	2.4	1	8.6	2	1.2	1	0.277	0	2.003	-1	7.237	1	1959	39	1.1
44966.0	10000	41.2852	92.3492	-902	QK	2.4	1	8.2	1	1.1	1	0.298	0	2.145	0	7.195	1	1970	43	1.1
44965.9	10000	41.2852	92.3484	-901	QK	2.5	1	8.2	1	1.2	1	0.305	0	2.098	0	6.875	1	1973	47	1.1
44965.8	10000	41.2852	92.3476	-901	QK	2.5	1	8.2	1	1.2	1	0.308	0	2.180	0	7.068	1	1959	40	1.1
44965.7	10000	41.2852	92.3469	-900	QK	2.7	1	7.8	1	1.1	1	0.343	0	2.423	0	7.054	1	1930	40	1.1
44965.6	10000	41.2852	92.3461	-900	QK	2.7	1	8.1	1	1.1	1	0.337	0	2.469	0	7.332	1	1919	41	1.1
44965.5	10000	41.2853	92.3453	-899	QK	2.8	1	7.9	1	1.1	1	0.358	0	2.486	0	6.941	1	1926	46	1.2
44965.4	10000	41.2853	92.3445	-898	QK	2.7	1	7.7	1	1.2	1	0.346	0	2.291	0	6.614	1	1926	42	1.2
44965.3	10000	41.2853	92.3438	-898	QK	2.4	1	7.8	1	1.2	1	0.311	-1	2.041	0	6.574	1	1923	43	1.2
44965.2	10000	41.2852	92.3430	-898	QK	2.2	1	7.8	1	1.2	1	0.280	-1	1.835	-1	6.547	1	1917	52	1.2
44965.1	10000	41.2852	92.3422	-897	QK	2.2	1	8.1	1	1.2	1	0.279	-1	1.857	-1	6.661	1	1920	48	1.2
44965.0	10000	41.2852	92.3414	-897	QK	2.2	1	8.4	2	1.3	1	0.261	-1	1.709	-1	6.536	1	1928	36	1.2
44964.9	10000	41.2852	92.3406	-897	QK	2.1	1	8.2	2	1.3	1	0.261	-1	1.657	-1	6.358	1	1925	54	1.2
44964.8	10000	41.2852	92.3398	-897	QK	2.3	1	8.2	2	1.3	1	0.275	-1	1.800	-1	6.540	1	1894	45	1.2
44964.7	10000	41.2852	92.3390	-897	QK	2.2	1	8.2	2	1.2	1	0.267	-1	1.805	-1	6.765	1	1851	38	1.2
44964.6	10000	41.2852	92.3382	-897	QK	2.2	1	8.1	2	1.2	1	0.273	-1	1.889	-1	6.910	1	1819	44	1.2
44964.5	10000	41.2852	92.3374	-896	QK	2.3	1	7.4	1	1.1	0	0.285	-1	2.040	0	7.154	1	1795	42	1.3
44964.4	10000	41.2852	92.3367	-896	QK	2.3	1	7.4	1	1.1	0	0.313	-1	2.037	0	6.507	0	1778	39	1.3
44964.3	10000	41.2852	92.3359	-896	QK	2.4	1	7.2	1	1.1	0	0.331	0	2.202	0	6.661	0	1756	35	1.3
44964.2	10000	41.2852	92.3351	-896	QK	2.4	0	7.4	0	1.0	-1	0.326	0	2.310	0	7.090	1	1743	46	1.3

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44964.1	10000	41.2852	92.3343	-897	QK	2.3	0	7.3	0	1.1	-1	0.317	0	2.201	0	6.949	1	1749	53	1.3
44964.0	10000	41.2852	92.3335	-897	QK	2.6	0	7.2	0	1.1	0	0.361	0	2.423	0	6.722	0	1766	39	1.3
44963.9	10000	41.2852	92.3327	-897	QK	2.6	0	7.1	0	1.0	-1	0.371	0	2.545	1	6.857	1	1760	34	1.3
44963.8	10000	41.2852	92.3319	-897	QK	2.5	0	7.3	0	1.0	-1	0.344	0	2.433	0	7.063	1	1764	44	1.3
44963.7	10000	41.2852	92.3311	-897	QK	2.4	0	7.7	1	1.0	-1	0.310	-1	2.476	0	7.987	2	1771	51	1.3
44963.6	10000	41.2852	92.3304	-897	QK	2.6	0	7.7	1	1.0	-1	0.342	0	2.760	1	8.062	2	1791	40	1.3
44963.5	10000	41.2852	92.3296	-897	QK	2.6	0	7.6	1	1.0	-1	0.347	0	2.687	1	7.748	2	1805	48	1.3
44963.4	10000	41.2852	92.3288	-897	QK	2.7	0	7.9	1	1.0	-1	0.346	0	2.843	1	8.225	2	1818	45	1.4
44963.3	10000	41.2852	92.3280	-897	QK	2.7	0	7.9	1	1.0	-1	0.342	0	2.759	1	8.064	2	1837	47	1.4
44963.2	10000	41.2852	92.3272	-897	QK	2.8	0	8.3	1	1.0	-1	0.331	0	2.713	1	8.186	2	1867	31	1.4
44963.1	10000	41.2852	92.3264	-897	QK	2.7	0	7.9	1	1.0	-1	0.347	0	2.626	1	7.564	2	1877	48	1.4
44963.0	10000	41.2852	92.3256	-895	QK	2.9	1	7.9	1	1.1	0	0.360	0	2.607	1	7.243	1	1887	51	1.4
44962.9	10000	41.2852	92.3248	-895	QK	2.7	0	8.1	1	1.1	0	0.338	0	2.422	0	7.160	1	1896	44	1.4
44962.8	10000	41.2852	92.3241	-898	QK	2.5	0	8.0	1	1.2	1	0.316	0	2.140	0	6.770	0	1900	43	1.4
44962.7	10000	41.2852	92.3233	-901	QK	2.3	0	7.5	0	1.2	1	0.311	-1	1.950	-1	6.267	0	1897	44	1.4
44962.6	10000	41.2852	92.3225	-902	QK	2.3	-1	7.8	1	1.2	1	0.291	-1	1.899	-1	6.534	0	1895	40	1.4
44962.5	10000	41.2852	92.3217	-904	QK	2.2	-1	7.6	1	1.2	1	0.286	-1	1.801	-1	6.298	0	1905	42	1.4
44962.4	10000	41.2852	92.3209	-904	QK	2.1	-1	8.2	1	1.2	1	0.259	-1	1.753	-1	6.763	0	1924	46	1.4
44962.3	10000	41.2852	92.3201	-906	QK	2.0	-1	8.2	1	1.2	1	0.241	-2	1.598	-1	6.630	0	1939	41	1.4
44962.2	10000	41.2852	92.3193	-907	QK	2.2	-1	8.2	1	1.3	1	0.263	-1	1.675	-1	6.379	0	1951	43	1.5
44962.1	10000	41.2852	92.3185	-908	QK	2.3	-1	8.1	1	1.3	1	0.278	-1	1.789	-1	6.429	0	1961	38	1.5
44962.0	10000	41.2852	92.3177	-910	QK	2.3	-1	8.7	2	1.3	1	0.268	-1	1.841	-1	6.876	1	1977	50	1.5
44961.9	10000	41.2852	92.3169	-911	QK	2.3	-1	8.6	2	1.2	1	0.263	-1	1.861	-1	7.063	1	1975	40	1.5
44961.8	10000	41.2852	92.3162	-913	QK	2.2	-1	8.9	2	1.2	1	0.251	-1	1.825	-1	7.264	1	1983	42	1.5
44961.7	10000	41.2852	92.3154	-915	QK	2.4	0	8.4	2	1.2	1	0.288	-1	1.983	-1	6.876	1	1964	41	1.5
44961.6	10000	41.2852	92.3146	-917	QK	2.5	0	8.4	2	1.2	1	0.294	-1	2.021	-1	6.877	1	1959	27	1.5
44961.5	10000	41.2852	92.3138	-919	QK	2.2	-1	8.1	1	1.2	0	0.265	-1	1.861	-1	7.034	1	1940	36	1.5
44961.4	10000	41.2852	92.3130	-922	QK	2.2	-1	8.1	1	1.2	1	0.277	-1	1.894	-1	6.836	1	1946	35	1.5
44961.3	10000	41.2852	92.3122	-924	QK	2.4	0	7.7	1	1.2	1	0.314	-1	2.017	-1	6.422	0	1920	32	1.5
44961.2	10000	41.2852	92.3114	-927	QK	2.4	0	7.6	1	1.2	1	0.318	-1	2.000	-1	6.291	0	1911	47	1.5
44961.1	10000	41.2852	92.3106	-928	QK	2.6	0	7.3	0	1.2	1	0.359	0	2.214	0	6.160	0	1906	51	1.5
44961.0	10000	41.2852	92.3098	-930	QK	2.5	0	7.3	0	1.2	1	0.347	0	2.099	0	6.049	-1	1921	47	1.5
44960.9	10000	41.2852	92.3091	-931	QK	2.7	0	7.2	0	1.2	1	0.369	0	2.269	0	6.145	0	1922	44	1.5
44960.8	10000	41.2852	92.3083	-933	QK	2.7	0	7.5	0	1.2	1	0.365	0	2.302	0	6.304	0	1944	45	1.5
44960.7	10000	41.2852	92.3075	-936	QK	2.7	0	7.9	1	1.2	1	0.343	0	2.287	0	6.670	0	1946	34	1.5
44960.6	10000	41.2852	92.3067	-938	QK	2.7	0	8.1	1	1.2	1	0.335	0	2.294	0	6.850	1	1973	34	1.5
44960.5	10000	41.2852	92.3059	-939	QK	2.6	0	7.9	1	1.2	1	0.322	0	2.177	0	6.759	0	1985	41	1.5
44960.4	10000	41.2852	92.3051	-940	QK	2.4	0	8.3	1	1.2	0	0.287	-1	2.025	-1	7.046	1	1983	33	1.5
44960.3	10000	41.2852	92.3043	-941	QK	2.3	0	8.6	2	1.2	0	0.269	-1	1.975	-1	7.335	1	1989	54	1.5
44960.2	10000	41.2852	92.3035	-942	QK	2.2	-1	8.7	2	1.2	0	0.253	-1	1.907	-1	7.530	1	1974	49	1.5
44960.1	10000	41.2852	92.3027	-943	QK	2.1	-1	8.7	2	1.2	0	0.245	-1	1.816	-1	7.404	1	1947	43	1.5
44960.0	10000	41.2852	92.3020	-943	QK	2.0	-1	8.4	2	1.1	0	0.239	-2	1.772	-1	7.408	1	1914	38	1.5
44959.9	10000	41.2852	92.3012	-943	QK	1.7	-2	8.1	1	1.1	0	0.214	-2	1.528	-2	7.149	1	1870	47	1.5
44959.8	10000	41.2852	92.3004	-942	QK	1.7	-2	7.8	1	1.1	0	0.217	-2	1.496	-2	6.906	1	1832	50	1.5
44959.7	10000	41.2852	92.2996	-941	QK	1.7	-2	7.2	1	1.2	0	0.233	-2	1.461	-2	6.273	0	1789	58	1.5
44959.6	10000	41.2852	92.2988	-939	QK	1.6	-2	7.1	0	1.1	0	0.230	-2	1.463	-2	6.357	0	1723	51	1.5
44959.5	10000	41.2852	92.2980	-937	QK	1.4	-2	6.6	-1	1.1	0	0.212	-2	1.296	-2	6.107	-1	1668	38	1.5
44959.4	10000	41.2852	92.2972	-934	QK	1.7	-2	6.2	-1	1.0	-1	0.272	-1	1.637	-1	6.018	-1	1624	43	1.5
44959.3	10000	41.2852	92.2964	-931	QK	1.8	-2	5.6	-2	1.0	-1	0.317	0	1.799	-1	5.669	-1	1578	38	1.5
44959.2	10000	41.2852	92.2957	-928	QK	2.0	-1	5.6	-2	0.9	-2	0.359	0	2.267	0	6.309	0	1549	32	1.5
44959.1	10000	41.2852	92.2949	-924	QK	2.1	-1	5.5	-2	0.9	-2	0.388	1	2.460	0	6.341	0	1524	44	1.5
44959.0	10000	41.2852	92.2941	-920	QK	2.1	-1	5.4	-2	0.8	-3	0.387	0	2.552	1	6.601	0	1514	35	1.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44958.9	10000	41.2853	92.2933	-915	QK	2.2	-1	5.5	-2	0.8	-3	0.409	1	2.785	1	6.810	0	1534	27	1.5
44958.8	10000	41.2853	92.2925	-910	QK	2.5	0	5.5	-2	0.8	-3	0.452	1	3.038	1	6.726	0	1567	39	1.5
44958.7	10000	41.2852	92.2917	-904	QK	2.3	-1	5.5	-2	0.8	-2	0.412	1	2.695	1	6.546	0	1592	39	1.5
44958.6	10000	41.2853	92.2909	-899	QK	2.3	0	5.7	-2	0.9	-2	0.407	1	2.639	1	6.481	0	1623	49	1.5
44958.5	10000	41.2852	92.2901	-893	QK	2.4	0	5.3	-3	1.0	-1	0.458	1	2.510	1	5.482	-1	1645	55	1.5
44958.4	10000	41.2853	92.2894	-887	QK	2.5	0	5.3	-3	1.0	-1	0.466	2	2.476	0	5.307	-2	1662	42	1.5
44958.3	10000	41.2853	92.2886	-882	QK	2.7	0	5.2	-3	1.0	-1	0.514	2	2.644	1	5.148	-2	1665	43	1.5
44958.2	10000	41.2853	92.2878	-877	QK	2.7	0	4.8	-3	1.0	-1	0.568	3	2.699	1	4.755	-2	1658	54	1.5
44958.1	10000	41.2853	92.2870	-871	QK	2.6	0	4.7	-3	1.0	-1	0.563	3	2.515	1	4.471	-3	1631	49	1.5
44958.0	10000	41.2852	92.2862	-865	QK	2.7	0	4.8	-3	1.0	-1	0.560	3	2.667	1	4.766	-2	1616	51	1.5
44957.9	10000	41.2853	92.2854	-860	QK	2.6	0	5.1	-3	1.0	-1	0.510	2	2.676	1	5.250	-2	1607	44	1.5
44957.8	10000	41.2853	92.2846	-855	QK	2.5	0	5.6	-2	0.9	-2	0.436	1	2.701	1	6.201	0	1613	54	1.5
44957.7	10000	41.2853	92.2838	-850	QK	2.4	0	6.1	-1	0.9	-2	0.386	0	2.561	1	6.636	0	1637	50	1.5
44957.6	10000	41.2853	92.2830	-845	QK	2.5	0	6.5	-1	1.0	-1	0.378	0	2.450	0	6.481	0	1678	45	1.5
44957.5	10000	41.2853	92.2823	-841	QK	2.5	0	6.7	-1	1.0	-1	0.369	0	2.475	0	6.711	0	1709	45	1.5
44957.4	10000	41.2853	92.2815	-837	QK	2.5	0	7.0	0	1.0	-1	0.354	0	2.373	0	6.697	0	1750	44	1.5
44957.3	10000	41.2853	92.2807	-835	QK	2.4	0	6.8	-1	1.1	-1	0.359	0	2.298	0	6.409	0	1759	45	1.5
44957.2	10000	41.2853	92.2799	-832	QK	2.4	0	6.8	-1	1.1	-1	0.347	0	2.250	0	6.477	0	1735	41	1.4
44957.1	10000	41.2853	92.2791	-831	QK	2.2	-1	6.9	0	1.1	0	0.314	-1	2.006	-1	6.385	0	1705	52	1.4
44957.0	10000	41.2853	92.2783	-830	QK	2.1	-1	6.6	-1	1.0	-1	0.316	0	2.012	-1	6.371	0	1648	44	1.4
44956.9	10000	41.2853	92.2775	-830	QK	1.7	-2	6.3	-1	1.0	-1	0.271	-1	1.699	-1	6.269	0	1595	44	1.4
44956.8	10000	41.2853	92.2767	-832	QK	1.5	-2	6.3	-1	1.0	-1	0.244	-1	1.478	-2	6.068	-1	1553	39	1.4
44956.7	10000	41.2853	92.2759	-833	QK	1.5	-2	6.2	-1	1.0	-1	0.242	-2	1.552	-2	6.405	0	1512	33	1.4
44956.6	10000	41.2853	92.2752	-835	QAL	1.4	-2	6.5	0	1.0	-1	0.212	-2	1.437	-2	6.769	1	1506	44	1.4
44956.5	10000	41.2853	92.2744	-837	QAL	1.5	-2	6.5	0	1.0	0	0.236	-2	1.495	-1	6.344	0	1553	45	1.4
44956.4	10000	41.2853	92.2736	-840	QAL	1.8	-1	6.3	0	1.0	0	0.282	-1	1.718	-1	6.095	0	1612	37	1.4
44956.3	10000	41.2853	92.2728	-843	QAL	2.0	-1	6.5	0	1.1	1	0.308	-1	1.737	-1	5.643	-1	1702	47	1.4
44956.2	10000	41.2853	92.2720	-845	QAL	2.2	-1	7.0	0	1.1	0	0.309	-1	1.899	-1	6.140	0	1764	45	1.4
44956.1	10000	41.2853	92.2712	-849	QAL	2.2	-1	7.1	1	1.2	1	0.304	-1	1.822	-1	5.989	0	1826	42	1.4
44956.0	10000	41.2853	92.2704	-852	QAL	2.3	0	7.3	1	1.2	1	0.320	-1	1.903	-1	5.948	0	1876	47	1.4
44955.9	10000	41.2853	92.2696	-856	QAL	2.5	0	7.6	1	1.3	1	0.326	-1	1.980	-1	6.081	0	1890	38	1.4
44955.8	10000	41.2853	92.2688	-859	QAL	2.3	0	7.2	1	1.2	1	0.324	-1	1.884	-1	5.809	0	1881	46	1.4
44955.7	10000	41.2853	92.2681	-862	QAL	2.2	0	7.0	1	1.3	1	0.314	-1	1.754	-1	5.583	-1	1865	41	1.3
44955.6	10000	41.2853	92.2673	-865	QAL	1.9	-1	6.9	1	1.2	1	0.278	-1	1.584	-1	5.701	-1	1826	38	1.3
44955.5	10000	41.2853	92.2665	-867	QAL	2.0	-1	6.4	1	1.2	1	0.310	-1	1.659	-1	5.347	-1	1806	43	1.3
44955.4	10000	41.2853	92.2657	-870	QAL	2.2	-1	6.5	1	1.2	1	0.335	-1	1.869	-1	5.581	-1	1771	38	1.3
44955.3	10000	41.2853	92.2649	-872	QAL	1.9	-1	6.3	1	1.1	0	0.308	-1	1.697	-1	5.514	-1	1745	37	1.3
44955.2	10000	41.2853	92.2641	-874	QAL	1.9	-1	6.2	1	1.2	1	0.306	-1	1.585	-1	5.183	-1	1757	35	1.3
44955.1	10000	41.2853	92.2633	-877	QAL	1.9	-1	6.7	1	1.2	1	0.290	-1	1.638	-1	5.641	-1	1773	33	1.3
44955.0	10000	41.2853	92.2625	-879	QAL	2.0	-1	6.9	1	1.2	1	0.292	-1	1.760	-1	6.036	0	1790	59	1.3
44954.9	10000	41.2853	92.2617	-880	QAL	2.5	0	7.0	1	1.2	1	0.363	0	2.209	0	6.079	0	1824	39	1.3
44954.8	10000	41.2853	92.2610	-882	QAL	2.5	0	7.1	1	1.2	1	0.352	0	2.128	0	6.040	0	1839	45	1.3
44954.7	10000	41.2853	92.2602	-884	QAL	2.4	0	7.0	1	1.2	1	0.338	0	1.957	-1	5.787	0	1853	45	1.3
44954.6	10000	41.2853	92.2594	-885	QAL	2.3	0	6.8	1	1.2	1	0.334	-1	1.869	-1	5.590	-1	1846	51	1.3
44954.5	10000	41.2853	92.2586	-886	QAL	2.3	0	6.6	1	1.2	1	0.343	0	1.912	-1	5.577	-1	1824	33	1.3
44954.4	10000	41.2853	92.2578	-887	QAL	2.3	0	6.3	1	1.2	1	0.360	0	1.912	-1	5.308	-1	1785	44	1.2
44954.3	10000	41.2853	92.2570	-889	QAL	2.2	0	6.1	1	1.2	1	0.364	0	1.889	-1	5.190	-1	1746	41	1.2
44954.2	10000	41.2853	92.2562	-890	QAL	1.9	-1	6.2	1	1.1	0	0.307	-1	1.731	-1	5.632	-1	1674	40	1.2
44954.1	10000	41.2853	92.2554	-890	QAL	1.9	-1	6.0	1	1.0	0	0.313	-1	1.828	-1	5.836	0	1629	34	1.2
44954.0	10000	41.2853	92.2547	-890	QAL	1.9	-1	5.8	0	1.0	-1	0.325	-1	1.935	-1	5.960	0	1588	34	1.2
44953.9	10000	41.2853	92.2539	-891	QAL	1.9	-1	6.3	0	0.9	-1	0.299	-1	2.035	0	6.798	1	1563	30	1.2
44953.8	10000	41.2853	92.2531	-891	QAL	1.9	-1	6.3	0	0.9	-1	0.304	-1	2.196	0	7.221	1	1531	40	1.2

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44953.7	10000	41.2853	92.2523	-891	QAL	1.8	-1	6.1	0	0.9	-1	0.287	-1	2.041	0	7.099	1	1532	53	1.2
44953.6	10000	41.2853	92.2515	-891	QAL	2.1	-1	6.1	0	0.9	-1	0.339	0	2.286	0	6.735	1	1559	31	1.2
44953.5	10000	41.2853	92.2507	-891	QAL	2.0	-1	6.0	-1	1.0	-1	0.335	-1	2.040	0	6.092	0	1617	43	1.2
44953.4	10000	41.2853	92.2499	-890	QAL	2.1	-1	6.1	0	1.0	0	0.342	0	2.039	0	5.967	0	1649	47	1.2
44953.3	10000	41.2853	92.2491	-889	QAL	2.3	0	6.4	0	1.1	0	0.364	0	2.146	0	5.892	0	1699	41	1.2
44953.2	10000	41.2853	92.2484	-887	QAL	2.7	0	6.0	-1	1.1	0	0.455	1	2.428	0	5.335	-1	1741	48	1.2
44953.1	10000	41.2853	92.2476	-885	QAL	2.8	1	6.3	0	1.1	0	0.438	1	2.449	0	5.585	-1	1797	44	1.2
44953.0	10000	41.2853	92.2468	-883	QAL	3.1	1	6.6	0	1.1	0	0.462	1	2.706	1	5.861	0	1821	44	1.1
44952.9	10000	41.2853	92.2460	-883	QAL	3.0	1	6.9	0	1.1	0	0.432	1	2.682	1	6.212	0	1825	43	1.1
44952.8	10000	41.2853	92.2452	-882	QAL	3.0	1	6.9	0	1.1	0	0.438	1	2.865	1	6.547	1	1791	36	1.1
44952.7	10000	41.2853	92.2444	-880	QAL	2.9	1	6.8	0	1.0	0	0.430	1	2.895	1	6.736	1	1757	47	1.1
44952.6	10000	41.2853	92.2436	-880	QAL	2.6	0	6.5	0	1.0	-1	0.402	0	2.734	1	6.801	1	1700	47	1.1
44952.5	10000	41.2853	92.2428	-880	QAL	2.3	0	6.6	0	1.0	-1	0.344	0	2.364	0	6.866	1	1661	41	1.1
44952.4	10000	41.2853	92.2420	-879	QAL	2.2	0	6.3	0	1.0	-1	0.350	0	2.221	0	6.352	0	1628	50	1.1
44952.3	10000	41.2853	92.2413	-879	QAL	2.1	-1	6.2	0	1.1	0	0.339	0	1.984	-1	5.861	0	1631	40	1.1
44952.2	10000	41.2853	92.2405	-878	QAL	1.9	-1	6.2	0	1.1	0	0.304	-1	1.747	-1	5.738	0	1632	52	1.1
44952.1	10000	41.2853	92.2397	-877	QK	2.0	-1	6.4	-1	1.1	0	0.312	-1	1.838	-1	5.885	-1	1657	46	1.1
44952.0	10000	41.2853	92.2389	-877	QK	2.1	-1	6.5	-1	1.1	0	0.319	0	1.850	-1	5.796	-1	1700	50	1.1
44951.9	10000	41.2853	92.2381	-876	QK	2.2	-1	6.9	0	1.2	0	0.319	0	1.870	-1	5.870	-1	1740	43	1.1
44951.8	10000	41.2853	92.2373	-877	QK	2.4	0	7.2	0	1.2	0	0.330	0	2.029	-1	6.151	0	1783	35	1.1
44951.7	10000	41.2853	92.2365	-877	QK	2.3	0	7.6	1	1.2	1	0.299	-1	1.895	-1	6.339	0	1829	45	1.1
44951.6	10000	41.2855	92.2358	-877	QK	2.3	0	7.8	1	1.2	1	0.295	-1	1.902	-1	6.455	0	1840	40	1.1
44951.5	10000	41.2857	92.2351	-876	QK	2.3	0	7.8	1	1.2	1	0.297	-1	1.916	-1	6.448	0	1855	38	1.1
44951.4	10000	41.2859	92.2344	-876	QK	2.4	0	7.6	0	1.2	1	0.321	0	1.955	-1	6.084	-1	1868	37	1.1
44951.3	10000	41.2861	92.2336	-875	QK	2.2	-1	7.8	1	1.3	1	0.281	-1	1.751	-1	6.229	0	1876	51	1.1
44951.2	10000	41.2863	92.2329	-875	QK	2.0	-1	8.2	1	1.2	1	0.243	-1	1.604	-1	6.601	0	1875	53	1.1
44951.1	10000	41.2865	92.2322	-875	QK	1.9	-1	7.9	1	1.3	1	0.245	-1	1.548	-2	6.312	0	1867	41	1.1
44951.0	10000	41.2868	92.2315	-876	QK	1.8	-1	7.3	0	1.2	1	0.251	-1	1.521	-2	6.059	-1	1835	51	1.1
44950.9	10000	41.2870	92.2308	-875	QK	1.8	-1	7.8	1	1.2	1	0.233	-2	1.536	-2	6.594	0	1830	43	1.1
44950.8	10000	41.2872	92.2300	-873	QK	2.0	-1	7.8	1	1.2	1	0.255	-1	1.685	-1	6.605	0	1831	34	1.1
44950.7	10000	41.2874	92.2293	-869	QK	1.9	-1	7.9	1	1.2	1	0.237	-2	1.603	-1	6.756	0	1833	37	1.0
44950.6	10000	41.2876	92.2286	-868	QK	2.2	-1	7.6	0	1.2	1	0.287	-1	1.869	-1	6.512	0	1820	48	1.0
44950.5	10000	41.2878	92.2279	-872	QK	2.4	0	7.4	0	1.2	1	0.320	-1	1.989	-1	6.213	0	1833	37	1.0
44950.4	10000	41.2880	92.2272	-872	QK	2.3	0	7.6	0	1.2	1	0.302	-1	1.875	-1	6.210	0	1832	48	1.0
44950.3	10000	41.2882	92.2264	-870	QK	2.6	0	7.8	0	1.2	1	0.331	0	2.091	0	6.315	0	1838	37	1.0
44950.2	10000	41.2884	92.2257	-868	QK	2.8	1	7.5	0	1.3	1	0.370	0	2.253	0	6.092	-1	1848	35	1.0
44950.1	10000	41.2887	92.2250	-864	QK	2.6	0	7.5	0	1.3	1	0.341	-1	2.021	-1	5.927	-1	1839	35	1.0
44950.0	10000	41.2889	92.2243	-860	QK	2.5	0	7.4	0	1.3	1	0.334	-1	1.945	-1	5.816	-1	1822	37	1.0
44949.9	10000	41.2891	92.2236	-855	QK	2.5	0	7.6	0	1.3	2	0.323	-1	1.879	-1	5.827	-1	1818	36	1.0
44949.8	10000	41.2893	92.2228	-849	QK	2.7	0	7.3	0	1.3	1	0.364	0	2.106	0	5.784	-1	1808	33	1.0
44949.7	10000	41.2895	92.2221	-843	QK	2.7	0	7.4	0	1.3	1	0.368	0	2.203	0	5.984	-1	1811	50	1.0
44949.6	10000	41.2897	92.2214	-837	QK	2.5	0	7.2	0	1.3	0	0.343	0	2.032	0	5.921	-1	1791	44	1.0
44949.5	10000	41.2899	92.2207	-829	QK	2.4	0	7.0	0	1.3	1	0.337	-1	1.867	-1	5.532	-1	1786	40	1.0
44949.4	10000	41.2901	92.2200	-820	QK	2.4	0	7.0	0	1.3	1	0.342	-1	1.944	-1	5.678	-1	1765	41	1.0
44949.3	10000	41.2904	92.2192	-812	QK	2.4	0	7.3	0	1.2	1	0.325	-1	2.014	-1	6.190	0	1773	44	1.0
44949.2	10000	41.2906	92.2185	-803	QK	2.2	-1	6.9	0	1.2	1	0.325	-1	1.938	-1	5.963	-1	1767	45	1.0
44949.1	10000	41.2908	92.2178	-793	QK	2.2	-1	7.0	-1	1.2	1	0.319	-1	1.908	-1	5.975	-1	1755	30	1.0
44949.0	10000	41.2910	92.2171	-783	QK	2.2	-1	6.7	-1	1.2	1	0.323	-1	1.829	-1	5.671	-1	1752	47	1.0
44948.9	10000	41.2912	92.2164	-772	QK	2.3	0	6.9	0	1.3	1	0.331	-1	1.797	-1	5.428	-2	1774	40	1.0
44948.8	10000	41.2914	92.2156	-761	QK	2.2	-1	6.9	0	1.3	1	0.312	-1	1.689	-1	5.415	-2	1761	41	1.0
44948.7	10000	41.2916	92.2149	-750	QK	2.2	-1	7.1	0	1.3	1	0.316	-1	1.742	-1	5.516	-1	1776	43	1.0
44948.6	10000	41.2918	92.2142	-739	QK	2.1	-1	7.0	0	1.3	2	0.304	-1	1.615	-1	5.316	-2	1775	48	1.0

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44948.5	10000	41.2921	92.2135	-728	QK	2.2	-1	7.0	0	1.3	2	0.318	0	1.693	-1	5.322	-2	1755	37	1.0
44948.4	10000	41.2923	92.2128	-716	QK	2.2	-1	6.8	-1	1.3	1	0.315	0	1.672	-1	5.307	-2	1741	37	1.0
44948.3	10000	41.2925	92.2120	-705	QK	2.1	-1	6.8	-1	1.2	1	0.305	-1	1.660	-1	5.445	-1	1706	47	1.0
44948.2	10000	41.2927	92.2113	-694	QK	2.2	-1	6.3	-1	1.2	0	0.357	0	1.939	-1	5.432	-1	1679	48	1.0
44948.1	10000	41.2929	92.2106	-682	QK	2.3	-1	6.4	-1	1.1	0	0.358	0	2.033	0	5.683	-1	1676	50	1.0
44948.0	10000	41.2931	92.2099	-671	QK	2.4	0	6.2	-1	1.1	-1	0.383	0	2.240	0	5.845	-1	1665	45	1.0
44947.9	10000	41.2933	92.2092	-659	QK	2.5	0	6.2	-1	1.1	0	0.411	1	2.367	0	5.757	-1	1667	38	1.0
44947.8	10000	41.2935	92.2085	-648	QK	2.5	0	6.2	-1	1.1	0	0.410	1	2.386	0	5.815	-1	1691	38	1.0
44947.7	10000	41.2935	92.2077	-637	QK	2.5	0	6.1	-1	1.1	0	0.408	1	2.284	0	5.604	-1	1693	41	1.0
44947.6	10000	41.2934	92.2069	-628	QK	2.8	1	6.3	-1	1.1	0	0.440	1	2.599	1	5.907	-1	1707	41	1.0
44947.5	10000	41.2934	92.2061	-620	QK	2.5	0	6.6	-1	1.1	0	0.375	0	2.301	0	6.135	0	1716	47	1.0
44947.4	10000	41.2934	92.2054	-611	QK	2.4	0	6.7	-1	1.0	-1	0.352	0	2.306	0	6.550	0	1697	43	1.0
44947.3	10000	41.2933	92.2046	-602	QK	2.1	-1	6.8	-1	1.1	0	0.309	-1	1.968	-1	6.366	0	1689	45	1.0
44947.2	10000	41.2933	92.2038	-593	QK	2.0	-1	6.8	-1	1.1	-1	0.295	-1	1.905	-1	6.458	0	1663	35	1.0
44947.1	10000	41.2933	92.2031	-585	QK	2.0	-1	7.1	0	1.0	-1	0.279	-1	1.956	-1	7.013	1	1650	36	1.0
44947.0	10000	41.2932	92.2023	-577	QK	2.0	-1	7.6	1	1.0	-1	0.260	-1	2.047	0	7.873	2	1653	45	1.0
44946.9	10000	41.2932	92.2015	-569	QK	1.8	-1	7.4	0	1.0	-1	0.248	-1	1.768	-1	7.128	1	1675	40	1.0
44946.8	10000	41.2931	92.2008	-561	QK	1.9	-1	7.4	0	1.0	-1	0.253	-1	1.815	-1	7.182	1	1701	34	1.0
44946.7	10000	41.2931	92.2000	-553	QK	2.2	-1	7.6	0	1.1	0	0.284	-1	1.984	-1	6.980	1	1738	36	1.0
44946.6	10000	41.2931	92.1992	-545	QK	2.2	-1	7.5	0	1.1	0	0.297	-1	2.050	0	6.899	1	1758	50	1.0
44946.5	10000	41.2930	92.1984	-537	QK	2.3	0	7.2	0	1.1	0	0.324	0	2.149	0	6.632	0	1778	45	1.0
44946.4	10000	41.2930	92.1977	-530	QK	2.4	0	7.5	0	1.1	0	0.322	0	2.154	0	6.700	0	1786	40	1.0
44946.3	10000	41.2929	92.1969	-523	QK	2.6	0	7.4	0	1.2	0	0.353	0	2.266	0	6.416	0	1808	37	1.0
44946.2	10000	41.2929	92.1961	-515	QK	2.7	0	7.5	0	1.1	0	0.363	0	2.445	0	6.739	0	1820	39	1.0
44946.1	10000	41.2928	92.1954	-508	QK	3.0	1	7.7	1	1.1	0	0.393	1	2.663	1	6.778	0	1842	43	1.0
44946.0	10000	41.2928	92.1946	-501	QK	3.0	1	7.7	1	1.1	0	0.392	1	2.690	1	6.864	1	1852	35	1.0
44945.9	10000	41.2928	92.1938	-494	QK	3.2	1	7.9	1	1.1	0	0.398	1	2.795	1	7.024	1	1865	47	1.0
44945.8	10000	41.2927	92.1931	-487	QK	3.1	1	8.2	1	1.1	0	0.377	1	2.805	1	7.442	1	1889	42	1.0
44945.7	10000	41.2927	92.1923	-481	QK	2.9	1	8.3	1	1.1	0	0.356	1	2.627	1	7.373	1	1899	39	1.0
44945.6	10000	41.2926	92.1915	-475	QK	2.8	1	8.6	1	1.1	0	0.324	1	2.488	1	7.681	2	1904	46	1.0
44945.5	10000	41.2926	92.1908	-469	QK	2.7	1	8.9	1	1.1	0	0.302	1	2.361	1	7.816	2	1902	36	1.0
44945.4	10000	41.2925	92.1900	-464	QK	2.6	1	8.6	1	1.2	0	0.306	1	2.190	1	7.168	1	1892	41	0.9
44945.3	10000	41.2925	92.1892	-459	QK	2.6	1	8.4	1	1.3	0	0.308	1	2.061	1	6.697	0	1882	41	0.9
44945.2	10000	41.2925	92.1884	-453	QK	2.7	1	8.1	1	1.2	0	0.339	1	2.226	1	6.557	0	1866	42	0.9
44945.1	10000	41.2924	92.1877	-448	QK	2.7	1	7.8	1	1.3	0	0.346	1	2.060	1	5.959	-1	1845	39	0.9
44945.0	10000	41.2924	92.1869	-443	QK	2.7	1	7.4	1	1.3	0	0.366	1	2.116	1	5.783	-1	1837	44	0.9
44944.9	10000	41.2924	92.1861	-438	QK	2.8	1	7.0	1	1.3	0	0.398	1	2.142	1	5.388	-2	1820	48	0.9
44944.8	10000	41.2923	92.1854	-434	QK	2.8	1	7.0	1	1.3	0	0.408	1	2.173	1	5.330	-2	1800	46	0.9
44944.7	10000	41.2923	92.1846	-430	QK	2.7	1	7.3	1	1.2	0	0.373	1	2.222	1	5.965	-1	1788	44	0.9
44944.6	10000	41.2922	92.1838	-426	QK	2.6	1	7.0	1	1.2	0	0.375	1	2.246	1	5.992	-1	1775	45	0.9
44944.5	10000	41.2922	92.1831	-422	QK	2.7	1	7.1	1	1.2	0	0.381	1	2.291	1	6.018	-1	1781	39	0.9
44944.4	10000	41.2921	92.1823	-419	QK	2.8	1	7.2	1	1.1	0	0.383	1	2.525	1	6.594	0	1777	57	0.9
44944.3	10000	41.2921	92.1815	-416	QK	2.8	1	7.4	1	1.1	0	0.374	1	2.491	1	6.664	0	1780	43	0.9
44944.2	10000	41.2921	92.1808	-413	QK	2.6	1	7.0	1	1.1	0	0.367	1	2.399	1	6.534	0	1771	56	0.9
44944.1	10000	41.2920	92.1800	-411	QK	2.4	1	6.8	0	1.1	0	0.355	1	2.215	1	6.236	0	1783	52	0.9
44944.0	10000	41.2920	92.1792	-409	QK	2.5	1	7.0	1	1.1	0	0.371	1	2.237	1	6.034	-1	1779	38	0.9
44943.9	10000	41.2919	92.1785	-408	QK	2.5	1	7.4	1	1.1	0	0.354	1	2.166	1	6.116	-1	1782	41	0.9
44943.8	10000	41.2919	92.1777	-407	QK	2.5	1	7.6	1	1.2	0	0.329	1	1.923	1	6.514	0	1776	41	0.9
44943.7	10000	41.2919	92.1769	-406	QK	2.0	-1	7.5	1	1.2	0	0.262	-1	1.722	-1	6.580	0	1785	37	0.9
44943.6	10000	41.2918	92.1761	-406	QK	2.1	-1	8.0	1	1.2	0	0.271	-1	1.730	-1	6.389	0	1785	43	0.9
44943.5	10000	41.2918	92.1754	-407	QK	2.1	-1	8.1	1	1.2	0	0.265	-1	1.772	-1	6.690	0	1804	34	0.9
44943.4	10000	41.2917	92.1746	-408	QK	2.1	-1	8.1	1	1.1	0	0.261	-1	1.856	-1	7.122	1	1801	39	0.9

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44943.3	10000	41.2917	92.1738	-409	QK	2.1	-1	8.1	1	1.1	0	0.255	-1	1.798	-1	7.054	1	1811	50	0.9
44943.2	10000	41.2917	92.1731	-411	QK	2.0	-1	8.3	2	1.2	0	0.243	-1	1.759	-1	7.232	1	1829	41	0.9
44943.1	10000	41.2916	92.1723	-412	QK	2.0	-1	8.2	1	1.2	0	0.248	-1	1.744	-1	7.033	1	1828	38	0.9
44943.0	10000	41.2916	92.1715	-414	QK	2.2	-1	7.9	1	1.2	0	0.284	-1	1.918	-1	6.741	0	1816	38	0.9
44942.9	10000	41.2915	92.1708	-416	QK	2.3	0	7.5	0	1.1	0	0.304	-1	2.035	0	6.692	0	1797	50	0.9
44942.8	10000	41.2915	92.1700	-417	QK	2.4	0	6.9	0	1.1	0	0.346	0	2.220	0	6.423	0	1774	40	0.9
44942.7	10000	41.2915	92.1692	-420	QK	2.5	0	6.7	-1	1.1	0	0.381	0	2.373	0	6.229	0	1768	35	0.9
44942.6	10000	41.2914	92.1685	-422	QK	2.7	0	6.5	-1	1.0	-1	0.412	1	2.614	1	6.342	0	1750	37	0.9
44942.5	10000	41.2914	92.1677	-426	QK	2.8	1	6.5	-1	1.0	-1	0.431	1	2.658	1	6.162	0	1746	43	0.9
44942.4	10000	41.2913	92.1669	-429	QK	2.7	0	6.7	-1	1.1	-1	0.401	1	2.534	1	6.312	0	1754	39	0.9
44942.3	10000	41.2913	92.1662	-431	QK	2.6	0	6.6	-1	1.1	0	0.402	1	2.459	0	6.112	-1	1753	42	0.9
44942.2	10000	41.2912	92.1654	-435	QK	2.6	0	6.8	-1	1.1	-1	0.379	0	2.465	0	6.497	0	1743	40	0.9
44942.1	10000	41.2912	92.1646	-437	QK	2.5	0	7.1	0	1.1	-1	0.349	0	2.357	0	6.758	0	1745	45	0.9
44942.0	10000	41.2912	92.1638	-440	QK	2.5	0	7.2	0	1.1	0	0.351	0	2.365	0	6.741	0	1736	43	0.9
44941.9	10000	41.2911	92.1631	-443	QK	2.3	0	7.3	0	1.1	0	0.322	0	2.097	0	6.510	0	1724	53	0.9
44941.8	10000	41.2911	92.1623	-445	QK	2.4	0	7.0	0	1.1	-1	0.349	0	2.314	0	6.638	0	1687	44	0.9
44941.7	10000	41.2911	92.1615	-448	QK	2.6	0	6.7	-1	1.0	-1	0.389	1	2.603	1	6.688	0	1662	41	0.9
44941.6	10000	41.2911	92.1607	-451	QK	2.9	1	6.6	-1	1.0	-1	0.431	1	2.920	1	6.778	0	1648	41	0.9
44941.5	10000	41.2911	92.1598	-453	QK	3.0	1	6.6	-1	1.0	-1	0.451	1	2.991	2	6.626	0	1664	38	0.9
44941.4	10000	41.2911	92.1590	-455	QK	3.0	1	6.5	-1	1.0	-1	0.464	2	2.985	2	6.429	0	1675	41	0.9
44941.3	10000	41.2911	92.1582	-457	QK	3.1	1	6.5	-1	1.0	-1	0.472	2	3.156	2	6.688	0	1663	40	0.9
44941.2	10000	41.2911	92.1573	-459	QK	3.2	1	6.3	-1	1.0	-1	0.516	2	3.389	2	6.565	0	1671	39	0.9
44941.1	10000	41.2911	92.1565	-460	QK	3.1	1	6.4	-1	1.0	-1	0.486	2	3.203	2	6.590	0	1677	46	0.9
44941.0	10000	41.2911	92.1557	-463	QK	2.9	1	6.2	-1	1.0	-1	0.462	2	2.890	1	6.257	0	1683	44	0.9
44940.9	10000	41.2911	92.1548	-464	QK	2.8	1	6.4	-1	0.9	-1	0.440	1	2.974	1	6.754	0	1678	47	0.9
44940.8	10000	41.2911	92.1540	-466	QK	2.6	0	6.1	-1	0.9	-2	0.424	1	2.874	1	6.778	0	1657	45	0.9
44940.7	10000	41.2911	92.1532	-469	QK	2.6	0	5.8	-2	0.9	-2	0.442	1	2.874	1	6.502	0	1635	38	0.9
44940.6	10000	41.2912	92.1523	-471	QK	2.6	0	5.6	-2	0.9	-2	0.452	1	2.755	1	6.088	-1	1636	40	0.9
44940.5	10000	41.2912	92.1515	-474	QK	2.4	0	6.4	-1	0.9	-2	0.366	1	2.625	1	7.171	1	1621	33	0.9
44940.4	10000	41.2912	92.1507	-477	QK	2.4	0	6.0	-2	0.9	-2	0.403	1	2.810	1	6.976	1	1623	40	0.9
44940.3	10000	41.2912	92.1499	-480	QK	2.5	0	6.1	-2	0.9	-2	0.416	1	2.884	1	6.924	1	1612	49	0.9
44940.2	10000	41.2912	92.1490	-483	QK	2.2	-1	5.6	-2	0.9	-1	0.399	1	2.356	0	5.907	-1	1603	44	0.9
44940.1	10000	41.2912	92.1482	-486	QK	2.3	-1	5.9	-2	1.0	-1	0.396	1	2.375	0	6.004	-1	1605	42	0.9
44940.0	10000	41.2912	92.1474	-490	QK	2.2	-1	6.2	-1	1.0	-1	0.350	0	2.115	0	6.043	-1	1596	44	0.9
44939.9	10000	41.2912	92.1465	-494	QK	2.0	-1	6.3	-1	1.0	-1	0.309	-1	1.888	-1	6.102	-1	1582	42	0.9
44939.8	10000	41.2912	92.1457	-498	QK	1.9	-1	5.6	-2	1.0	-1	0.339	-1	1.813	-1	5.354	-2	1545	43	0.9
44939.7	10000	41.2912	92.1449	-502	QK	1.9	-1	5.7	-2	1.0	-1	0.339	-1	1.842	-1	5.437	-1	1523	52	0.9
44939.6	10000	41.2912	92.1440	-507	QK	1.8	-2	5.6	-2	1.1	0	0.319	-1	1.669	-1	5.232	-2	1497	49	0.9
44939.5	10000	41.2912	92.1432	-512	QK	2.0	-1	5.7	-2	1.0	-1	0.347	-1	1.913	-1	5.518	-1	1480	33	0.9
44939.4	10000	41.2912	92.1424	-518	QK	1.9	-1	5.4	-3	1.0	-1	0.360	-1	1.879	-1	5.223	-2	1447	47	0.9
44939.3	10000	41.2912	92.1416	-524	QK	2.0	-1	5.0	-3	1.0	-1	0.406	0	2.048	0	5.042	-2	1422	43	0.9
44939.2	10000	41.2912	92.1407	-530	QAL	2.0	-1	4.9	-2	1.0	-1	0.410	0	2.064	0	5.035	-1	1401	45	0.9
44939.1	10000	41.2912	92.1399	-536	QAL	2.2	-1	4.9	-2	0.9	-1	0.446	1	2.347	1	5.263	-1	1405	54	0.9
44939.0	10000	41.2912	92.1391	-544	QAL	2.2	-1	4.9	-2	0.9	-1	0.446	1	2.459	1	5.517	-1	1399	30	0.9
44938.9	10000	41.2913	92.1382	-551	QAL	2.4	-1	4.7	-2	0.9	-1	0.518	2	2.827	1	5.453	-1	1416	35	0.9
44938.8	10000	41.2913	92.1374	-559	QAL	2.4	-1	5.2	-1	0.9	-1	0.452	1	2.700	1	5.968	0	1438	44	0.9
44938.7	10000	41.2913	92.1366	-567	QAL	2.4	-1	5.1	-1	0.9	-1	0.469	1	2.779	1	5.922	0	1482	37	0.9
44938.6	10000	41.2913	92.1357	-575	QAL	2.6	-1	5.6	-1	0.9	-1	0.433	1	2.737	1	6.317	0	1526	42	0.9
44938.5	10000	41.2913	92.1349	-583	QAL	2.8	-1	5.9	-1	0.9	-1	0.495	1	3.217	2	6.497	0	1553	38	0.9
44938.4	10000	41.2913	92.1341	-591	QAL	2.9	-1	5.9	-1	1.0	-1	0.508	1	3.315	2	6.520	0	1589	46	0.9
44938.3	10000	41.2913	92.1333	-600	QAL	2.8	-1	5.9	-1	0.9	-1	0.468	1	2.872	1	6.142	0	1597	39	0.9
44938.2	10000	41.2913	92.1324	-609	QAL	2.8	1	6.2	0	0.9	-1	0.443	1	2.905	1	6.555	0	1588	48	0.9

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44938.1	10000	41.2913	92.1316	-617	QAL	2.8	1	6.2	0	0.9	-1	0.456	1	2.975	1	6.530	1	1575	42	0.9
44938.0	10000	41.2913	92.1308	-626	QAL	2.5	0	6.0	-1	1.0	-1	0.422	0	2.562	0	6.071	0	1553	41	0.9
44937.9	10000	41.2913	92.1299	-635	QAL	2.6	0	6.1	0	1.0	-1	0.422	0	2.685	1	6.361	0	1530	39	0.9
44937.8	10000	41.2913	92.1291	-644	QAL	2.0	-1	5.9	-1	0.9	-1	0.343	0	2.123	0	6.192	0	1505	24	0.9
44937.7	10000	41.2913	92.1283	-653	QAL	1.6	-2	5.9	-1	1.0	-1	0.270	-1	1.661	-1	6.157	0	1484	41	0.9
44937.6	10000	41.2913	92.1274	-662	QAL	1.6	-2	6.0	-1	1.0	-1	0.264	-1	1.660	-1	6.298	0	1481	29	0.9
44937.5	10000	41.2913	92.1266	-671	QAL	1.4	-2	6.4	0	1.0	-1	0.221	-2	1.481	-2	6.704	1	1484	45	0.9
44937.4	10000	41.2914	92.1258	-681	QAL	1.2	-2	6.4	0	1.0	-1	0.191	-2	1.264	-2	6.604	1	1497	45	0.9
44937.3	10000	41.2914	92.1249	-690	QAL	1.3	-2	6.8	0	0.9	-1	0.189	-2	1.454	-2	7.682	2	1513	43	0.9
44937.2	10000	41.2914	92.1241	-699	QAL	1.3	-2	6.6	0	0.9	-1	0.190	-2	1.385	-2	7.273	1	1519	37	0.9
44937.1	10000	41.2914	92.1233	-708	QAL	1.4	-2	6.9	0	0.9	-1	0.208	-2	1.526	-1	7.336	2	1559	53	0.9
44937.0	10000	41.2914	92.1225	-717	QAL	1.6	-1	7.1	1	1.0	-1	0.231	-2	1.716	-1	7.432	2	1578	54	0.9
44936.9	10000	41.2914	92.1216	-726	QAL	1.7	-1	7.3	1	0.9	-1	0.227	-2	1.754	-1	7.734	2	1608	41	0.9
44936.8	10000	41.2914	92.1208	-735	QAL	1.7	-1	7.3	1	1.0	-1	0.232	-2	1.720	-1	7.403	2	1631	45	0.9
44936.7	10000	41.2914	92.1200	-743	QAL	2.0	-1	7.4	1	1.0	0	0.265	-1	1.937	-1	7.309	2	1660	33	0.9
44936.6	10000	41.2914	92.1191	-752	QAL	2.0	-1	7.9	1	1.1	0	0.252	-1	1.840	-1	7.308	2	1682	43	0.9
44936.5	10000	41.2914	92.1183	-760	QAL	2.1	-1	8.2	2	1.1	0	0.252	-1	1.964	-1	7.782	2	1714	48	0.9
44936.4	10000	41.2914	92.1175	-769	QAL	2.1	-1	8.6	2	1.1	0	0.249	-2	2.014	-1	8.104	3	1723	54	0.9
44936.3	10000	41.2914	92.1166	-777	QAL	1.9	-1	8.4	2	1.0	0	0.222	-2	1.811	-1	8.145	3	1733	50	0.9
44936.2	10000	41.2914	92.1158	-785	QAL	1.8	-1	8.2	2	1.1	0	0.215	-2	1.664	-1	7.747	2	1738	50	0.9
44936.1	10000	41.2914	92.1150	-794	QAL	1.9	-1	8.3	2	1.1	0	0.230	-2	1.732	-1	7.523	2	1757	51	0.9
44936.0	10000	41.2914	92.1142	-802	QAL	1.8	-1	8.5	2	1.1	0	0.214	-2	1.605	-1	7.500	2	1749	47	0.9
44935.9	10000	41.2914	92.1133	-810	QAL	2.0	-1	7.9	1	1.1	0	0.251	-1	1.814	-1	7.214	1	1730	46	0.9
44935.8	10000	41.2914	92.1125	-817	QAL	1.9	-1	8.1	1	1.2	1	0.235	-2	1.631	-1	6.937	1	1713	45	0.9
44935.7	10000	41.2914	92.1117	-824	QAL	1.9	-1	7.5	1	1.1	1	0.260	-1	1.742	-1	6.706	1	1706	59	0.9
44935.6	10000	41.2914	92.1108	-832	QAL	2.1	-1	7.3	1	1.1	1	0.283	-1	1.823	-1	6.449	0	1695	48	0.9
44935.5	10000	41.2915	92.1100	-839	QAL	2.5	0	7.4	1	1.1	1	0.331	-1	2.147	0	6.482	0	1688	46	0.9
44935.4	10000	41.2915	92.1092	-846	QAL	2.3	0	7.0	0	1.1	1	0.331	-1	2.125	0	6.425	0	1664	23	0.9
44935.3	10000	41.2915	92.1083	-852	QAL	2.4	0	6.5	0	1.1	1	0.366	0	2.244	0	6.139	0	1661	45	0.9
44935.2	10000	41.2915	92.1075	-858	QAL	2.2	0	6.7	0	1.1	1	0.335	-1	2.050	0	6.127	0	1680	49	0.9
44935.1	10000	41.2915	92.1067	-863	QAL	2.3	0	6.6	0	1.1	1	0.347	0	2.076	0	5.989	0	1680	34	0.9
44935.0	10000	41.2915	92.1059	-866	QAL	2.3	0	6.8	0	1.1	1	0.341	-1	2.026	0	5.934	0	1679	46	0.9
44934.9	10000	41.2915	92.1050	-871	QAL	2.4	0	7.0	1	1.2	1	0.346	0	2.056	0	5.945	0	1691	49	0.8
44934.8	10000	41.2915	92.1042	-878	QAL	2.4	0	6.9	1	1.2	1	0.352	0	2.070	0	5.882	0	1702	38	0.8
44934.7	10000	41.2915	92.1033	-884	QAL	2.3	0	7.1	1	1.2	1	0.327	-1	1.925	-1	5.879	0	1704	52	0.8
44934.6	10000	41.2915	92.1025	-890	QAL	2.3	0	7.0	1	1.2	1	0.320	-1	1.897	-1	5.930	0	1709	50	0.8
44934.5	10000	41.2915	92.1017	-895	QAL	2.4	0	6.8	1	1.2	1	0.347	0	2.042	0	5.888	0	1707	45	0.8
44934.4	10000	41.2915	92.1009	-899	QAL	2.5	0	7.0	1	1.1	1	0.362	0	2.231	0	6.160	0	1724	37	0.8
44934.3	10000	41.2915	92.1000	-904	QAL	2.2	0	6.9	1	1.1	1	0.324	-1	2.044	0	6.307	0	1719	39	0.8
44934.2	10000	41.2915	92.0992	-908	QAL	2.1	-1	7.1	1	1.1	1	0.294	-1	1.866	-1	6.349	0	1717	33	0.8
44934.1	10000	41.2915	92.0984	-913	QAL	1.9	-1	7.5	1	1.1	1	0.252	-1	1.687	-1	6.685	1	1706	54	0.8
44934.0	10000	41.2915	92.0975	-918	QAL	2.0	-1	7.4	1	1.1	1	0.266	-1	1.756	-1	6.591	1	1711	43	0.8
44933.9	10000	41.2915	92.0967	-922	QAL	1.9	-1	7.6	1	1.1	1	0.256	-1	1.703	-1	6.662	1	1697	34	0.8
44933.8	10000	41.2916	92.0959	-927	QAL	1.8	-1	7.8	1	1.1	1	0.231	-2	1.582	-1	6.853	1	1690	43	0.8
44933.7	10000	41.2916	92.0950	-932	QAL	1.5	-2	7.7	1	1.1	1	0.193	-2	1.331	-2	6.905	1	1676	31	0.8
44933.6	10000	41.2916	92.0942	-936	QAL	1.6	-2	8.1	2	1.1	1	0.199	-2	1.419	-2	7.142	1	1692	46	0.8
44933.5	10000	41.2916	92.0934	-941	QAL	1.8	-1	7.9	1	1.1	1	0.229	-2	1.633	-1	7.121	1	1687	41	0.8
44933.4	10000	41.2916	92.0926	-946	QAL	1.9	-1	7.8	1	1.1	1	0.245	-2	1.766	-1	7.219	1	1693	43	0.8
44933.3	10000	41.2916	92.0917	-950	QAL	2.1	-1	7.9	1	1.1	1	0.267	-1	1.976	-1	7.397	2	1700	39	0.8
44933.2	10000	41.2916	92.0909	-955	QAL	2.3	0	7.7	1	1.1	1	0.303	-1	2.129	0	7.027	1	1700	48	0.8
44933.1	10000	41.2916	92.0901	-960	QAL	2.5	0	7.7	1	1.1	1	0.326	-1	2.360	0	7.233	1	1699	41	0.8
44933.0	10000	41.2916	92.0892	-965	QAL	2.8	1	7.4	1	1.1	0	0.370	0	2.608	1	7.040	1	1703	38	0.7

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44932.9	10000	41.2916	92.0884	-970	QAL	2.8	1	6.7	0	1.1	0	0.409	0	2.500	0	6.114	0	1697	40	0.7
44932.8	10000	41.2916	92.0876	-976	QAL	2.6	0	6.8	0	1.1	0	0.391	0	2.460	0	6.294	0	1682	43	0.7
44932.7	10000	41.2916	92.0867	-981	QAL	2.4	0	6.4	0	1.1	0	0.372	0	2.255	0	6.056	0	1656	41	0.7
44932.6	10000	41.2916	92.0859	-987	QAL	2.3	0	6.3	0	1.0	0	0.355	0	2.151	0	6.056	0	1634	38	0.7
44932.5	10000	41.2916	92.0851	-992	QAL	2.1	-1	6.6	0	1.0	0	0.324	-1	2.093	0	6.461	0	1641	38	0.7
44932.4	10000	41.2916	92.0843	-998	QAL	2.0	-1	6.3	0	1.1	0	0.313	-1	1.861	-1	5.949	0	1643	39	0.7
44932.3	10000	41.2916	92.0834	-1004	QAL	1.9	-1	6.6	0	1.1	0	0.284	-1	1.713	-1	6.027	0	1633	37	0.7
44932.2	10000	41.2916	92.0826	-1010	QAL	2.2	0	7.1	1	1.0	0	0.315	-1	2.157	0	6.844	1	1633	41	0.7
44932.1	10000	41.2916	92.0818	-1016	QAL	2.5	0	7.0	1	1.1	0	0.360	0	2.372	0	6.581	1	1653	43	0.7
44932.0	10000	41.2917	92.0809	-1022	QK	2.6	0	7.8	1	1.0	-1	0.326	0	2.446	0	7.514	1	1675	49	0.7
44931.9	10000	41.2917	92.0801	-1028	QK	2.5	0	8.3	1	1.0	-1	0.297	-1	2.341	0	7.889	2	1688	31	0.7
44931.8	10000	41.2917	92.0793	-1033	QK	2.1	-1	8.5	2	1.1	0	0.252	-1	2.012	-1	7.974	2	1694	36	0.7
44931.7	10000	41.2917	92.0784	-1038	QK	2.1	-1	8.7	2	1.1	-1	0.237	-2	1.957	-1	8.250	3	1698	37	0.7
44931.6	10000	41.2917	92.0776	-1043	QK	2.1	-1	8.7	2	1.0	-1	0.239	-2	1.986	-1	8.307	3	1726	49	0.7
44931.5	10000	41.2917	92.0768	-1048	QK	1.7	-2	8.8	2	1.1	-1	0.192	-2	1.593	-1	8.288	3	1724	36	0.7
44931.4	10000	41.2917	92.0759	-1052	QK	1.6	-2	9.2	3	1.1	0	0.172	-2	1.414	-2	8.243	3	1746	50	0.7
44931.3	10000	41.2917	92.0751	-1057	QK	1.4	-2	8.5	2	1.1	0	0.164	-3	1.245	-2	7.590	2	1753	38	0.7
44931.2	10000	41.2917	92.0743	-1060	QK	1.5	-2	8.3	2	1.1	0	0.176	-2	1.325	-2	7.520	1	1757	37	0.7
44931.1	10000	41.2917	92.0735	-1064	QK	1.9	-1	8.5	2	1.1	0	0.223	-2	1.743	-1	7.826	2	1761	42	0.7
44931.0	10000	41.2917	92.0726	-1068	QK	2.2	-1	8.6	2	1.1	0	0.256	-1	1.971	-1	7.687	2	1770	36	0.6
44930.9	10000	41.2917	92.0718	-1070	QK	2.1	-1	8.2	1	1.2	0	0.257	-1	1.821	-1	7.082	1	1770	50	0.6
44930.8	10000	41.2917	92.0710	-1073	QK	2.2	-1	8.0	1	1.2	1	0.272	-1	1.847	-1	6.779	0	1791	36	0.6
44930.7	10000	41.2917	92.0701	-1075	QK	2.2	-1	7.7	1	1.1	0	0.286	-1	1.982	-1	6.921	1	1778	43	0.6
44930.6	10000	41.2917	92.0693	-1077	QK	2.4	0	7.7	1	1.1	0	0.314	-1	2.165	0	6.906	1	1769	43	0.6
44930.5	10000	41.2917	92.0685	-1079	QK	2.2	-1	7.7	1	1.2	1	0.291	-1	1.871	-1	6.431	0	1771	44	0.6
44930.4	10000	41.2917	92.0676	-1081	QK	2.0	-1	7.6	0	1.2	1	0.261	-1	1.602	-1	6.138	0	1766	35	0.6
44930.3	10000	41.2917	92.0668	-1082	QK	1.9	-1	7.4	0	1.2	1	0.259	-1	1.564	-1	6.050	-1	1754	51	0.6
44930.2	10000	41.2917	92.0660	-1083	QK	1.9	-1	7.6	1	1.1	1	0.255	-1	1.707	-1	6.696	0	1748	36	0.6
44930.1	10000	41.2918	92.0652	-1084	QK	2.0	-1	7.8	1	1.2	1	0.255	-1	1.727	-1	6.772	0	1739	38	0.6
44930.0	10000	41.2918	92.0643	-1085	QK	1.8	-2	7.9	1	1.2	1	0.225	-2	1.515	-2	6.749	0	1720	41	0.6
44929.9	10000	41.2918	92.0635	-1085	QK	1.9	-1	7.6	1	1.2	1	0.253	-1	1.652	-1	6.525	0	1710	52	0.6
44929.8	10000	41.2918	92.0627	-1084	QK	2.1	-1	7.5	1	1.1	1	0.274	-1	1.888	-1	6.885	1	1707	50	0.6
44929.7	10000	41.2918	92.0618	-1082	QK	2.0	-1	7.7	1	1.1	1	0.261	-1	1.806	-1	6.917	1	1713	38	0.6
44929.6	10000	41.2918	92.0610	-1085	QK	2.0	-1	7.4	1	1.1	1	0.268	-1	1.823	-1	6.806	1	1719	38	0.6
44929.5	10000	41.2918	92.0602	-1087	QK	2.1	-1	7.1	0	1.1	1	0.294	-1	1.873	-1	6.372	1	1707	34	0.6
44929.4	10000	41.2918	92.0593	-1088	QK	2.0	-1	6.9	0	1.1	1	0.286	-1	1.771	-1	6.198	0	1691	46	0.6
44929.3	10000	41.2918	92.0585	-1088	QK	2.2	-1	6.9	0	1.1	1	0.317	0	1.956	-1	6.163	0	1700	51	0.6
44929.2	10000	41.2918	92.0577	-1089	QK	2.1	-1	7.3	1	1.1	1	0.290	-1	1.900	-1	6.560	0	1713	45	0.6
44929.1	10000	41.2918	92.0569	-1089	QK	2.1	-1	7.8	1	1.2	1	0.269	-1	1.773	-1	6.595	0	1711	49	0.6
44929.0	10000	41.2918	92.0560	-1089	QK	2.2	-1	7.5	1	1.2	1	0.291	-1	1.855	-1	6.367	0	1702	39	0.6
44928.9	10000	41.2918	92.0552	-1090	QK	2.1	-1	7.8	1	1.2	1	0.267	-1	1.744	-1	6.523	0	1697	55	0.6
44928.8	10000	41.2918	92.0544	-1091	QK	2.0	-1	7.7	1	1.2	1	0.260	-1	1.686	-1	6.473	0	1684	30	0.6
44928.7	10000	41.2918	92.0535	-1092	QK	1.9	-1	7.6	1	1.1	1	0.253	-1	1.695	-1	6.703	0	1666	41	0.6
44928.6	10000	41.2918	92.0527	-1094	QK	1.9	-1	7.5	1	1.1	1	0.253	-1	1.719	-1	6.797	0	1650	43	0.6
44928.5	10000	41.2918	92.0519	-1096	QK	1.8	-1	7.6	1	1.1	1	0.237	-2	1.640	-1	6.907	1	1630	42	0.6
44928.4	10000	41.2918	92.0510	-1099	QK	2.0	-1	7.1	1	1.0	0	0.280	-1	1.960	-1	6.990	1	1612	43	0.6
44928.3	10000	41.2918	92.0502	-1101	QK	2.1	-1	6.8	0	1.0	-1	0.302	-1	2.086	0	6.913	1	1597	42	0.6
44928.2	10000	41.2919	92.0494	-1104	QK	2.2	-1	6.7	-1	0.9	-2	0.333	0	2.375	0	7.128	1	1577	41	0.6
44928.1	10000	41.2919	92.0485	-1108	QK	2.3	0	7.0	-1	1.0	-1	0.329	0	2.360	0	7.169	1	1589	32	0.6
44928.0	10000	41.2919	92.0477	-1111	QK	2.5	0	6.9	-1	1.0	-1	0.366	0	2.554	1	6.970	1	1621	57	0.6
44927.9	10000	41.2918	92.0469	-1115	QK	2.5	0	6.8	-1	1.0	-1	0.370	0	2.471	0	6.685	0	1645	55	0.6
44927.8	10000	41.2918	92.0462	-1118	QK	2.8	0	6.4	-1	1.1	0	0.428	1	2.555	1	5.967	-1	1683	35	0.6

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44927.7	10000	41.2918	92.0454	-1122	QK	2.8	1	6.3	-1	1.1	0	0.442	1	2.499	0	5.657	-1	1726	34	0.6
44927.6	10000	41.2918	92.0446	-1126	QK	2.7	0	6.6	-1	1.1	0	0.416	1	2.460	0	5.918	-1	1757	47	0.6
44927.5	10000	41.2918	92.0438	-1131	QK	2.6	0	6.8	-1	1.2	1	0.387	1	2.231	0	5.761	-1	1780	44	0.6
44927.4	10000	41.2917	92.0431	-1134	QK	2.5	0	6.8	-1	1.1	0	0.368	0	2.214	0	6.024	-1	1778	54	0.6
44927.3	10000	41.2917	92.0423	-1138	QK	2.9	1	6.7	-1	1.1	0	0.424	1	2.516	1	5.939	-1	1781	54	0.6
44927.2	10000	41.2917	92.0415	-1142	QK	2.9	1	6.6	-1	1.1	0	0.433	1	2.511	1	5.792	-1	1771	50	0.6
44927.1	10000	41.2917	92.0407	-1146	QK	2.7	0	6.9	0	1.1	0	0.392	1	2.390	0	6.103	-1	1765	35	0.6
44927.0	10000	41.2917	92.0400	-1150	QK	2.7	0	7.3	0	1.2	1	0.369	0	2.273	0	6.167	0	1755	50	0.6
44926.9	10000	41.2916	92.0392	-1153	QK	2.7	0	7.1	0	1.2	1	0.379	0	2.263	0	5.979	-1	1760	41	0.6
44926.8	10000	41.2916	92.0384	-1155	QK	2.7	0	7.2	0	1.2	1	0.380	0	2.264	0	5.963	-1	1766	51	0.6
44926.7	10000	41.2916	92.0376	-1158	QK	2.8	1	6.9	0	1.2	1	0.404	1	2.279	0	5.647	-1	1782	44	0.6
44926.6	10000	41.2916	92.0368	-1160	QK	2.5	0	7.2	0	1.2	1	0.345	0	2.004	-1	5.815	-1	1787	44	0.6
44926.5	10000	41.2915	92.0361	-1162	QK	2.4	0	7.3	0	1.3	1	0.325	0	1.900	-1	5.843	-1	1803	34	0.6
44926.4	10000	41.2915	92.0353	-1164	QK	2.4	0	7.1	0	1.2	1	0.338	0	1.910	-1	5.660	-1	1800	49	0.6
44926.3	10000	41.2915	92.0345	-1165	QK	2.2	-1	6.7	-1	1.2	1	0.321	0	1.775	-1	5.526	-1	1806	49	0.6
44926.2	10000	41.2915	92.0338	-1167	QK	2.3	0	7.1	0	1.2	1	0.321	0	1.886	-1	5.882	-1	1793	44	0.6
44926.1	10000	41.2915	92.0330	-1167	QK	2.2	-1	6.6	-1	1.2	1	0.330	0	1.806	-1	5.471	-1	1796	34	0.6
44926.0	10000	41.2914	92.0322	-1168	QK	2.2	-1	7.1	0	1.3	1	0.301	-1	1.760	-1	5.846	-1	1795	46	0.6
44925.9	10000	41.2914	92.0314	-1168	QK	2.1	-1	7.2	0	1.3	1	0.291	-1	1.668	-1	5.729	-1	1787	44	0.6
44925.8	10000	41.2914	92.0307	-1167	QK	2.1	-1	7.6	1	1.3	1	0.277	-1	1.633	-1	5.902	-1	1789	38	0.6
44925.7	10000	41.2914	92.0299	-1166	QK	1.9	-1	7.7	1	1.3	1	0.250	-1	1.483	-2	5.938	-1	1791	36	0.6
44925.6	10000	41.2913	92.0291	-1165	QK	2.0	-1	7.8	1	1.3	1	0.255	-1	1.587	-1	6.220	0	1786	39	0.6
44925.5	10000	41.2913	92.0283	-1164	QK	2.0	-1	7.7	1	1.3	1	0.265	-1	1.595	-1	6.006	-1	1799	49	0.6
44925.4	10000	41.2913	92.0276	-1163	QK	2.1	-1	8.3	1	1.2	1	0.256	-1	1.767	-1	6.905	1	1798	36	0.6
44925.3	10000	41.2913	92.0268	-1161	QK	2.1	-1	7.9	1	1.2	0	0.262	-1	1.772	-1	6.764	0	1801	45	0.6
44925.2	10000	41.2913	92.0260	-1159	QK	2.3	-1	7.8	1	1.1	0	0.289	-1	1.995	-1	6.909	1	1808	54	0.6
44925.1	10000	41.2912	92.0252	-1157	QK	2.3	-1	7.5	1	1.1	0	0.313	-1	2.125	-1	6.798	0	1776	44	0.6
44925.0	10000	41.2912	92.0244	-1155	QK	2.6	-1	7.5	1	1.1	0	0.341	-1	2.320	-1	6.795	0	1762	42	0.6
44924.9	10000	41.2912	92.0237	-1150	QK	2.6	-1	7.8	1	1.2	0	0.327	-1	2.219	-1	6.781	0	1757	38	0.6
44924.8	10000	41.2912	92.0229	-1147	QK	2.5	-1	8.0	1	1.2	0	0.306	-1	2.218	-1	7.259	1	1737	46	0.6
44924.7	10000	41.2912	92.0221	-1145	QK	2.3	-1	8.0	1	1.2	0	0.286	-1	1.944	-1	6.797	0	1728	45	0.6
44924.6	10000	41.2911	92.0213	-1142	QK	2.3	-1	8.4	1	1.2	0	0.274	-1	1.928	-1	7.049	1	1709	40	0.6
44924.5	10000	41.2911	92.0206	-1137	QK	2.1	-1	8.6	1	1.2	0	0.247	-1	1.776	-1	7.198	1	1695	50	0.6
44924.4	10000	41.2911	92.0198	-1133	QK	2.2	-1	8.4	1	1.2	0	0.257	-1	1.903	-1	7.407	1	1710	28	0.6
44924.3	10000	41.2911	92.0190	-1128	QK	2.2	-1	8.1	1	1.1	0	0.249	-1	1.848	-1	7.427	1	1698	45	0.6
44924.2	10000	41.2910	92.0182	-1123	QK	2.2	-1	7.6	1	1.1	0	0.272	-1	2.039	-1	7.485	1	1695	50	0.6
44924.1	10000	41.2910	92.0175	-1118	QK	2.2	-1	7.6	1	1.1	0	0.292	-1	2.067	-1	7.073	1	1670	42	0.6
44924.0	10000	41.2910	92.0167	-1113	QK	2.4	0	7.0	1	1.0	0	0.340	-1	2.380	-1	7.005	1	1642	44	0.6
44923.9	10000	41.2910	92.0159	-1108	QK	2.5	0	6.7	1	1.0	0	0.380	-1	2.641	-1	6.956	1	1628	51	0.6
44923.8	10000	41.2910	92.0151	-1103	QK	2.8	0	6.2	1	1.0	0	0.455	-1	2.932	-1	6.437	1	1611	33	0.6
44923.7	10000	41.2909	92.0144	-1097	QK	2.9	0	5.7	1	1.0	0	0.456	-1	2.820	-1	6.181	0	1592	46	0.5
44923.6	10000	41.2909	92.0136	-1093	QK	2.7	-1	5.7	1	1.0	0	0.500	-1	2.886	-1	5.766	-1	1573	43	0.5
44923.5	10000	41.2909	92.0128	-1086	QK	2.7	-2	5.2	1	0.9	0	0.517	-1	2.835	-1	5.487	-1	1530	45	0.5
44923.4	10000	41.2909	92.0120	-1080	QK	2.7	-2	5.3	1	1.0	-1	0.458	-2	2.748	-1	6.003	-1	1526	33	0.5
44923.3	10000	41.2908	92.0113	-1074	QK	2.7	-2	5.3	1	1.0	-1	0.429	-1	2.739	-1	6.391	0	1524	45	0.5
44923.2	10000	41.2908	92.0105	-1069	QK	2.7	-2	5.3	1	1.0	-1	0.404	-1	2.353	-1	5.820	-1	1523	40	0.5
44923.1	10000	41.2908	92.0097	-1064	QK	2.7	-1	5.3	1	1.0	-1	0.340	-1	2.107	-1	6.204	0	1538	46	0.5
44923.0	10000	41.2908	92.0089	-1059	QK	2.7	-1	5.3	1	1.0	-1	0.335	-1	2.084	-1	6.230	0	1547	35	0.5
44922.9	10000	41.2907	92.0082	-1053	QK	2.7	-1	5.3	1	1.0	-1	0.326	-1	2.200	-1	6.758	0	1571	45	0.5
44922.8	10000	41.2907	92.0074	-1047	QK	2.7	-1	5.3	1	1.0	-1	0.343	-1	2.289	-1	6.681	0	1608	52	0.5
44922.7	10000	41.2907	92.0066	-1041	QK	2.5	-1	5.3	1	1.0	-1	0.359	-1	2.299	-1	6.397	0	1627	39	0.5
44922.6	10000	41.2907	92.0058	-1036	QK	2.1	-1	6.5	-1	1.1	0	0.322	0	1.976	-1	6.139	0	1652	44	0.5

LINE 330 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
44922.5	10000	41.2907	92.0051	-1031	QK	2.4	0	6.8	-1	1.0	-1	0.348	0	2.332	0	6.704	0	1654	35	0.5
44922.4	10000	41.2906	92.0043	-1025	QK	2.5	0	6.7	-1	1.0	-1	0.369	0	2.478	0	6.708	0	1641	34	0.5
44922.3	10000	41.2906	92.0035	-1018	QK	2.5	0	6.7	-1	1.0	-1	0.367	0	2.532	1	6.900	1	1639	53	0.5
44922.2	10000	41.2906	92.0027	-1011	QK	2.4	0	6.6	-1	1.0	-1	0.367	0	2.548	1	6.940	1	1632	44	0.5
44922.1	10000	41.2906	92.0020	-1004	QK	2.5	0	6.8	-1	1.0	-1	0.364	0	2.562	1	7.047	1	1623	41	0.5

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45648.9	10000	41.2003	93.9986	-633	QKA	2.1	-1	7.8	1	1.2	1	0.275	-1	1.835	-1	6.664	0	1877	42	1.6
45649.0	10000	41.2003	93.9978	-633	QKA	2.2	0	7.8	1	1.2	1	0.287	-1	1.925	-1	6.701	0	1871	54	1.6
45649.1	10000	41.2003	93.9969	-633	QKA	2.1	-1	7.8	1	1.2	1	0.273	-1	1.828	-1	6.707	0	1886	49	1.6
45649.2	10000	41.2003	93.9961	-634	QKA	2.4	0	7.8	1	1.1	1	0.303	0	2.060	0	6.791	0	1887	41	1.6
45649.3	10000	41.2003	93.9953	-636	QKA	2.5	0	7.6	1	1.1	0	0.333	0	2.278	0	6.845	0	1876	41	1.6
45649.4	10000	41.2003	93.9945	-638	QKA	2.6	0	7.3	0	1.1	0	0.358	0	2.438	0	6.814	0	1866	50	1.7
45649.5	10000	41.2003	93.9937	-639	QKA	2.5	0	7.1	0	1.0	0	0.354	0	2.506	1	7.071	0	1840	51	1.7
45649.6	10000	41.2003	93.9928	-641	QKA	2.5	0	7.2	0	1.0	-1	0.353	0	2.568	1	7.275	1	1843	38	1.7
45649.7	10000	41.2003	93.9920	-642	QKA	2.5	0	6.9	0	1.0	-1	0.360	0	2.504	1	6.948	0	1832	37	1.7
45649.8	10000	41.2003	93.9912	-643	QKA	2.8	1	6.4	-1	0.9	-1	0.442	2	3.018	2	6.833	0	1793	47	1.7
45649.9	10000	41.2003	93.9904	-645	QKA	2.7	1	6.3	-1	0.9	-1	0.430	1	2.956	1	6.874	0	1771	50	1.7
45650.0	10000	41.2003	93.9896	-646	QKA	2.5	0	6.6	-1	0.9	-1	0.381	1	2.718	1	7.139	1	1766	38	1.7
45650.1	10000	41.2003	93.9887	-648	QKA	2.3	0	6.5	-1	1.0	-1	0.358	0	2.363	0	6.607	0	1754	47	1.7
45650.2	10000	41.2003	93.9879	-650	QKA	2.4	0	6.6	-1	1.0	0	0.369	0	2.376	0	6.445	0	1767	45	1.7
45650.3	10000	41.2003	93.9871	-652	QKA	2.7	1	6.7	-1	1.0	0	0.400	1	2.578	1	6.449	0	1741	51	1.7
45650.4	10000	41.2003	93.9863	-654	QKA	2.9	1	6.9	0	1.0	-1	0.416	1	2.907	1	6.987	0	1744	51	1.7
45650.5	10000	41.2003	93.9855	-655	QKA	2.7	1	7.1	0	1.0	-1	0.385	1	2.765	1	7.175	1	1747	45	1.7
45650.6	10000	41.2003	93.9846	-658	QKA	2.5	0	7.2	0	1.0	0	0.347	0	2.444	0	7.045	0	1745	51	1.7
45650.7	10000	41.2003	93.9838	-660	QKA	2.8	1	7.2	0	1.0	0	0.385	1	2.692	1	6.998	0	1774	43	1.7
45650.8	10000	41.2003	93.9830	-662	QKA	3.0	1	7.7	1	1.0	-1	0.386	1	3.025	2	7.837	1	1793	46	1.7
45650.9	10000	41.2003	93.9822	-664	QKA	2.7	1	7.6	1	1.0	-1	0.360	0	2.791	1	7.746	1	1777	48	1.7
45651.0	10000	41.2003	93.9814	-667	QKA	2.4	0	7.2	0	1.0	-1	0.340	0	2.508	1	7.378	1	1775	50	1.7
45651.1	10000	41.2003	93.9806	-670	QKA	2.3	0	7.0	0	1.0	-1	0.328	0	2.360	0	7.186	1	1753	51	1.7
45651.2	10000	41.2003	93.9797	-673	QKA	2.3	0	7.2	0	1.0	-1	0.321	0	2.406	0	7.503	1	1753	47	1.7
45651.3	10000	41.2003	93.9789	-676	QKA	2.5	0	6.8	0	0.9	-1	0.370	0	2.689	1	7.269	1	1729	41	1.7
45651.4	10000	41.2003	93.9781	-679	QKA	2.5	0	6.0	-1	0.9	-1	0.417	1	2.820	1	6.769	0	1688	45	1.7
45651.5	10000	41.2003	93.9773	-681	QKA	2.4	0	5.5	-2	0.9	-1	0.432	1	2.653	1	6.146	-1	1658	51	1.7
45651.6	10000	41.2003	93.9765	-684	QKA	2.4	0	5.8	-2	0.9	-2	0.423	1	2.864	1	6.778	0	1639	39	1.7
45651.7	10000	41.2003	93.9756	-687	QKA	2.6	0	5.9	-2	0.9	-1	0.434	1	2.878	1	6.632	0	1632	43	1.7
45651.8	10000	41.2003	93.9748	-689	QKA	2.5	0	6.1	-1	0.9	-1	0.408	1	2.683	1	6.581	0	1657	37	1.7
45651.9	10000	41.2003	93.9740	-692	QKA	2.4	0	5.9	-2	1.0	-1	0.411	1	2.465	1	5.992	-1	1664	47	1.7
45652.0	10000	41.2003	93.9732	-694	QKA	2.4	0	6.0	-1	1.0	-1	0.397	1	2.417	1	6.090	-1	1685	33	1.7
45652.1	10000	41.2003	93.9724	-696	QKA	2.4	0	6.5	-1	1.0	0	0.376	1	2.353	1	6.258	-1	1705	47	1.7
45652.2	10000	41.2003	93.9715	-699	QKA	2.5	0	6.7	-1	1.0	0	0.372	1	2.447	1	6.586	0	1729	49	1.7
45652.3	10000	41.2003	93.9707	-701	QKA	2.6	0	6.5	-1	1.1	0	0.401	1	2.462	1	6.131	-1	1765	39	1.7
45652.4	10000	41.2003	93.9699	-704	QKA	2.5	0	6.6	-1	1.0	-1	0.382	1	2.484	1	6.509	0	1784	43	1.7
45652.5	10000	41.2003	93.9691	-706	QKA	2.7	1	6.5	-1	1.0	-1	0.413	1	2.673	1	6.474	0	1781	35	1.7
45652.6	10000	41.2003	93.9683	-709	QKA	2.7	1	6.4	-1	1.0	-1	0.421	1	2.797	1	6.649	0	1773	48	1.7
45652.7	10000	41.2003	93.9675	-712	QKA	2.6	1	6.3	-1	0.9	-1	0.411	1	2.775	1	6.750	0	1758	45	1.7
45652.8	10000	41.2003	93.9666	-714	QKA	2.4	0	6.4	-1	0.9	-1	0.371	1	2.701	1	7.286	1	1738	37	1.8
45652.9	10000	41.2003	93.9658	-716	QKA	2.4	0	6.2	-1	0.8	-2	0.395	1	2.900	1	7.343	1	1713	43	1.8
45653.0	10000	41.2003	93.9650	-719	QKA	2.5	0	5.9	-2	0.8	-2	0.429	1	3.324	1	7.756	1	1672	38	1.8
45653.1	10000	41.2003	93.9642	-721	QKA	2.9	1	5.6	-2	0.8	-2	0.519	1	3.821	2	7.361	1	1658	41	1.8
45653.2	10000	41.2003	93.9633	-723	QKA	2.9	1	5.5	-2	0.7	-2	0.530	1	3.865	2	7.288	1	1635	43	1.8
45653.3	10000	41.2003	93.9625	-725	QKA	2.9	1	5.5	-2	0.7	-2	0.530	1	3.893	3	7.340	1	1621	58	1.8
45653.4	10000	41.2003	93.9617	-728	QKA	3.0	1	5.8	-2	0.7	-2	0.520	1	4.012	3	7.714	1	1625	52	1.8
45653.5	10000	41.2003	93.9609	-730	QKA	2.9	1	5.8	-2	0.8	-2	0.503	2	3.746	3	7.456	1	1617	44	1.8
45653.6	10000	41.2003	93.9601	-731	QKA	2.7	1	6.2	-1	0.8	-2	0.439	1	3.278	2	7.469	1	1631	57	1.8
45653.7	10000	41.2003	93.9593	-733	QKA	2.5	0	6.2	-1	0.9	-1	0.407	1	2.769	1	6.799	0	1641	40	1.8
45653.8	10000	41.2003	93.9584	-735	QKA	2.4	0	6.6	-1	1.0	-1	0.360	0	2.431	1	6.748	0	1661	50	1.8
45653.9	10000	41.2003	93.9576	-737	QKA	2.3	0	6.5	-1	1.0	-1	0.348	0	2.277	1	6.537	0	1678	50	1.8
45654.0	10000	41.2003	93.9568	-739	QKA	2.2	0	6.6	-1	0.9	-1	0.333	0	2.319	0	6.967	0	1678	46	1.8

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG G/AMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45654.1	10000	41.2003	93.9560	-740	QKA	2.2	0	6.4	-1	1.0	-1	0.346	0	2.214	0	6.398	0	1690	46	1.8
45654.2	10000	41.2003	93.9552	-742	QKA	2.4	0	6.3	-1	1.0	-1	0.382	1	2.411	0	6.305	0	1721	44	1.8
45654.3	10000	41.2003	93.9543	-744	QKA	2.4	0	6.5	-1	0.9	-1	0.377	1	2.579	1	6.833	0	1725	41	1.8
45654.4	10000	41.2003	93.9535	-746	QKA	2.6	0	6.9	0	0.9	-1	0.371	0	2.718	1	7.329	1	1744	43	1.8
45654.5	10000	41.2003	93.9527	-747	QKA	2.8	1	6.8	0	0.9	-1	0.418	1	3.148	2	7.524	1	1745	45	1.8
45654.6	10000	41.2003	93.9519	-749	QKA	2.8	1	7.1	0	0.9	-1	0.403	1	3.211	2	7.970	2	1748	49	1.8
45654.7	10000	41.2003	93.9511	-750	QKA	2.8	1	7.2	0	0.9	-1	0.390	1	3.007	2	7.705	1	1762	41	1.8
45654.8	10000	41.2003	93.9502	-751	QKA	2.9	1	7.3	0	0.9	-1	0.397	1	3.041	2	7.665	1	1773	40	1.8
45654.9	10000	41.2003	93.9494	-752	QKA	2.8	1	7.3	0	0.9	-1	0.379	1	2.975	1	7.844	1	1751	49	1.8
45655.0	10000	41.2003	93.9486	-753	QKA	2.8	1	7.1	0	1.0	-1	0.390	1	2.798	1	7.179	1	1763	24	1.8
45655.1	10000	41.2003	93.9478	-754	QKA	2.8	1	7.1	0	1.0	0	0.393	1	2.735	1	6.957	0	1774	55	1.8
45655.2	10000	41.2003	93.9470	-755	QKA	2.3	0	7.3	0	1.1	0	0.317	0	2.161	0	6.827	0	1782	52	1.8
45655.3	10000	41.2003	93.9462	-757	QKA	2.2	0	7.2	0	1.1	0	0.311	0	2.061	0	6.625	0	1790	48	1.8
45655.4	10000	41.2003	93.9453	-758	QKA	2.2	0	7.4	0	1.1	0	0.293	-1	1.923	-1	6.567	0	1807	35	1.9
45655.5	10000	41.2003	93.9445	-758	QKA	2.0	-1	7.3	0	1.1	0	0.280	-1	1.825	-1	6.517	0	1802	38	1.9
45655.6	10000	41.2003	93.9437	-759	QKA	2.1	-1	7.2	0	1.1	0	0.293	-1	1.895	-1	6.461	0	1828	39	1.9
45655.7	10000	41.2003	93.9429	-760	QKA	2.0	-1	7.0	0	1.1	0	0.290	-1	1.885	-1	6.502	0	1808	52	1.9
45655.8	10000	41.2003	93.9421	-761	QKA	2.2	0	6.8	0	1.0	0	0.324	0	2.120	0	6.544	0	1801	39	1.9
45655.9	10000	41.2003	93.9412	-762	QKA	2.5	0	6.7	-1	1.1	0	0.372	0	2.349	0	6.313	0	1802	50	1.9
45656.0	10000	41.2003	93.9404	-763	QKA	2.5	0	7.0	0	1.0	0	0.359	0	2.446	0	6.805	0	1798	56	1.9
45656.1	10000	41.2003	93.9396	-764	QKA	2.7	1	7.0	0	0.9	-1	0.390	1	2.868	1	7.355	1	1784	41	1.9
45656.2	10000	41.2003	93.9388	-765	QKA	2.6	0	7.5	0	0.9	-1	0.347	0	2.735	1	7.887	1	1769	44	1.9
45656.3	10000	41.2003	93.9380	-766	QKA	2.4	0	7.0	0	1.0	-1	0.345	0	2.467	0	7.148	1	1729	48	1.9
45656.4	10000	41.2003	93.9371	-768	QKA	2.5	0	6.7	-1	1.0	-1	0.379	1	2.649	1	6.998	0	1708	42	1.9
45656.5	10000	41.2003	93.9363	-769	QKA	2.5	0	6.7	-1	0.9	-1	0.379	1	2.712	1	7.164	1	1701	45	1.9
45656.6	10000	41.2003	93.9355	-770	QKA	2.4	0	7.1	0	0.9	-1	0.337	0	2.569	1	7.630	1	1685	48	1.9
45656.7	10000	41.2003	93.9347	-772	QKA	2.7	1	6.9	0	0.9	-1	0.393	1	2.904	1	7.382	1	1702	41	1.9
45656.8	10000	41.2003	93.9339	-773	QKA	2.6	0	6.4	-1	1.0	-1	0.413	1	2.705	1	6.554	0	1698	43	1.9
45656.9	10000	41.2003	93.9330	-775	QKA	2.6	0	6.6	-1	1.0	-1	0.392	1	2.660	1	6.785	0	1705	43	1.9
45657.0	10000	41.2003	93.9322	-777	QKA	2.6	0	6.9	0	0.9	-1	0.378	1	2.857	1	7.567	1	1718	43	1.9
45657.1	10000	41.2003	93.9314	-779	QKA	2.7	1	7.0	0	1.0	-1	0.393	1	2.847	1	7.247	1	1727	46	1.9
45657.2	10000	41.2003	93.9306	-781	QKA	2.5	1	7.1	0	1.0	-1	0.358	1	2.592	1	7.241	1	1724	42	1.9
45657.3	10000	41.2003	93.9298	-784	QKA	2.7	1	6.5	-1	0.9	-1	0.410	1	2.820	1	6.878	1	1731	36	1.9
45657.4	10000	41.2003	93.9290	-786	QKA	2.2	0	6.2	-1	1.0	-1	0.350	1	2.287	1	6.537	1	1708	53	1.9
45657.5	10000	41.2003	93.9281	-789	QKA	2.2	0	6.5	-1	1.0	-1	0.332	1	2.213	1	6.664	0	1714	40	1.9
45657.6	10000	41.2003	93.9273	-791	QKA	2.1	-1	6.0	-1	1.0	-1	0.345	1	2.067	1	5.990	-1	1718	48	1.9
45657.7	10000	41.2003	93.9265	-794	QKA	2.2	-1	6.1	-1	1.1	0	0.361	1	2.054	0	5.690	-1	1732	45	1.9
45657.8	10000	41.2003	93.9257	-796	QKA	2.0	-1	6.5	-1	1.1	0	0.300	-1	1.776	-1	5.929	-1	1764	60	1.9
45657.9	10000	41.2003	93.9249	-798	QKA	2.3	-1	6.6	-1	1.2	0	0.343	-1	1.960	-1	5.712	-1	1802	52	2.0
45658.0	10000	41.2003	93.9240	-797	QKA	2.0	-1	6.8	0	1.2	0	0.296	-1	1.680	-1	5.675	-1	1822	49	2.0
45658.1	10000	41.2003	93.9232	-801	QKA	2.4	0	6.9	0	1.3	0	0.341	-1	1.875	-1	5.493	-1	1858	33	2.0
45658.2	10000	41.2003	93.9224	-806	QKA	2.4	0	7.0	0	1.3	0	0.348	-1	1.914	-1	5.496	-1	1894	46	2.0
45658.3	10000	41.2003	93.9216	-810	QKA	2.4	0	7.1	1	1.3	0	0.335	-1	1.828	-1	5.465	-2	1903	36	2.0
45658.4	10000	41.2003	93.9208	-813	QKA	2.3	0	7.0	1	1.3	0	0.334	-1	1.829	-1	5.474	-2	1910	51	2.0
45658.5	10000	41.2003	93.9199	-815	QKA	2.3	0	7.0	1	1.2	0	0.329	-1	1.853	-1	5.638	-1	1914	53	2.0
45658.6	10000	41.2003	93.9191	-818	QKA	2.1	-1	7.2	1	1.2	0	0.297	-1	1.747	-1	5.884	-1	1912	36	2.0
45658.7	10000	41.2003	93.9183	-820	QKA	2.4	0	7.4	1	1.2	0	0.327	0	2.031	0	6.206	-1	1908	35	2.0
45658.8	10000	41.2003	93.9175	-821	QKA	2.2	0	7.5	1	1.1	0	0.291	-1	1.933	-1	6.647	0	1881	47	2.0
45658.9	10000	41.2003	93.9167	-822	QKA	2.1	-1	7.3	1	1.1	0	0.289	-1	1.960	-1	6.772	0	1848	56	2.0
45659.0	10000	41.2003	93.9158	-826	QKA	2.8	1	7.4	1	1.1	0	0.374	1	2.796	1	7.469	1	1849	42	2.0
45659.1	10000	41.2003	93.9150	-828	QKA	2.8	1	7.2	1	1.0	-1	0.384	1	2.756	1	7.183	1	1855	43	2.0
45659.2	10000	41.2003	93.9142	-829	QKA	2.7	1	7.1	0	1.0	0	0.374	1	2.581	1	6.896	0	1850	46	2.0

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45659.3	10000	41.2003	93.9134	-827	QKA	2.5	0	7.0	0	1.1	0	0.352	0	2.331	0	6.626	0	1848	37	2.0
45659.4	10000	41.2003	93.9126	-831	QKA	2.4	0	6.8	-1	1.1	0	0.349	0	2.138	0	6.118	-1	1861	56	2.0
45659.5	10000	41.2003	93.9117	-836	QKA	2.4	0	7.1	0	1.1	0	0.343	0	2.163	0	6.304	0	1893	47	2.0
45659.6	10000	41.2003	93.9109	-838	QKA	2.6	0	7.1	0	1.2	1	0.364	0	2.203	0	6.051	-1	1922	47	2.0
45659.7	10000	41.2003	93.9100	-839	QKA	1.9	-1	7.2	0	1.2	1	0.266	-1	1.542	-1	5.808	-1	1928	47	2.0
45659.8	10000	41.2003	93.9091	-841	QKA	2.0	-1	7.5	0	1.3	1	0.263	-1	1.575	-1	5.981	-1	1936	47	2.0
45659.9	10000	41.2003	93.9083	-842	QKA	2.3	0	7.2	0	1.2	1	0.321	0	1.854	-1	5.776	-1	1936	59	2.0
45660.0	10000	41.2003	93.9074	-844	QKA	2.5	0	7.2	0	1.2	1	0.342	0	2.009	0	5.873	-1	1923	36	2.0
45660.1	10000	41.2004	93.9065	-845	QKA	2.4	0	7.3	0	1.2	1	0.328	0	2.068	0	6.304	0	1892	48	2.0
45660.2	10000	41.2004	93.9056	-847	QKA	2.3	0	7.0	0	1.1	0	0.336	0	2.059	0	6.129	-1	1868	45	2.0
45660.3	10000	41.2004	93.9047	-849	QKA	2.0	-1	7.2	0	1.1	0	0.285	-1	1.839	-1	6.460	0	1835	47	2.0
45660.4	10000	41.2004	93.9038	-851	QKA	2.3	0	7.0	0	1.1	0	0.326	0	2.123	0	6.516	0	1817	54	2.0
45660.5	10000	41.2004	93.9029	-853	QKA	2.1	-1	7.0	0	1.1	0	0.302	-1	1.939	-1	6.412	0	1796	47	2.0
45660.6	10000	41.2004	93.9020	-855	QKA	2.0	-1	7.5	0	1.0	0	0.264	-1	1.928	-1	7.309	1	1784	38	2.0
45660.7	10000	41.2005	93.9012	-857	QKA	2.1	-1	7.1	0	1.0	0	0.293	-1	1.999	-1	6.829	0	1772	44	2.0
45660.8	10000	41.2005	93.9003	-859	QKA	2.3	0	6.9	0	1.0	0	0.340	0	2.291	0	6.740	0	1773	43	2.0
45660.9	10000	41.2005	93.8994	-861	QKA	2.6	0	7.0	0	1.0	-1	0.377	1	2.650	1	7.022	0	1761	53	2.0
45661.0	10000	41.2005	93.8985	-863	QKA	2.6	0	6.7	-1	1.0	-1	0.392	1	2.735	1	6.974	0	1754	51	2.0
45661.1	10000	41.2005	93.8976	-865	QKA	2.5	0	6.6	-1	1.0	-1	0.375	1	2.581	1	6.874	0	1753	49	2.0
45661.2	10000	41.2005	93.8967	-867	QKA	2.7	1	6.3	-1	0.9	-1	0.423	1	2.913	1	6.895	0	1749	44	2.0
45661.3	10000	41.2006	93.8958	-869	QKA	2.8	1	5.6	-2	0.9	-1	0.506	2	3.037	2	6.000	-1	1754	48	2.0
45661.4	10000	41.2006	93.8949	-872	QKA	2.7	1	6.2	-1	0.9	-1	0.432	1	2.961	1	6.850	0	1750	50	2.0
45661.5	10000	41.2006	93.8940	-875	QKA	2.4	0	6.5	-1	1.0	-1	0.366	0	2.485	0	6.782	0	1765	52	2.0
45661.6	10000	41.2006	93.8931	-878	QKA	2.2	0	6.4	-1	1.0	-1	0.347	0	2.262	0	6.511	0	1779	53	2.0
45661.7	10000	41.2006	93.8923	-880	QKA	2.4	0	6.4	-1	1.0	-1	0.370	0	2.316	0	6.266	-1	1793	51	2.0
45661.8	10000	41.2006	93.8914	-883	QKA	2.4	0	6.6	-1	1.0	0	0.363	0	2.314	0	6.370	0	1806	47	2.0
45661.9	10000	41.2007	93.8905	-887	QKA	2.3	0	6.6	-1	1.1	0	0.353	0	2.190	0	6.211	-1	1830	49	2.0
45662.0	10000	41.2007	93.8896	-889	QKA	2.0	-1	7.2	0	1.1	0	0.273	-1	1.760	-1	6.445	0	1850	42	2.0
45662.1	10000	41.2007	93.8887	-892	QKA	1.9	-1	7.2	0	1.2	1	0.263	-1	1.625	-1	6.172	-1	1860	32	2.0
45662.2	10000	41.2007	93.8878	-894	QKA	1.9	-1	7.4	0	1.1	0	0.257	-1	1.670	-1	6.502	0	1880	52	2.0
45662.3	10000	41.2007	93.8869	-897	QKA	1.9	-1	7.5	0	1.2	1	0.253	-1	1.618	-1	6.402	0	1891	44	2.0
45662.4	10000	41.2007	93.8860	-900	QKA	1.8	-1	7.5	0	1.2	1	0.239	-1	1.520	-1	6.369	0	1913	46	2.0
45662.5	10000	41.2008	93.8851	-902	QKA	2.1	-1	7.3	0	1.2	1	0.280	-1	1.703	-1	6.075	-1	1920	49	2.0
45662.6	10000	41.2008	93.8843	-904	QKA	2.1	-1	7.4	0	1.2	1	0.280	-1	1.731	-1	6.172	-1	1905	54	2.0
45662.7	10000	41.2008	93.8834	-906	QKA	2.2	0	7.2	0	1.1	0	0.309	-1	1.957	-1	6.340	0	1875	45	2.0
45662.8	10000	41.2008	93.8825	-908	QKA	2.6	1	6.9	0	1.1	0	0.382	0	2.486	0	6.505	0	1869	51	2.0
45662.9	10000	41.2008	93.8816	-909	QKA	2.7	1	6.5	-1	1.1	0	0.408	1	2.499	1	6.131	-1	1821	35	2.0
45663.0	10000	41.2008	93.8807	-912	QKA	2.4	0	6.3	-1	1.1	0	0.377	1	2.281	0	6.056	-1	1777	34	2.0
45663.1	10000	41.2009	93.8798	-912	QKA	2.6	1	6.1	-1	1.0	0	0.423	1	2.647	1	6.260	-1	1725	42	2.0
45663.2	10000	41.2009	93.8789	-915	QKA	2.2	0	6.1	-1	0.9	-1	0.364	1	2.432	0	6.679	0	1691	52	2.0
45663.3	10000	41.2009	93.8780	-918	QKA	2.2	0	6.1	-1	0.9	-1	0.351	0	2.374	0	6.760	0	1679	49	2.0
45663.4	10000	41.2009	93.8772	-920	QKA	2.1	-1	6.4	-1	0.9	-1	0.335	0	2.329	0	6.953	0	1692	41	2.0
45663.5	10000	41.2009	93.8763	-921	QKA	1.9	-1	6.5	-1	1.0	-1	0.296	-1	1.982	-1	6.693	0	1701	42	2.0
45663.6	10000	41.2009	93.8754	-922	QKA	2.0	-1	6.2	-1	0.9	-1	0.328	0	2.078	0	6.330	0	1716	54	2.0
45663.7	10000	41.2010	93.8745	-923	QKA	2.2	-1	6.3	-1	1.0	-1	0.357	1	2.378	1	6.662	0	1721	44	2.0
45663.8	10000	41.2010	93.8736	-925	QKA	2.1	-1	6.5	-1	1.0	-1	0.318	0	2.095	0	6.599	0	1730	55	2.0
45663.9	10000	41.2010	93.8727	-926	QKA	2.6	1	6.3	-1	1.0	-1	0.399	1	2.631	1	6.601	0	1752	42	2.0
45664.0	10000	41.2010	93.8718	-928	QKA	2.8	1	6.2	-1	1.0	-1	0.434	1	2.879	1	6.628	0	1768	43	2.0
45664.1	10000	41.2010	93.8709	-929	QKA	2.7	1	6.0	-1	1.0	-1	0.451	2	2.691	1	5.971	-1	1779	53	2.0
45664.2	10000	41.2010	93.8700	-930	QKA	2.7	1	6.2	-1	1.1	-1	0.443	1	2.627	1	5.925	-1	1806	50	2.0
45664.3	10000	41.2010	93.8691	-931	QKA	2.6	0	6.9	0	1.1	0	0.379	1	2.375	1	6.274	-1	1853	46	2.0
45664.4	10000	41.2011	93.8683	-932	QKA	2.6	0	7.4	0	1.1	0	0.350	0	2.255	0	6.436	0	1885	34	2.0

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45664.5	10000	41.2011	93.8674	-933	QKA	2.9	1	7.6	1	1.2	1	0.385	1	2.531	1	6.570	0	1918	44	2.0
45664.6	10000	41.2011	93.8665	-933	QKA	2.5	0	7.7	1	1.1	0	0.327	0	2.218	0	6.785	0	1918	49	2.0
45664.7	10000	41.2011	93.8656	-934	QKA	2.3	0	8.0	1	1.2	1	0.285	-1	1.966	-1	6.901	0	1924	40	2.0
45664.8	10000	41.2011	93.8647	-935	QKA	2.4	0	8.1	1	1.1	0	0.292	-1	2.079	0	7.128	1	1903	56	2.0
45664.9	10000	41.2011	93.8638	-936	QKA	2.3	0	8.4	2	1.1	0	0.276	-1	2.159	0	7.813	1	1868	46	2.0
45665.0	10000	41.2012	93.8629	-936	QKA	2.0	-1	7.8	1	1.0	-1	0.261	-1	2.084	0	7.982	2	1802	41	2.0
45665.1	10000	41.2012	93.8620	-937	QKA	2.2	0	7.4	0	1.0	-1	0.296	-1	2.248	0	7.595	1	1766	49	2.0
45665.2	10000	41.2012	93.8611	-937	QKA	1.8	-1	7.1	0	0.9	-1	0.253	-1	1.911	-1	7.553	1	1716	63	2.0
45665.3	10000	41.2012	93.8603	-937	QKA	2.0	-1	7.1	0	0.9	-1	0.282	-1	2.134	0	7.578	1	1693	46	2.0
45665.4	10000	41.2012	93.8594	-938	QKA	2.1	-1	6.8	-1	0.9	-1	0.312	0	2.378	0	7.612	1	1675	40	2.0
45665.5	10000	41.2012	93.8585	-938	QKA	2.3	0	6.8	0	0.9	-1	0.344	0	2.558	1	7.440	1	1680	38	2.0
45665.6	10000	41.2013	93.8576	-938	QKA	2.2	0	6.5	-1	0.9	-1	0.336	0	2.358	0	7.023	0	1684	39	2.0
45665.7	10000	41.2013	93.8567	-939	QKA	2.5	0	6.8	0	0.9	-1	0.366	0	2.731	1	7.470	1	1699	33	2.0
45665.8	10000	41.2013	93.8558	-939	QKA	2.4	0	6.8	0	0.9	-2	0.360	0	2.819	1	7.826	1	1698	38	2.0
45665.9	10000	41.2013	93.8549	-940	QKA	2.6	0	6.9	0	0.9	-1	0.372	1	2.915	1	7.828	1	1709	46	2.0
45666.0	10000	41.2013	93.8540	-940	QKA	2.5	0	6.9	0	0.9	-1	0.362	0	2.766	1	7.644	1	1728	41	2.0
45666.1	10000	41.2013	93.8531	-939	QKA	2.3	0	7.4	0	0.9	-1	0.311	0	2.570	1	8.266	2	1727	48	2.0
45666.2	10000	41.2014	93.8522	-939	QKA	2.0	-1	7.7	1	0.9	-2	0.265	-1	2.355	0	8.879	3	1725	53	2.0
45666.3	10000	41.2014	93.8514	-940	QKA	2.2	0	7.3	0	0.9	-1	0.307	0	2.528	1	8.244	2	1743	44	2.0
45666.4	10000	41.2014	93.8505	-940	QKA	2.2	0	7.3	0	1.0	-1	0.303	0	2.314	0	7.628	1	1775	46	2.0
45666.5	10000	41.2014	93.8496	-940	QKA	2.1	-1	7.7	1	1.0	-1	0.278	-1	2.129	0	7.644	1	1827	48	2.0
45666.6	10000	41.2014	93.8487	-940	QKA	2.3	0	7.9	1	1.1	0	0.297	-1	2.147	0	7.230	1	1883	48	2.0
45666.7	10000	41.2014	93.8478	-939	QKA	2.4	0	8.0	1	1.1	1	0.301	-1	2.096	0	6.967	0	1929	46	2.0
45666.8	10000	41.2015	93.8469	-939	QKA	2.5	0	7.9	1	1.2	1	0.318	0	2.027	0	6.369	0	1965	52	2.0
45666.9	10000	41.2015	93.8460	-940	QKA	2.6	0	8.0	1	1.2	1	0.326	0	2.103	0	6.447	0	1999	49	2.0
45667.0	10000	41.2015	93.8451	-940	QKA	2.7	1	8.1	1	1.2	1	0.332	0	2.185	0	6.573	0	1997	46	1.9
45667.1	10000	41.2015	93.8443	-940	QKA	2.8	1	7.8	1	1.2	1	0.356	0	2.248	0	6.314	0	1998	44	1.9
45667.2	10000	41.2015	93.8434	-940	QKA	2.8	1	7.7	1	1.2	1	0.365	0	2.261	0	6.193	-1	1986	55	1.9
45667.3	10000	41.2015	93.8425	-941	QKA	2.8	1	8.1	1	1.2	1	0.348	0	2.324	0	6.670	0	1988	40	1.9
45667.4	10000	41.2016	93.8416	-942	QKA	2.7	1	7.9	1	1.2	1	0.336	0	2.224	0	6.618	0	1975	45	1.9
45667.5	10000	41.2016	93.8407	-942	QKA	2.8	1	7.6	1	1.1	1	0.364	0	2.422	0	6.648	0	1980	38	1.9
45667.6	10000	41.2016	93.8398	-943	QKA	2.7	1	7.6	1	1.2	1	0.358	0	2.286	0	6.392	0	1985	39	1.9
45667.7	10000	41.2016	93.8389	-943	QKA	2.7	1	7.6	1	1.2	1	0.350	0	2.151	0	6.153	-1	1994	63	1.9
45667.8	10000	41.2016	93.8380	-943	QKA	2.7	1	7.8	1	1.2	1	0.350	0	2.262	0	6.463	0	1986	38	1.9
45667.9	10000	41.2016	93.8371	-943	QKA	2.5	0	7.5	1	1.2	1	0.342	0	2.096	0	6.133	-1	1986	43	1.9
45668.0	10000	41.2017	93.8362	-944	QKA	2.3	0	7.4	0	1.2	1	0.315	-1	1.901	-1	6.041	-1	1990	51	1.9
45668.1	10000	41.2017	93.8354	-945	QKA	2.6	1	7.9	1	1.2	1	0.326	0	2.099	0	6.440	0	1996	46	2.0
45668.2	10000	41.2017	93.8345	-946	QKA	2.7	1	7.8	1	1.2	1	0.350	0	2.218	0	6.336	0	1997	48	2.0
45668.3	10000	41.2017	93.8336	-947	QKA	2.9	1	7.4	1	1.2	1	0.390	1	2.417	0	6.192	-1	1990	32	1.9
45668.4	10000	41.2017	93.8327	-948	QKA	2.8	1	7.8	1	1.2	1	0.364	0	2.358	0	6.469	0	2006	47	1.9
45668.5	10000	41.2017	93.8318	-949	QKA	2.9	1	8.0	1	1.2	1	0.359	0	2.312	0	6.438	0	2051	57	1.9
45668.6	10000	41.2018	93.8309	-950	QKA	2.9	1	8.1	1	1.3	1	0.361	0	2.389	0	6.615	0	2059	53	1.9
45668.7	10000	41.2018	93.8300	-951	QKA	2.9	1	7.6	1	1.3	1	0.381	1	2.322	0	6.100	-1	2043	42	1.9
45668.8	10000	41.2018	93.8291	-951	QKA	2.7	1	7.1	0	1.3	2	0.381	1	2.081	0	5.470	-2	2028	40	1.9
45668.9	10000	41.2018	93.8282	-952	QKA	2.5	0	7.5	1	1.3	2	0.336	0	1.891	-1	5.635	-1	2021	45	1.9
45669.0	10000	41.2018	93.8274	-953	QKA	2.3	0	7.7	1	1.3	2	0.300	-1	1.697	-1	5.652	-1	2013	44	1.9
45669.1	10000	41.2018	93.8265	-955	QKA	2.3	0	7.6	1	1.3	2	0.299	-1	1.693	-1	5.665	-1	1988	45	1.9
45669.2	10000	41.2019	93.8256	-956	QKA	2.2	0	7.4	0	1.3	2	0.300	-1	1.659	-1	5.531	-1	1928	39	1.9
45669.3	10000	41.2019	93.8247	-957	QKA	2.2	0	7.3	0	1.3	2	0.301	-1	1.702	-1	5.656	-1	1898	42	1.9
45669.4	10000	41.2019	93.8238	-959	QKA	2.3	0	7.4	0	1.3	2	0.316	0	1.914	-1	6.048	-1	1879	56	1.9
45669.5	10000	41.2019	93.8229	-961	QKA	2.2	0	7.4	0	1.2	1	0.300	-1	1.884	-1	6.274	-1	1859	49	1.9
45669.6	10000	41.2019	93.8220	-962	QKA	2.2	0	7.2	0	1.2	1	0.303	0	1.809	-1	5.965	-1	1854	50	1.9

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45669.7	10000	41.2019	93.8211	-962	QKA	2.1	-1	7.0	0	1.2	1	0.300	-1	1.674	-1	5.585	-1	1871	45	1.9
45669.8	10000	41.2019	93.8203	-965	QKA	2.3	0	7.2	0	1.3	1	0.313	0	1.782	-1	5.688	-1	1884	41	1.9
45669.9	10000	41.2020	93.8194	-967	QKA	2.5	0	7.3	0	1.2	1	0.339	0	1.989	-1	5.868	-1	1915	56	2.0
45670.0	10000	41.2020	93.8185	-969	QKA	2.6	0	7.2	0	1.3	1	0.358	0	2.017	0	5.633	-1	1928	49	2.0
45670.1	10000	41.2020	93.8176	-971	QKA	2.6	0	7.0	0	1.3	1	0.367	0	2.033	0	5.538	-1	1926	48	2.0
45670.2	10000	41.2020	93.8167	-972	QKA	2.8	1	7.2	0	1.2	1	0.391	1	2.316	0	5.926	-1	1925	43	2.0
45670.3	10000	41.2020	93.8158	-974	QKA	2.9	1	7.3	0	1.2	1	0.394	1	2.427	0	6.156	-1	1909	46	2.0
45670.4	10000	41.2020	93.8149	-977	QKA	3.0	1	7.1	0	1.1	0	0.426	1	2.704	1	6.348	0	1874	35	2.0
45670.5	10000	41.2021	93.8140	-979	QKA	2.9	1	7.0	0	1.1	0	0.423	1	2.687	1	6.356	0	1865	37	2.0
45670.6	10000	41.2021	93.8131	-982	QKA	2.8	1	6.8	0	1.0	0	0.412	1	2.680	1	6.509	0	1828	43	2.0
45670.7	10000	41.2021	93.8122	-985	QKA	2.7	1	6.8	0	1.0	0	0.388	1	2.541	1	6.551	0	1816	44	2.0
45670.8	10000	41.2021	93.8114	-987	QKA	2.8	1	6.8	0	1.1	0	0.413	1	2.682	1	6.496	0	1796	50	2.0
45670.9	10000	41.2021	93.8105	-987	QKA	2.8	1	6.5	-1	1.0	0	0.433	1	2.740	1	6.321	0	1791	44	2.0
45671.0	10000	41.2021	93.8096	-987	QKA	2.6	0	6.7	-1	1.0	-1	0.394	1	2.663	1	6.758	0	1781	64	2.0
45671.1	10000	41.2021	93.8087	-988	QKA	2.7	1	7.2	0	1.0	0	0.368	0	2.597	1	7.048	0	1807	39	2.0
45671.2	10000	41.2022	93.8078	-989	QKA	2.7	1	7.1	0	1.0	0	0.372	0	2.546	1	6.847	0	1827	48	2.0
45671.3	10000	41.2022	93.8069	-991	QKA	2.5	0	7.5	1	1.1	0	0.332	0	2.259	0	6.810	0	1854	43	2.0
45671.4	10000	41.2022	93.8060	-993	QKA	2.5	0	7.6	1	1.1	0	0.330	0	2.247	0	6.800	0	1865	44	2.0
45671.5	10000	41.2022	93.8051	-994	QKA	2.3	0	7.9	1	1.2	1	0.287	-1	1.924	-1	6.704	0	1894	54	2.0
45671.6	10000	41.2022	93.8042	-997	QKA	1.9	-1	8.2	1	1.2	1	0.232	-2	1.581	-1	6.820	0	1907	42	2.0
45671.7	10000	41.2023	93.8033	-999	QKA	2.0	-1	8.0	1	1.2	1	0.248	-1	1.612	-1	6.510	0	1927	42	2.0
45671.8	10000	41.2023	93.8025	-1000	QKA	2.1	-1	8.0	1	1.2	1	0.259	-1	1.713	-1	6.613	0	1923	48	2.0
45671.9	10000	41.2023	93.8016	-1002	QKA	2.2	0	7.8	1	1.2	1	0.279	-1	1.807	-1	6.487	0	1887	49	2.0
45672.0	10000	41.2023	93.8007	-1003	QKA	2.3	0	7.9	1	1.2	1	0.287	-1	1.955	-1	6.800	0	1871	34	2.0
45672.1	10000	41.2023	93.7998	-1006	QKA	2.4	0	8.0	1	1.1	0	0.300	-1	2.106	0	7.018	0	1859	54	2.0
45672.2	10000	41.2023	93.7989	-1008	QKA	2.4	0	7.9	1	1.1	0	0.305	0	2.204	0	7.234	1	1823	37	2.0
45672.3	10000	41.2023	93.7980	-1010	QKA	2.8	1	7.5	0	1.1	0	0.375	1	2.602	1	6.946	0	1810	50	2.0
45672.4	10000	41.2024	93.7971	-1012	QKA	2.8	1	7.4	0	1.1	0	0.383	1	2.623	1	6.856	0	1790	52	2.0
45672.5	10000	41.2024	93.7962	-1014	QKA	2.6	0	7.1	0	1.0	0	0.364	1	2.485	0	6.827	0	1774	42	2.0
45672.6	10000	41.2024	93.7953	-1016	QKA	2.4	0	7.2	0	1.0	0	0.334	0	2.340	0	7.004	0	1785	47	2.0
45672.7	10000	41.2024	93.7945	-1019	QKA	2.4	0	6.5	-1	1.1	0	0.366	1	2.253	0	6.151	-1	1792	48	2.0
45672.8	10000	41.2024	93.7936	-1020	QKA	2.3	0	6.1	-1	1.0	-1	0.378	1	2.342	0	6.190	-1	1772	48	1.9
45672.9	10000	41.2024	93.7927	-1022	QKA	2.6	0	6.1	-1	1.0	-1	0.425	1	2.686	1	6.317	0	1793	44	1.9
45673.0	10000	41.2025	93.7918	-1024	QKA	2.5	0	6.1	-1	0.9	-1	0.416	1	2.726	1	6.555	0	1797	38	1.9
45673.1	10000	41.2025	93.7909	-1027	QKA	2.7	1	6.6	-1	0.9	-2	0.407	1	3.080	2	7.573	1	1797	32	1.9
45673.2	10000	41.2025	93.7900	-1029	QKA	2.8	1	6.7	-1	0.9	-1	0.416	1	3.071	2	7.377	1	1794	42	1.9
45673.3	10000	41.2025	93.7891	-1031	QKA	2.7	1	6.6	-1	0.9	-1	0.418	1	3.078	2	7.372	1	1780	45	1.9
45673.4	10000	41.2025	93.7882	-1033	QKA	2.5	0	6.8	0	0.9	-1	0.374	1	2.831	1	7.577	1	1761	37	1.9
45673.5	10000	41.2025	93.7874	-1036	QKA	2.5	0	6.9	0	1.0	-1	0.361	0	2.596	1	7.192	1	1789	45	1.9
45673.6	10000	41.2025	93.7865	-1038	QKA	2.3	0	6.5	-1	1.0	-1	0.363	0	2.388	1	6.588	0	1796	46	1.9
45673.7	10000	41.2026	93.7856	-1040	QKA	2.1	-1	6.7	-1	1.0	0	0.310	0	2.043	0	6.596	0	1798	39	1.9
45673.8	10000	41.2026	93.7847	-1043	QKA	2.3	0	6.6	-1	1.1	0	0.346	0	2.084	0	6.025	-1	1824	42	1.9
45673.9	10000	41.2026	93.7838	-1046	QKA	2.3	0	7.2	0	1.0	0	0.327	0	2.249	0	6.879	0	1845	36	1.9
45674.0	10000	41.2026	93.7829	-1049	QKA	2.6	0	7.2	0	1.0	0	0.357	0	2.490	0	6.968	0	1853	39	1.9
45674.1	10000	41.2026	93.7820	-1051	QKA	2.6	1	7.1	0	1.1	0	0.375	1	2.420	0	6.460	0	1853	55	1.9
45674.2	10000	41.2026	93.7811	-1054	QKA	2.6	0	7.0	0	1.1	0	0.373	1	2.412	0	6.460	0	1831	44	1.9
45674.3	10000	41.2027	93.7802	-1057	QKA	2.4	0	7.4	0	1.1	0	0.323	0	2.204	0	6.817	0	1823	49	1.9
45674.4	10000	41.2027	93.7793	-1060	QKA	2.4	0	7.2	0	1.1	0	0.340	0	2.295	0	6.743	0	1816	36	1.9
45674.5	10000	41.2027	93.7785	-1062	QKA	2.1	-1	7.2	0	1.1	0	0.289	-1	1.948	-1	6.739	0	1800	50	1.9
45674.6	10000	41.2027	93.7776	-1065	QKA	1.9	-1	6.3	-1	1.1	0	0.300	-1	1.659	-1	5.526	-1	1768	42	1.9
45674.7	10000	41.2027	93.7768	-1067	QKA	1.6	-2	6.5	-1	1.1	0	0.255	-1	1.449	-2	5.671	-1	1744	45	1.9
45674.8	10000	41.2027	93.7760	-1071	QKA	1.7	-1	6.6	-1	1.1	0	0.264	-1	1.641	-1	6.224	-1	1726	41	1.9

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45674.9	10000	41.2027	93.7752	-1071	QKA	1.7	-2	6.7	-1	1.0	0	0.249	-1	1.609	-1	6.454	0	1703	52	1.9
45675.0	10000	41.2027	93.7744	-1073	QKA	1.8	-1	6.3	-1	1.0	0	0.282	-1	1.722	-1	6.101	-1	1680	36	1.9
45675.1	10000	41.2027	93.7736	-1075	QKA	1.9	-1	6.2	-1	1.1	0	0.303	-1	1.794	-1	5.919	-1	1680	39	1.9
45675.2	10000	41.2026	93.7728	-1077	QKA	2.0	-1	6.2	-1	1.0	-1	0.319	0	1.980	-1	6.199	-1	1680	44	1.9
45675.3	10000	41.2026	93.7720	-1079	QKA	2.0	-1	6.6	-1	1.0	0	0.306	0	1.972	-1	6.452	0	1720	42	1.9
45675.4	10000	41.2026	93.7713	-1080	QKA	2.1	-1	6.6	-1	1.0	0	0.314	0	1.977	-1	6.299	0	1745	42	1.9
45675.5	10000	41.2026	93.7705	-1081	QKA	2.0	-1	6.4	-1	1.0	0	0.306	0	1.883	-1	6.162	-1	1759	41	1.9
45675.6	10000	41.2026	93.7697	-1082	QKA	1.9	-1	6.6	-1	1.1	0	0.289	-1	1.767	-1	6.122	-1	1769	33	1.9
45675.7	10000	41.2026	93.7689	-1084	QKA	2.0	-1	7.1	0	1.1	0	0.282	-1	1.887	-1	6.687	0	1772	43	1.9
45675.8	10000	41.2026	93.7681	-1086	QKA	2.0	-1	7.0	0	1.0	-1	0.283	-1	2.006	0	7.087	0	1748	36	1.9
45675.9	10000	41.2026	93.7673	-1087	QKA	2.0	-1	6.9	0	1.0	-1	0.294	-1	2.032	0	6.920	0	1722	41	1.9
45676.0	10000	41.2026	93.7665	-1088	QKA	2.1	-1	6.8	-1	0.9	-1	0.308	0	2.313	0	7.513	1	1672	41	1.9
45676.1	10000	41.2026	93.7657	-1090	QKA	2.1	-1	6.6	-1	0.8	-2	0.322	0	2.613	1	8.111	2	1648	53	1.8
45676.2	10000	41.2025	93.7650	-1091	QKA	2.2	0	7.0	0	0.8	-2	0.316	0	2.631	1	8.335	2	1635	33	1.8
45676.3	10000	41.2025	93.7642	-1092	QKA	2.2	0	7.4	0	0.8	-2	0.300	-1	2.643	1	8.821	3	1646	51	1.8
45676.4	10000	41.2025	93.7634	-1092	QKA	2.1	-1	7.5	0	0.8	-2	0.284	-1	2.560	1	9.011	3	1676	38	1.8
45676.5	10000	41.2025	93.7626	-1092	QKA	2.3	0	7.6	1	0.9	-2	0.299	-1	2.656	1	8.891	3	1707	48	1.8
45676.6	10000	41.2025	93.7618	-1093	QKA	2.3	0	7.4	0	0.9	-1	0.314	0	2.524	1	8.034	2	1741	39	1.8
45676.7	10000	41.2025	93.7610	-1092	QKA	2.4	0	7.5	1	1.0	-1	0.323	0	2.481	0	7.674	1	1777	45	1.8
45676.8	10000	41.2025	93.7602	-1092	QKA	2.3	0	7.5	0	1.1	0	0.303	0	2.087	0	6.882	0	1804	37	1.8
45676.9	10000	41.2025	93.7594	-1090	QKA	2.5	0	7.3	0	1.1	0	0.342	0	2.276	0	6.660	0	1853	52	1.8
45677.0	10000	41.2025	93.7586	-1091	QKA	2.8	1	7.0	0	1.2	1	0.400	1	2.443	0	6.111	-1	1888	45	1.8
45677.1	10000	41.2025	93.7579	-1092	QKA	2.7	1	7.2	0	1.2	1	0.376	1	2.205	0	5.867	-1	1905	51	1.8
45677.2	10000	41.2025	93.7571	-1093	QKA	2.6	0	7.3	0	1.3	2	0.351	0	1.982	-1	5.650	-1	1931	37	1.8
45677.3	10000	41.2024	93.7563	-1093	QKA	2.4	0	7.2	0	1.3	2	0.331	0	1.784	-1	5.388	-2	1946	51	1.8
45677.4	10000	41.2024	93.7555	-1093	QKA	2.1	-1	7.0	0	1.4	2	0.304	0	1.581	-1	5.203	-2	1948	35	1.8
45677.5	10000	41.2024	93.7547	-1093	QKA	2.2	0	7.4	0	1.3	2	0.299	-1	1.656	-1	5.540	-1	1948	34	1.8
45677.6	10000	41.2024	93.7539	-1091	QKA	2.0	-1	7.4	0	1.3	2	0.264	-1	1.460	-2	5.526	-1	1937	55	1.8
45677.7	10000	41.2024	93.7531	-1086	QKA	1.8	-1	7.3	0	1.3	2	0.252	-1	1.397	-2	5.542	-1	1929	51	1.8
45677.8	10000	41.2024	93.7523	-1080	QKA	1.8	-1	7.2	0	1.3	2	0.248	-1	1.365	-2	5.501	-1	1924	49	1.8
45677.9	10000	41.2024	93.7515	-1079	QKA	1.7	-1	7.2	0	1.3	2	0.236	-1	1.297	-2	5.500	-1	1922	38	1.8
45678.0	10000	41.2024	93.7508	-1084	QKA	1.7	-1	8.0	1	1.2	1	0.214	-2	1.408	-2	6.579	0	1915	43	1.8
45678.1	10000	41.2024	93.7500	-1089	QKA	2.0	-1	8.0	1	1.2	1	0.250	-1	1.712	-1	6.836	0	1908	47	1.8
45678.2	10000	41.2024	93.7492	-1091	QKA	2.0	-1	7.7	1	1.2	1	0.260	-1	1.710	-1	6.569	0	1898	54	1.8
45678.3	10000	41.2023	93.7484	-1090	QKA	2.1	-1	7.6	1	1.2	1	0.281	-1	1.847	-1	6.565	0	1879	39	1.8
45678.4	10000	41.2023	93.7476	-1090	QKA	2.1	-1	7.5	1	1.1	1	0.283	-1	1.857	-1	6.555	0	1864	35	1.8
45678.5	10000	41.2023	93.7468	-1089	QKA	2.6	0	7.4	0	1.1	1	0.352	0	2.371	0	6.744	0	1853	40	1.8
45678.6	10000	41.2023	93.7460	-1087	QKA	2.8	1	7.1	0	1.1	1	0.402	1	2.662	1	6.618	0	1848	44	1.8
45678.7	10000	41.2023	93.7452	-1084	QKA	3.1	1	6.1	-1	1.1	1	0.507	2	2.850	1	5.620	-1	1834	50	1.7
45678.8	10000	41.2023	93.7444	-1082	QKA	3.2	2	5.9	-2	1.1	1	0.545	3	2.956	1	5.423	-2	1820	44	1.7
45678.9	10000	41.2023	93.7437	-1082	QKA	3.4	2	6.0	-2	1.0	1	0.564	3	3.298	2	5.850	-1	1796	43	1.7
45679.0	10000	41.2023	93.7429	-1084	QKA	3.3	2	6.0	-1	1.0	0	0.551	3	3.410	2	6.184	-1	1780	53	1.7
45679.1	10000	41.2023	93.7421	-1084	QKA	3.5	2	6.2	-1	0.9	-1	0.563	3	3.954	3	7.027	0	1767	34	1.7
45679.2	10000	41.2023	93.7413	-1084	QKA	3.3	2	6.1	-1	0.8	-2	0.538	3	3.920	3	7.288	1	1737	47	1.7
45679.3	10000	41.2023	93.7405	-1083	QKA	3.0	1	6.7	-1	0.8	-2	0.452	2	3.879	3	8.583	2	1697	42	1.7
45679.4	10000	41.2022	93.7397	-1083	QKA	2.9	1	7.1	0	0.8	-2	0.402	1	3.789	3	9.426	3	1679	31	1.7
45679.5	10000	41.2022	93.7389	-1082	QKA	2.6	0	7.1	0	0.8	-2	0.373	1	3.368	2	9.040	3	1679	50	1.7
45679.6	10000	41.2022	93.7381	-1082	QKA	2.4	0	7.2	0	0.8	-2	0.339	0	3.186	2	9.410	3	1700	44	1.7
45679.7	10000	41.2022	93.7374	-1081	QKA	2.4	0	7.1	0	0.8	-2	0.346	0	2.886	1	8.336	2	1706	37	1.7
45679.8	10000	41.2022	93.7366	-1079	QKA	2.5	0	6.8	0	0.9	-1	0.368	0	2.724	1	7.396	1	1719	40	1.7
45679.9	10000	41.2022	93.7358	-1079	QKA	2.5	0	6.7	-1	1.0	-1	0.378	0	2.601	1	6.883	0	1755	49	1.7
45680.0	10000	41.2022	93.7350	-1077	QKA	2.6	0	6.3	-1	1.0	0	0.417	1	2.607	1	6.253	-1	1755	45	1.7

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45680.1	10000	41.2022	93.7342	-1076	QKA	2.7	1	6.2	-1	1.0	0	0.443	2	2.687	1	6.073	-1	1752	44	1.7
45680.2	10000	41.2022	93.7334	-1075	QKA	2.6	0	6.1	-1	1.0	-1	0.423	1	2.603	1	6.153	-1	1756	43	1.7
45680.3	10000	41.2021	93.7326	-1073	QKA	2.7	1	5.6	-2	1.0	0	0.484	2	2.607	1	5.382	-2	1738	57	1.7
45680.4	10000	41.2021	93.7318	-1072	QKA	2.7	1	5.8	-2	1.0	-1	0.458	2	2.673	1	5.832	-1	1739	40	1.7
45680.5	10000	41.2021	93.7310	-1072	QKA	2.4	0	5.9	-2	0.9	-1	0.401	1	2.492	0	6.211	-1	1718	50	1.7
45680.6	10000	41.2021	93.7303	-1072	QKA	2.2	0	6.0	-1	0.9	-1	0.359	0	2.439	0	6.802	0	1679	52	1.7
45680.7	10000	41.2021	93.7295	-1071	QKA	2.3	0	6.0	-2	0.9	-2	0.381	1	2.669	1	7.002	0	1684	49	1.7
45680.8	10000	41.2021	93.7287	-1070	QKA	2.1	-1	6.1	-1	0.9	-1	0.345	0	2.406	0	6.982	0	1702	42	1.7
45680.9	10000	41.2021	93.7279	-1069	QKA	2.2	0	6.3	-1	0.9	-1	0.348	0	2.421	0	6.964	0	1695	57	1.7
45681.0	10000	41.2021	93.7271	-1067	QKA	2.1	-1	6.9	0	0.9	-1	0.311	0	2.411	0	7.759	1	1713	37	1.7
45681.1	10000	41.2021	93.7263	-1066	QKA	2.3	0	7.1	0	0.9	-1	0.330	0	2.561	1	7.755	1	1729	41	1.7
45681.2	10000	41.2021	93.7255	-1065	QKA	2.6	0	7.1	0	1.0	-1	0.362	0	2.656	1	7.328	1	1758	44	1.7
45681.3	10000	41.2020	93.7247	-1064	QKA	2.6	0	7.0	0	1.0	0	0.377	1	2.599	1	6.887	0	1807	37	1.7
45681.4	10000	41.2020	93.7239	-1063	QKA	2.7	1	7.1	0	1.1	0	0.380	1	2.493	0	6.557	0	1829	37	1.7
45681.5	10000	41.2020	93.7232	-1061	QKA	2.7	1	7.3	0	1.1	0	0.363	0	2.386	0	6.570	0	1857	46	1.7
45681.6	10000	41.2020	93.7224	-1060	QKA	2.8	1	7.5	1	1.1	0	0.371	0	2.441	0	6.578	0	1883	49	1.7
45681.7	10000	41.2020	93.7216	-1059	QKA	2.9	1	7.3	0	1.2	1	0.393	1	2.454	0	6.239	-1	1886	47	1.7
45681.8	10000	41.2020	93.7208	-1059	QKA	2.8	1	7.1	0	1.1	0	0.399	1	2.484	0	6.221	-1	1877	41	1.7
45681.9	10000	41.2020	93.7200	-1057	QKA	2.8	1	6.9	0	1.1	0	0.396	1	2.505	1	6.319	0	1867	37	1.7
45682.0	10000	41.2020	93.7192	-1057	QKA	2.9	1	6.6	-1	1.1	0	0.437	1	2.571	1	5.884	-1	1846	37	1.7
45682.1	10000	41.2020	93.7184	-1055	QKA	2.8	1	6.7	-1	1.2	1	0.418	1	2.415	0	5.781	-1	1855	43	1.7
45682.2	10000	41.2020	93.7176	-1054	QKA	2.8	1	6.6	-1	1.2	1	0.423	1	2.409	0	5.691	-1	1842	49	1.8
45682.3	10000	41.2019	93.7168	-1053	QKA	2.9	1	6.9	0	1.1	0	0.425	1	2.596	1	6.112	-1	1851	42	1.8
45682.4	10000	41.2019	93.7161	-1051	QKA	2.9	1	7.1	0	1.1	0	0.407	1	2.555	1	6.283	-1	1864	44	1.8
45682.5	10000	41.2019	93.7153	-1050	QKA	2.8	1	7.3	0	1.2	1	0.380	1	2.333	0	6.139	-1	1881	43	1.8
45682.6	10000	41.2019	93.7145	-1049	QKA	3.0	1	7.4	0	1.2	1	0.402	1	2.479	0	6.167	-1	1895	32	1.8
45682.7	10000	41.2019	93.7137	-1048	QKA	2.9	1	7.9	1	1.2	1	0.368	0	2.508	1	6.813	0	1889	44	1.8
45682.8	10000	41.2019	93.7129	-1046	QKA	2.7	1	7.9	1	1.1	0	0.339	0	2.425	0	7.150	1	1859	59	1.8
45682.9	10000	41.2019	93.7121	-1046	QKA	2.7	1	8.0	1	1.0	0	0.340	0	2.635	1	7.753	1	1842	35	1.8
45683.0	10000	41.2019	93.7113	-1045	QKA	2.3	0	7.5	0	1.0	0	0.311	0	2.283	0	7.340	1	1819	41	1.8
45683.1	10000	41.2019	93.7105	-1044	QKA	2.5	0	7.3	0	1.0	-1	0.343	0	2.519	1	7.344	1	1810	53	1.8
45683.2	10000	41.2018	93.7097	-1043	QKA	2.7	1	7.4	0	1.0	-1	0.363	0	2.707	1	7.452	1	1794	36	1.8
45683.3	10000	41.2018	93.7090	-1042	QKA	2.4	0	7.4	0	1.0	-1	0.316	0	2.431	0	7.686	1	1767	36	1.8
45683.4	10000	41.2018	93.7082	-1042	QKA	2.2	0	7.5	1	1.0	-1	0.293	-1	2.223	0	7.582	1	1784	52	1.8
45683.5	10000	41.2018	93.7074	-1041	QKA	2.5	0	7.9	1	1.0	-1	0.320	0	2.535	1	7.935	2	1801	48	1.8
45683.6	10000	41.2018	93.7066	-1040	QKA	2.7	1	7.9	1	1.0	-1	0.339	0	2.777	1	8.194	2	1821	45	1.8
45683.7	10000	41.2018	93.7058	-1039	QKA	2.8	1	7.9	1	1.0	-1	0.353	0	2.837	1	8.030	2	1817	45	1.8
45683.8	10000	41.2018	93.7050	-1038	QKA	2.7	1	7.7	1	1.0	0	0.346	0	2.584	1	7.464	1	1798	37	1.8
45683.9	10000	41.2018	93.7042	-1038	QKA	2.4	0	7.5	0	1.0	-1	0.320	0	2.438	0	7.626	1	1774	48	1.8
45684.0	10000	41.2018	93.7034	-1037	QKA	2.6	0	7.3	0	1.0	-1	0.353	0	2.602	1	7.368	1	1771	44	1.8
45684.1	10000	41.2018	93.7027	-1038	QKA	2.7	1	6.8	0	1.0	-1	0.392	1	2.696	1	6.879	0	1751	38	1.8
45684.2	10000	41.2018	93.7019	-1037	QKA	2.5	0	6.3	-1	1.0	-1	0.402	1	2.548	1	6.334	0	1757	46	1.8
45684.3	10000	41.2017	93.7011	-1037	QKA	2.3	0	5.7	-2	1.1	0	0.407	1	2.160	0	5.307	-2	1740	55	1.8
45684.4	10000	41.2017	93.7003	-1038	QKA	2.3	0	5.9	-2	1.1	0	0.398	1	2.197	0	5.524	-1	1736	64	1.8
45684.5	10000	41.2017	93.6995	-1038	QKA	2.2	0	6.0	-2	1.0	0	0.371	0	2.185	0	5.887	-1	1733	44	1.8
45684.6	10000	41.2017	93.6987	-1038	QKA	2.3	0	6.0	-1	1.0	-1	0.386	1	2.319	0	6.015	-1	1743	38	1.8
45684.7	10000	41.2017	93.6979	-1039	QKA	2.4	0	6.1	-1	1.0	-1	0.391	1	2.517	1	6.436	0	1756	47	1.8
45684.8	10000	41.2017	93.6971	-1039	QKA	2.3	0	6.3	-1	0.9	-1	0.360	0	2.460	0	6.839	0	1759	51	1.8
45684.9	10000	41.2017	93.6964	-1041	QKA	2.3	0	6.7	-1	0.9	-1	0.340	0	2.567	1	7.547	1	1736	46	1.9
45685.0	10000	41.2017	93.6956	-1042	QKA	2.7	1	6.5	-1	0.8	-2	0.417	0	3.240	2	7.772	1	1730	39	1.9
45685.1	10000	41.2017	93.6948	-1042	QKA	2.8	1	6.1	-1	0.8	-2	0.461	2	3.467	2	7.524	1	1728	42	1.9
45685.2	10000	41.2016	93.6940	-1043	QKA	3.0	1	6.1	-1	0.8	-2	0.494	2	3.799	3	7.685	1	1729	45	1.9

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45685.3	10000	41.2016	93.6932	-1044	QKA	2.9	1	6.6	-1	0.9	-1	0.439	1	3.315	2	7.560	1	1751	49	1.9
45685.4	10000	41.2016	93.6924	-1046	QKA	2.9	1	6.7	-1	1.0	-1	0.428	1	2.989	1	6.976	0	1775	52	1.9
45685.5	10000	41.2016	93.6916	-1047	QKA	2.9	1	7.0	0	1.0	0	0.415	1	2.815	1	6.792	0	1814	47	1.9
45685.6	10000	41.2016	93.6908	-1049	QKA	3.1	1	7.0	0	1.1	0	0.442	2	2.781	1	6.295	0	1869	53	1.9
45685.7	10000	41.2016	93.6900	-1051	QKA	3.0	1	7.7	1	1.2	1	0.393	1	2.621	1	6.675	0	1924	31	1.9
45685.8	10000	41.2016	93.6893	-1052	QKA	3.2	2	8.1	1	1.2	1	0.389	1	2.654	1	6.828	0	1968	54	1.9
45685.9	10000	41.2016	93.6885	-1054	QKA	3.0	1	8.1	1	1.2	1	0.374	1	2.456	0	6.564	0	2013	46	1.9
45686.0	10000	41.2016	93.6877	-1055	QKA	3.3	2	8.0	1	1.3	1	0.411	1	2.617	1	6.363	0	2040	41	1.9
45686.1	10000	41.2015	93.6869	-1057	QKA	3.3	2	8.3	1	1.3	1	0.402	1	2.591	1	6.452	0	2066	55	1.9
45686.2	10000	41.2015	93.6861	-1059	QKA	3.5	2	8.0	1	1.2	1	0.443	2	2.911	1	6.566	0	2064	33	1.9
45686.3	10000	41.2015	93.6853	-1061	QKA	3.3	2	8.0	1	1.2	1	0.417	1	2.750	1	6.600	0	2057	44	1.9
45686.4	10000	41.2015	93.6845	-1063	QKA	3.2	2	7.9	1	1.2	1	0.403	1	2.575	1	6.396	0	2058	50	1.9
45686.5	10000	41.2015	93.6837	-1064	QKA	2.9	1	7.6	1	1.2	1	0.377	1	2.300	0	6.100	-1	2051	56	1.9
45686.6	10000	41.2015	93.6829	-1066	QKA	2.9	1	7.8	1	1.3	1	0.370	0	2.275	0	6.157	-1	2044	61	1.9
45686.7	10000	41.2015	93.6822	-1067	QKA	2.7	1	7.8	1	1.2	1	0.342	0	2.209	0	6.455	0	2028	51	1.9
45686.8	10000	41.2015	93.6814	-1069	QKA	2.5	0	7.6	1	1.2	1	0.334	0	2.189	0	6.551	0	1994	46	1.9
45686.9	10000	41.2015	93.6806	-1071	QKA	2.3	0	7.5	1	1.2	1	0.304	0	1.954	-1	6.417	0	1971	36	1.9
45687.0	10000	41.2015	93.6798	-1073	QKA	2.2	0	7.5	0	1.2	1	0.295	-1	1.899	-1	6.431	0	1935	52	1.9
45687.1	10000	41.2014	93.6790	-1075	QKA	2.0	-1	7.4	0	1.1	0	0.273	-1	1.796	-1	6.580	0	1884	47	1.9
45687.2	10000	41.2014	93.6782	-1076	QKA	2.1	-1	7.2	0	1.1	0	0.290	-1	1.888	-1	6.505	0	1855	48	1.9
45687.3	10000	41.2014	93.6774	-1078	QKA	1.9	-1	7.5	0	1.1	0	0.258	-1	1.755	-1	6.790	0	1829	42	1.9
45687.4	10000	41.2014	93.6766	-1079	QKA	1.8	-1	7.0	0	1.1	0	0.256	-1	1.633	-1	6.380	0	1802	30	1.9
45687.5	10000	41.2014	93.6758	-1080	QKA	1.5	-2	6.9	0	1.1	0	0.225	-2	1.447	-2	6.427	0	1786	47	1.9
45687.6	10000	41.2014	93.6750	-1081	QKA	1.6	-2	6.8	0	1.1	0	0.233	-2	1.464	-2	6.289	0	1767	54	1.9
45687.7	10000	41.2014	93.6743	-1082	QKA	1.6	-2	6.8	0	1.1	0	0.229	-2	1.469	-2	6.416	0	1773	45	1.9
45687.8	10000	41.2014	93.6735	-1083	QKA	1.6	-2	6.9	0	1.1	0	0.237	-1	1.529	-1	6.460	0	1770	45	1.9
45687.9	10000	41.2014	93.6727	-1083	QKA	1.7	-1	7.3	0	1.0	0	0.240	-1	1.678	-1	7.002	0	1775	45	1.9
45688.0	10000	41.2014	93.6719	-1083	QKA	1.9	-1	6.7	0	1.0	0	0.277	-1	1.783	-1	6.427	0	1791	53	1.9
45688.1	10000	41.2013	93.6711	-1084	QKA	2.0	-1	7.2	0	1.0	0	0.284	-1	1.937	-1	6.824	0	1822	40	1.9
45688.2	10000	41.2013	93.6703	-1084	QKA	2.1	-1	7.4	0	1.1	0	0.287	-1	1.976	-1	6.881	0	1835	41	1.9
45688.3	10000	41.2013	93.6695	-1084	QKA	2.2	0	7.5	1	1.0	0	0.289	-1	2.104	0	7.293	1	1853	43	1.9
45688.4	10000	41.2013	93.6687	-1085	QKA	2.3	0	7.7	1	1.0	0	0.302	-1	2.253	0	7.452	1	1863	35	1.9
45688.5	10000	41.2013	93.6679	-1086	QKA	2.4	0	7.5	1	1.1	0	0.319	0	2.196	0	6.884	0	1886	46	1.9
45688.6	10000	41.2013	93.6670	-1087	QKA	2.3	0	7.4	1	1.1	0	0.309	0	2.125	0	6.885	0	1887	47	1.9
45688.7	10000	41.2013	93.6662	-1087	QKA	2.5	0	7.8	1	1.1	0	0.323	0	2.341	0	7.252	1	1874	49	1.9
45688.8	10000	41.2013	93.6653	-1087	QKA	2.6	0	7.5	1	1.1	0	0.341	0	2.390	0	7.009	0	1846	52	1.9
45688.9	10000	41.2013	93.6644	-1087	QKA	2.7	1	7.4	1	1.1	0	0.360	0	2.444	0	6.793	0	1834	38	1.9
45689.0	10000	41.2013	93.6636	-1087	QKA	2.8	1	7.2	1	1.1	0	0.389	1	2.578	1	6.618	0	1803	47	1.9
45689.1	10000	41.2013	93.6627	-1088	QKA	2.8	1	7.0	1	1.1	0	0.400	1	2.636	1	6.582	0	1777	36	1.9
45689.2	10000	41.2013	93.6618	-1088	QKA	2.7	1	7.0	1	1.0	0	0.381	1	2.626	1	6.894	0	1748	54	1.9
45689.3	10000	41.2013	93.6610	-1089	QKA	2.6	0	6.6	-1	1.1	0	0.386	1	2.433	1	6.296	0	1726	32	1.9
45689.4	10000	41.2013	93.6601	-1089	QKA	2.2	0	6.3	-1	1.0	0	0.353	0	2.289	0	6.476	0	1701	48	1.9
45689.5	10000	41.2013	93.6593	-1089	QKA	2.2	0	6.5	-1	1.0	-1	0.336	0	2.175	0	6.472	0	1681	46	1.9
45689.6	10000	41.2013	93.6584	-1090	QKA	1.9	-1	6.1	-1	1.0	-1	0.305	-1	1.954	-1	6.405	0	1673	58	1.9
45689.7	10000	41.2013	93.6575	-1090	QKA	1.8	-1	6.2	-1	1.0	-1	0.294	-1	1.859	-1	6.328	0	1693	49	1.9
45689.8	10000	41.2013	93.6567	-1091	QKA	1.9	-1	6.2	-1	1.0	-1	0.302	-1	1.927	-1	6.376	0	1699	38	1.9
45689.9	10000	41.2013	93.6558	-1091	QKA	1.9	-1	6.4	-1	1.0	-1	0.301	-1	1.933	-1	6.422	0	1727	44	1.9
45690.0	10000	41.2013	93.6549	-1091	QKA	2.0	-1	6.6	-1	1.0	-1	0.305	0	2.106	0	6.899	0	1760	43	1.9
45690.1	10000	41.2013	93.6541	-1091	QKA	2.1	-1	6.8	-1	1.0	-1	0.314	0	2.139	0	6.818	0	1808	34	1.9
45690.2	10000	41.2013	93.6532	-1091	QKA	2.1	-1	6.6	-1	1.0	-1	0.313	0	2.087	0	6.663	0	1846	38	1.9
45690.3	10000	41.2013	93.6523	-1091	QKA	2.4	0	7.0	0	1.0	-1	0.339	0	2.383	0	7.024	0	1875	51	1.9
45690.4	10000	41.2013	93.6515	-1091	QKA	2.3	0	7.2	0	1.0	0	0.314	0	2.219	0	7.071	0	1881	43	1.9

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45690.5	10000	41.2013	93.6506	-1091	QKA	2.0	-1	7.3	0	1.0	0	0.275	-1	1.920	-1	6.984	0	1893	48	1.9
45690.6	10000	41.2013	93.6498	-1091	QKA	2.5	0	7.1	0	1.0	0	0.347	0	2.458	0	7.076	0	1884	39	1.9
45690.7	10000	41.2013	93.6489	-1091	QKA	2.6	1	7.2	0	1.0	0	0.369	0	2.608	1	7.060	0	1862	46	1.9
45690.8	10000	41.2013	93.6480	-1091	QKA	2.6	0	7.4	0	1.0	0	0.348	0	2.515	1	7.225	1	1840	37	1.9
45690.9	10000	41.2013	93.6472	-1091	QKA	2.8	1	7.5	0	1.0	-1	0.370	0	2.809	1	7.594	1	1832	50	1.9
45691.0	10000	41.2013	93.6463	-1091	QKA	2.7	1	7.6	1	1.0	0	0.355	0	2.624	1	7.382	1	1827	50	1.9
45691.1	10000	41.2013	93.6454	-1091	QKA	2.7	1	7.7	1	1.1	0	0.346	0	2.473	0	7.137	1	1851	50	1.9
45691.2	10000	41.2013	93.6446	-1090	QKA	2.8	1	7.5	1	1.1	1	0.368	0	2.420	0	6.572	0	1888	51	1.9
45691.3	10000	41.2013	93.6437	-1090	QKA	2.2	0	7.7	1	1.2	1	0.291	-1	1.822	-1	6.253	-1	1920	56	2.0
45691.4	10000	41.2013	93.6429	-1090	QKA	2.1	-1	8.0	1	1.3	2	0.257	-1	1.567	-1	6.089	-1	1955	51	2.0
45691.5	10000	41.2013	93.6420	-1089	QKA	2.2	0	7.9	1	1.4	2	0.277	-1	1.622	-1	5.853	-1	1992	46	2.0
45691.6	10000	41.2013	93.6411	-1089	QKA	2.1	-1	8.0	1	1.4	2	0.265	-1	1.502	-1	5.658	-1	2018	53	2.0
45691.7	10000	41.2013	93.6403	-1088	QKA	2.0	-1	8.0	1	1.4	2	0.247	-1	1.398	-2	5.669	-1	2031	47	2.0
45691.8	10000	41.2013	93.6394	-1088	QKA	2.2	0	7.9	1	1.4	2	0.274	-1	1.598	-1	5.833	-1	2026	41	2.0
45691.9	10000	41.2013	93.6385	-1088	QKA	2.1	-1	7.8	1	1.3	2	0.275	-1	1.613	-1	5.856	-1	2006	45	2.0
45692.0	10000	41.2013	93.6377	-1088	QKA	2.4	0	7.6	1	1.2	1	0.314	0	1.923	-1	6.129	-1	1985	50	2.0
45692.1	10000	41.2013	93.6368	-1087	QKA	2.5	0	7.3	0	1.1	0	0.345	0	2.254	0	6.531	0	1956	52	2.0
45692.2	10000	41.2013	93.6360	-1087	QKA	2.3	0	7.1	0	1.1	0	0.329	0	2.140	0	6.504	0	1924	49	2.0
45692.3	10000	41.2013	93.6351	-1086	QKA	2.5	0	7.0	0	1.1	0	0.353	0	2.299	0	6.508	0	1902	47	2.0
45692.4	10000	41.2013	93.6342	-1085	QKA	2.8	1	6.8	-1	1.1	0	0.422	1	2.697	1	6.389	0	1874	48	2.0
45692.5	10000	41.2013	93.6334	-1084	QKA	2.6	0	6.7	-1	1.0	0	0.386	1	2.467	0	6.391	0	1860	42	2.0
45692.6	10000	41.2013	93.6325	-1084	QKA	2.5	0	7.1	0	1.1	0	0.359	0	2.378	0	6.624	0	1870	46	2.0
45692.7	10000	41.2013	93.6316	-1083	QKA	2.5	0	7.6	1	1.1	0	0.323	0	2.235	0	6.932	0	1890	57	2.0
45692.8	10000	41.2013	93.6308	-1082	QKA	2.7	1	7.5	0	1.2	1	0.360	0	2.278	0	6.323	0	1924	45	2.0
45692.9	10000	41.2013	93.6299	-1081	QKA	2.9	1	7.6	1	1.2	1	0.375	1	2.431	0	6.479	0	1953	51	2.0
45693.0	10000	41.2013	93.6290	-1080	QKA	2.8	1	7.8	1	1.2	1	0.363	0	2.394	0	6.587	0	1978	53	2.0
45693.1	10000	41.2013	93.6282	-1078	QKA	2.6	0	8.2	1	1.2	1	0.312	0	2.089	0	6.698	0	2004	42	2.0
45693.2	10000	41.2013	93.6273	-1078	QKA	2.7	1	8.3	1	1.3	2	0.324	0	2.103	0	6.493	0	2022	55	2.0
45693.3	10000	41.2013	93.6265	-1075	QKA	2.9	1	8.0	1	1.2	1	0.361	0	2.374	0	6.568	0	2023	47	2.0
45693.4	10000	41.2013	93.6256	-1074	QKA	2.9	1	7.6	1	1.2	1	0.379	0	2.347	-1	6.188	0	2015	52	2.0
45693.5	10000	41.2013	93.6247	-1072	QKA	2.6	1	8.1	1	1.2	1	0.316	0	2.097	0	6.633	0	2004	45	2.0
45693.6	10000	41.2013	93.6239	-1070	QKA	2.6	1	8.1	1	1.2	1	0.318	0	2.203	0	6.923	0	1977	54	2.0
45693.7	10000	41.2013	93.6230	-1068	QKA	2.4	1	7.6	1	1.2	1	0.320	0	2.108	0	6.588	0	1954	43	2.0
45693.8	10000	41.2013	93.6221	-1066	QKA	2.4	1	7.5	1	1.2	1	0.319	0	2.075	0	6.514	0	1951	35	2.0
45693.9	10000	41.2013	93.6213	-1063	QKA	2.3	1	7.6	1	1.1	1	0.306	0	2.076	0	6.794	0	1944	43	2.0
45694.0	10000	41.2013	93.6204	-1061	QKA	2.4	1	7.4	1	1.1	1	0.321	0	2.090	0	6.516	0	1937	39	2.0
45694.1	10000	41.2013	93.6196	-1059	QKA	2.3	1	7.4	1	1.1	1	0.308	0	1.995	-1	6.480	0	1926	53	2.0
45694.2	10000	41.2013	93.6187	-1056	QKA	2.2	1	7.3	1	1.1	1	0.306	0	2.086	0	6.819	0	1906	48	2.1
45694.3	10000	41.2013	93.6178	-1053	QKA	2.1	1	7.1	1	1.1	1	0.299	-1	1.907	-1	6.378	0	1885	38	2.1
45694.4	10000	41.2013	93.6170	-1051	QKA	2.3	1	7.1	1	1.1	1	0.317	0	2.131	0	6.717	0	1873	50	2.1
45694.5	10000	41.2013	93.6161	-1048	QKA	2.4	1	7.1	1	1.0	0	0.344	0	2.401	0	6.987	0	1842	58	2.1
45694.6	10000	41.2013	93.6152	-1045	QKA	2.6	1	7.0	1	1.0	0	0.372	0	2.604	0	7.009	0	1875	38	2.1
45694.7	10000	41.2013	93.6144	-1042	QKA	2.7	1	7.0	1	0.9	-1	0.384	0	2.847	1	7.421	0	1841	46	2.1
45694.8	10000	41.2013	93.6135	-1039	QKA	3.0	1	7.3	1	0.9	-1	0.408	0	3.205	1	7.862	0	1871	43	2.1
45694.9	10000	41.2013	93.6127	-1036	QKA	2.8	1	7.2	1	1.0	-1	0.458	0	3.187	1	6.956	0	1901	35	2.1
45695.0	10000	41.2013	93.6118	-1034	QKA	3.0	1	7.3	1	1.0	-1	0.473	0	3.441	1	7.281	1	1940	54	2.1
45695.1	10000	41.2013	93.6109	-1031	QKA	3.3	1	7.7	1	1.0	0	0.452	0	3.408	1	7.544	1	1955	34	2.1
45695.2	10000	41.2013	93.6101	-1029	QAL	3.2	1	7.5	1	1.1	0	0.443	0	3.040	1	6.858	1	1991	41	2.1
45695.3	10000	41.2013	93.6092	-1026	QAL	3.2	1	7.5	1	1.1	0	0.421	0	2.915	1	6.931	1	1997	40	2.1
45695.4	10000	41.2013	93.6083	-1023	QAL	3.1	1	7.6	1	1.1	0	0.413	0	2.726	1	6.604	1	1997	47	2.1
45695.5	10000	41.2013	93.6075	-1020	QAL	3.1	1	7.3	1	1.2	0	0.417	0	2.641	1	6.333	0	1983	44	2.1
45695.6	10000	41.2013	93.6066	-1019	QAL	2.9	1	7.2	1	1.2	1	0.399	0	2.449	0	6.135	0	1977	42	2.1

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45695.7	10000	41.2013	93.6057	-1016	QAL	2.6	0	7.0	0	1.2	1	0.374	0	2.217	0	5.925	0	1977	48	2.2
45695.8	10000	41.2013	93.6049	-1014	QAL	2.4	0	6.7	0	1.2	1	0.365	0	2.038	0	5.582	-1	1980	35	2.2
45695.9	10000	41.2013	93.6040	-1012	QAL	2.7	0	7.1	1	1.2	1	0.380	0	2.312	0	6.080	0	1959	55	2.2
45696.0	10000	41.2013	93.6032	-1011	QAL	2.8	1	6.9	0	1.1	0	0.402	0	2.432	0	6.055	0	1932	50	2.2
45696.1	10000	41.2013	93.6023	-1010	QAL	2.6	0	7.1	1	1.1	0	0.368	0	2.290	0	6.225	0	1911	49	2.2
45696.2	10000	41.2013	93.6014	-1009	QAL	2.7	1	6.9	0	1.1	0	0.397	0	2.511	0	6.324	0	1879	50	2.2
45696.3	10000	41.2013	93.6006	-1009	QAL	2.8	1	6.6	0	1.0	0	0.420	0	2.694	1	6.412	0	1835	40	2.2
45696.4	10000	41.2013	93.5997	-1008	QKA	2.9	1	6.6	-1	1.0	0	0.442	2	2.829	1	6.404	0	1782	50	2.2
45696.5	10000	41.2013	93.5988	-1008	QKA	2.8	1	6.7	-1	1.0	-1	0.420	1	2.870	1	6.833	0	1730	44	2.2
45696.6	10000	41.2013	93.5980	-1008	QKA	2.4	0	6.3	-1	1.0	-1	0.386	1	2.549	1	6.609	0	1698	38	2.2
45696.7	10000	41.2013	93.5971	-1008	QKA	2.4	0	6.0	-1	1.0	-1	0.399	1	2.394	0	6.007	-1	1681	57	2.2
45696.8	10000	41.2013	93.5963	-1008	QKA	2.3	0	6.2	-1	1.0	-1	0.382	1	2.344	0	6.144	-1	1674	49	2.2
45696.9	10000	41.2013	93.5954	-1009	QKA	2.2	0	5.9	-2	1.0	-1	0.368	0	2.216	0	6.024	-1	1670	49	2.2
45697.0	10000	41.2013	93.5945	-1010	QKA	2.2	0	6.3	-1	1.0	-1	0.355	0	2.242	0	6.316	0	1707	43	2.2
45697.1	10000	41.2013	93.5937	-1010	QKA	2.2	0	6.5	-1	1.0	0	0.337	0	2.156	0	6.393	0	1758	49	2.2
45697.2	10000	41.2013	93.5928	-1010	QKA	2.1	-1	6.7	-1	1.0	0	0.313	0	2.021	0	6.452	0	1800	44	2.2
45697.3	10000	41.2013	93.5919	-1012	QKA	2.3	0	6.9	0	1.1	0	0.337	0	2.070	0	6.147	-1	1848	43	2.2
45697.4	10000	41.2013	93.5911	-1013	QKA	2.3	0	7.1	0	1.1	0	0.319	0	2.047	0	6.421	0	1883	34	2.3
45697.5	10000	41.2013	93.5902	-1016	QKA	2.4	0	7.3	0	1.1	0	0.328	0	2.217	0	6.762	0	1891	45	2.3
45697.6	10000	41.2013	93.5894	-1019	QKA	2.2	0	7.7	1	1.1	0	0.283	-1	1.908	-1	6.739	0	1898	45	2.3
45697.7	10000	41.2013	93.5885	-1021	QKA	2.1	-1	7.8	1	1.1	0	0.271	-1	1.923	-1	7.106	1	1871	39	2.3
45697.8	10000	41.2013	93.5876	-1021	QKA	1.9	-1	7.5	0	1.0	0	0.256	-1	1.859	-1	7.268	1	1823	47	2.3
45697.9	10000	41.2013	93.5868	-1017	QKA	2.3	0	7.1	0	1.0	-1	0.317	0	2.266	0	7.151	1	1795	36	2.3
45698.0	10000	41.2013	93.5859	-1016	QKA	2.1	-1	7.3	0	0.9	-1	0.281	-1	2.193	0	7.798	1	1779	43	2.3
45698.1	10000	41.2013	93.5850	-1016	QKA	2.0	-1	7.3	0	0.9	-1	0.275	-1	2.203	0	8.022	2	1774	36	2.3
45698.2	10000	41.2013	93.5842	-1019	QKA	1.8	-1	7.2	0	1.0	-1	0.255	-1	1.901	-1	7.453	1	1787	41	2.3
45698.3	10000	41.2013	93.5833	-1021	QKA	1.9	-1	7.5	0	0.9	-1	0.258	-1	2.075	0	8.037	2	1803	31	2.3
45698.4	10000	41.2013	93.5824	-1022	QKA	1.8	-1	7.3	0	1.0	-1	0.248	-1	1.862	-1	7.509	1	1797	48	2.3
45698.5	10000	41.2013	93.5816	-1024	QKA	1.8	-1	7.3	0	1.0	0	0.254	-1	1.814	-1	7.135	1	1802	43	2.3
45698.6	10000	41.2013	93.5807	-1027	QKA	1.7	-1	7.2	0	1.0	0	0.235	-1	1.639	-1	6.972	1	1807	40	2.3
45698.7	10000	41.2013	93.5799	-1028	QKA	1.9	-1	7.2	0	1.0	0	0.262	-1	1.824	-1	6.960	1	1785	53	2.3
45698.8	10000	41.2013	93.5790	-1030	QKA	1.9	-1	7.4	0	1.1	0	0.253	-1	1.754	-1	6.923	1	1774	50	2.3
45698.9	10000	41.2013	93.5781	-1032	QKA	1.8	-1	7.2	0	1.0	0	0.243	-1	1.673	-1	6.881	1	1748	52	2.3
45699.0	10000	41.2013	93.5773	-1034	QKA	1.7	-1	6.6	-1	1.0	0	0.259	-1	1.627	-1	6.289	0	1725	52	2.3
45699.1	10000	41.2013	93.5764	-1036	QKA	1.7	-1	6.7	-1	1.0	0	0.250	-1	1.701	-1	6.806	0	1716	43	2.3
45699.2	10000	41.2013	93.5755	-1038	QKA	1.8	-1	6.9	0	0.9	-1	0.263	-1	1.949	-1	7.415	1	1724	41	2.3
45699.3	10000	41.2013	93.5747	-1040	QKA	1.7	-1	7.0	0	0.9	-1	0.241	-1	1.877	-1	7.772	1	1723	56	2.3
45699.4	10000	41.2013	93.5738	-1042	QKA	1.6	-2	6.6	-1	0.8	-2	0.236	-1	1.867	-1	7.918	2	1706	45	2.3
45699.5	10000	41.2013	93.5730	-1044	QKA	1.6	-2	6.4	-1	0.8	-2	0.247	-1	1.981	-1	8.005	2	1668	56	2.3
45699.6	10000	41.2013	93.5721	-1045	QKA	1.8	-1	6.3	-1	0.7	-2	0.293	-1	2.477	0	8.465	2	1647	34	2.4
45699.7	10000	41.2013	93.5712	-1047	QKA	2.1	-1	6.0	-2	0.7	-3	0.352	0	3.132	2	8.902	3	1613	59	2.4
45699.8	10000	41.2013	93.5704	-1048	QKA	2.2	0	5.4	-2	0.7	-3	0.408	1	3.292	1	8.075	2	1600	48	2.4
45699.9	10000	41.2013	93.5695	-1049	QKA	2.1	-1	5.1	-3	0.7	-3	0.416	1	2.957	1	7.112	1	1564	46	2.4
45700.0	10000	41.2013	93.5686	-1050	QKA	2.0	-1	4.7	-3	0.7	-3	0.419	1	2.701	1	6.441	0	1537	49	2.4
45700.1	10000	41.2013	93.5678	-1052	QKA	1.8	-1	4.7	-3	0.7	-3	0.382	1	2.489	1	6.517	0	1526	48	2.4
45700.2	10000	41.2013	93.5669	-1053	QKA	2.0	-1	4.8	-3	0.7	-3	0.419	1	2.915	1	6.953	0	1536	44	2.4
45700.3	10000	41.2013	93.5661	-1053	QKA	2.0	-1	4.7	-3	0.7	-3	0.426	1	2.961	1	6.947	0	1521	53	2.4
45700.4	10000	41.2013	93.5652	-1054	QKA	1.7	-1	4.9	-3	0.7	-3	0.359	0	2.462	0	6.864	0	1519	48	2.4
45700.5	10000	41.2013	93.5643	-1055	QKA	1.5	-2	5.0	-3	0.7	-3	0.313	0	2.086	0	6.668	0	1511	42	2.4
45700.6	10000	41.2013	93.5635	-1055	QKA	1.5	-2	5.3	-3	0.7	-3	0.311	0	2.177	0	6.994	0	1507	44	2.4
45700.7	10000	41.2013	93.5626	-1055	QKA	1.5	-2	5.3	-3	0.7	-3	0.274	-1	2.073	0	7.555	-1	1496	42	2.4
45700.8	10000	41.2013	93.5617	-1054	QKA	1.7	-1	5.1	-3	0.7	-3	0.341	0	2.369	0	6.940	0	1505	40	2.3

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45700.9	10000	41.2013	93.5609	-1053	QKA	1.5	-2	4.8	-3	0.8	-2	0.308	0	1.949	-1	6.329	0	1494	64	2.3
45701.0	10000	41.2013	93.5600	-1052	QKA	1.5	-2	5.0	-3	0.8	-2	0.295	-1	1.809	-1	6.139	-1	1514	59	2.4
45701.1	10000	41.2013	93.5591	-1050	QKA	1.6	-2	5.7	-2	0.8	-2	0.276	-1	1.868	-1	6.779	0	1547	51	2.4
45701.2	10000	41.2013	93.5583	-1050	QKA	1.9	-1	6.2	-1	0.8	-2	0.306	0	2.290	0	7.478	1	1583	47	2.4
45701.3	10000	41.2013	93.5574	-1050	QKA	2.0	-1	6.3	-1	0.8	-2	0.313	0	2.394	0	7.644	1	1612	45	2.4
45701.4	10000	41.2013	93.5566	-1048	QKA	2.2	0	6.2	-1	0.9	-2	0.354	0	2.576	1	7.271	1	1655	60	2.3
45701.5	10000	41.2013	93.5557	-1047	QKA	2.2	0	6.2	-1	0.9	-2	0.355	0	2.597	1	7.327	1	1698	44	2.3
45701.6	10000	41.2013	93.5548	-1046	QKA	2.6	0	6.6	-1	0.9	-1	0.395	1	2.919	1	7.391	1	1759	33	2.3
45701.7	10000	41.2013	93.5540	-1046	QKA	2.7	1	6.6	-1	0.9	-1	0.401	1	2.927	1	7.289	1	1793	33	2.3
45701.8	10000	41.2013	93.5531	-1046	QKA	2.7	1	6.3	-1	0.9	-1	0.422	1	2.879	1	6.814	0	1813	41	2.3
45701.9	10000	41.2013	93.5522	-1046	QKA	2.7	1	6.3	-1	1.0	-1	0.419	1	2.759	1	6.580	0	1815	40	2.3
45702.0	10000	41.2013	93.5514	-1045	QKA	2.6	0	6.3	-1	0.9	-1	0.416	1	2.768	1	6.654	0	1822	45	2.3
45702.1	10000	41.2013	93.5505	-1046	QKA	2.9	1	6.4	-1	0.9	-1	0.455	2	3.185	2	6.996	0	1829	41	2.3
45702.2	10000	41.2013	93.5497	-1046	QKA	3.0	1	6.5	-1	0.9	-1	0.464	2	3.247	2	6.992	0	1805	35	2.3
45702.3	10000	41.2013	93.5488	-1047	QKA	2.6	0	6.5	-1	0.9	-1	0.402	1	2.766	1	6.885	0	1796	43	2.3
45702.4	10000	41.2013	93.5479	-1048	QKA	2.6	0	6.4	-1	0.9	-1	0.413	1	2.836	1	6.874	0	1794	42	2.3
45702.5	10000	41.2013	93.5471	-1049	QKA	2.8	1	6.2	-1	1.0	-1	0.444	2	2.894	1	6.515	0	1800	47	2.3
45702.6	10000	41.2013	93.5462	-1050	QKA	2.8	1	5.9	-2	1.0	-1	0.463	2	2.804	1	6.055	-1	1825	33	2.3
45702.7	10000	41.2013	93.5453	-1051	QKA	2.9	1	6.0	-2	1.0	0	0.483	2	2.813	1	5.824	-1	1871	43	2.3
45702.8	10000	41.2013	93.5445	-1052	QKA	2.7	1	6.0	-1	1.1	0	0.446	2	2.457	0	5.513	-1	1915	47	2.3
45702.9	10000	41.2013	93.5436	-1054	QKA	2.6	0	6.3	-1	1.2	1	0.412	1	2.268	0	5.502	-1	1957	32	2.3
45703.0	10000	41.2013	93.5428	-1056	QKA	2.5	0	6.5	-1	1.2	1	0.393	1	2.190	0	5.568	-1	1963	35	2.3
45703.1	10000	41.2013	93.5419	-1057	QKA	2.5	0	6.6	-1	1.2	1	0.383	1	2.137	0	5.575	-1	1967	39	2.3
45703.2	10000	41.2013	93.5410	-1059	QAL	2.4	0	7.0	0	1.2	1	0.342	0	2.062	0	6.033	0	1957	47	2.3
45703.3	10000	41.2013	93.5402	-1060	QAL	2.3	0	7.3	0	1.1	1	0.319	-1	2.073	0	6.494	0	1945	47	2.3
45703.4	10000	41.2013	93.5393	-1062	QAL	2.2	0	7.1	0	1.2	1	0.309	-1	1.881	-1	6.094	0	1931	47	2.3
45703.5	10000	41.2013	93.5385	-1063	QAL	2.2	0	7.2	-1	1.1	1	0.301	-1	1.965	-1	6.529	1	1905	48	2.3
45703.6	10000	41.2013	93.5376	-1065	QAL	2.3	0	7.1	-1	1.1	1	0.326	0	2.179	0	6.694	1	1913	55	2.3
45703.7	10000	41.2013	93.5368	-1067	QAL	2.3	0	7.1	-1	1.1	1	0.422	1	2.810	1	6.659	1	1944	49	2.3
45703.8	10000	41.2013	93.5359	-1069	QAL	3.0	1	7.1	-1	1.1	0	0.417	1	2.860	1	6.866	1	1965	55	2.3
45703.9	10000	41.2012	93.5351	-1071	QAL	3.0	1	7.1	-1	1.1	1	0.444	1	2.930	1	6.594	1	1996	34	2.3
45704.0	10000	41.2012	93.5343	-1072	QAL	3.1	1	7.0	-1	1.1	1	0.472	1	2.955	1	6.263	0	2001	48	2.3
45704.1	10000	41.2012	93.5334	-1074	QAL	3.5	2	7.4	-1	1.1	1	0.477	1	3.304	2	6.932	1	1999	52	2.3
45704.2	10000	41.2012	93.5326	-1076	QAL	3.5	2	7.5	-1	1.1	1	0.465	1	3.095	2	6.661	1	2009	37	2.3
45704.3	10000	41.2012	93.5317	-1078	QAL	3.5	2	7.5	-1	1.1	1	0.463	1	3.110	2	6.723	1	1988	55	2.3
45704.4	10000	41.2012	93.5309	-1079	QAL	3.1	1	7.3	-1	1.1	1	0.427	1	2.725	1	6.388	0	1974	49	2.3
45704.5	10000	41.2012	93.5300	-1081	QAL	3.8	2	7.3	-1	1.1	2	0.390	1	2.395	1	6.137	0	1970	40	2.3
45704.6	10000	41.2012	93.5292	-1082	QAL	3.7	2	7.4	-1	1.1	2	0.364	1	2.279	1	6.257	0	1982	41	2.3
45704.7	10000	41.2012	93.5283	-1085	QKA	3.6	2	7.6	-1	1.1	2	0.369	1	2.280	1	6.177	-1	1983	50	2.3
45704.8	10000	41.2011	93.5275	-1088	QKA	3.4	2	7.9	-1	1.1	2	0.350	1	2.027	1	5.799	-1	1982	34	2.3
45704.9	10000	41.2011	93.5266	-1090	QKA	3.6	2	8.1	-1	1.1	2	0.363	1	2.149	1	5.925	-1	1971	47	2.3
45705.0	10000	41.2011	93.5258	-1092	QKA	3.5	2	8.0	-1	1.1	2	0.330	1	1.952	-1	5.920	-1	1970	52	2.3
45705.1	10000	41.2011	93.5249	-1094	QKA	3.8	2	8.2	-1	1.1	1	0.342	1	2.168	1	6.342	0	1957	41	2.3
45705.2	10000	41.2011	93.5241	-1096	QKA	3.8	2	8.2	-1	1.1	1	0.406	1	2.553	1	6.289	-1	1933	45	2.3
45705.3	10000	41.2011	93.5232	-1098	QKA	3.9	2	8.9	-1	1.1	1	0.416	1	2.601	1	6.254	-1	1895	45	2.3
45705.4	10000	41.2011	93.5224	-1100	QKA	3.7	2	9.1	-1	1.1	1	0.379	1	2.447	1	6.451	-1	1891	52	2.3
45705.5	10000	41.2011	93.5215	-1101	QKA	3.9	2	9.1	-1	1.1	1	0.412	1	2.645	1	6.419	-1	1882	51	2.3
45705.6	10000	41.2010	93.5207	-1102	QKA	3.9	2	9.1	-1	1.1	1	0.401	1	2.462	1	6.138	-1	1892	51	2.3
45705.7	10000	41.2010	93.5199	-1103	QKA	3.9	2	9.1	-1	1.1	1	0.414	1	2.501	1	6.040	-1	1907	46	2.3
45705.8	10000	41.2010	93.5190	-1103	QKA	3.6	2	9.1	-1	1.1	2	0.359	1	2.165	1	6.028	-1	1920	24	2.3
45705.9	10000	41.2010	93.5182	-1104	QKA	3.4	2	9.1	-1	1.1	2	0.309	1	1.991	-1	6.447	0	1942	48	2.3
45706.0	10000	41.2010	93.5173	-1105	QKA	2.5	1	7.6	1	1.2	1	0.329	0	2.123	0	6.452	0	1940	43	2.3

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45706.1	10000	41.2010	93.5165	-1106	QKA	2.5	0	7.5	0	1.1	0	0.336	0	2.202	0	6.543	0	1928	43	2.3
45706.2	10000	41.2010	93.5156	-1106	QKA	2.2	0	7.5	0	1.1	0	0.300	-1	2.008	0	6.697	0	1897	37	2.3
45706.3	10000	41.2010	93.5148	-1105	QKA	2.5	0	7.6	1	1.1	0	0.333	0	2.247	0	6.748	0	1868	46	2.3
45706.4	10000	41.2010	93.5139	-1105	QKA	2.4	0	7.2	0	1.0	0	0.331	0	2.316	0	6.995	0	1818	39	2.3
45706.5	10000	41.2010	93.5131	-1105	QKA	2.5	0	7.2	0	1.0	-1	0.348	0	2.564	1	7.357	1	1765	51	2.3
45706.6	10000	41.2009	93.5122	-1105	QKA	2.5	0	6.7	-1	0.9	-1	0.372	1	2.653	1	7.123	1	1714	33	2.2
45706.7	10000	41.2009	93.5114	-1105	QKA	2.2	0	6.2	-1	0.9	-1	0.349	0	2.387	0	6.848	0	1703	46	2.2
45706.8	10000	41.2009	93.5105	-1105	QKA	2.4	0	6.4	-1	0.9	-1	0.373	1	2.671	1	7.165	1	1689	45	2.2
45706.9	10000	41.2009	93.5097	-1105	QKA	2.5	0	6.4	-1	0.9	-1	0.385	1	2.806	1	7.296	1	1702	54	2.2
45707.0	10000	41.2009	93.5088	-1105	QKA	2.4	0	6.6	-1	0.9	-1	0.359	0	2.718	1	7.570	1	1715	41	2.2
45707.1	10000	41.2009	93.5080	-1105	QKA	2.4	0	6.8	0	0.9	-1	0.358	0	2.781	1	7.761	1	1738	39	2.2
45707.2	10000	41.2009	93.5071	-1105	QKA	2.7	1	6.6	-1	0.9	-2	0.412	1	3.166	2	7.686	1	1768	40	2.2
45707.3	10000	41.2009	93.5063	-1105	QKA	2.7	1	7.0	0	0.9	-1	0.391	1	3.132	2	8.011	2	1797	29	2.2
45707.4	10000	41.2009	93.5054	-1106	QKA	2.8	1	7.2	0	0.9	-1	0.393	1	3.181	2	8.094	2	1806	43	2.2
45707.5	10000	41.2009	93.5046	-1106	QKA	2.5	1	7.4	0	0.9	-1	0.342	0	2.729	1	7.976	2	1827	41	2.2
45707.6	10000	41.2008	93.5038	-1107	QKA	2.6	1	7.6	1	1.0	-1	0.348	0	2.660	1	7.634	1	1851	55	2.2
45707.7	10000	41.2008	93.5029	-1108	QKA	2.5	1	7.3	0	1.0	-1	0.335	0	2.516	1	7.504	1	1858	42	2.2
45707.8	10000	41.2008	93.5021	-1110	QKA	2.4	0	7.4	0	1.0	-1	0.327	0	2.418	1	7.397	1	1865	46	2.2
45707.9	10000	41.2008	93.5012	-1110	QKA	2.1	-1	7.5	0	1.0	0	0.287	-1	2.058	0	7.164	1	1871	49	2.2
45708.0	10000	41.2008	93.5004	-1110	QKA	2.2	0	7.4	0	1.1	0	0.290	-1	2.029	0	7.002	0	1877	32	2.2
45708.1	10000	41.2008	93.4995	-1111	QKA	2.4	0	7.8	1	1.1	0	0.304	0	2.205	0	7.250	0	1898	44	2.2
45708.2	10000	41.2008	93.4987	-1111	QKA	2.6	0	7.6	1	1.1	0	0.341	0	2.351	0	6.902	0	1923	53	2.2
45708.3	10000	41.2008	93.4978	-1112	QKA	2.5	0	7.6	1	1.1	0	0.331	0	2.299	0	6.953	0	1932	46	2.2
45708.4	10000	41.2007	93.4970	-1114	QKA	2.5	0	7.8	1	1.1	0	0.319	0	2.287	0	7.167	1	1945	56	2.2
45708.5	10000	41.2007	93.4961	-1116	QKA	2.6	0	7.8	1	1.1	0	0.328	0	2.299	0	7.002	0	1967	47	2.2
45708.6	10000	41.2007	93.4953	-1117	QKA	2.7	0	7.9	1	1.2	0	0.339	0	2.317	0	6.833	0	1984	46	2.2
45708.7	10000	41.2007	93.4944	-1118	QKA	2.5	0	7.7	1	1.1	0	0.328	0	2.207	0	6.730	0	1989	55	2.2
45708.8	10000	41.2007	93.4936	-1120	QKA	2.3	0	7.9	1	1.2	0	0.291	-1	1.950	0	6.693	0	1992	48	2.2
45708.9	10000	41.2007	93.4927	-1121	QKA	2.2	0	7.9	1	1.2	0	0.275	-1	1.850	0	6.738	0	1979	36	2.2
45709.0	10000	41.2007	93.4919	-1123	QKA	1.9	-1	7.9	1	1.2	0	0.238	-1	1.606	-1	6.754	0	1969	49	2.2
45709.1	10000	41.2007	93.4910	-1124	QKA	2.0	-1	8.1	1	1.2	0	0.252	-1	1.699	-1	6.750	0	1961	32	2.2
45709.2	10000	41.2006	93.4902	-1126	QKA	2.0	-1	7.8	1	1.2	0	0.251	-1	1.667	-1	6.630	0	1952	45	2.2
45709.3	10000	41.2006	93.4893	-1127	QKA	1.7	-1	7.8	1	1.2	0	0.220	-2	1.492	-2	6.768	0	1954	44	2.2
45709.4	10000	41.2006	93.4885	-1129	QKA	2.0	-1	7.8	1	1.2	0	0.253	-1	1.696	-1	6.690	0	1969	45	2.2
45709.5	10000	41.2006	93.4877	-1131	QKA	2.2	-1	7.9	1	1.2	0	0.280	-1	1.909	-1	6.810	0	1980	52	2.2
45709.6	10000	41.2006	93.4868	-1132	QKA	2.1	0	7.8	1	1.2	0	0.267	-1	1.744	-1	6.531	0	1984	40	2.2
45709.7	10000	41.2006	93.4860	-1134	QKA	2.2	0	7.8	1	1.1	0	0.289	-1	1.955	-1	6.754	0	1977	49	2.2
45709.8	10000	41.2006	93.4851	-1136	QKA	2.5	0	7.7	1	1.2	0	0.345	0	2.111	0	6.120	-1	1991	47	2.2
45709.9	10000	41.2006	93.4843	-1138	QKA	2.5	0	7.7	1	1.2	0	0.321	0	2.056	0	6.404	0	2013	35	2.1
45710.0	10000	41.2006	93.4834	-1140	QKA	2.6	0	7.6	1	1.3	0	0.343	0	2.170	0	6.325	0	2015	48	2.1
45710.1	10000	41.2005	93.4826	-1142	QKA	2.6	0	7.5	1	1.3	0	0.353	0	2.098	0	5.950	-1	2014	47	2.1
45710.2	10000	41.2005	93.4817	-1143	QKA	2.4	0	7.4	1	1.3	0	0.328	0	1.923	-1	5.861	-1	2007	47	2.1
45710.3	10000	41.2005	93.4809	-1146	QKA	2.6	0	7.9	1	1.3	0	0.331	0	2.070	0	6.254	-1	2016	51	2.1
45710.4	10000	41.2005	93.4800	-1148	QKA	2.6	0	7.9	1	1.3	0	0.336	0	2.057	-1	6.120	-1	2034	41	2.1
45710.5	10000	41.2005	93.4792	-1149	QKA	2.5	0	7.4	1	1.3	0	0.319	0	1.938	-1	6.078	-1	2027	46	2.1
45710.6	10000	41.2005	93.4783	-1151	QKA	2.6	0	7.6	1	1.3	0	0.347	0	1.992	-1	5.747	-1	2011	44	2.1
45710.7	10000	41.2005	93.4775	-1153	QKA	2.6	0	7.7	1	1.4	0	0.346	0	1.950	-1	5.628	-1	2010	52	2.1
45710.8	10000	41.2005	93.4766	-1155	QKA	2.8	0	7.4	1	1.4	0	0.335	0	1.922	-1	5.736	-1	2010	46	2.1
45710.9	10000	41.2005	93.4758	-1156	QKA	2.8	1	7.2	1	1.4	0	0.377	0	2.070	0	5.486	-2	2003	44	2.1
45711.0	10000	41.2004	93.4749	-1158	QKA	2.7	1	7.4	1	1.4	0	0.381	0	2.008	0	5.273	-2	2006	34	2.1
45711.1	10000	41.2004	93.4741	-1160	QKA	2.7	1	7.2	1	1.4	0	0.365	0	1.980	-1	5.427	-2	2019	40	2.1
45711.2	10000	41.2004	93.4733	-1163	QKA	2.4	0	7.8	1	1.3	0	0.309	0	1.816	-1	5.869	-1	2013	43	2.1

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45711.3	10000	41.2004	93.4724	-1164	QKA	2.5	0	8.0	1	1.3	2	0.310	0	1.865	-1	6.011	-1	2015	43	2.1
45711.4	10000	41.2004	93.4716	-1167	QKA	2.5	0	8.1	1	1.3	2	0.302	-1	1.891	-1	6.257	-1	2026	49	2.1
45711.5	10000	41.2004	93.4707	-1169	QKA	2.3	0	8.3	2	1.3	1	0.271	-1	1.775	-1	6.556	0	2028	39	2.1
45711.6	10000	41.2004	93.4699	-1170	QKA	2.2	0	8.4	2	1.2	1	0.261	-1	1.770	-1	6.783	0	2022	37	2.1
45711.7	10000	41.2004	93.4690	-1173	QKA	2.4	0	8.4	2	1.2	1	0.280	-1	1.920	-1	6.862	0	2021	56	2.1
45711.8	10000	41.2003	93.4682	-1175	QKA	2.5	0	8.4	2	1.2	1	0.293	-1	2.003	0	6.830	0	2013	50	2.1
45711.9	10000	41.2003	93.4673	-1177	QKA	2.6	0	8.2	1	1.2	1	0.319	0	2.136	0	6.697	0	2026	43	2.1
45712.0	10000	41.2003	93.4665	-1179	QKA	2.6	0	8.3	2	1.2	1	0.313	0	2.141	0	6.834	0	2027	51	2.1
45712.1	10000	41.2003	93.4656	-1181	QKA	2.8	1	8.1	1	1.2	1	0.350	0	2.316	0	6.620	0	2025	44	2.1
45712.2	10000	41.2003	93.4648	-1183	QKA	3.3	2	7.9	1	1.2	1	0.410	1	2.795	1	6.817	0	2032	40	2.1
45712.3	10000	41.2003	93.4639	-1185	QKA	3.2	2	7.8	1	1.2	1	0.412	1	2.646	1	6.428	0	2041	42	2.1
45712.4	10000	41.2003	93.4631	-1187	QKA	3.0	1	7.9	1	1.2	1	0.378	1	2.399	0	6.350	0	2037	45	2.1
45712.5	10000	41.2003	93.4622	-1188	QKA	2.8	1	8.0	1	1.3	1	0.349	0	2.223	0	6.364	0	2029	38	2.0
45712.6	10000	41.2003	93.4614	-1190	QKA	2.8	1	8.0	2	1.3	1	0.346	0	2.238	0	6.470	0	2025	47	2.0
45712.7	10000	41.2002	93.4605	-1192	QKA	2.9	1	8.0	1	1.3	2	0.362	0	2.263	0	6.249	-1	2020	50	2.0
45712.8	10000	41.2002	93.4597	-1193	QKA	2.9	1	8.4	2	1.3	1	0.343	0	2.239	0	6.534	0	2011	37	2.0
45712.9	10000	41.2002	93.4588	-1196	QKA	2.8	1	8.4	2	1.3	2	0.340	0	2.181	0	6.417	0	2009	38	2.0
45713.0	10000	41.2002	93.4580	-1197	QKA	3.0	1	8.4	2	1.3	1	0.353	0	2.338	0	6.620	0	2010	47	2.0
45713.1	10000	41.2002	93.4572	-1198	QKA	2.9	1	8.0	1	1.3	1	0.362	0	2.268	0	6.263	-1	2005	43	2.0
45713.2	10000	41.2002	93.4563	-1199	QKA	3.0	1	7.8	1	1.3	2	0.382	1	2.314	0	6.063	-1	2010	51	2.0
45713.3	10000	41.2002	93.4555	-1200	QKA	2.9	1	8.1	1	1.3	1	0.364	0	2.296	0	6.310	0	2006	43	2.0
45713.4	10000	41.2002	93.4546	-1202	QKA	2.7	1	7.9	1	1.3	2	0.347	0	2.120	0	6.111	-1	2008	31	2.0
45713.5	10000	41.2001	93.4538	-1203	QKA	2.5	0	7.8	1	1.2	1	0.322	0	2.022	0	6.288	-1	1985	45	2.0
45713.6	10000	41.2001	93.4529	-1204	QKA	2.3	0	7.7	1	1.2	1	0.300	-1	1.861	-1	6.201	-1	1954	55	2.0
45713.7	10000	41.2001	93.4521	-1205	QKA	2.1	-1	8.0	1	1.2	1	0.263	-1	1.752	-1	6.667	0	1942	37	2.0
45713.8	10000	41.2001	93.4512	-1206	QKA	2.3	0	7.9	1	1.1	1	0.290	-1	2.031	0	6.993	0	1930	37	2.0
45713.9	10000	41.2001	93.4504	-1207	QKA	2.3	0	7.9	1	1.1	1	0.283	-1	2.111	0	7.451	1	1930	46	2.0
45714.0	10000	41.2001	93.4495	-1208	QKA	2.2	0	7.4	1	1.1	1	0.299	-1	2.051	0	6.858	0	1917	48	2.0
45714.1	10000	41.2001	93.4487	-1210	QKA	2.2	0	7.8	1	1.0	1	0.282	-1	2.099	0	7.440	1	1900	41	2.0
45714.2	10000	41.2001	93.4478	-1210	QKA	2.2	0	7.3	1	1.1	1	0.303	-1	2.093	0	6.910	0	1894	35	2.0
45714.3	10000	41.2001	93.4470	-1211	QKA	2.3	0	7.1	1	1.1	1	0.331	0	2.203	0	6.665	0	1906	58	2.0
45714.4	10000	41.2000	93.4461	-1212	QKA	2.6	0	6.9	1	1.1	1	0.376	0	2.375	0	6.312	0	1892	55	2.0
45714.5	10000	41.2000	93.4453	-1214	QKA	2.4	0	6.9	1	1.0	1	0.352	0	2.340	0	6.647	0	1886	60	2.0
45714.6	10000	41.2000	93.4444	-1214	QKA	2.6	0	6.7	1	1.0	1	0.396	1	2.646	1	6.687	0	1836	46	2.0
45714.7	10000	41.2000	93.4436	-1215	QKA	2.5	0	6.6	1	0.9	1	0.387	1	2.694	1	6.953	0	1802	40	2.0
45714.8	10000	41.2000	93.4427	-1216	QKA	2.4	0	6.6	1	0.9	1	0.407	1	2.595	1	6.381	0	1785	49	2.0
45714.9	10000	41.2000	93.4419	-1217	QKA	2.4	0	6.6	1	1.0	1	0.399	1	2.429	0	6.095	-1	1766	47	2.0
45715.0	10000	41.2000	93.4411	-1218	QKA	2.2	0	6.1	1	1.0	1	0.356	1	2.228	0	6.258	-1	1741	36	2.0
45715.1	10000	41.2000	93.4402	-1220	QKA	1.8	-1	6.0	1	1.0	1	0.306	0	1.865	-1	6.105	-1	1712	50	2.0
45715.2	10000	41.2000	93.4394	-1221	QKA	1.7	-1	5.9	1	1.0	0	0.296	-1	1.743	-1	5.886	-1	1690	43	2.0
45715.3	10000	41.1999	93.4385	-1222	QKA	1.8	-1	5.7	1	1.0	0	0.310	0	1.680	-1	5.421	-2	1682	38	2.0
45715.4	10000	41.1999	93.4377	-1224	QKA	1.8	-1	5.8	1	1.0	0	0.317	0	1.837	-1	5.803	-1	1674	49	2.0
45715.5	10000	41.1999	93.4368	-1224	QKA	2.1	-1	6.1	1	1.0	0	0.349	0	2.167	0	6.202	-1	1661	48	2.0
45715.6	10000	41.1999	93.4360	-1226	QKA	2.0	-1	6.5	1	0.9	0	0.314	0	2.220	1	7.062	0	1645	48	2.0
45715.7	10000	41.1999	93.4351	-1227	QKA	2.2	-1	6.7	1	0.9	0	0.337	0	2.579	1	7.641	1	1639	51	2.0
45715.8	10000	41.1999	93.4343	-1228	QKA	2.3	-1	6.8	1	0.9	0	0.343	0	2.745	2	8.014	2	1651	43	2.0
45715.9	10000	41.1999	93.4334	-1229	QKA	2.5	-1	7.0	1	0.9	0	0.366	0	3.006	2	8.213	2	1665	39	2.0
45716.0	10000	41.1999	93.4326	-1230	QKA	2.5	-1	7.3	1	0.9	0	0.337	0	2.843	2	8.435	2	1700	44	2.0
45716.1	10000	41.1999	93.4317	-1230	QKA	2.5	-1	7.4	1	0.9	0	0.340	0	2.777	2	8.159	2	1726	38	2.0
45716.2	10000	41.1999	93.4308	-1231	QKA	2.4	-1	7.6	1	0.9	0	0.315	0	2.550	2	8.094	2	1762	46	2.0
45716.3	10000	41.1999	93.4300	-1232	QKA	2.6	-1	7.7	1	1.0	0	0.338	0	2.595	2	7.677	1	1811	42	2.0
45716.4	10000	41.1999	93.4291	-1233	QKA	2.3	0	7.7	1	1.1	0	0.303	-1	2.204	0	7.279	1	1829	44	2.0

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45716.5	10000	41.1999	93.4283	-1234	QKA	2.3	0	7.5	1	1.1	0	0.303	-1	2.058	0	6.796	0	1859	44	2.0
45716.6	10000	41.2000	93.4274	-1235	QKA	2.2	0	7.9	1	1.1	0	0.280	-1	1.941	-1	6.927	0	1879	49	2.0
45716.7	10000	41.2000	93.4266	-1236	QKA	2.1	-1	7.5	1	1.2	1	0.273	-1	1.762	-1	6.465	0	1892	59	2.0
45716.8	10000	41.2000	93.4257	-1236	QKA	2.3	0	7.5	1	1.2	1	0.299	-1	1.864	-1	6.236	-1	1915	45	2.0
45716.9	10000	41.2000	93.4249	-1237	QKA	2.0	-1	7.6	1	1.2	1	0.266	-1	1.684	-1	6.324	0	1916	41	2.0
45717.0	10000	41.2000	93.4240	-1238	QKA	2.0	-1	7.4	0	1.2	1	0.272	-1	1.656	-1	6.086	-1	1904	48	2.0
45717.1	10000	41.2000	93.4231	-1239	QKA	2.0	-1	7.1	0	1.2	1	0.285	-1	1.683	-1	5.908	-1	1890	44	2.0
45717.2	10000	41.2000	93.4223	-1239	QKA	2.2	0	7.4	0	1.2	1	0.296	-1	1.863	-1	6.295	0	1874	32	1.9
45717.3	10000	41.2000	93.4214	-1240	QKA	2.1	-1	7.0	0	1.2	1	0.304	0	1.848	-1	6.073	-1	1872	38	1.9
45717.4	10000	41.2000	93.4206	-1241	QKA	2.3	0	7.7	1	1.1	0	0.294	-1	1.974	-1	6.711	0	1889	32	1.9
45717.5	10000	41.2000	93.4197	-1242	QKA	2.3	0	7.6	1	1.1	0	0.304	0	2.081	0	6.848	0	1900	34	2.0
45717.6	10000	41.2000	93.4189	-1242	QKA	2.7	1	7.3	1	1.1	0	0.375	1	2.456	0	6.556	0	1914	52	2.0
45717.7	10000	41.2001	93.4180	-1242	QKA	2.8	1	7.2	0	1.1	0	0.395	1	2.563	1	6.495	0	1949	44	2.0
45717.8	10000	41.2001	93.4171	-1243	QKA	3.1	1	7.6	1	1.1	1	0.403	1	2.681	1	6.650	0	2003	58	2.0
45717.9	10000	41.2001	93.4163	-1244	QKA	3.0	1	7.6	1	1.2	1	0.389	1	2.450	0	6.301	0	2039	36	2.0
45718.0	10000	41.2001	93.4154	-1244	QKA	3.0	1	8.0	1	1.3	1	0.369	0	2.371	0	6.428	0	2069	53	2.0
45718.1	10000	41.2001	93.4146	-1244	QKA	3.2	2	7.7	1	1.2	1	0.421	1	2.646	1	6.280	-1	2051	42	2.0
45718.2	10000	41.2001	93.4137	-1245	QKA	3.0	1	7.6	1	1.2	1	0.394	1	2.450	0	6.212	-1	2031	40	2.0
45718.3	10000	41.2001	93.4129	-1245	QKA	3.1	1	7.7	1	1.2	1	0.402	1	2.605	1	6.475	0	2001	41	2.0
45718.4	10000	41.2001	93.4120	-1246	QKA	3.1	1	7.8	1	1.1	0	0.391	1	2.671	1	6.838	0	1976	45	2.0
45718.5	10000	41.2001	93.4112	-1246	QKA	3.0	1	7.9	1	1.1	0	0.374	1	2.771	1	7.400	1	1956	37	2.0
45718.6	10000	41.2001	93.4103	-1246	QKA	3.1	1	7.9	1	1.0	0	0.396	1	3.022	2	7.631	1	1944	56	2.0
45718.7	10000	41.2001	93.4095	-1246	QKA	3.2	2	7.6	1	1.0	-1	0.426	1	3.331	2	7.817	1	1929	40	2.0
45718.8	10000	41.2001	93.4086	-1246	QKA	3.1	2	7.6	1	1.0	0	0.408	1	3.057	2	7.494	1	1937	39	2.0
45718.9	10000	41.2001	93.4077	-1246	QKA	3.0	1	7.9	1	1.1	0	0.379	1	2.882	2	7.602	1	1941	52	2.0
45719.0	10000	41.2001	93.4069	-1246	QKA	3.0	1	8.0	1	1.1	0	0.375	1	2.890	2	7.370	1	1953	42	2.0
45719.1	10000	41.2002	93.4060	-1247	QKA	2.5	1	7.6	1	1.1	0	0.311	1	2.196	2	7.491	1	1957	50	2.0
45719.2	10000	41.2002	93.4052	-1247	QKA	2.4	1	7.7	1	1.1	0	0.293	1	2.042	2	6.698	1	1947	33	2.0
45719.3	10000	41.2002	93.4043	-1247	QKA	2.2	1	7.5	1	1.1	0	0.305	1	1.867	1	6.703	1	1939	42	2.0
45719.4	10000	41.2002	93.4035	-1248	QKA	2.1	1	7.6	1	1.1	0	0.278	1	1.656	1	6.298	1	1938	39	2.0
45719.5	10000	41.2002	93.4026	-1247	QKA	2.1	1	7.9	1	1.1	0	0.263	1	1.633	1	6.608	1	1956	47	2.0
45719.6	10000	41.2002	93.4017	-1248	QKA	2.1	1	7.9	1	1.1	0	0.247	1	1.712	1	6.772	1	1964	27	2.0
45719.7	10000	41.2002	93.4009	-1248	QKA	2.2	1	7.6	1	1.1	0	0.253	1	2.216	1	6.863	1	1972	46	2.0
45719.8	10000	41.2002	93.4000	-1248	QKA	2.2	1	7.6	1	1.1	0	0.323	1	2.346	1	6.512	1	1993	33	2.0
45719.9	10000	41.2002	93.3992	-1248	QK	2.2	1	7.6	1	1.1	0	0.360	1	2.468	1	7.134	1	2017	54	2.0
45720.0	10000	41.2002	93.3983	-1248	QK	2.2	1	7.6	1	1.1	0	0.346	1	2.656	1	7.368	1	2032	51	2.0
45720.1	10000	41.2002	93.3975	-1248	QK	2.2	1	7.6	1	1.1	0	0.360	1	2.978	2	7.815	2	2049	59	2.0
45720.2	10000	41.2002	93.3966	-1248	QK	2.2	1	7.6	1	1.1	0	0.381	1	2.470	1	8.007	2	2033	52	2.0
45720.3	10000	41.2002	93.3958	-1248	QK	2.2	1	7.6	1	1.1	0	0.433	1	2.714	1	7.596	2	2053	48	2.0
45720.4	10000	41.2003	93.3949	-1249	QK	2.2	1	7.6	1	1.1	0	0.409	1	2.332	1	7.911	2	2067	46	2.0
45720.5	10000	41.2003	93.3940	-1249	QK	2.2	1	7.6	1	1.1	0	0.421	1	2.310	1	8.230	2	2084	39	2.0
45720.6	10000	41.2003	93.3932	-1249	QK	2.2	1	7.6	1	1.1	0	0.402	1	2.476	1	7.839	2	2080	43	2.0
45720.7	10000	41.2003	93.3923	-1250	QK	2.2	1	7.6	1	1.1	0	0.443	1	2.222	1	7.461	2	2068	39	2.0
45720.8	10000	41.2003	93.3915	-1250	QK	2.2	1	7.5	1	1.1	0	0.432	1	2.994	2	7.479	2	2046	49	2.0
45720.9	10000	41.2003	93.3906	-1250	QK	2.2	1	7.6	1	1.1	0	0.400	1	2.396	1	7.488	2	2031	44	2.0
45721.0	10000	41.2003	93.3898	-1251	QK	2.2	1	7.6	1	1.1	0	0.320	1	2.166	1	7.497	2	2022	46	2.0
45721.1	10000	41.2003	93.3889	-1251	QK	2.2	1	7.6	1	1.1	0	0.289	1	2.111	1	7.146	2	1990	36	2.0
45721.2	10000	41.2003	93.3881	-1251	QK	2.2	1	7.6	1	1.1	0	0.295	1	1.875	1	7.008	2	1953	37	2.0
45721.3	10000	41.2003	93.3872	-1252	QK	2.2	1	7.6	1	1.1	0	0.268	1	1.746	1	7.184	2	1933	51	2.0
45721.4	10000	41.2003	93.3863	-1252	QK	2.2	1	7.6	1	1.1	0	0.243	1	1.943	1	7.521	2	1918	42	2.0
45721.5	10000	41.2003	93.3855	-1252	QK	2.2	1	7.6	1	1.1	0	0.258	1	1.835	1	7.190	2	1892	42	1.9
45721.6	10000	41.2003	93.3846	-1252	QK	2.4	1	7.5	1	1.1	0	0.318	1	2.127	1	6.685	2	1893	45	1.9

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45721.7	10000	41.2004	93.3838	-1252	QK	2.5	0	7.7	1	1.1	0	0.324	0	2.253	0	6.948	1	1879	41	1.9
45721.8	10000	41.2004	93.3829	-1253	QK	2.5	0	8.0	1	1.2	0	0.318	0	2.186	0	6.875	1	1891	46	1.9
45721.9	10000	41.2004	93.3821	-1253	QK	2.6	0	7.9	1	1.1	0	0.330	0	2.310	0	6.998	1	1889	41	1.9
45722.0	10000	41.2004	93.3812	-1253	QK	2.6	0	7.7	1	1.1	0	0.334	0	2.347	0	7.025	1	1896	47	1.9
45722.1	10000	41.2004	93.3804	-1254	QK	2.6	0	7.6	0	1.1	0	0.341	0	2.319	0	6.803	0	1912	38	1.9
45722.2	10000	41.2004	93.3795	-1254	QK	2.6	0	7.6	0	1.1	0	0.339	0	2.300	0	6.790	0	1925	44	1.9
45722.3	10000	41.2004	93.3786	-1254	QK	2.5	0	7.9	1	1.2	0	0.314	-1	2.105	0	6.713	0	1931	36	1.9
45722.4	10000	41.2004	93.3778	-1255	QK	2.2	-1	7.5	0	1.2	1	0.296	-1	1.883	-1	6.366	0	1941	41	1.9
45722.5	10000	41.2004	93.3769	-1255	QK	2.5	0	7.5	0	1.2	1	0.333	0	2.115	0	6.349	0	1949	46	1.9
45722.6	10000	41.2004	93.3761	-1255	QK	2.4	0	7.6	0	1.2	1	0.315	0	1.987	-1	6.305	0	1938	36	1.9
45722.7	10000	41.2004	93.3752	-1255	QK	2.4	0	7.4	0	1.2	1	0.323	0	1.980	-1	6.135	0	1938	42	1.9
45722.8	10000	41.2004	93.3744	-1255	QK	2.5	0	7.3	0	1.2	1	0.341	0	2.078	0	6.100	-1	1938	33	1.9
45722.9	10000	41.2004	93.3735	-1256	QK	2.8	1	7.2	0	1.1	0	0.391	1	2.454	0	6.270	0	1943	46	1.9
45723.0	10000	41.2004	93.3727	-1256	QK	2.8	1	7.1	0	1.1	0	0.398	1	2.530	1	6.360	0	1937	43	1.9
45723.1	10000	41.2005	93.3718	-1256	QK	3.0	1	7.3	0	1.1	0	0.413	1	2.701	1	6.545	0	1932	48	1.9
45723.2	10000	41.2005	93.3709	-1256	QK	3.1	1	7.1	0	1.1	0	0.432	1	2.877	1	6.665	0	1933	51	1.9
45723.3	10000	41.2005	93.3701	-1256	QK	3.2	1	7.4	0	1.1	0	0.430	1	2.947	1	6.847	1	1970	45	1.9
45723.4	10000	41.2005	93.3692	-1255	QK	3.5	2	7.4	0	1.1	0	0.476	2	3.136	2	6.594	0	1991	48	1.9
45723.5	10000	41.2005	93.3684	-1255	QK	3.4	2	7.5	0	1.2	0	0.453	1	2.928	1	6.468	0	1991	39	1.9
45723.6	10000	41.2005	93.3675	-1255	QK	3.2	1	7.9	1	1.2	1	0.408	1	2.695	1	6.607	0	2016	42	1.9
45723.7	10000	41.2005	93.3667	-1255	QK	3.2	1	7.9	1	1.2	1	0.400	1	2.567	1	6.424	0	2057	39	1.9
45723.8	10000	41.2005	93.3658	-1255	QK	3.4	2	7.7	1	1.3	1	0.437	1	2.663	1	6.101	-1	2069	47	1.9
45723.9	10000	41.2005	93.3649	-1255	QK	3.2	1	7.9	1	1.3	2	0.405	1	2.420	0	5.979	-1	2088	53	1.9
45724.0	10000	41.2005	93.3641	-1255	QK	3.2	1	7.8	1	1.4	2	0.416	1	2.364	0	5.680	-1	2090	46	1.9
45724.1	10000	41.2005	93.3632	-1255	QK	3.2	1	8.0	1	1.4	2	0.398	1	2.342	0	5.890	-1	2095	43	1.9
45724.2	10000	41.2005	93.3624	-1255	QK	3.3	2	8.2	1	1.3	2	0.405	1	2.472	0	6.110	-1	2112	55	1.9
45724.3	10000	41.2005	93.3615	-1255	QK	3.3	2	8.0	1	1.4	2	0.416	1	2.545	0	6.111	-1	2094	47	1.9
45724.4	10000	41.2006	93.3607	-1254	QK	3.4	2	8.2	1	1.3	2	0.405	1	2.655	0	6.555	0	2062	38	1.9
45724.5	10000	41.2006	93.3598	-1253	QK	3.1	1	8.3	1	1.2	2	0.374	1	2.555	0	6.826	1	2057	34	1.9
45724.6	10000	41.2006	93.3590	-1252	QK	2.9	1	8.1	1	1.2	2	0.335	1	2.407	0	7.178	1	2034	39	1.9
45724.7	10000	41.2006	93.3581	-1253	QK	2.8	1	8.3	1	1.3	2	0.344	1	2.387	0	6.933	1	2025	33	1.9
45724.8	10000	41.2006	93.3572	-1252	QK	2.6	1	8.1	1	1.3	2	0.310	1	2.247	0	7.241	1	1999	46	1.9
45724.9	10000	41.2006	93.3564	-1251	QK	2.5	1	8.1	1	1.3	2	0.299	1	2.113	0	7.058	1	1998	37	1.9
45725.0	10000	41.2006	93.3555	-1252	QK	2.6	1	8.0	1	1.3	2	0.323	1	2.184	0	6.770	1	2009	33	1.9
45725.1	10000	41.2006	93.3547	-1251	QK	2.5	1	8.1	1	1.3	2	0.326	1	2.060	0	6.325	1	2015	46	1.9
45725.2	10000	41.2006	93.3538	-1250	QK	2.6	1	8.0	1	1.3	2	0.320	1	2.052	0	6.411	1	2004	50	1.9
45725.3	10000	41.2006	93.3530	-1250	QK	2.4	1	7.8	1	1.3	2	0.308	1	1.961	0	6.367	1	2002	46	1.9
45725.4	10000	41.2006	93.3521	-1250	QK	2.6	1	7.9	1	1.3	2	0.320	1	2.086	0	6.508	1	1995	55	1.9
45725.5	10000	41.2006	93.3513	-1249	QK	2.5	1	7.8	1	1.3	2	0.309	1	1.953	0	6.317	1	2014	37	1.9
45725.6	10000	41.2006	93.3504	-1249	QK	2.5	1	7.7	1	1.3	2	0.298	1	2.024	0	6.800	1	2002	43	1.9
45725.7	10000	41.2007	93.3495	-1250	QK	2.5	1	7.8	1	1.3	2	0.301	1	2.059	0	6.842	1	1981	46	1.9
45725.8	10000	41.2007	93.3487	-1250	QK	2.6	1	7.8	1	1.3	2	0.310	1	2.234	0	7.198	1	1966	39	1.9
45725.9	10000	41.2007	93.3478	-1250	QK	2.6	1	7.7	1	1.3	2	0.313	1	2.251	0	7.194	1	1951	43	1.9
45726.0	10000	41.2007	93.3470	-1249	QK	2.8	1	7.7	1	1.3	2	0.349	1	2.491	0	7.144	1	1927	47	1.9
45726.1	10000	41.2007	93.3461	-1247	QK	2.9	1	7.7	1	1.3	2	0.365	1	2.717	0	7.442	1	1905	44	1.9
45726.2	10000	41.2007	93.3453	-1240	QK	3.0	1	7.7	1	1.4	2	0.403	1	3.013	0	7.472	1	1870	55	1.9
45726.3	10000	41.2007	93.3444	-1233	QK	3.0	1	7.6	1	1.4	2	0.414	1	2.941	0	7.098	1	1861	36	1.9
45726.4	10000	41.2007	93.3436	-1238	QK	3.0	1	7.7	1	1.4	2	0.421	1	2.872	0	6.818	1	1869	41	1.9
45726.5	10000	41.2007	93.3427	-1244	QK	3.0	1	7.7	1	1.4	2	0.488	1	3.176	0	6.609	1	1871	49	1.9
45726.6	10000	41.2007	93.3419	-1244	QK	3.1	1	7.6	1	1.4	2	0.484	1	3.985	0	6.163	1	1908	43	1.9
45726.7	10000	41.2007	93.3410	-1243	QK	3.5	1	7.9	1	1.5	2	0.506	1	3.057	0	6.041	-1	1951	51	1.9
45726.8	10000	41.2007	93.3402	-1242	QK	3.4	1	7.1	0	1.5	2	0.488	1	3.066	0	6.286	0	1958	39	1.9

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45726.9	10000	41.2007	93.3393	-1240	QK	3.3	2	6.8	-1	1.1	0	0.487	2	2.864	1	5.885	-1	1954	39	1.9
45727.0	10000	41.2007	93.3385	-1240	QK	3.4	2	6.7	-1	1.2	0	0.498	2	2.915	1	5.853	-1	1937	50	1.9
45727.1	10000	41.2007	93.3376	-1239	QK	3.3	2	7.2	0	1.1	0	0.456	1	2.899	1	6.365	0	1903	37	1.9
45727.2	10000	41.2007	93.3368	-1237	QK	2.8	1	7.5	0	1.1	0	0.377	0	2.542	1	6.740	0	1890	41	1.9
45727.3	10000	41.2007	93.3359	-1235	QK	3.0	1	7.5	0	1.0	-1	0.404	1	2.925	1	7.243	1	1863	49	1.9
45727.4	10000	41.2007	93.3351	-1233	QK	3.1	1	7.8	0	1.0	-1	0.406	1	2.964	1	7.301	1	1839	43	1.9
45727.5	10000	41.2007	93.3342	-1234	QK	3.1	1	7.3	0	1.0	-1	0.425	1	3.044	2	7.160	1	1831	35	1.9
45727.6	10000	41.2007	93.3334	-1234	QK	3.1	1	7.7	1	1.0	-1	0.404	1	3.137	2	7.764	2	1819	58	1.9
45727.7	10000	41.2007	93.3325	-1233	QK	2.9	1	7.2	0	1.0	-1	0.400	1	2.808	1	7.024	1	1808	49	1.9
45727.8	10000	41.2007	93.3317	-1232	QK	2.9	1	6.9	0	1.0	-1	0.422	1	2.786	1	6.605	0	1828	47	1.9
45727.9	10000	41.2007	93.3308	-1231	QK	3.0	1	6.8	-1	1.1	0	0.442	1	2.794	1	6.320	0	1833	35	1.9
45728.0	10000	41.2007	93.3300	-1230	QK	2.9	1	6.8	-1	1.1	0	0.421	1	2.570	1	6.109	-1	1842	40	1.9
45728.1	10000	41.2007	93.3291	-1230	QK	2.8	1	6.5	-1	1.1	0	0.427	1	2.529	1	5.920	-1	1832	46	1.9
45728.2	10000	41.2007	93.3283	-1230	QK	2.8	1	6.4	-1	1.1	0	0.440	1	2.512	1	5.704	-1	1841	45	2.0
45728.3	10000	41.2007	93.3274	-1230	QK	2.9	1	6.0	-2	1.1	0	0.477	2	2.527	1	5.300	-2	1843	50	2.0
45728.4	10000	41.2007	93.3266	-1229	QK	2.9	1	6.0	-2	1.1	0	0.487	2	2.693	1	5.529	-1	1849	40	2.0
45728.5	10000	41.2007	93.3257	-1230	QK	3.0	1	6.5	-1	1.1	0	0.458	1	2.808	1	6.137	0	1856	42	2.0
45728.6	10000	41.2007	93.3249	-1230	QK	2.8	1	6.4	-1	1.1	0	0.442	1	2.647	1	5.989	-1	1842	40	2.0
45728.7	10000	41.2007	93.3241	-1230	QK	2.6	0	6.1	-1	1.1	-1	0.426	1	2.486	0	5.837	-1	1813	43	2.0
45728.8	10000	41.2007	93.3232	-1230	QK	2.5	0	6.2	-1	1.1	-1	0.393	1	2.337	0	5.947	-1	1794	37	2.0
45728.9	10000	41.2007	93.3224	-1231	QK	2.2	-1	6.2	-1	1.1	0	0.355	0	2.009	-1	5.657	-1	1776	45	2.0
45729.0	10000	41.2007	93.3215	-1232	QK	2.1	-1	6.1	-1	1.1	0	0.342	0	1.907	-1	5.576	-1	1792	55	2.0
45729.1	10000	41.2007	93.3206	-1232	QK	2.2	-1	6.5	-1	1.1	0	0.339	0	1.917	-1	5.650	-1	1803	47	2.0
45729.2	10000	41.2007	93.3198	-1233	QK	2.1	-1	6.2	-1	1.2	0	0.344	0	1.833	-1	5.330	-2	1792	65	2.0
45729.3	10000	41.2007	93.3190	-1234	QK	2.2	-1	6.1	-2	1.2	1	0.368	0	1.884	-1	5.120	-2	1791	37	2.0
45729.4	10000	41.2007	93.3181	-1234	QK	2.4	0	6.0	-2	1.2	1	0.408	1	2.049	0	5.019	-2	1780	43	2.0
45729.5	10000	41.2007	93.3173	-1235	QK	2.6	0	5.7	-2	1.1	1	0.455	1	2.285	0	5.021	-2	1768	21	2.0
45729.6	10000	41.2007	93.3164	-1237	QK	2.6	0	5.6	-2	1.1	1	0.468	2	2.342	0	5.008	-2	1760	32	2.0
45729.7	10000	41.2007	93.3156	-1238	QK	2.7	0	6.1	-2	1.1	1	0.444	1	2.386	0	5.379	-2	1767	45	2.0
45729.8	10000	41.2007	93.3147	-1240	QK	2.8	1	6.0	-2	1.1	1	0.461	2	2.560	1	5.557	-1	1775	52	2.0
45729.9	10000	41.2007	93.3139	-1242	QK	2.8	1	5.9	-2	1.1	1	0.472	2	2.575	1	5.453	-1	1802	35	2.0
45730.0	10000	41.2007	93.3130	-1244	QK	3.0	1	6.2	-1	1.1	1	0.489	2	2.819	1	5.770	-1	1831	41	2.0
45730.1	10000	41.2007	93.3122	-1245	QK	2.8	1	6.8	-1	1.1	1	0.411	1	2.604	1	6.335	0	1875	34	2.0
45730.2	10000	41.2007	93.3113	-1247	QK	2.6	0	7.6	0	1.1	1	0.345	1	2.507	1	6.628	0	1920	52	2.0
45730.3	10000	41.2007	93.3105	-1249	QK	3.0	1	8.1	1	1.2	1	0.368	1	2.511	1	6.817	0	1970	32	2.0
45730.4	10000	41.2007	93.3096	-1251	QK	3.1	1	8.1	1	1.2	1	0.379	1	2.674	1	7.064	1	1969	40	2.0
45730.5	10000	41.2007	93.3088	-1251	QK	2.9	1	8.1	1	1.1	1	0.363	1	2.608	1	7.193	1	1949	34	2.0
45730.6	10000	41.2007	93.3079	-1251	QK	2.8	1	8.1	1	1.1	1	0.350	1	2.536	1	7.245	1	1926	47	2.0
45730.7	10000	41.2007	93.3071	-1254	QK	2.7	1	7.8	1	1.1	1	0.334	1	2.437	1	7.294	1	1919	49	2.0
45730.8	10000	41.2007	93.3062	-1256	QK	2.7	1	7.6	1	1.1	1	0.393	1	2.729	1	6.936	1	1920	55	2.0
45730.9	10000	41.2007	93.3054	-1258	QK	2.4	0	7.5	1	1.1	1	0.451	1	3.120	2	6.918	1	1923	50	2.0
45731.0	10000	41.2007	93.3045	-1259	QK	2.3	0	7.4	1	1.1	1	0.432	1	3.019	2	6.989	1	1920	37	2.0
45731.1	10000	41.2007	93.3037	-1259	QK	2.1	0	7.6	1	1.1	1	0.415	1	2.887	1	6.961	1	1922	44	2.0
45731.2	10000	41.2007	93.3028	-1260	QK	2.0	1	7.9	1	1.1	1	0.392	1	2.619	1	6.678	1	1943	53	2.0
45731.3	10000	41.2007	93.3020	-1261	QK	2.1	1	8.3	2	1.1	1	0.397	1	2.738	1	6.890	1	1970	55	2.0
45731.4	10000	41.2007	93.3011	-1262	QK	2.0	1	8.2	2	1.2	1	0.362	1	2.597	1	7.175	1	1978	42	2.1
45731.5	10000	41.2007	93.3003	-1261	QK	2.5	1	8.2	2	1.2	1	0.347	1	2.488	1	7.162	1	1965	32	2.1
45731.6	10000	41.2007	93.2994	-1262	QK	2.6	1	8.4	2	1.3	1	0.307	-1	2.114	1	6.879	1	1964	50	2.1
45731.7	10000	41.2007	93.2986	-1262	QK	2.4	1	8.2	2	1.3	1	0.314	-1	2.153	1	6.847	1	1964	44	2.1
45731.8	10000	41.2007	93.2977	-1262	QK	2.7	1	8.0	2	1.3	1	0.292	-1	1.878	0	6.440	0	1966	52	2.1
45731.9	10000	41.2007	93.2969	-1262	QK	2.7	1	8.0	2	1.3	1	0.339	0	2.206	1	6.513	0	1978	30	2.1
45732.0	10000	41.2007	93.2961	-1262	QK	2.7	1	8.0	2	1.2	1	0.335	0	2.159	0	6.451	0	1966	42	2.1

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45732.1	10000	41.2007	93.2952	-1261	QK	2.7	0	7.7	1	1.3	1	0.357	0	2.197	0	6.157	0	1971	58	2.1
45732.2	10000	41.2007	93.2943	-1261	QK	2.8	1	7.7	1	1.3	2	0.365	0	2.154	0	5.895	-1	1985	38	2.1
45732.3	10000	41.2007	93.2935	-1260	QK	2.6	0	7.4	0	1.3	2	0.349	0	1.936	-1	5.548	-1	1988	44	2.1
45732.4	10000	41.2007	93.2926	-1260	QK	2.4	0	7.1	0	1.3	2	0.339	0	1.813	-1	5.340	-2	2002	42	2.1
45732.5	10000	41.2007	93.2918	-1260	QK	2.6	0	7.5	0	1.3	2	0.344	0	1.917	-1	5.568	-1	2001	41	2.1
45732.6	10000	41.2007	93.2910	-1259	QK	2.4	0	7.6	0	1.3	2	0.312	-1	1.788	-1	5.736	-1	2006	43	2.1
45732.7	10000	41.2007	93.2901	-1258	QK	2.4	0	7.5	0	1.3	2	0.323	0	1.804	-1	5.587	-1	2015	54	2.1
45732.8	10000	41.2007	93.2893	-1258	QK	2.6	0	7.5	0	1.3	2	0.353	0	2.007	-1	5.689	-1	2027	44	2.1
45732.9	10000	41.2007	93.2884	-1257	QK	2.8	0	7.6	1	1.3	1	0.363	0	2.168	0	5.975	-1	2041	54	2.1
45733.0	10000	41.2007	93.2876	-1256	QK	3.0	1	7.9	1	1.3	1	0.379	0	2.365	0	6.238	0	2055	55	2.1
45733.1	10000	41.2007	93.2867	-1256	QK	3.1	1	8.0	1	1.3	1	0.384	0	2.371	0	6.171	0	2048	56	2.1
45733.2	10000	41.2007	93.2859	-1255	QK	3.2	1	7.7	1	1.3	1	0.419	1	2.577	1	6.155	0	2057	34	2.1
45733.3	10000	41.2007	93.2850	-1255	QK	3.5	2	7.6	0	1.3	1	0.462	2	2.781	1	6.023	-1	2051	47	2.1
45733.4	10000	41.2007	93.2842	-1254	QK	3.6	2	7.4	0	1.2	1	0.482	2	2.896	1	6.004	-1	2052	40	2.1
45733.5	10000	41.2007	93.2833	-1253	QK	3.2	1	7.3	0	1.2	1	0.438	1	2.687	1	6.128	-1	2026	40	2.1
45733.6	10000	41.2007	93.2825	-1252	QK	3.0	1	7.4	0	1.2	1	0.404	1	2.528	1	6.261	0	2020	38	2.1
45733.7	10000	41.2007	93.2816	-1252	QK	3.3	2	7.4	0	1.1	0	0.447	1	2.983	2	6.673	0	2013	45	2.1
45733.8	10000	41.2007	93.2808	-1251	QK	3.1	1	7.4	0	1.0	-1	0.411	1	2.945	1	7.172	1	2019	44	2.1
45733.9	10000	41.2007	93.2799	-1251	QK	3.1	1	7.1	0	1.0	-1	0.431	1	2.952	1	6.853	1	2018	38	2.1
45734.0	10000	41.2007	93.2791	-1250	QK	2.9	1	7.1	0	1.0	-1	0.417	1	2.911	1	6.986	1	1999	34	2.1
45734.1	10000	41.2007	93.2782	-1249	QK	2.7	1	7.2	0	1.0	-1	0.377	0	2.637	1	6.985	1	1992	43	2.1
45734.2	10000	41.2007	93.2774	-1248	QK	2.8	1	7.3	0	1.1	0	0.389	1	2.649	1	6.805	0	1997	46	2.1
45734.3	10000	41.2007	93.2765	-1246	QK	2.7	1	7.3	0	1.1	0	0.372	0	2.441	0	6.553	0	1997	38	2.1
45734.4	10000	41.2007	93.2757	-1245	QK	2.4	0	7.5	0	1.2	0	0.318	0	2.037	0	6.403	0	1996	43	2.1
45734.5	10000	41.2007	93.2748	-1244	QK	2.4	0	7.7	1	1.2	0	0.317	0	2.116	0	6.685	0	1971	44	2.1
45734.6	10000	41.2007	93.2740	-1243	QK	2.3	0	8.0	1	1.2	0	0.290	-1	2.019	-1	6.955	1	1955	48	2.1
45734.7	10000	41.2007	93.2731	-1241	QK	2.0	-1	8.4	1	1.2	-1	0.240	-2	1.657	-1	6.908	1	1962	44	2.1
45734.8	10000	41.2007	93.2723	-1240	QK	2.1	-1	8.8	1	1.2	-1	0.245	-1	1.808	-1	7.383	1	1951	36	2.1
45734.9	10000	41.2007	93.2714	-1238	QK	2.1	-1	8.8	1	1.1	-1	0.249	-1	1.849	-1	7.419	1	1926	56	2.1
45735.0	10000	41.2007	93.2706	-1236	QK	2.2	-1	8.8	1	1.1	-1	0.257	-1	1.938	-1	7.530	2	1886	38	2.1
45735.1	10000	41.2007	93.2697	-1235	QK	2.5	-1	8.8	1	1.1	0	0.270	-1	2.095	-1	7.772	2	1863	65	2.1
45735.2	10000	41.2007	93.2689	-1233	QK	2.5	-1	8.8	1	1.1	0	0.280	-1	2.024	-1	7.224	2	1862	39	2.1
45735.3	10000	41.2007	93.2680	-1232	QK	2.5	-1	8.8	1	1.1	0	0.276	-1	2.075	0	7.522	2	1866	42	2.1
45735.4	10000	41.2007	93.2672	-1231	QK	2.5	-1	8.8	1	1.1	0	0.292	-1	2.301	0	7.876	2	1847	57	2.1
45735.5	10000	41.2007	93.2663	-1230	QK	2.5	-1	8.8	1	1.1	0	0.304	-1	2.307	0	7.591	2	1832	38	2.1
45735.6	10000	41.2007	93.2655	-1228	QK	2.5	-1	8.8	1	1.1	0	0.287	-1	2.215	0	7.716	2	1833	37	2.1
45735.7	10000	41.2007	93.2646	-1228	QK	2.4	-1	8.7	1	1.1	0	0.296	-1	2.393	0	8.085	2	1828	49	2.1
45735.8	10000	41.2007	93.2638	-1226	QK	2.2	-1	8.8	1	1.1	0	0.283	-1	2.302	0	8.121	2	1808	50	2.1
45735.9	10000	41.2007	93.2630	-1228	QK	2.4	-1	8.7	1	1.1	0	0.311	-1	2.632	1	8.454	3	1789	37	2.1
45736.0	10000	41.2007	93.2621	-1228	QK	2.4	-1	7.7	1	1.0	0	0.324	-1	2.515	1	7.754	2	1754	31	2.1
45736.1	10000	41.2007	93.2612	-1229	QK	2.5	-1	7.7	1	1.0	0	0.347	-1	2.575	1	7.424	1	1752	44	2.2
45736.2	10000	41.2007	93.2604	-1230	QK	2.3	-1	7.6	1	0.9	0	0.337	-1	2.520	1	7.469	2	1737	31	2.2
45736.3	10000	41.2007	93.2596	-1231	QK	2.2	-1	7.6	1	0.9	0	0.321	-1	2.446	1	7.625	2	1720	46	2.2
45736.4	10000	41.2007	93.2587	-1232	QK	2.1	-1	7.6	1	0.9	0	0.298	-1	2.168	1	7.285	2	1731	51	2.2
45736.5	10000	41.2007	93.2579	-1234	QK	2.2	-1	7.6	1	1.0	0	0.332	-1	2.337	1	7.040	1	1729	45	2.2
45736.6	10000	41.2007	93.2570	-1236	QK	2.0	-1	7.7	1	1.0	0	0.293	-1	2.176	1	7.427	1	1721	48	2.2
45736.7	10000	41.2007	93.2562	-1238	QK	2.1	-1	7.7	1	1.0	0	0.294	-1	2.185	1	7.420	1	1762	44	2.2
45736.8	10000	41.2007	93.2553	-1241	QK	2.1	-1	7.7	1	1.0	0	0.298	-1	2.209	1	7.421	1	1776	46	2.2
45736.9	10000	41.2007	93.2545	-1243	QK	2.0	-1	7.7	1	1.0	0	0.275	-1	2.012	1	7.306	1	1809	52	2.2
45737.0	10000	41.2007	93.2536	-1247	QK	2.2	-1	7.7	1	1.0	0	0.317	-1	2.216	1	6.990	1	1848	31	2.2
45737.1	10000	41.2007	93.2528	-1250	QK	2.4	-1	7.7	1	1.0	0	0.323	-1	2.309	1	7.157	1	1867	40	2.2
45737.2	10000	41.2007	93.2519	-1254	QK	2.4	0	7.5	1	1.1	-1	0.324	0	2.300	0	7.102	1	1903	44	2.2

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45737.3	10000	41.2007	93.2511	-1255	QK	2.5	0	7.6	0	1.1	0	0.334	0	2.342	0	7.003	1	1934	44	2.2
45737.4	10000	41.2007	93.2502	-1255	QK	2.6	0	7.8	1	1.1	-1	0.333	0	2.452	0	7.360	1	1944	46	2.2
45737.5	10000	41.2007	93.2494	-1261	QK	2.7	0	7.6	1	1.1	-1	0.359	0	2.595	1	7.221	1	1957	44	2.2
45737.6	10000	41.2007	93.2485	-1265	QK	3.0	1	7.7	1	1.1	0	0.388	1	2.780	1	7.163	1	1963	44	2.2
45737.7	10000	41.2007	93.2477	-1268	QK	2.9	1	8.1	1	1.1	0	0.363	0	2.628	1	7.233	1	1960	31	2.2
45737.8	10000	41.2007	93.2468	-1271	QK	2.8	1	7.8	1	1.2	0	0.361	0	2.435	0	6.735	0	1975	46	2.2
45737.9	10000	41.2007	93.2460	-1273	QK	2.6	1	7.6	1	1.2	1	0.343	0	2.205	0	6.430	0	1962	50	2.2
45738.0	10000	41.2007	93.2451	-1275	QK	2.6	0	7.5	0	1.2	1	0.351	0	2.118	0	6.036	-1	1968	47	2.2
45738.1	10000	41.2007	93.2443	-1277	QK	2.7	0	7.4	0	1.2	1	0.360	0	2.177	0	6.052	-1	1954	47	2.2
45738.2	10000	41.2007	93.2434	-1278	QK	2.6	0	7.5	0	1.2	1	0.348	0	2.141	0	6.155	0	1953	41	2.2
45738.3	10000	41.2007	93.2426	-1279	QK	2.4	0	7.9	1	1.2	1	0.305	-1	1.965	-1	6.452	0	1967	38	2.2
45738.4	10000	41.2007	93.2417	-1280	QK	2.4	0	7.7	1	1.2	1	0.311	-1	1.966	-1	6.319	0	1986	46	2.2
45738.5	10000	41.2007	93.2409	-1282	QK	2.1	-1	8.4	2	1.2	1	0.255	-1	1.759	-1	6.909	1	1992	42	2.2
45738.6	10000	41.2007	93.2400	-1282	QK	2.1	-1	8.8	2	1.2	1	0.235	-2	1.682	-1	7.152	1	2009	72	2.2
45738.7	10000	41.2007	93.2392	-1283	QK	2.1	-1	8.8	2	1.2	0	0.238	-2	1.773	-1	7.455	1	2009	38	2.2
45738.8	10000	41.2007	93.2383	-1284	QK	2.1	-1	8.4	2	1.2	0	0.250	-1	1.790	-1	7.170	1	2006	39	2.2
45738.9	10000	41.2007	93.2375	-1284	QK	2.0	-1	8.5	2	1.2	0	0.231	-2	1.659	-1	7.179	1	1988	42	2.2
45739.0	10000	41.2007	93.2366	-1285	QK	2.0	-1	8.0	1	1.2	0	0.246	-1	1.697	-1	6.909	1	1959	42	2.2
45739.1	10000	41.2007	93.2358	-1286	QK	2.1	-1	8.1	1	1.2	0	0.252	-1	1.755	-1	6.955	1	1942	54	2.2
45739.2	10000	41.2007	93.2349	-1287	QK	2.5	0	7.7	1	1.1	0	0.316	0	2.159	0	6.823	0	1938	35	2.2
45739.3	10000	41.2007	93.2341	-1288	QK	2.6	0	7.4	0	1.1	0	0.353	0	2.431	0	6.891	1	1934	51	2.2
45739.4	10000	41.2007	93.2332	-1289	QK	2.6	0	7.5	0	1.1	0	0.343	0	2.302	0	6.706	0	1933	43	2.2
45739.5	10000	41.2006	93.2324	-1289	QK	2.2	-1	7.5	0	1.1	0	0.298	-1	1.986	-1	6.675	0	1942	59	2.2
45739.6	10000	41.2007	93.2316	-1289	QK	2.4	0	7.9	1	1.1	0	0.310	-1	2.139	0	6.894	1	1969	56	2.2
45739.7	10000	41.2007	93.2307	-1288	QK	2.6	0	8.1	1	1.2	0	0.321	0	2.217	0	6.906	1	1980	45	2.2
45739.8	10000	41.2007	93.2298	-1290	QK	2.5	0	7.9	1	1.2	0	0.318	0	2.175	0	6.844	1	2000	58	2.2
45739.9	10000	41.2006	93.2290	-1292	QK	2.6	0	7.8	1	1.2	0	0.337	0	2.272	0	6.735	0	2017	50	2.2
45740.0	10000	41.2007	93.2281	-1292	QK	2.5	0	8.2	1	1.2	1	0.311	-1	2.158	0	6.951	1	2014	58	2.2
45740.1	10000	41.2007	93.2273	-1292	QK	2.7	0	8.5	2	1.1	0	0.314	-1	2.384	0	7.600	2	2022	46	2.3
45740.2	10000	41.2007	93.2265	-1291	QK	2.9	1	8.7	2	1.2	0	0.332	0	2.475	0	7.444	1	2038	54	2.3
45740.3	10000	41.2006	93.2256	-1291	QK	2.5	0	8.4	2	1.2	0	0.297	-1	2.096	0	7.049	1	2046	53	2.3
45740.4	10000	41.2007	93.2247	-1290	QK	2.6	0	8.7	2	1.2	0	0.296	-1	2.149	0	7.253	1	2086	44	2.3
45740.5	10000	41.2007	93.2239	-1290	QK	2.8	1	8.8	2	1.2	0	0.321	0	2.386	0	7.444	1	2104	40	2.3
45740.6	10000	41.2007	93.2230	-1290	QK	2.8	1	8.7	2	1.2	0	0.326	0	2.465	0	7.562	2	2125	46	2.3
45740.7	10000	41.2007	93.2222	-1290	QK	3.2	1	8.5	2	1.2	0	0.381	1	2.800	1	7.341	1	2186	53	2.3
45740.8	10000	41.2007	93.2213	-1290	QK	3.2	1	8.2	2	1.2	0	0.396	1	2.668	1	6.731	0	2231	47	2.3
45740.9	10000	41.2007	93.2204	-1291	QK	3.4	2	8.3	2	1.2	0	0.405	1	2.870	1	7.086	1	2280	28	2.3
45741.0	10000	41.2007	93.2196	-1290	QK	3.8	2	8.5	2	1.2	1	0.444	1	3.168	2	7.129	1	2323	42	2.3
45741.1	10000	41.2007	93.2187	-1289	QK	3.8	2	8.2	2	1.2	1	0.462	2	3.054	2	6.607	0	2330	39	2.3
45741.2	10000	41.2007	93.2178	-1289	QK	3.6	2	8.5	2	1.3	1	0.420	1	2.820	1	6.722	0	2335	44	2.3
45741.3	10000	41.2007	93.2170	-1288	QK	3.4	2	8.5	2	1.3	1	0.406	1	2.716	1	6.689	0	2313	45	2.3
45741.4	10000	41.2007	93.2161	-1287	QK	3.4	2	8.6	2	1.3	1	0.393	1	2.694	1	6.857	1	2286	36	2.3
45741.5	10000	41.2007	93.2152	-1286	QK	3.2	2	8.6	2	1.3	1	0.379	0	2.563	1	6.769	0	2237	38	2.3
45741.6	10000	41.2007	93.2144	-1286	QK	3.2	2	8.4	2	1.3	1	0.378	0	2.556	1	6.768	0	2172	48	2.3
45741.7	10000	41.2007	93.2135	-1285	QK	3.3	2	8.4	2	1.3	1	0.390	1	2.662	1	6.826	0	2122	39	2.3
45741.8	10000	41.2007	93.2126	-1284	QK	3.1	2	8.2	2	1.3	1	0.380	0	2.595	1	6.834	0	2068	32	2.3
45741.9	10000	41.2007	93.2118	-1283	QK	3.1	2	7.6	2	1.3	1	0.407	1	2.546	1	6.254	0	2049	52	2.3
45742.0	10000	41.2007	93.2109	-1282	QK	3.1	2	7.6	2	1.3	1	0.407	1	2.425	1	5.961	-1	2021	34	2.3
45742.1	10000	41.2007	93.2101	-1282	QK	2.7	1	7.0	2	1.3	1	0.393	1	2.146	0	5.463	-1	1987	36	2.3
45742.2	10000	41.2007	93.2092	-1280	QK	2.8	1	7.3	2	1.3	1	0.388	1	2.237	1	5.766	-1	2008	37	2.3
45742.3	10000	41.2007	93.2083	-1279	QK	2.8	1	7.2	2	1.3	1	0.381	0	2.144	1	5.622	-1	2022	50	2.3
45742.4	10000	41.2007	93.2075	-1279	QK	2.6	0	7.1	0	1.3	1	0.367	0	2.040	0	5.562	-1	2025	40	2.3

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FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45742.5	10000	41.2007	93.2066	-1278	QK	2.7	0	7.1	0	1.3	1	0.386	0	2.184	0	5.655	-1	2055	33	2.3
45742.6	10000	41.2007	93.2057	-1277	QK	2.9	1	7.2	0	1.2	1	0.398	1	2.310	0	5.811	-1	2042	57	2.3
45742.7	10000	41.2007	93.2049	-1276	QK	2.8	1	7.6	1	1.2	1	0.369	0	2.367	0	6.418	0	2050	42	2.3
45742.8	10000	41.2007	93.2040	-1276	QK	3.0	1	7.8	1	1.2	1	0.392	1	2.554	1	6.523	0	2050	46	2.3
45742.9	10000	41.2007	93.2031	-1275	QK	2.9	1	7.4	0	1.2	0	0.388	1	2.500	0	6.436	0	2026	52	2.3
45743.0	10000	41.2007	93.2023	-1275	QK	2.7	0	7.4	0	1.1	0	0.364	0	2.407	0	6.604	0	1997	49	2.3
45743.1	10000	41.2007	93.2014	-1275	QK	2.6	0	7.4	0	1.1	0	0.348	0	2.360	0	6.781	0	1989	39	2.3
45743.2	10000	41.2007	93.2005	-1274	QK	2.6	0	7.4	0	1.1	0	0.349	0	2.318	0	6.636	0	1985	54	2.3
45743.3	10000	41.2007	93.1997	-1274	QK	2.5	0	7.7	1	1.1	0	0.326	0	2.203	0	6.767	0	2005	38	2.3
45743.4	10000	41.2007	93.1988	-1274	QK	2.5	0	7.4	0	1.1	0	0.335	0	2.218	0	6.625	0	2005	44	2.3
45743.5	10000	41.2007	93.1980	-1273	QK	2.3	0	7.7	1	1.1	0	0.304	-1	2.094	0	6.888	1	2030	52	2.3
45743.6	10000	41.2007	93.1971	-1273	QK	2.5	0	7.7	1	1.1	0	0.320	0	2.136	0	6.674	0	2036	40	2.3
45743.7	10000	41.2007	93.1962	-1273	QK	2.7	0	8.0	1	1.2	1	0.339	0	2.210	0	6.522	0	2081	46	2.3
45743.8	10000	41.2007	93.1954	-1273	QK	2.6	0	8.0	1	1.3	1	0.326	0	2.061	0	6.317	0	2101	30	2.3
45743.9	10000	41.2007	93.1945	-1273	QK	2.5	0	8.6	2	1.2	1	0.293	-1	2.052	0	7.014	1	2119	47	2.3
45744.0	10000	41.2007	93.1936	-1272	QK	2.7	0	8.0	1	1.2	1	0.335	0	2.255	0	6.738	0	2109	42	2.3
45744.1	10000	41.2007	93.1928	-1270	QK	2.8	1	8.0	1	1.2	1	0.349	0	2.336	0	6.694	0	2115	47	2.3
45744.2	10000	41.2007	93.1919	-1271	QK	2.7	0	8.0	1	1.1	0	0.334	0	2.319	0	6.945	1	2085	42	2.3
45744.3	10000	41.2007	93.1910	-1271	QK	2.5	0	8.2	1	1.1	0	0.312	-1	2.220	0	7.107	1	2100	51	2.3
45744.4	10000	41.2008	93.1902	-1272	QK	2.5	0	8.1	1	1.1	0	0.308	-1	2.223	0	7.228	1	2084	45	2.3
45744.5	10000	41.2008	93.1893	-1271	QK	2.6	0	8.3	2	1.1	0	0.310	-1	2.319	0	7.472	1	2078	51	2.3
45744.6	10000	41.2008	93.1884	-1271	QK	2.6	0	7.8	1	1.2	0	0.330	0	2.188	0	6.636	0	2057	43	2.3
45744.7	10000	41.2008	93.1876	-1270	QK	2.4	0	8.0	1	1.2	0	0.304	-1	2.094	0	6.893	1	2048	46	2.3
45744.8	10000	41.2008	93.1867	-1269	QK	2.6	0	7.8	1	1.2	0	0.335	0	2.247	0	6.701	0	2036	37	2.3
45744.9	10000	41.2008	93.1859	-1268	QK	3.0	1	7.9	1	1.2	1	0.377	0	2.486	0	6.590	0	2051	47	2.3
45745.0	10000	41.2008	93.1850	-1268	QK	2.9	1	7.8	1	1.2	1	0.364	0	2.338	0	6.426	0	2042	40	2.3
45745.1	10000	41.2008	93.1841	-1267	QK	2.8	1	7.8	1	1.2	1	0.362	0	2.292	0	6.339	0	2042	49	2.3
45745.2	10000	41.2008	93.1833	-1266	QK	3.1	1	7.5	1	1.2	1	0.406	1	2.561	1	6.300	0	2045	43	2.3
45745.3	10000	41.2008	93.1824	-1265	QK	3.3	2	7.9	1	1.2	1	0.417	1	2.899	1	6.955	1	2076	37	2.3
45745.4	10000	41.2008	93.1815	-1265	QK	3.5	2	7.9	1	1.2	1	0.440	1	2.976	1	6.770	0	2100	38	2.3
45745.5	10000	41.2008	93.1807	-1263	QK	3.4	1	8.1	1	1.2	1	0.422	1	2.880	1	6.828	0	2134	38	2.3
45745.6	10000	41.2008	93.1798	-1262	QK	3.0	1	7.9	1	1.2	1	0.386	0	2.599	1	6.739	0	2137	34	2.3
45745.7	10000	41.2008	93.1789	-1261	QK	3.2	2	8.3	1	1.2	1	0.389	0	2.780	1	7.139	1	2139	52	2.3
45745.8	10000	41.2008	93.1781	-1260	QK	3.2	2	8.0	1	1.1	1	0.403	0	2.911	1	7.229	1	2129	38	2.3
45745.9	10000	41.2008	93.1772	-1259	QK	3.3	2	7.9	1	1.1	1	0.418	0	2.984	2	7.133	1	2120	29	2.3
45746.0	10000	41.2008	93.1763	-1258	QK	3.1	2	7.4	1	1.1	1	0.419	0	2.698	1	6.435	0	2091	35	2.3
45746.1	10000	41.2008	93.1755	-1256	QK	2.6	1	7.2	0	1.1	1	0.357	0	2.251	0	6.303	0	2077	39	2.3
45746.2	10000	41.2008	93.1746	-1255	QK	2.3	0	7.2	0	1.1	2	0.320	0	1.982	-1	6.199	0	2058	44	2.3
45746.3	10000	41.2008	93.1738	-1255	QK	2.5	0	7.4	0	1.1	1	0.338	0	2.250	0	6.666	0	2047	53	2.3
45746.4	10000	41.2008	93.1729	-1253	QK	2.7	0	6.9	0	1.1	1	0.398	0	2.508	0	6.307	0	2048	49	2.3
45746.5	10000	41.2008	93.1720	-1251	QK	2.8	0	6.8	-1	1.1	2	0.410	0	2.477	0	6.043	-1	2042	45	2.3
45746.6	10000	41.2008	93.1712	-1251	QK	2.6	0	7.0	1	1.2	2	0.377	0	2.262	0	6.007	-1	2041	43	2.3
45746.7	10000	41.2008	93.1703	-1249	QK	2.6	0	7.1	1	1.2	1	0.357	0	2.147	0	6.012	-1	2041	57	2.3
45746.8	10000	41.2008	93.1694	-1248	QK	2.8	0	7.3	1	1.1	1	0.388	0	2.468	0	6.354	0	2025	38	2.3
45746.9	10000	41.2008	93.1686	-1247	QK	2.9	0	7.3	1	1.2	1	0.415	0	2.568	0	6.183	0	2012	53	2.3
45747.0	10000	41.2008	93.1677	-1246	QK	2.7	0	7.6	1	1.2	2	0.392	0	2.249	0	5.737	-1	2008	52	2.3
45747.1	10000	41.2008	93.1668	-1245	QK	2.6	0	7.7	1	1.2	2	0.357	0	2.136	0	5.984	-1	2009	43	2.3
45747.2	10000	41.2008	93.1660	-1244	QK	2.5	0	7.7	1	1.2	2	0.329	0	2.093	0	6.367	-1	2022	47	2.3
45747.3	10000	41.2008	93.1651	-1241	QK	2.3	0	7.7	1	1.2	2	0.305	-1	1.941	-1	6.373	0	2013	44	2.3
45747.4	10000	41.2008	93.1642	-1241	QK	2.6	0	7.9	1	1.2	2	0.325	0	2.128	0	6.543	0	2010	54	2.3
45747.5	10000	41.2008	93.1634	-1240	QK	2.7	0	8.1	1	1.2	2	0.338	0	2.168	0	6.405	0	2010	42	2.3
45747.6	10000	41.2008	93.1625	-1239	QK	2.5	0	8.1	1	1.2	1	0.305	-1	1.999	-1	6.551	0	2012	35	2.3

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FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45747.7	10000	41.2008	93.1616	-1238	QK	2.6	0	8.0	1	1.2	1	0.329	0	2.128	0	6.464	0	2019	51	2.3
45747.8	10000	41.2008	93.1608	-1237	QK	2.7	0	7.8	1	1.2	1	0.348	0	2.201	0	6.320	0	2013	40	2.3
45747.9	10000	41.2008	93.1599	-1235	QK	2.5	0	8.0	1	1.3	1	0.317	0	2.030	0	6.404	0	2009	45	2.3
45748.0	10000	41.2008	93.1591	-1234	QK	2.6	0	8.1	1	1.3	1	0.325	0	2.082	0	6.409	0	2015	52	2.3
45748.1	10000	41.2008	93.1582	-1233	QK	2.5	0	7.8	1	1.2	1	0.322	0	2.042	0	6.352	0	2013	44	2.3
45748.2	10000	41.2008	93.1573	-1232	QK	2.3	0	7.8	1	1.2	1	0.295	-1	1.877	-1	6.369	0	2003	53	2.3
45748.3	10000	41.2008	93.1565	-1231	QK	2.5	0	8.0	1	1.2	1	0.314	-1	2.087	0	6.658	0	2011	43	2.3
45748.4	10000	41.2008	93.1556	-1230	QK	2.6	0	7.9	1	1.2	0	0.333	0	2.220	0	6.665	0	2007	42	2.3
45748.5	10000	41.2009	93.1547	-1228	QK	2.5	0	7.9	1	1.2	0	0.313	-1	2.123	0	6.789	0	2000	38	2.3
45748.6	10000	41.2009	93.1539	-1227	QK	2.7	0	7.4	0	1.1	0	0.366	0	2.419	0	6.610	0	1978	45	2.3
45748.7	10000	41.2009	93.1530	-1226	QK	2.6	0	7.5	0	1.1	-1	0.347	0	2.454	0	7.066	1	1966	47	2.3
45748.8	10000	41.2009	93.1521	-1225	QK	2.7	0	7.4	0	1.0	-1	0.362	0	2.683	1	7.411	1	1938	46	2.3
45748.9	10000	41.2009	93.1513	-1223	QK	2.6	0	7.5	0	1.0	-1	0.348	0	2.739	1	7.865	2	1935	49	2.3
45749.0	10000	41.2009	93.1504	-1222	QK	2.6	0	7.6	0	1.0	-1	0.340	0	2.486	0	7.317	1	1910	45	2.3
45749.1	10000	41.2009	93.1495	-1221	QK	2.5	0	7.8	1	1.1	0	0.316	0	2.315	0	7.327	1	1918	50	2.3
45749.2	10000	41.2009	93.1487	-1220	QK	2.6	0	7.9	1	1.0	-1	0.327	0	2.518	1	7.706	2	1908	54	2.3
45749.3	10000	41.2009	93.1478	-1219	QK	2.7	0	7.9	1	1.1	0	0.340	0	2.518	1	7.398	1	1927	52	2.3
45749.4	10000	41.2009	93.1469	-1219	QK	2.8	1	7.6	0	1.1	0	0.366	0	2.563	1	6.996	1	1920	38	2.3
45749.5	10000	41.2009	93.1461	-1217	QK	2.7	0	8.0	1	1.1	0	0.345	0	2.433	0	7.056	1	1938	44	2.3
45749.6	10000	41.2009	93.1452	-1217	QK	3.0	1	7.8	1	1.2	0	0.388	1	2.615	1	6.733	0	1951	47	2.2
45749.7	10000	41.2009	93.1444	-1216	QK	3.1	1	7.8	1	1.1	0	0.403	1	2.743	1	6.798	0	1976	37	2.2
45749.8	10000	41.2009	93.1435	-1215	QK	3.3	2	7.5	0	1.1	0	0.435	1	2.953	1	6.794	0	1985	43	2.2
45749.9	10000	41.2009	93.1426	-1215	QK	3.1	1	7.5	0	1.1	0	0.407	1	2.745	1	6.748	0	1984	54	2.2
45750.0	10000	41.2009	93.1418	-1214	QK	2.9	1	7.6	1	1.1	0	0.380	0	2.606	1	6.852	1	1979	43	2.2
45750.1	10000	41.2009	93.1409	-1213	QK	3.1	1	7.8	1	1.1	0	0.394	1	2.711	1	6.889	1	1993	49	2.2
45750.2	10000	41.2009	93.1400	-1212	QK	3.0	1	7.6	1	1.1	0	0.398	1	2.758	1	6.931	1	1984	37	2.2
45750.3	10000	41.2009	93.1392	-1212	QK	2.7	1	7.9	1	1.1	0	0.340	1	2.542	1	7.470	1	1978	50	2.2
45750.4	10000	41.2009	93.1383	-1213	QK	2.5	1	8.1	1	1.1	0	0.312	-1	2.465	1	7.894	2	1974	44	2.2
45750.5	10000	41.2009	93.1374	-1212	QK	2.3	1	8.6	2	1.1	-1	0.269	-1	2.213	2	8.224	2	1959	37	2.2
45750.6	10000	41.2009	93.1366	-1213	QK	2.4	1	8.8	2	1.1	-1	0.291	-1	2.273	2	7.810	2	1975	51	2.2
45750.7	10000	41.2009	93.1357	-1213	QK	2.8	1	8.6	2	1.1	-1	0.333	0	2.708	1	8.145	2	1982	44	2.2
45750.8	10000	41.2009	93.1348	-1213	QK	2.6	1	8.8	2	1.1	-1	0.313	0	2.729	1	8.711	3	1989	47	2.2
45750.9	10000	41.2009	93.1340	-1213	QK	2.7	1	8.5	2	1.1	-1	0.329	0	2.787	1	8.483	3	2014	41	2.2
45751.0	10000	41.2009	93.1331	-1213	QK	2.9	1	8.3	2	1.1	-1	0.351	0	2.755	1	7.857	2	2031	39	2.2
45751.1	10000	41.2009	93.1322	-1214	QK	3.0	1	8.2	2	1.1	-1	0.376	0	2.809	1	7.477	1	2044	46	2.2
45751.2	10000	41.2009	93.1314	-1215	QK	2.9	1	8.0	2	1.1	-1	0.365	0	2.706	1	7.405	1	2046	41	2.2
45751.3	10000	41.2009	93.1305	-1216	QK	3.0	1	8.0	2	1.1	-1	0.374	0	2.771	1	7.410	1	2051	43	2.2
45751.4	10000	41.2009	93.1297	-1217	QK	2.8	1	8.2	2	1.1	-1	0.338	0	2.483	1	7.356	1	2074	34	2.2
45751.5	10000	41.2009	93.1288	-1218	QK	2.9	1	8.4	2	1.1	-1	0.339	0	2.497	1	7.360	1	2086	44	2.2
45751.6	10000	41.2009	93.1279	-1218	QK	2.8	1	8.5	2	1.1	-1	0.327	0	2.340	1	7.161	1	2093	42	2.2
45751.7	10000	41.2009	93.1271	-1220	QK	3.0	1	8.3	2	1.1	-1	0.352	0	2.622	1	7.449	1	2105	39	2.2
45751.8	10000	41.2009	93.1262	-1221	QK	3.1	1	8.4	2	1.1	-1	0.369	0	2.814	2	7.630	2	2087	51	2.1
45751.9	10000	41.2009	93.1253	-1222	QK	3.1	1	8.1	2	1.1	-1	0.389	0	2.969	2	7.639	2	2091	38	2.1
45752.0	10000	41.2009	93.1245	-1223	QK	3.0	1	8.1	2	1.1	-1	0.370	0	2.912	2	7.860	2	2084	43	2.1
45752.1	10000	41.2009	93.1236	-1223	QK	3.0	1	8.1	2	1.1	-1	0.374	0	2.905	2	7.766	2	2049	43	2.1
45752.2	10000	41.2009	93.1227	-1224	QK	2.9	1	7.9	2	1.1	-1	0.367	0	2.561	2	6.973	2	2033	48	2.1
45752.3	10000	41.2009	93.1219	-1225	QK	2.7	1	7.7	2	1.1	-1	0.349	0	2.372	2	6.797	2	2010	43	2.1
45752.4	10000	41.2009	93.1210	-1226	QK	2.5	1	7.7	2	1.2	-1	0.280	-1	1.839	1	6.561	2	1983	37	2.1
45752.5	10000	41.2009	93.1201	-1227	QK	2.2	1	7.8	2	1.3	-1	0.248	-1	1.622	1	6.540	2	2002	50	2.1
45752.6	10000	41.2009	93.1193	-1228	QK	2.0	1	7.8	2	1.3	-1	0.272	-1	1.729	1	6.351	2	2006	32	2.1
45752.7	10000	41.2009	93.1184	-1229	QK	2.5	1	7.9	2	1.2	-1	0.306	-1	1.983	1	6.484	2	2031	33	2.1
45752.8	10000	41.2009	93.1176	-1230	QK	2.9	1	7.9	2	1.2	1	0.366	0	2.353	0	6.420	0	2056	41	2.1

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45752.9	10000	41.2009	93.1167	-1230	QK	3.0	1	7.8	1	1.1	0	0.382	0	2.615	1	6.851	1	2064	44	2.1
45753.0	10000	41.2009	93.1158	-1231	QK	3.1	1	8.1	1	1.1	0	0.383	0	2.927	1	7.635	2	2061	36	2.1
45753.1	10000	41.2009	93.1150	-1232	QK	3.6	2	8.2	1	1.0	-1	0.443	1	3.605	3	8.142	2	2077	51	2.1
45753.2	10000	41.2009	93.1141	-1232	QK	3.7	3	7.8	1	1.0	-1	0.478	2	3.939	4	8.237	2	2049	33	2.1
45753.3	10000	41.2009	93.1132	-1233	QK	3.6	2	8.2	1	0.9	-2	0.447	1	3.883	3	8.690	3	2037	39	2.0
45753.4	10000	41.2009	93.1124	-1234	QK	3.3	2	8.1	1	0.9	-1	0.405	1	3.450	2	8.525	3	2020	52	2.0
45753.5	10000	41.2009	93.1115	-1235	QK	3.0	1	7.7	2	1.0	-1	0.340	0	3.081	2	9.050	4	2022	43	2.0
45753.6	10000	41.2009	93.1106	-1236	QK	3.0	1	8.9	2	1.0	-1	0.339	0	3.046	2	8.998	4	2037	42	2.0
45753.7	10000	41.2009	93.1098	-1238	QK	2.9	1	8.9	2	1.1	-1	0.330	0	2.784	1	8.428	3	2054	46	2.0
45753.8	10000	41.2009	93.1089	-1238	QK	2.7	0	8.6	2	1.1	0	0.315	-1	2.362	0	7.505	1	2045	49	2.0
45753.9	10000	41.2009	93.1080	-1239	QK	2.6	0	8.8	2	1.2	1	0.300	-1	2.188	0	7.292	1	2060	54	2.0
45754.0	10000	41.2010	93.1072	-1239	QK	2.6	0	8.6	2	1.3	1	0.304	-1	2.097	0	6.890	1	2067	52	2.0
45754.1	10000	41.2010	93.1063	-1240	QK	2.8	1	8.4	2	1.3	1	0.335	0	2.202	0	6.578	0	2070	44	2.0
45754.2	10000	41.2010	93.1055	-1241	QK	2.7	0	7.8	1	1.3	2	0.345	0	2.061	0	5.964	-1	2062	36	2.0
45754.3	10000	41.2010	93.1046	-1242	QK	2.6	0	7.8	1	1.3	2	0.339	0	1.967	-1	5.796	-1	2042	42	2.0
45754.4	10000	41.2010	93.1037	-1243	QK	2.9	1	7.7	1	1.3	2	0.375	0	2.165	0	5.770	-1	2052	49	2.0
45754.5	10000	41.2010	93.1029	-1244	QK	3.2	1	7.7	1	1.3	1	0.416	1	2.537	1	6.095	-1	2068	42	2.0
45754.6	10000	41.2010	93.1020	-1245	QK	3.4	2	7.8	1	1.2	1	0.436	1	2.730	1	6.269	0	2102	30	2.0
45754.7	10000	41.2010	93.1011	-1246	QK	3.4	2	7.8	1	1.2	1	0.434	1	2.842	1	6.547	0	2133	47	2.0
45754.8	10000	41.2010	93.1003	-1247	QK	3.2	1	8.2	1	1.2	0	0.395	1	2.730	1	6.917	1	2144	37	2.0
45754.9	10000	41.2010	93.0994	-1248	QK	3.4	2	8.4	2	1.1	0	0.410	1	3.023	2	7.374	1	2147	39	1.9
45755.0	10000	41.2010	93.0985	-1249	QK	3.4	2	8.0	1	1.1	0	0.422	1	3.043	2	7.218	1	2137	45	1.9
45755.1	10000	41.2010	93.0977	-1251	QK	3.1	1	7.9	1	1.1	0	0.393	1	2.847	1	7.237	1	2115	37	1.9
45755.2	10000	41.2010	93.0968	-1252	QK	3.0	1	8.3	1	1.1	0	0.366	0	2.822	1	7.710	2	2095	39	1.9
45755.3	10000	41.2010	93.0959	-1253	QK	3.2	1	8.0	1	1.0	-1	0.395	1	3.091	2	7.822	2	2061	40	1.9
45755.4	10000	41.2010	93.0951	-1254	QK	3.2	1	7.6	1	1.0	-1	0.417	1	3.244	2	7.777	2	2026	44	1.9
45755.5	10000	41.2010	93.0942	-1254	QK	3.3	2	7.3	1	1.0	-1	0.455	1	3.419	3	7.519	1	1996	48	1.9
45755.6	10000	41.2010	93.0934	-1255	QK	3.2	1	7.2	1	1.0	-1	0.443	1	3.262	3	7.361	1	1973	34	1.9
45755.7	10000	41.2010	93.0925	-1256	QK	3.5	2	7.6	1	1.0	-1	0.461	2	3.554	3	7.706	2	1987	47	1.9
45755.8	10000	41.2010	93.0916	-1257	QK	3.4	2	7.4	1	0.9	-1	0.465	2	3.652	3	7.858	2	1976	44	1.9
45755.9	10000	41.2010	93.0907	-1258	QK	3.5	2	7.2	1	1.0	-1	0.477	2	3.518	3	7.377	1	1987	45	1.9
45756.0	10000	41.2010	93.0898	-1259	QK	3.1	1	7.4	1	1.0	-1	0.425	1	3.219	2	7.572	2	1979	35	1.9
45756.1	10000	41.2010	93.0890	-1259	QK	3.2	1	7.6	1	1.0	-1	0.425	1	3.194	2	7.520	2	1986	56	1.9
45756.2	10000	41.2010	93.0881	-1260	QK	3.0	1	7.7	1	1.0	-1	0.386	0	3.068	2	7.941	2	1986	35	1.9
45756.3	10000	41.2010	93.0872	-1260	QK	2.9	1	7.9	1	1.0	-1	0.365	0	2.969	2	8.132	2	1991	54	1.8
45756.4	10000	41.2010	93.0863	-1260	QK	2.8	1	7.7	1	1.0	-1	0.367	0	2.852	2	7.776	2	1985	58	1.8
45756.5	10000	41.2010	93.0854	-1260	QK	2.9	1	7.6	1	1.0	-1	0.379	0	2.933	2	7.731	2	1977	42	1.8
45756.6	10000	41.2010	93.0846	-1259	QK	3.0	1	7.5	1	1.0	-1	0.400	1	3.068	2	7.674	2	1959	42	1.8
45756.7	10000	41.2010	93.0837	-1259	QK	3.2	1	7.3	1	1.1	-1	0.438	1	3.091	2	7.065	1	1953	50	1.8
45756.8	10000	41.2010	93.0828	-1260	QK	3.1	1	7.4	1	1.1	-1	0.422	1	2.938	2	6.968	1	1942	42	1.8
45756.9	10000	41.2010	93.0819	-1260	QK	3.1	1	7.5	1	1.1	0	0.406	1	2.749	1	6.770	0	1946	47	1.8
45757.0	10000	41.2010	93.0811	-1260	QK	2.9	1	7.1	1	1.1	0	0.415	1	2.591	1	6.245	0	1934	44	1.8
45757.1	10000	41.2010	93.0802	-1260	QK	2.7	1	7.4	1	1.1	0	0.364	0	2.378	1	6.535	0	1917	48	1.8
45757.2	10000	41.2010	93.0793	-1260	QK	2.8	1	7.5	1	1.2	0	0.366	0	2.388	1	6.521	0	1917	28	1.8
45757.3	10000	41.2010	93.0784	-1259	QK	2.7	1	7.8	1	1.2	1	0.343	0	2.303	1	6.714	0	1921	38	1.8
45757.4	10000	41.2009	93.0775	-1259	QK	2.4	1	7.5	1	1.1	1	0.315	0	2.068	1	6.556	0	1906	40	1.8
45757.5	10000	41.2009	93.0767	-1258	QK	2.4	1	7.6	1	1.2	1	0.315	0	2.088	1	6.622	0	1895	44	1.8
45757.6	10000	41.2009	93.0758	-1258	QK	2.5	1	7.5	1	1.2	1	0.339	0	2.158	1	6.376	0	1895	61	1.8
45757.7	10000	41.2009	93.0749	-1257	QK	2.7	1	7.6	1	1.2	1	0.34,	0	2.209	1	6.336	0	1903	35	1.8
45757.8	10000	41.2009	93.0740	-1257	QK	2.8	1	7.5	1	1.2	1	0.377	0	2.374	1	6.290	0	1909	48	1.8
45757.9	10000	41.2009	93.0731	-1256	QK	2.8	1	7.5	1	1.2	1	0.371	0	2.282	1	6.151	0	1917	42	1.8
45758.0	10000	41.2009	93.0723	-1255	QK	2.8	1	7.5	0	1.2	1	0.382	0	2.286	0	5.983	-1	1926	42	1.8

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45758.1	10000	41.2009	93.0714	-1255	QK	3.1	1	7.6	0	1.2	1	0.406	1	2.492	0	6.140	0	1940	45	1.7
45758.2	10000	41.2009	93.0705	-1254	QK	3.0	1	7.9	1	1.2	1	0.373	0	2.426	0	6.504	0	1965	39	1.7
45758.3	10000	41.2009	93.0696	-1253	QK	2.9	1	7.9	1	1.2	1	0.369	0	2.432	0	6.588	0	1973	36	1.7
45758.4	10000	41.2009	93.0687	-1251	QK	2.8	0	8.1	1	1.2	0	0.341	0	2.355	0	6.913	1	1981	44	1.7
45758.5	10000	41.2009	93.0679	-1250	QK	2.6	0	8.4	2	1.2	1	0.314	-1	2.213	0	7.049	1	1995	45	1.7
45758.6	10000	41.2009	93.0670	-1248	QK	2.8	1	8.5	2	1.2	0	0.334	0	2.406	0	7.208	1	2018	44	1.7
45758.7	10000	41.2009	93.0661	-1246	QK	2.4	0	8.4	2	1.2	0	0.291	-1	2.111	0	7.245	1	2024	33	1.7
45758.8	10000	41.2009	93.0652	-1244	QK	2.4	0	8.8	2	1.2	1	0.271	-1	1.998	-1	7.383	1	2017	38	1.7
45758.9	10000	41.2009	93.0643	-1242	QK	2.2	-1	8.5	2	1.2	1	0.257	-1	1.821	-1	7.085	1	1990	47	1.7
45759.0	10000	41.2009	93.0635	-1239	QK	2.1	-1	8.5	2	1.2	0	0.250	-1	1.820	-1	7.292	1	1972	58	1.7
45759.1	10000	41.2009	93.0626	-1236	QK	2.1	-1	8.4	2	1.2	0	0.253	-1	1.830	-1	7.236	1	1944	37	1.7
45759.2	10000	41.2009	93.0617	-1233	QK	2.2	-1	8.1	1	1.1	0	0.267	-1	1.921	-1	7.184	1	1915	33	1.7
45759.3	10000	41.2009	93.0608	-1229	QK	2.0	-1	8.3	1	1.1	0	0.240	-2	1.749	-1	7.288	1	1882	44	1.7
45759.4	10000	41.2009	93.0600	-1225	QK	2.2	-1	8.2	1	1.2	0	0.274	-1	1.936	-1	7.055	1	1856	55	1.7
45759.5	10000	41.2009	93.0591	-1221	QK	2.1	-1	8.0	1	1.2	0	0.260	-1	1.789	-1	6.892	1	1860	32	1.7
45759.6	10000	41.2009	93.0582	-1215	QK	2.3	0	7.7	1	1.2	1	0.302	-1	1.942	-1	6.429	0	1877	50	1.7
45759.7	10000	41.2009	93.0573	-1209	QK	2.2	-1	7.9	1	1.2	1	0.278	-1	1.854	-1	6.668	0	1872	41	1.7
45759.8	10000	41.2009	93.0564	-1202	QK	2.4	0	8.1	1	1.2	1	0.291	-1	1.944	-1	6.687	0	1901	43	1.7
45759.9	10000	41.2009	93.0556	-1195	QK	2.6	0	8.1	1	1.3	1	0.322	0	2.059	0	6.393	0	1933	32	1.7
45760.0	10000	41.2009	93.0547	-1187	QK	2.8	1	8.0	1	1.3	1	0.350	0	2.229	0	6.364	0	1957	46	1.6
45760.1	10000	41.2009	93.0538	-1178	QK	2.9	1	7.9	1	1.2	1	0.366	0	2.349	0	6.414	0	1972	44	1.6
45760.2	10000	41.2009	93.0529	-1169	QK	2.9	1	8.0	1	1.2	1	0.356	0	2.405	0	6.753	0	1963	48	1.6
45760.3	10000	41.2009	93.0520	-1159	QK	3.1	2	8.2	1	1.1	0	0.375	0	2.724	1	7.267	1	1962	45	1.6
45760.4	10000	41.2009	93.0512	-1149	QK	3.3	2	7.9	1	1.2	0	0.411	1	2.806	1	6.825	0	1962	42	1.6
45760.5	10000	41.2009	93.0503	-1136	QK	3.2	1	7.9	1	1.1	0	0.408	1	2.862	1	7.015	1	1948	41	1.6
45760.6	10000	41.2009	93.0494	-1121	QK	3.0	1	8.3	2	1.1	0	0.364	0	2.819	1	7.754	2	1930	46	1.6
45760.7	10000	41.2009	93.0485	-1110	QK	3.0	1	8.2	1	1.1	0	0.360	0	2.727	1	7.565	2	1923	48	1.6
45760.8	10000	41.2009	93.0477	-1100	QK	2.8	1	8.0	1	1.1	0	0.352	0	2.540	1	7.221	1	1918	41	1.6
45760.9	10000	41.2009	93.0468	-1087	QK	3.0	1	8.3	2	1.1	0	0.355	0	2.633	1	7.413	1	1911	46	1.6
45761.0	10000	41.2009	93.0459	-1073	QK	2.6	1	8.4	2	1.1	0	0.308	-1	2.267	1	7.352	1	1899	47	1.6
45761.1	10000	41.2009	93.0450	-1059	QK	2.8	1	8.1	2	1.2	0	0.346	0	2.383	1	6.890	1	1913	47	1.6
45761.2	10000	41.2009	93.0441	-1045	QK	2.7	1	7.7	1	1.2	0	0.357	0	2.363	1	6.613	0	1905	42	1.6
45761.3	10000	41.2009	93.0433	-1031	QK	2.9	1	7.0	1	1.1	1	0.413	1	2.512	1	6.082	-1	1888	44	1.6
45761.4	10000	41.2009	93.0424	-1016	QK	2.8	1	7.0	1	1.1	1	0.406	1	2.571	1	6.333	0	1850	43	1.6
45761.5	10000	41.2009	93.0415	-1003	QK	2.7	1	7.1	0	1.1	1	0.377	0	2.512	1	6.659	0	1830	32	1.6
45761.6	10000	41.2009	93.0406	-989	QK	2.6	0	6.7	0	1.1	0	0.395	1	2.509	1	6.349	0	1828	29	1.6
45761.7	10000	41.2009	93.0397	-976	QK	2.7	-1	6.5	-1	1.1	0	0.413	1	2.54	1	6.154	0	1822	47	1.6
45761.8	10000	41.2009	93.0389	-963	QK	2.2	-1	6.9	-1	1.1	0	0.322	0	2.213	1	6.868	1	1797	67	1.6
45761.9	10000	41.2009	93.0380	-950	QK	2.4	-1	6.8	-1	1.1	0	0.353	0	2.476	1	7.012	1	1795	47	1.6
45762.0	10000	41.2009	93.0371	-938	QK	2.3	-1	7.2	-1	1.1	0	0.324	0	2.266	0	6.986	1	1801	34	1.6
45762.1	10000	41.2009	93.0362	-926	QK	2.1	-1	7.7	-1	1.1	0	0.290	-1	1.999	-1	6.891	1	1825	49	1.6
45762.2	10000	41.2008	93.0353	-915	QK	2.1	-1	7.8	-1	1.1	0	0.270	-1	1.927	-1	7.139	1	1841	44	1.6
45762.3	10000	41.2008	93.0345	-904	QK	2.2	-1	7.9	-1	1.2	0	0.279	-1	1.922	-1	6.881	1	1860	44	1.6
45762.4	10000	41.2008	93.0336	-893	QK	2.3	-1	8.3	-1	1.1	0	0.284	-1	2.070	0	7.299	1	1873	33	1.6
45762.5	10000	41.2008	93.0327	-883	QK	2.4	-1	8.1	-1	1.2	0	0.299	-1	1.986	-1	6.641	0	1906	37	1.6
45762.6	10000	41.2008	93.0318	-874	QK	2.1	-1	8.6	-1	1.3	0	0.249	-1	1.685	-1	6.772	0	1924	35	1.6
45762.7	10000	41.2008	93.0309	-865	QK	2.2	-1	8.8	-1	1.3	0	0.245	-1	1.662	-1	6.785	0	1949	38	1.6
45762.8	10000	41.2008	93.0301	-857	QK	2.4	-1	8.7	-1	1.3	0	0.274	-1	1.815	-1	6.624	0	1974	38	1.5
45762.9	10000	41.2008	93.0292	-849	QK	2.4	-1	8.5	-1	1.3	0	0.282	-1	1.828	-1	6.487	0	1985	45	1.5
45763.0	10000	41.2008	93.0283	-842	QK	2.7	-1	8.4	-1	1.3	1	0.319	0	2.064	0	6.477	0	1996	50	1.5
45763.1	10000	41.2008	93.0274	-834	QK	2.7	-1	8.3	-1	1.3	1	0.327	0	2.046	0	6.252	0	2003	49	1.5
45763.2	10000	41.2008	93.0266	-828	QK	2.6	0	8.4	2	1.3	1	0.316	0	2.037	0	6.447	0	2000	50	1.5

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FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45763.3	10000	41.2008	93.0257	-822	QK	2.9	1	8.1	1	1.3	2	0.358	0	2.188	0	6.110	-1	2005	52	1.5
45763.4	10000	41.2008	93.0248	-816	QK	2.8	1	8.0	1	1.3	1	0.357	0	2.189	0	6.139	0	1989	40	1.5
45763.5	10000	41.2008	93.0239	-810	QK	2.8	1	8.1	1	1.3	2	0.350	0	2.155	0	6.156	0	1971	32	1.5
45763.6	10000	41.2008	93.0230	-805	QK	3.1	1	8.2	1	1.3	1	0.376	0	2.375	0	6.312	0	1955	46	1.5
45763.7	10000	41.2008	93.0222	-800	QK	2.5	0	8.0	1	1.3	1	0.316	0	1.989	-1	6.287	0	1909	50	1.5
45763.8	10000	41.2008	93.0213	-794	QK	2.4	0	7.7	1	1.3	1	0.313	-1	1.936	-1	6.185	0	1863	34	1.5
45763.9	10000	41.2008	93.0204	-790	QK	2.7	0	7.2	0	1.2	0	0.375	0	2.305	0	6.152	0	1832	39	1.5
45764.0	10000	41.2008	93.0195	-784	QK	2.8	1	7.6	0	1.1	0	0.370	0	2.478	0	6.705	0	1817	44	1.5
45764.1	10000	41.2008	93.0186	-777	QK	2.7	0	7.2	0	1.2	0	0.368	0	2.311	0	6.283	0	1808	47	1.5
45764.2	10000	41.2008	93.0178	-771	QK	2.5	0	6.7	-1	1.1	0	0.379	0	2.241	0	5.911	-1	1791	38	1.5
45764.3	10000	41.2008	93.0169	-769	QK	2.5	0	6.4	-1	1.1	0	0.397	1	2.265	0	5.702	-1	1786	42	1.5
45764.4	10000	41.2008	93.0160	-771	QK	2.9	1	6.0	-2	1.1	0	0.480	2	2.676	1	5.581	-1	1812	35	1.5
45764.5	10000	41.2008	93.0151	-770	QK	2.7	0	6.0	-2	1.1	-1	0.457	1	2.595	1	5.677	-1	1832	41	1.5
45764.6	10000	41.2008	93.0143	-768	QK	2.8	1	6.2	-1	1.1	-1	0.451	1	2.655	1	5.886	-1	1844	36	1.5
45764.7	10000	41.2008	93.0134	-766	QK	2.7	0	5.7	-2	1.1	0	0.470	2	2.515	1	5.351	-2	1830	44	1.6
45764.8	10000	41.2008	93.0125	-764	QK	2.8	1	5.8	-2	1.0	-1	0.483	2	2.793	1	5.776	-1	1831	55	1.6
45764.9	10000	41.2008	93.0116	-763	QK	3.1	1	5.9	-2	1.0	-1	0.519	2	3.088	2	5.949	-1	1832	50	1.6
45765.0	10000	41.2008	93.0107	-763	QK	2.8	1	5.9	-2	1.0	-1	0.485	2	2.860	1	5.896	-1	1820	38	1.6
45765.1	10000	41.2008	93.0099	-763	QK	2.7	0	6.1	-2	1.1	0	0.446	1	2.509	1	5.620	-1	1813	34	1.6
45765.2	10000	41.2008	93.0090	-763	QK	2.8	1	6.1	-1	1.1	0	0.456	1	2.534	1	5.552	-1	1806	33	1.6
45765.3	10000	41.2008	93.0081	-764	QK	2.7	0	6.3	-1	1.1	0	0.418	1	2.320	0	5.551	-1	1800	38	1.6
45765.4	10000	41.2008	93.0072	-765	QK	2.6	0	6.3	-1	1.2	0	0.414	1	2.271	0	5.488	-1	1797	43	1.6
45765.5	10000	41.2008	93.0063	-766	QK	2.6	0	6.5	-1	1.1	0	0.404	1	2.281	0	5.653	-1	1774	44	1.6
45765.6	10000	41.2008	93.0055	-767	QK	2.5	0	6.5	-1	1.1	0	0.381	0	2.231	0	5.860	-1	1763	53	1.6
45765.7	10000	41.2008	93.0046	-768	QK	2.7	0	6.4	-1	1.1	0	0.422	1	2.392	0	5.668	-1	1755	54	1.6
45765.8	10000	41.2008	93.0037	-770	QK	2.7	0	6.3	-1	1.0	-1	0.427	1	2.617	1	6.122	-1	1741	51	1.6
45765.9	10000	41.2008	93.0028	-770	QK	2.8	1	6.2	-1	1.1	-1	0.448	1	2.641	1	5.892	-1	1750	54	1.6
45766.0	10000	41.2008	93.0019	-772	QK	3.0	1	6.5	-1	1.0	-1	0.465	2	2.989	2	6.425	0	1766	43	1.6
45766.1	10000	41.2008	93.0011	-773	QK	3.2	1	6.8	-1	1.0	-1	0.478	2	3.206	2	6.704	0	1793	34	1.6
45766.2	10000	41.2008	93.0002	-773	QK	3.1	1	6.7	-1	1.0	-1	0.466	2	3.018	2	6.475	0	1843	42	1.6
45766.3	10000	41.2008	92.9993	-773	QK	3.1	1	7.0	0	1.1	0	0.447	1	2.892	1	6.476	0	1877	39	1.6
45766.4	10000	41.2008	92.9984	-772	QK	3.0	1	7.4	0	1.1	-1	0.410	1	2.887	1	7.035	1	1900	42	1.6
45766.5	10000	41.2008	92.9975	-770	QK	3.0	1	7.8	1	1.1	0	0.388	1	2.761	1	7.110	1	1929	36	1.6
45766.6	10000	41.2007	92.9967	-769	QK	2.7	0	8.1	1	1.1	0	0.331	0	2.438	1	7.369	1	1945	48	1.6
45766.7	10000	41.2007	92.9958	-767	QK	2.5	0	8.0	1	1.1	0	0.317	0	2.232	1	7.043	1	1966	38	1.6
45766.8	10000	41.2007	92.9949	-765	QK	2.2	-1	8.6	2	1.1	1	0.261	-1	2.043	1	7.826	2	1992	48	1.6
45766.9	10000	41.2007	92.9940	-763	QK	2.4	-1	8.6	2	1.2	1	0.280	-1	2.060	1	7.369	1	2010	47	1.6
45767.0	10000	41.2007	92.9931	-760	QK	2.2	-1	9.0	3	1.2	1	0.247	-1	1.926	-1	7.782	2	2030	52	1.6
45767.1	10000	41.2007	92.9923	-757	QK	2.3	-1	9.3	3	1.2	1	0.248	-1	1.894	-1	7.648	2	2064	31	1.6
45767.2	10000	41.2007	92.9914	-754	QK	2.5	-1	9.1	3	1.2	1	0.272	-1	2.053	-1	7.559	2	2069	55	1.6
45767.3	10000	41.2007	92.9905	-751	QK	2.8	-1	8.8	2	1.2	1	0.320	0	2.421	0	7.574	2	2040	57	1.6
45767.4	10000	41.2007	92.9896	-747	QK	2.8	-1	8.5	2	1.1	0	0.324	0	2.461	0	7.591	2	2000	45	1.6
45767.5	10000	41.2007	92.9888	-744	QK	3.1	-1	8.3	2	1.1	0	0.376	0	2.824	1	7.513	1	1960	41	1.6
45767.6	10000	41.2007	92.9879	-741	QK	3.3	-1	8.3	2	1.0	-1	0.397	0	3.248	2	8.188	2	1926	46	1.6
45767.7	10000	41.2007	92.9870	-738	QK	3.1	-1	7.4	2	1.0	-1	0.420	0	3.086	2	7.351	1	1889	38	1.7
45767.8	10000	41.2007	92.9861	-735	QK	3.0	-1	7.5	2	1.0	-1	0.410	0	3.083	2	7.522	1	1869	38	1.7
45767.9	10000	41.2007	92.9852	-732	QK	2.9	-1	7.6	2	1.0	-1	0.394	0	2.950	2	7.490	1	1855	53	1.7
45768.0	10000	41.2007	92.9844	-728	QK	2.8	-1	7.9	2	1.1	-1	0.372	0	2.771	2	7.452	1	1879	42	1.7
45768.1	10000	41.2007	92.9835	-724	QK	2.6	-1	7.8	2	1.1	-1	0.358	0	2.693	2	7.968	1	1898	37	1.7
45768.2	10000	41.2007	92.9826	-720	QK	2.5	-1	7.9	2	1.2	-1	0.333	0	2.646	2	6.739	1	1899	43	1.7
45768.3	10000	41.2007	92.9817	-717	QK	2.6	-1	8.0	2	1.2	-1	0.313	0	2.032	2	6.484	1	1904	47	1.7
45768.4	10000	41.2007	92.9809	-714	QK	2.8	1	8.0	2	1.2	1	0.355	0	2.349	2	6.613	1	1921	37	1.7

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FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45768.5	10000	41.2007	92.9800	-710	QK	2.9	1	7.7	1	1.2	1	0.373	0	2.413	0	6.467	0	1909	46	1.7
45768.6	10000	41.2007	92.9791	-706	QK	2.9	1	7.1	0	1.2	0	0.407	1	2.497	0	6.139	0	1904	56	1.7
45768.7	10000	41.2007	92.9782	-703	QK	3.1	1	7.1	0	1.1	0	0.441	1	2.777	1	6.301	0	1889	38	1.7
45768.8	10000	41.2007	92.9773	-700	QK	3.2	1	7.2	0	1.1	0	0.441	1	2.948	1	6.689	0	1885	40	1.7
45768.9	10000	41.2007	92.9764	-698	QK	3.2	1	6.8	-1	1.1	0	0.473	2	3.007	2	6.359	0	1896	41	1.7
45769.0	10000	41.2007	92.9756	-696	QK	3.3	2	6.5	-1	1.1	0	0.506	2	3.052	2	6.038	-1	1894	39	1.7
45769.1	10000	41.2007	92.9747	-693	QK	3.2	1	6.7	-1	1.1	0	0.474	2	2.937	1	6.195	0	1897	55	1.7
45769.2	10000	41.2007	92.9738	-691	QK	3.1	1	6.9	0	1.1	0	0.447	1	2.762	1	6.182	0	1901	40	1.7
45769.3	10000	41.2007	92.9729	-690	QK	3.1	1	7.5	0	1.1	0	0.415	1	2.719	1	6.548	0	1931	45	1.7
45769.4	10000	41.2007	92.9720	-690	QK	3.0	1	7.2	0	1.2	1	0.416	1	2.520	1	6.065	-1	1940	42	1.7
45769.5	10000	41.2007	92.9712	-689	QK	3.0	1	7.1	0	1.2	1	0.418	1	2.470	0	5.912	-1	1937	38	1.7
45769.6	10000	41.2007	92.9703	-689	QK	2.9	1	7.3	0	1.2	1	0.390	1	2.412	0	6.187	0	1923	45	1.7
45769.7	10000	41.2007	92.9694	-688	QAL	2.9	1	7.5	1	1.1	0	0.388	0	2.596	1	6.692	1	1913	32	1.7
45769.8	10000	41.2007	92.9685	-688	QAL	3.0	1	7.7	1	1.1	0	0.392	0	2.750	1	7.020	1	1899	38	1.7
45769.9	10000	41.2007	92.9677	-689	QAL	3.0	1	7.7	1	1.1	0	0.382	0	2.749	1	7.195	1	1901	51	1.7
45770.0	10000	41.2007	92.9668	-689	QAL	2.8	1	7.7	1	1.0	0	0.362	0	2.664	1	7.366	2	1880	36	1.7
45770.1	10000	41.2007	92.9659	-688	QAL	2.7	0	7.9	1	1.0	-1	0.342	0	2.732	1	7.994	2	1873	45	1.7
45770.2	10000	41.2007	92.9650	-689	QAL	2.6	0	7.7	1	1.0	-1	0.337	0	2.612	1	7.750	2	1871	46	1.7
45770.3	10000	41.2006	92.9641	-689	QAL	2.6	0	7.5	1	1.1	0	0.347	0	2.434	0	7.012	1	1897	40	1.8
45770.4	10000	41.2006	92.9633	-690	QAL	2.3	0	7.4	1	1.1	0	0.307	-1	2.005	-1	6.528	1	1904	36	1.8
45770.5	10000	41.2006	92.9624	-690	QAL	2.1	-1	7.4	1	1.2	1	0.278	-1	1.778	-1	6.401	0	1908	41	1.8
45770.6	10000	41.2006	92.9615	-691	QAL	2.2	0	7.5	1	1.2	1	0.298	-1	1.871	-1	6.272	0	1908	66	1.8
45770.7	10000	41.2006	92.9606	-692	QAL	2.0	-1	7.3	1	1.2	1	0.275	-1	1.679	-1	6.110	0	1910	30	1.8
45770.8	10000	41.2006	92.9597	-692	QAL	1.9	-1	7.6	1	1.3	1	0.255	-1	1.513	-1	5.933	0	1921	43	1.8
45770.9	10000	41.2006	92.9589	-692	QAL	1.9	-1	7.8	1	1.2	1	0.247	-2	1.561	-1	6.326	0	1916	43	1.8
45771.0	10000	41.2006	92.9580	-692	QAL	2.0	-1	7.6	1	1.2	1	0.269	-1	1.761	-1	6.557	1	1886	56	1.8
45771.1	10000	41.2006	92.9571	-692	QAL	2.1	-1	7.6	1	1.1	1	0.272	-1	1.823	-1	6.698	1	1863	46	1.8
45771.2	10000	41.2006	92.9562	-692	QAL	2.1	-1	7.2	1	1.1	1	0.293	-1	1.871	-1	6.378	0	1831	52	1.8
45771.3	10000	41.2006	92.9554	-692	QK	2.0	-1	7.1	0	1.1	0	0.277	-1	1.834	-1	6.617	0	1814	42	1.8
45771.4	10000	41.2006	92.9545	-692	QK	2.2	-1	6.8	-1	1.0	0	0.323	-1	2.091	-1	6.474	0	1783	45	1.8
45771.5	10000	41.2006	92.9536	-692	QK	2.5	-1	6.7	-1	1.0	0	0.372	-1	2.581	-1	6.938	0	1761	43	1.8
45771.6	10000	41.2006	92.9527	-691	QK	2.6	-1	6.5	-1	1.0	0	0.403	-1	2.663	-1	6.611	0	1739	38	1.8
45771.7	10000	41.2006	92.9518	-689	QK	2.5	-1	6.4	-1	1.0	0	0.347	-1	2.270	-1	6.544	0	1727	48	1.8
45771.8	10000	41.2006	92.9510	-688	QK	2.3	-1	6.5	-1	1.0	0	0.356	-1	2.363	-1	6.640	0	1744	47	1.8
45771.9	10000	41.2006	92.9501	-688	QK	2.3	-1	6.9	0	1.0	0	0.336	-1	2.372	-1	7.062	1	1772	44	1.8
45772.0	10000	41.2006	92.9492	-687	QK	2.2	-1	6.9	0	1.0	0	0.324	-1	2.298	-1	7.086	1	1776	31	1.8
45772.1	10000	41.2006	92.9483	-685	QK	2.2	-1	7.2	0	1.0	0	0.311	-1	2.272	-1	7.314	1	1801	35	1.8
45772.2	10000	41.2006	92.9474	-684	QK	2.2	-1	7.0	0	1.0	0	0.310	-1	2.133	-1	6.892	1	1800	42	1.8
45772.3	10000	41.2006	92.9465	-682	QK	2.4	-1	7.0	0	1.0	0	0.341	-1	2.355	-1	6.899	1	1819	48	1.8
45772.4	10000	41.2006	92.9456	-681	QK	2.6	0	7.3	0	1.0	0	0.358	-1	2.518	-1	7.028	1	1848	48	1.8
45772.5	10000	41.2006	92.9447	-679	QK	2.7	0	7.2	0	1.0	0	0.375	-1	2.661	-1	7.096	1	1851	46	1.8
45772.6	10000	41.2006	92.9438	-678	QK	2.8	0	7.2	1	1.0	0	0.386	-1	2.760	-1	7.156	1	1847	46	1.8
45772.7	10000	41.2006	92.9429	-677	QK	2.9	0	7.1	1	1.0	0	0.406	-1	2.813	-1	6.921	1	1857	57	1.8
45772.8	10000	41.2006	92.9420	-675	QK	2.8	0	6.9	1	1.0	0	0.422	-1	2.893	-1	6.859	1	1840	34	1.8
45772.9	10000	41.2006	92.9411	-674	QK	2.5	0	7.0	1	1.0	0	0.406	-1	2.761	-1	6.809	1	1852	46	1.8
45773.0	10000	41.2006	92.9402	-673	QK	2.4	0	7.1	1	1.0	0	0.355	-1	2.461	-1	6.928	1	1851	41	1.8
45773.1	10000	41.2006	92.9393	-671	QK	2.3	0	7.4	1	1.1	0	0.329	-1	2.288	-1	6.960	1	1853	33	1.8
45773.2	10000	41.2006	92.9384	-671	QK	2.3	0	7.5	1	1.1	0	0.309	-1	2.092	-1	6.768	1	1873	43	1.8
45773.3	10000	41.2006	92.9375	-671	QK	2.3	0	7.3	1	1.1	0	0.309	-1	1.978	-1	6.403	1	1888	43	1.8
45773.4	10000	41.2006	92.9366	-670	QK	2.4	0	7.4	1	1.1	0	0.320	-1	2.056	-1	6.420	1	1911	42	1.8
45773.5	10000	41.2006	92.9357	-669	QK	2.4	0	7.9	1	1.2	0	0.303	-1	2.010	-1	6.628	1	1949	45	1.8
45773.6	10000	41.2006	92.9348	-668	QK	2.4	0	8.0	1	1.2	0	0.297	-1	2.070	0	6.962	1	1966	42	1.8

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45773.7	10000	41.2006	92.9340	-666	QK	2.6	0	8.2	1	1.1	0	0.314	-1	2.263	0	7.198	1	1964	43	1.8
45773.8	10000	41.2006	92.9331	-665	QK	2.7	0	7.9	1	1.1	0	0.344	0	2.444	0	7.100	1	1945	49	1.8
45773.9	10000	41.2006	92.9322	-664	QK	2.8	1	7.8	1	1.1	0	0.361	0	2.608	1	7.218	1	1917	45	1.8
45774.0	10000	41.2006	92.9313	-664	QK	2.8	1	7.5	0	1.0	-1	0.371	0	2.716	1	7.312	1	1893	50	1.8
45774.1	10000	41.2006	92.9304	-663	QK	2.6	0	7.4	0	1.0	-1	0.350	0	2.529	1	7.216	1	1855	43	1.8
45774.2	10000	41.2006	92.9295	-663	QK	2.6	0	6.9	0	1.0	-1	0.378	0	2.605	1	6.887	1	1828	39	1.7
45774.3	10000	41.2006	92.9286	-662	QK	2.9	1	6.5	-1	1.0	-1	0.441	1	2.813	1	6.377	0	1800	36	1.7
45774.4	10000	41.2006	92.9277	-661	QK	2.7	0	6.0	-2	1.0	-1	0.451	1	2.740	1	6.076	-1	1784	39	1.7
45774.5	10000	41.2006	92.9268	-660	QK	2.9	1	6.2	-1	0.9	-2	0.462	2	3.065	2	6.642	0	1782	40	1.7
45774.6	10000	41.2006	92.9259	-660	QK	2.6	0	6.0	-2	0.9	-2	0.436	1	2.880	1	6.609	0	1774	46	1.7
45774.7	10000	41.2006	92.9250	-659	QK	2.7	0	6.3	-1	0.9	-2	0.435	1	2.915	1	6.706	0	1775	45	1.7
45774.8	10000	41.2006	92.9241	-657	QAL	2.7	1	6.2	0	0.9	-1	0.445	1	2.901	1	6.516	0	1778	38	1.7
45774.9	10000	41.2006	92.9232	-656	QAL	2.5	0	6.3	0	1.0	-1	0.397	0	2.545	0	6.404	0	1784	39	1.7
45775.0	10000	41.2006	92.9223	-654	QAL	2.1	-1	6.4	0	1.0	-1	0.333	-1	2.169	0	6.509	0	1785	39	1.7
45775.1	10000	41.2006	92.9214	-652	QAL	2.3	0	6.7	0	1.1	0	0.342	0	2.195	0	6.414	0	1805	48	1.7
45775.2	10000	41.2006	92.9205	-650	QK	2.1	-1	6.6	-1	1.1	0	0.316	0	1.815	-1	5.736	-1	1813	48	1.7
45775.3	10000	41.2006	92.9196	-648	QK	2.2	-1	6.6	-1	1.1	0	0.335	0	1.943	-1	5.803	-1	1811	30	1.7
45775.4	10000	41.2006	92.9187	-646	QK	1.9	-1	6.9	0	1.2	0	0.277	-1	1.622	-1	5.851	-1	1832	31	1.7
45775.5	10000	41.2006	92.9178	-644	QK	1.9	-1	7.7	1	1.2	1	0.248	-1	1.595	-1	6.429	0	1854	52	1.7
45775.6	10000	41.2006	92.9169	-641	QK	2.0	-1	7.5	0	1.2	0	0.271	-1	1.747	-1	6.442	0	1851	43	1.7
45775.7	10000	41.2006	92.9161	-638	QK	2.1	-1	7.7	1	1.2	1	0.271	-1	1.729	-1	6.384	0	1871	45	1.7
45775.8	10000	41.2006	92.9152	-635	QK	2.0	-1	7.8	1	1.2	1	0.264	-1	1.705	-1	6.461	0	1874	48	1.7
45775.9	10000	41.2006	92.9143	-631	QK	2.3	0	7.4	0	1.1	0	0.309	-1	2.007	-1	6.501	0	1876	39	1.7
45776.0	10000	41.2006	92.9134	-627	QK	2.4	0	7.7	0	1.2	0	0.310	-1	2.075	0	6.693	0	1890	39	1.7
45776.1	10000	41.2006	92.9125	-622	QK	2.5	0	7.7	1	1.1	0	0.332	0	2.254	0	6.791	0	1885	53	1.7
45776.2	10000	41.2006	92.9116	-618	QK	2.7	0	7.4	0	1.1	0	0.366	0	2.377	0	6.488	0	1884	49	1.7
45776.3	10000	41.2006	92.9107	-613	QK	2.8	1	7.5	0	1.2	1	0.376	0	2.382	0	6.336	0	1898	48	1.7
45776.4	10000	41.2006	92.9098	-608	QK	2.8	1	7.6	1	1.2	1	0.368	0	2.342	0	6.373	0	1889	39	1.7
45776.5	10000	41.2006	92.9089	-602	QK	2.9	1	7.6	1	1.2	1	0.386	0	2.461	0	6.382	0	1885	34	1.7
45776.6	10000	41.2006	92.9080	-596	QK	3.0	1	7.8	1	1.2	1	0.389	0	2.475	0	6.369	0	1895	36	1.7
45776.7	10000	41.2006	92.9071	-591	QK	2.9	1	7.7	1	1.2	1	0.377	0	2.315	0	6.146	0	1920	45	1.7
45776.8	10000	41.2006	92.9062	-586	QK	3.1	1	7.6	1	1.2	1	0.401	0	2.401	0	5.989	-1	1932	45	1.7
45776.9	10000	41.2006	92.9053	-580	QK	2.9	1	7.6	1	1.2	1	0.406	0	2.496	0	6.151	0	1933	42	1.6
45777.0	10000	41.2006	92.9044	-574	QK	3.0	1	7.7	1	1.2	1	0.370	0	2.348	0	6.345	0	1931	38	1.6
45777.1	10000	41.2006	92.9035	-568	QK	3.0	1	7.8	1	1.2	1	0.379	0	2.358	0	6.742	1	1947	57	1.6
45777.2	10000	41.2006	92.9026	-562	QK	3.1	1	7.9	1	1.2	1	0.368	0	2.565	1	6.969	1	1966	50	1.6
45777.3	10000	41.2006	92.9017	-557	QK	3.1	1	8.0	1	1.2	1	0.343	0	2.563	1	7.467	2	1976	33	1.6
45777.4	10000	41.2006	92.9008	-551	QK	3.0	1	8.0	1	1.1	1	0.346	0	2.612	1	7.547	2	1959	49	1.6
45777.5	10000	41.2006	92.8999	-545	QK	3.1	1	8.1	1	1.1	1	0.323	0	2.495	1	7.719	2	1966	34	1.6
45777.6	10000	41.2006	92.8990	-540	QK	3.1	1	8.2	1	1.1	1	0.309	0	2.298	1	7.442	2	1963	50	1.6
45777.7	10000	41.2006	92.8982	-535	QK	3.1	1	8.3	1	1.1	1	0.314	0	2.480	1	7.908	2	1953	45	1.6
45777.8	10000	41.2006	92.8973	-529	QK	3.1	1	8.4	1	1.1	1	0.340	0	2.737	1	8.054	2	1941	52	1.6
45777.9	10000	41.2006	92.8964	-523	QK	3.1	1	8.4	1	1.1	1	0.348	0	2.694	1	7.732	2	1923	35	1.6
45778.0	10000	41.2006	92.8955	-517	QK	3.1	1	8.5	1	1.1	1	0.340	0	2.666	1	7.832	2	1922	38	1.6
45778.1	10000	41.2006	92.8946	-512	QK	3.1	1	8.4	1	1.1	1	0.346	0	2.718	1	7.847	2	1944	43	1.6
45778.2	10000	41.2006	92.8937	-506	QK	3.1	1	8.4	1	1.1	1	0.362	0	2.925	1	8.082	2	1960	48	1.6
45778.3	10000	41.2006	92.8928	-502	QK	3.1	1	8.3	1	1.1	1	0.404	0	3.216	2	7.956	2	1992	42	1.6
45778.4	10000	41.2006	92.8919	-498	QK	3.1	1	8.2	1	1.1	1	0.430	0	3.508	2	7.686	2	2028	39	1.6
45778.5	10000	41.2006	92.8910	-493	QK	3.1	1	8.1	1	1.1	1	0.434	0	3.198	2	7.373	2	2031	35	1.6
45778.6	10000	41.2006	92.8901	-488	QK	3.1	1	8.0	1	1.1	1	0.411	0	3.151	2	7.675	2	2026	45	1.6
45778.7	10000	41.2006	92.8892	-482	QK	3.1	1	7.9	1	1.1	1	0.417	0	3.057	2	7.338	2	2006	35	1.6
45778.8	10000	41.2006	92.8883	-475	QK	3.1	1	7.6	1	1.1	1	0.441	0	3.177	2	7.207	1	1965	45	1.6

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45778.9	10000	41.2006	92.8874	-469	QK	3.3	2	7.4	0	1.1	0	0.440	1	3.084	2	7.009	1	1904	46	1.6
45779.0	10000	41.2006	92.8865	-464	QK	3.2	1	7.5	0	1.0	-1	0.423	1	3.047	1	7.208	1	1861	49	1.6
45779.1	10000	41.2006	92.8856	-459	QK	3.0	1	7.4	0	1.0	-1	0.403	1	2.896	1	7.185	1	1820	45	1.6
45779.2	10000	41.2006	92.8847	-455	QK	2.9	1	7.7	1	1.1	-1	0.380	0	2.755	1	7.250	1	1809	49	1.6
45779.3	10000	41.2006	92.8838	-451	QK	2.9	1	7.8	1	1.1	0	0.370	0	2.680	1	7.234	1	1809	49	1.6
45779.4	10000	41.2006	92.8829	-446	QK	2.7	0	8.1	1	1.1	0	0.335	0	2.500	0	7.465	1	1808	42	1.6
45779.5	10000	41.2006	92.8820	-442	QK	2.4	0	8.4	2	1.1	0	0.284	-1	2.199	0	7.739	2	1812	58	1.6
45779.6	10000	41.2006	92.8811	-438	QK	2.2	-1	8.2	1	1.1	0	0.265	-1	1.990	-1	7.519	1	1838	44	1.6
45779.7	10000	41.2006	92.8803	-433	QK	2.0	-1	8.3	1	1.1	0	0.246	-1	1.846	-1	7.503	1	1838	36	1.6
45779.8	10000	41.2006	92.8794	-428	QK	2.2	-1	8.4	2	1.1	0	0.258	-1	1.934	-1	7.501	1	1849	40	1.6
45779.9	10000	41.2006	92.8785	-423	QK	2.0	-1	7.9	1	1.1	0	0.248	-1	1.817	-1	7.315	1	1856	51	1.6
45780.0	10000	41.2006	92.8776	-419	QK	2.2	-1	7.9	1	1.1	0	0.276	-1	1.915	-1	6.944	1	1878	46	1.6
45780.1	10000	41.2006	92.8767	-414	QK	2.2	-1	7.9	1	1.2	0	0.280	-1	1.912	-1	6.831	0	1878	54	1.6
45780.2	10000	41.2006	92.8758	-409	QK	2.6	0	8.1	1	1.2	1	0.317	0	2.129	0	6.722	0	1902	41	1.6
45780.3	10000	41.2006	92.8749	-404	QK	2.6	0	7.9	1	1.3	1	0.331	0	2.058	0	6.213	0	1920	39	1.6
45780.4	10000	41.2006	92.8740	-399	QK	2.7	0	7.7	1	1.3	1	0.358	0	2.169	0	6.053	-1	1944	42	1.6
45780.5	10000	41.2006	92.8731	-395	QK	2.5	0	7.7	1	1.3	1	0.331	0	2.003	-1	6.059	-1	1943	51	1.6
45780.6	10000	41.2006	92.8722	-390	QK	2.8	1	8.2	1	1.3	2	0.342	0	2.147	0	6.274	0	1947	42	1.6
45780.7	10000	41.2006	92.8713	-387	QK	2.7	0	8.0	1	1.2	1	0.343	0	2.203	0	6.426	0	1946	52	1.6
45780.8	10000	41.2006	92.8704	-383	QK	2.8	0	7.7	1	1.2	1	0.357	0	2.271	0	6.356	0	1957	38	1.6
45780.9	10000	41.2006	92.8695	-379	QK	2.8	0	7.7	1	1.2	1	0.367	0	2.361	0	6.437	0	1957	50	1.6
45781.0	10000	41.2006	92.8686	-376	QK	2.6	0	8.1	1	1.1	0	0.317	0	2.255	0	7.108	1	1944	49	1.6
45781.1	10000	41.2006	92.8677	-372	QK	2.4	0	8.5	2	1.2	0	0.288	-1	2.074	0	7.200	1	1948	39	1.6
45781.2	10000	41.2006	92.8668	-369	QK	2.5	0	8.4	2	1.2	1	0.303	-1	2.097	0	6.932	1	1955	41	1.6
45781.3	10000	41.2006	92.8659	-365	QK	2.2	-1	7.9	1	1.3	1	0.281	-1	1.769	-1	6.285	0	1960	45	1.6
45781.4	10000	41.2006	92.8650	-361	QK	2.1	-1	8.4	2	1.3	1	0.249	-1	1.631	-1	6.537	0	1956	52	1.6
45781.5	10000	41.2006	92.8642	-358	QK	2.1	-1	8.6	2	1.3	2	0.245	-1	1.598	-1	6.523	0	1959	55	1.6
45781.6	10000	41.2006	92.8633	-356	QK	1.9	-1	8.4	2	1.3	2	0.227	-2	1.473	-2	6.483	0	1957	47	1.6
45781.7	10000	41.2006	92.8624	-353	QK	2.5	0	8.8	2	1.3	2	0.287	-1	1.898	-1	6.621	0	1949	40	1.6
45781.8	10000	41.2006	92.8615	-351	QK	2.4	0	8.8	2	1.3	2	0.279	-1	1.903	-1	6.828	0	1934	43	1.6
45781.9	10000	41.2006	92.8606	-349	QK	2.6	0	8.8	2	1.3	2	0.291	-1	2.002	-1	6.871	1	1921	49	1.6
45782.0	10000	41.2006	92.8597	-348	QK	2.8	0	8.8	2	1.3	2	0.322	0	2.314	0	7.180	1	1902	51	1.6
45782.1	10000	41.2006	92.8588	-346	QK	2.9	0	8.8	2	1.3	2	0.367	0	2.526	1	6.874	1	1895	50	1.6
45782.2	10000	41.2006	92.8579	-345	QK	2.9	0	8.8	2	1.3	2	0.403	0	2.636	1	6.540	1	1894	39	1.6
45782.3	10000	41.2006	92.8570	-345	QK	2.9	0	8.8	2	1.3	2	0.404	0	2.747	1	6.808	1	1880	41	1.6
45782.4	10000	41.2006	92.8561	-343	QK	2.7	0	8.8	2	1.3	2	0.396	0	2.601	1	6.565	1	1898	50	1.6
45782.5	10000	41.2006	92.8552	-343	QK	2.7	0	8.8	2	1.3	2	0.446	0	2.877	1	6.456	1	1914	49	1.6
45782.6	10000	41.2006	92.8543	-342	QK	2.7	0	8.8	2	1.3	2	0.442	0	2.859	1	6.463	1	1936	40	1.6
45782.7	10000	41.2006	92.8534	-341	QK	2.7	0	8.8	2	1.3	2	0.444	0	3.076	2	6.928	1	1955	41	1.6
45782.8	10000	41.2006	92.8525	-339	QK	2.7	0	8.8	2	1.3	2	0.419	0	2.892	2	6.903	1	1956	42	1.6
45782.9	10000	41.2006	92.8516	-338	QK	2.7	0	8.8	2	1.3	2	0.427	0	3.075	2	7.201	1	1941	42	1.6
45783.0	10000	41.2006	92.8507	-336	QK	2.7	0	8.8	2	1.3	2	0.420	0	2.717	2	6.465	1	1925	42	1.6
45783.1	10000	41.2006	92.8498	-335	QK	2.7	0	8.8	2	1.3	2	0.404	0	2.801	2	6.940	1	1907	46	1.6
45783.2	10000	41.2006	92.8489	-333	QK	2.7	0	8.8	2	1.3	2	0.413	0	2.890	2	6.992	1	1890	54	1.6
45783.3	10000	41.2006	92.8480	-331	QK	2.7	0	8.8	2	1.3	2	0.414	0	2.912	2	7.038	1	1868	32	1.6
45783.4	10000	41.2006	92.8471	-330	QK	2.7	0	8.8	2	1.3	2	0.409	0	2.739	2	6.691	1	1848	39	1.6
45783.5	10000	41.2006	92.8463	-329	QK	2.7	0	8.8	2	1.3	2	0.388	0	2.635	2	6.789	1	1835	51	1.6
45783.6	10000	41.2006	92.8454	-328	QK	2.7	0	8.8	2	1.3	2	0.359	0	2.515	2	7.003	1	1833	45	1.6
45783.7	10000	41.2006	92.8445	-326	QK	2.7	0	8.8	2	1.3	2	0.409	0	2.998	2	7.339	1	1863	43	1.6
45783.8	10000	41.2006	92.8436	-324	QK	2.7	0	8.8	2	1.3	2	0.411	0	2.733	2	6.648	1	1874	48	1.6
45783.9	10000	41.2006	92.8427	-323	QK	2.7	0	8.8	2	1.3	2	0.358	0	2.440	2	6.808	1	1871	46	1.6
45784.0	10000	41.2006	92.8418	-321	QK	2.7	0	7.3	1	1.1	0	0.367	0	2.469	2	6.719	1	1872	41	1.6

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FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45784.1	10000	41.2006	92.8409	-320	QK	2.7	0	7.6	1	1.1	0	0.356	0	2.411	0	6.779	0	1908	57	1.6
45784.2	10000	41.2006	92.8400	-319	QK	2.0	1	8.0	1	1.1	0	0.373	0	2.673	0	7.161	1	1937	53	1.6
45784.3	10000	41.2006	92.8391	-319	QK	2.1	1	8.0	1	1.1	0	0.381	0	2.671	1	7.004	1	1951	49	1.6
45784.4	10000	41.2006	92.8382	-318	QK	2.8	0	8.2	1	1.2	1	0.335	0	2.321	0	6.934	1	1966	39	1.6
45784.5	10000	41.2006	92.8373	-318	QK	2.9	1	8.5	2	1.2	1	0.339	0	2.387	0	7.031	1	1972	39	1.6
45784.6	10000	41.2006	92.8364	-318	QK	3.0	1	8.6	2	1.2	1	0.347	0	2.432	0	7.014	1	1983	38	1.6
45784.7	10000	41.2006	92.8355	-319	QK	2.1	1	8.6	2	1.2	1	0.361	0	2.522	1	6.984	1	1996	45	1.6
45784.8	10000	41.2006	92.8346	-319	QK	2.8	1	8.5	2	1.2	1	0.333	0	2.294	0	6.885	1	1981	47	1.6
45784.9	10000	41.2006	92.8337	-319	QK	2.7	0	8.1	1	1.3	1	0.336	0	2.146	0	6.396	0	1965	43	1.6
45785.0	10000	41.2006	92.8328	-319	QK	2.7	0	8.2	1	1.3	2	0.335	0	2.095	0	6.254	0	1964	41	1.7
45785.1	10000	41.2006	92.8319	-319	QK	2.8	1	7.8	1	1.3	1	0.358	0	2.189	0	6.112	-1	1947	42	1.7
45785.2	10000	41.2006	92.8310	-319	QK	2.9	1	7.6	1	1.3	1	0.374	0	2.250	0	6.009	-1	1947	37	1.7
45785.3	10000	41.2006	92.8301	-319	QK	2.9	1	7.3	1	1.2	1	0.401	0	2.372	0	5.922	-1	1952	34	1.7
45785.4	10000	41.2006	92.8292	-318	QK	2.8	1	7.6	1	1.2	1	0.370	0	2.371	0	6.415	0	1962	42	1.7
45785.5	10000	41.2006	92.8284	-318	QK	3.0	1	7.6	1	1.1	0	0.396	1	2.654	1	6.710	0	1969	48	1.7
45785.6	10000	41.2006	92.8275	-317	QK	3.0	1	7.4	1	1.1	0	0.410	1	2.707	1	6.607	0	1985	48	1.7
45785.7	10000	41.2006	92.8266	-316	QK	3.0	1	7.3	1	1.1	0	0.418	1	2.823	1	6.759	0	1983	46	1.7
45785.8	10000	41.2006	92.8257	-316	QK	3.0	1	7.8	1	1.1	-1	0.378	1	2.799	1	7.405	1	1980	34	1.7
45785.9	10000	41.2006	92.8248	-315	QK	2.7	1	8.0	1	1.1	-1	0.337	0	2.540	1	7.536	1	1961	38	1.7
45786.0	10000	41.2006	92.8239	-314	QK	2.5	1	7.9	1	1.1	0	0.315	0	2.355	1	7.478	1	1937	50	1.7
45786.1	10000	41.2006	92.8230	-313	QK	2.5	1	7.7	1	1.1	0	0.326	0	2.322	0	7.121	1	1914	47	1.7
45786.2	10000	41.2006	92.8221	-312	QK	2.7	1	7.6	1	1.1	0	0.352	0	2.441	0	6.928	1	1889	41	1.7
45786.3	10000	41.2006	92.8212	-311	QK	2.7	1	7.7	1	1.0	-1	0.348	0	2.584	1	7.431	1	1871	41	1.7
45786.4	10000	41.2006	92.8203	-310	QK	2.8	1	7.9	1	1.0	-1	0.350	0	2.605	1	7.448	1	1880	44	1.7
45786.5	10000	41.2006	92.8194	-309	QK	3.0	1	7.6	1	1.0	-1	0.390	1	2.862	1	7.347	1	1888	34	1.7
45786.6	10000	41.2006	92.8185	-308	QK	3.4	2	7.5	1	1.0	-1	0.450	1	3.323	2	7.379	1	1907	36	1.7
45786.7	10000	41.2006	92.8176	-307	QK	3.4	2	7.3	1	1.0	-1	0.468	2	3.403	2	7.271	1	1917	39	1.7
45786.8	10000	41.2006	92.8167	-306	QK	3.5	2	6.9	1	1.0	-1	0.512	2	3.388	2	6.613	0	1925	46	1.7
45786.9	10000	41.2006	92.8158	-304	QK	3.4	2	6.7	1	1.1	-1	0.513	2	3.215	2	6.264	0	1956	45	1.7
45787.0	10000	41.2006	92.8149	-302	QK	3.4	2	6.4	1	1.1	-1	0.540	2	3.114	2	5.764	-1	1959	48	1.7
45787.1	10000	41.2006	92.8140	-301	QK	3.3	2	6.5	1	1.1	-1	0.503	2	3.120	2	6.207	0	1935	46	1.7
45787.2	10000	41.2006	92.8131	-300	QK	3.1	1	6.7	1	1.1	-1	0.465	2	2.915	2	6.273	0	1934	47	1.7
45787.3	10000	41.2006	92.8122	-298	QK	3.1	1	6.5	1	1.1	-1	0.473	2	2.864	2	6.056	-1	1929	47	1.7
45787.4	10000	41.2006	92.8113	-294	QK	3.1	1	6.7	1	1.1	-1	0.459	2	2.713	2	5.906	-1	1940	60	1.7
45787.5	10000	41.2006	92.8104	-289	QK	3.1	1	7.4	1	1.2	0	0.378	2	2.431	2	6.437	0	1938	33	1.7
45787.6	10000	41.2006	92.8095	-291	QK	3.1	1	7.6	1	1.2	0	0.375	2	2.386	2	6.360	0	1919	34	1.7
45787.7	10000	41.2006	92.8086	-295	QK	3.1	1	7.5	1	1.2	0	0.358	2	2.239	2	6.259	0	1921	49	1.7
45787.8	10000	41.2006	92.8077	-295	QK	3.1	1	7.3	1	1.2	0	0.360	2	2.063	2	5.734	-1	1933	48	1.7
45787.9	10000	41.2005	92.8068	-295	QK	3.1	1	7.1	1	1.3	0	0.363	2	1.944	2	5.349	-2	1935	51	1.7
45788.0	10000	41.2005	92.8059	-296	QK	3.1	1	7.2	1	1.3	0	0.332	2	1.815	1	5.472	-1	1933	40	1.7
45788.1	10000	41.2005	92.8050	-297	QK	3.1	1	7.3	1	1.3	0	0.329	2	1.867	1	5.671	-1	1940	38	1.7
45788.2	10000	41.2005	92.8041	-300	QK	3.1	1	7.9	1	1.3	0	0.400	2	2.176	1	5.446	-1	1949	32	1.7
45788.3	10000	41.2005	92.8032	-302	QK	3.1	1	7.3	1	1.3	0	0.360	2	2.094	1	5.824	-1	1954	48	1.7
45788.4	10000	41.2005	92.8023	-305	QK	3.1	1	7.1	1	1.3	0	0.314	-1	1.958	1	6.229	0	1957	47	1.7
45788.5	10000	41.2005	92.8014	-308	QK	3.1	1	7.7	1	1.3	0	0.326	0	2.023	1	6.207	0	1947	55	1.7
45788.6	10000	41.2005	92.8005	-311	QK	3.1	1	7.6	1	1.3	0	0.347	0	2.196	1	6.326	0	1936	49	1.7
45788.7	10000	41.2005	92.7996	-315	QK	3.1	1	7.9	1	1.3	0	0.363	0	2.278	2	6.270	0	1955	35	1.7
45788.8	10000	41.2004	92.7987	-318	QK	3.1	1	8.0	1	1.3	0	0.356	0	2.229	2	6.267	0	1952	46	1.7
45788.9	10000	41.2004	92.7978	-322	QK	3.1	1	8.2	1	1.3	0	0.300	-1	1.960	1	6.523	0	1948	44	1.7
45789.0	10000	41.2004	92.7969	-327	QK	3.1	1	7.8	1	1.3	0	0.337	0	1.946	1	6.492	0	1954	38	1.7
45789.1	10000	41.2004	92.7960	-331	QK	2.6	1	7.0	1	1.2	0	0.357	0	2.168	1	6.430	0	1950	44	1.7
45789.2	10000	41.2004	92.7951	-335	QK	2.9	1	8.2	1	1.2	0	0.357	0	2.347	0	6.565	0	1957	34	1.7

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FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45789.3	10000	41.2004	92.7942	-340	QK	3.0	1	8.0	1	1.2	1	0.372	0	2.406	0	6.468	0	1947	33	1.7
45789.4	10000	41.2004	92.7933	-345	QK	2.9	1	7.9	1	1.2	0	0.366	0	2.476	0	6.772	0	1937	46	1.7
45789.5	10000	41.2004	92.7924	-351	QK	2.7	0	7.7	1	1.1	0	0.355	0	2.389	0	6.738	0	1921	41	1.7
45789.6	10000	41.2004	92.7915	-358	QK	2.9	1	7.5	0	1.1	0	0.386	0	2.588	1	6.695	0	1918	55	1.7
45789.7	10000	41.2004	92.7906	-364	QK	3.1	1	7.2	0	1.1	0	0.421	1	2.713	1	6.439	0	1917	32	1.7
45789.8	10000	41.2003	92.7897	-369	QK	2.8	1	7.2	0	1.1	0	0.390	1	2.454	0	6.295	0	1924	43	1.7
45789.9	10000	41.2003	92.7888	-375	QK	2.8	1	7.1	0	1.2	0	0.396	1	2.391	0	6.034	-1	1933	50	1.7
45790.0	10000	41.2003	92.7879	-381	QK	2.8	1	7.9	1	1.2	1	0.354	0	2.301	0	6.508	0	1960	43	1.7
45790.1	10000	41.2003	92.7870	-388	QK	2.8	1	7.9	1	1.2	1	0.354	0	2.338	0	6.603	0	1951	46	1.7
45790.2	10000	41.2003	92.7861	-396	QK	3.2	1	7.7	1	1.2	1	0.411	1	2.669	1	6.498	0	1958	55	1.7
45790.3	10000	41.2003	92.7852	-403	QK	3.2	1	7.9	1	1.2	1	0.405	1	2.702	1	6.668	0	1959	43	1.7
45790.4	10000	41.2003	92.7843	-411	QK	3.2	1	7.9	1	1.1	0	0.410	1	2.835	1	6.910	1	1947	43	1.7
45790.5	10000	41.2003	92.7834	-420	QK	3.7	2	8.1	1	1.1	0	0.455	1	3.360	2	7.392	1	1948	40	1.7
45790.6	10000	41.2003	92.7825	-429	QK	3.3	2	8.2	1	1.1	0	0.405	1	3.105	2	7.660	2	1937	34	1.7
45790.7	10000	41.2003	92.7816	-438	QK	3.4	2	7.7	1	1.0	-1	0.442	1	3.409	2	7.714	2	1927	42	1.7
45790.8	10000	41.2003	92.7807	-449	QK	3.4	2	7.8	1	1.0	-1	0.443	1	3.549	3	8.014	2	1929	51	1.7
45790.9	10000	41.2002	92.7798	-460	QK	3.5	2	7.8	1	1.0	-1	0.449	1	3.691	3	8.213	2	1937	30	1.7
45791.0	10000	41.2002	92.7789	-471	QK	3.5	2	7.7	1	1.0	-1	0.448	1	3.605	3	8.051	2	1944	31	1.7
45791.1	10000	41.2002	92.7780	-483	QK	3.6	2	7.8	1	1.0	-1	0.469	2	3.736	3	7.972	2	1944	36	1.7
45791.2	10000	41.2002	92.7771	-496	QK	3.3	2	7.4	0	1.0	-1	0.455	1	3.363	2	7.399	1	1920	48	1.7
45791.3	10000	41.2002	92.7762	-508	QK	3.6	2	7.1	0	1.0	-1	0.513	2	3.719	3	7.255	1	1923	41	1.7
45791.4	10000	41.2002	92.7753	-520	QK	3.6	2	6.8	-1	1.0	-1	0.531	2	3.735	3	7.038	1	1903	35	1.7
45791.5	10000	41.2002	92.7744	-533	QK	3.6	2	6.2	-1	1.0	-1	0.577	3	3.616	3	6.262	0	1893	39	1.7
45791.6	10000	41.2002	92.7735	-546	QK	3.5	2	6.3	-1	1.0	-1	0.549	3	3.378	2	6.148	0	1882	49	1.7
45791.7	10000	41.2002	92.7726	-556	QK	3.5	2	6.0	-2	1.0	-1	0.581	3	3.332	2	5.733	-1	1872	45	1.7
45791.8	10000	41.2002	92.7717	-568	QK	3.3	2	6.0	-2	1.0	-1	0.545	3	3.175	2	5.820	-1	1871	38	1.7
45791.9	10000	41.2001	92.7708	-582	QK	3.3	2	6.3	-1	1.0	-1	0.523	3	3.235	3	6.182	0	1882	43	1.7
45792.0	10000	41.2001	92.7699	-596	QK	3.2	2	6.4	-1	1.0	0	0.500	3	3.084	3	6.170	0	1875	39	1.6
45792.1	10000	41.2001	92.7690	-607	QK	3.2	2	6.6	-1	1.1	0	0.487	3	2.865	2	5.880	-1	1890	45	1.6
45792.2	10000	41.2001	92.7681	-619	QK	3.0	2	6.7	-1	1.2	0	0.453	3	2.570	2	5.680	-1	1883	37	1.6
45792.3	10000	41.2001	92.7672	-629	QK	2.9	2	6.5	-1	1.2	0	0.440	3	2.500	2	5.678	-1	1868	47	1.6
45792.4	10000	41.2001	92.7663	-640	QK	3.1	2	6.5	-1	1.1	0	0.473	3	2.696	2	5.698	-1	1845	57	1.6
45792.5	10000	41.2001	92.7654	-650	QK	3.0	2	6.5	-1	1.1	0	0.457	3	2.731	2	5.975	-1	1835	44	1.6
45792.6	10000	41.2001	92.7645	-659	QK	3.2	2	6.6	-1	1.1	0	0.483	3	2.956	2	6.125	-1	1830	34	1.6
45792.7	10000	41.2001	92.7636	-669	QK	3.1	2	6.6	-1	1.0	-1	0.471	3	3.012	2	6.390	0	1829	38	1.6
45792.8	10000	41.2001	92.7627	-677	QK	3.0	2	7.1	0	0.9	-1	0.425	3	3.178	2	7.482	1	1807	57	1.6
45792.9	10000	41.2000	92.7618	-685	QK	2.9	2	7.0	0	0.9	-2	0.422	3	3.175	2	7.519	1	1803	48	1.6
45793.0	10000	41.2000	92.7609	-694	QK	2.8	2	6.7	-1	0.9	-2	0.420	3	3.013	2	7.167	1	1781	45	1.6
45793.1	10000	41.2000	92.7600	-701	QK	2.6	2	7.3	0	0.9	-2	0.358	3	2.927	2	8.172	1	1770	48	1.6
45793.2	10000	41.2000	92.7591	-708	QK	2.6	2	7.5	0	0.9	-2	0.351	3	2.858	2	8.135	1	1763	36	1.6
45793.3	10000	41.2000	92.7582	-715	QK	2.4	2	6.9	-1	0.9	-2	0.351	3	2.589	2	7.378	1	1742	38	1.6
45793.4	10000	41.2000	92.7573	-721	QK	2.6	2	6.9	-1	1.0	-1	0.382	3	2.684	2	7.025	1	1728	48	1.6
45793.5	10000	41.2000	92.7564	-726	QK	2.6	2	6.6	-1	1.0	-1	0.422	3	2.612	2	6.193	1	1724	42	1.6
45793.6	10000	41.2000	92.7555	-732	QK	2.7	2	6.6	-1	1.0	-1	0.418	3	2.716	2	6.495	0	1715	39	1.6
45793.7	10000	41.2000	92.7546	-736	QK	2.6	2	6.5	-1	1.0	-1	0.400	3	2.588	2	6.471	0	1717	47	1.6
45793.8	10000	41.2000	92.7537	-741	QK	2.4	2	6.6	-1	1.0	-1	0.402	3	2.305	2	5.738	-1	1724	42	1.6
45793.9	10000	41.1999	92.7528	-745	QK	2.4	2	6.7	-1	1.0	-1	0.391	3	2.326	2	5.941	-1	1719	32	1.6
45794.0	10000	41.1999	92.7519	-748	QK	2.3	2	6.8	-1	1.0	-1	0.368	3	2.222	2	6.044	-1	1723	38	1.6
45794.1	10000	41.1999	92.7510	-751	QK	2.3	2	7.0	-1	1.1	-1	0.347	3	2.233	2	6.437	0	1738	39	1.6
45794.2	10000	41.1999	92.7501	-754	QK	2.2	2	7.0	-1	1.1	0	0.319	3	2.032	2	6.369	0	1731	34	1.6
45794.3	10000	41.1999	92.7492	-757	QK	2.5	2	7.3	0	1.0	-1	0.361	3	2.488	2	6.898	1	1735	39	1.6
45794.4	10000	41.1999	92.7483	-759	QK	2.6	2	7.3	0	1.0	-1	0.357	3	2.574	2	7.216	1	1752	44	1.6

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45794.5	10000	41.1999	92.7474	-762	QK	2.7	0	7.3	0	1.0	-1	0.370	0	2.622	1	7.095	1	1759	47	1.6
45794.6	10000	41.1999	92.7465	-764	QK	2.8	1	6.9	0	1.1	-1	0.410	1	2.670	1	6.509	0	1779	32	1.6
45794.7	10000	41.1999	92.7456	-766	QK	3.0	1	6.6	-1	1.1	0	0.451	1	2.752	1	6.103	-1	1787	40	1.6
45794.8	10000	41.1999	92.7447	-767	QK	2.9	1	6.5	-1	1.1	-1	0.438	1	2.702	1	6.168	0	1784	41	1.6
45794.9	10000	41.1998	92.7438	-768	QK	3.1	1	6.5	-1	1.1	-1	0.484	2	2.992	2	6.184	0	1793	38	1.6
45795.0	10000	41.1998	92.7429	-769	QK	2.8	1	6.2	-1	1.1	0	0.449	1	2.481	0	5.530	-1	1794	32	1.6
45795.1	10000	41.1998	92.7420	-770	QK	2.9	1	6.0	-2	1.2	0	0.475	2	2.472	0	5.204	-2	1794	33	1.6
45795.2	10000	41.1998	92.7411	-771	QK	2.8	1	6.4	-1	1.1	0	0.446	1	2.510	1	5.625	-1	1802	45	1.6
45795.3	10000	41.1998	92.7402	-771	QK	2.7	0	6.6	-1	1.1	0	0.407	1	2.424	0	5.949	-1	1804	39	1.6
45795.4	10000	41.1998	92.7393	-772	QK	2.8	1	7.2	0	1.1	-1	0.396	1	2.681	1	6.771	0	1814	38	1.6
45795.5	10000	41.1998	92.7384	-772	QK	3.0	1	6.8	-1	1.1	0	0.442	1	2.746	1	6.208	0	1804	53	1.6
45795.6	10000	41.1998	92.7375	-771	QK	2.7	0	6.8	-1	1.1	0	0.396	1	2.372	0	5.986	-1	1805	38	1.6
45795.7	10000	41.1998	92.7366	-770	QK	2.8	1	7.0	0	1.1	0	0.407	1	2.465	0	6.053	-1	1819	44	1.6
45795.8	10000	41.1997	92.7357	-769	QK	3.0	1	6.8	-1	1.1	0	0.435	1	2.644	1	6.074	-1	1840	39	1.6
45795.9	10000	41.1997	92.7348	-768	QK	3.1	1	6.5	-1	1.2	0	0.477	2	2.674	1	5.612	-1	1848	40	1.6
45796.0	10000	41.1997	92.7339	-767	QK	3.1	1	6.2	-1	1.2	1	0.504	2	2.618	1	5.190	-2	1842	45	1.6
45796.1	10000	41.1997	92.7330	-767	QK	2.9	1	6.4	-1	1.2	1	0.460	2	2.421	0	5.265	-2	1828	50	1.5
45796.2	10000	41.1997	92.7321	-765	QK	2.9	1	6.4	-1	1.2	1	0.457	2	2.436	0	5.326	-2	1833	36	1.5
45796.3	10000	41.1997	92.7312	-763	QK	3.2	1	6.2	-1	1.1	0	0.513	2	2.862	1	5.580	-1	1837	41	1.5
45796.4	10000	41.1997	92.7303	-761	QK	3.0	1	6.2	-1	1.1	0	0.482	2	2.710	1	5.627	-1	1821	44	1.5
45796.5	10000	41.1997	92.7294	-758	QK	2.7	0	6.6	-1	1.1	0	0.409	1	2.494	0	6.099	-1	1798	40	1.5
45796.6	10000	41.1997	92.7285	-755	QK	2.6	0	6.6	-1	1.1	0	0.386	0	2.413	0	6.257	0	1784	49	1.5
45796.7	10000	41.1996	92.7276	-752	QK	2.5	0	6.8	-1	1.0	-1	0.362	0	2.487	0	6.867	1	1773	32	1.5
45796.8	10000	41.1996	92.7267	-748	QK	2.6	0	6.9	-1	1.0	-1	0.382	0	2.657	1	6.961	1	1784	36	1.5
45796.9	10000	41.1996	92.7258	-745	QK	2.5	0	7.1	0	1.0	-1	0.353	0	2.445	1	7.212	1	1791	42	1.5
45797.0	10000	41.1996	92.7249	-741	QK	2.4	0	7.5	1	1.0	-1	0.325	0	2.418	1	7.440	1	1804	37	1.5
45797.1	10000	41.1996	92.7240	-736	QK	2.4	0	7.5	1	1.0	-1	0.321	0	2.461	1	7.676	2	1810	42	1.5
45797.2	10000	41.1996	92.7231	-731	QK	2.6	0	7.8	1	1.0	-1	0.332	0	2.547	2	7.661	2	1835	50	1.5
45797.3	10000	41.1996	92.7222	-727	QK	2.6	0	7.9	1	1.0	-1	0.324	0	2.448	2	7.551	2	1848	46	1.5
45797.4	10000	41.1996	92.7213	-722	QK	2.7	0	7.9	1	1.1	-1	0.348	0	2.508	1	7.199	1	1871	32	1.5
45797.5	10000	41.1996	92.7204	-716	QK	2.6	0	7.8	1	1.1	-1	0.335	0	2.306	0	6.887	1	1881	39	1.5
45797.6	10000	41.1996	92.7195	-711	QK	2.7	0	7.7	1	1.2	-1	0.344	0	2.298	0	6.675	1	1897	43	1.5
45797.7	10000	41.1995	92.7186	-705	QK	2.8	1	7.8	1	1.2	0	0.356	0	2.344	0	6.588	1	1908	42	1.5
45797.8	10000	41.1995	92.7177	-700	QK	3.0	1	7.8	1	1.2	0	0.389	1	2.540	1	6.534	1	1921	39	1.5
45797.9	10000	41.1995	92.7168	-694	QK	3.0	1	7.4	1	1.2	0	0.412	1	2.563	1	6.216	0	1935	31	1.5
45798.0	10000	41.1995	92.7159	-686	QK	3.2	2	7.4	1	1.2	0	0.434	1	2.632	1	6.068	-1	1943	37	1.5
45798.1	10000	41.1995	92.7150	-680	QK	3.0	2	7.6	1	1.3	0	0.390	1	2.369	0	6.068	-1	1956	43	1.5
45798.2	10000	41.1995	92.7141	-675	QK	3.2	2	7.6	1	1.2	0	0.420	1	2.607	1	6.205	0	1967	39	1.5
45798.3	10000	41.1995	92.7132	-669	QK	3.2	2	7.7	1	1.3	0	0.417	1	2.550	1	6.118	-1	1971	41	1.5
45798.4	10000	41.1995	92.7123	-662	QK	3.1	2	7.3	1	1.2	0	0.417	1	2.461	0	5.906	-1	1974	40	1.5
45798.5	10000	41.1995	92.7114	-654	QK	2.9	1	7.7	1	1.3	0	0.379	1	2.157	0	5.690	-1	1990	42	1.5
45798.6	10000	41.1995	92.7105	-646	QK	2.8	1	7.4	1	1.3	0	0.338	1	2.039	0	6.033	-1	1996	39	1.5
45798.7	10000	41.1994	92.7096	-639	QK	2.6	1	7.2	1	1.3	0	0.324	1	1.992	-1	6.154	0	2000	39	1.5
45798.8	10000	41.1994	92.7087	-631	QK	2.8	1	7.0	1	1.4	0	0.346	1	2.102	0	6.082	-1	1994	47	1.5
45798.9	10000	41.1994	92.7078	-624	QK	2.5	1	7.0	1	1.3	0	0.321	1	1.850	-1	5.766	-1	1992	42	1.5
45799.0	10000	41.1994	92.7069	-616	QK	2.7	1	7.1	1	1.4	0	0.336	1	1.972	-1	5.874	-1	1990	43	1.5
45799.1	10000	41.1994	92.7060	-608	QK	2.6	1	7.1	1	1.3	0	0.319	1	1.926	-1	6.035	-1	1984	44	1.5
45799.2	10000	41.1994	92.7051	-600	QK	2.5	1	7.2	1	1.3	0	0.322	1	1.980	-1	6.154	-1	1969	45	1.5
45799.3	10000	41.1994	92.7042	-591	QK	2.6	1	7.4	1	1.3	0	0.366	1	2.133	0	5.833	-1	1946	41	1.5
45799.4	10000	41.1994	92.7033	-584	QK	2.7	1	7.1	1	1.3	0	0.367	1	2.180	0	5.936	-1	1938	34	1.5
45799.5	10000	41.1993	92.7024	-577	QK	2.8	1	7.1	1	1.3	0	0.390	1	2.198	0	5.636	-1	1929	38	1.5
45799.6	10000	41.1993	92.7015	-569	QK	2.7	1	7.1	1	1.2	1	0.380	0	2.225	0	5.853	-1	1924	47	1.5

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45799.7	10000	41.1993	92.7006	-563	QK	2.5	0	7.4	0	1.2	0	0.339	0	2.141	0	6.311	0	1907	41	1.5
45799.8	10000	41.1993	92.6997	-557	QK	2.6	0	7.2	0	1.2	1	0.366	0	2.147	0	5.867	-1	1897	39	1.5
45799.9	10000	41.1993	92.6988	-551	QK	2.8	1	7.4	0	1.2	1	0.378	0	2.343	0	6.197	0	1891	45	1.5
45800.0	10000	41.1993	92.6979	-546	QK	2.8	1	7.7	1	1.2	1	0.365	0	2.349	0	6.437	0	1868	44	1.5
45800.1	10000	41.1993	92.6970	-541	QK	2.7	0	7.6	0	1.2	0	0.353	0	2.289	0	6.482	0	1845	52	1.5
45800.2	10000	41.1993	92.6961	-537	QK	2.6	0	7.8	1	1.1	0	0.338	0	2.348	0	6.955	1	1817	45	1.5
45800.3	10000	41.1993	92.6952	-533	QK	2.6	0	7.5	0	1.1	0	0.343	0	2.333	0	6.[illegible]96	0	1770	49	1.5
45800.4	10000	41.1993	92.6943	-530	QK	2.3	0	7.0	0	1.1	0	0.331	0	2.059	0	6.224	0	1727	32	1.5
45800.5	10000	41.1992	92.6934	-527	QK	2.0	-1	7.0	0	1.1	0	0.291	-1	1.863	-1	6.410	0	1698	26	1.5
45800.6	10000	41.1992	92.6925	-526	QK	2.1	-1	6.5	-1	1.1	0	0.314	-1	1.840	-1	5.850	-1	1681	42	1.5
45800.7	10000	41.1992	92.6916	-525	QK	2.1	-1	6.3	-1	1.1	0	0.329	0	1.879	-1	5.720	-1	1696	36	1.5
45800.8	10000	41.1992	92.6907	-524	QK	2.3	-1	6.1	-2	1.1	0	0.371	0	1.998	-1	5.392	-2	1714	45	1.5
45800.9	10000	41.1992	92.6898	-524	QK	2.2	-1	6.0	-2	1.1	0	0.358	0	1.948	-1	5.442	-1	1722	41	1.5
45801.0	10000	41.1992	92.6889	-524	QK	2.3	-1	6.3	-1	1.1	0	0.361	0	2.012	-1	5.573	-1	1746	48	1.5
45801.1	10000	41.1992	92.6880	-525	QAL	2.4	0	6.3	0	1.1	0	0.383	0	2.167	0	5.656	-1	1779	46	1.5
45801.2	10000	41.1992	92.6871	-526	QAL	2.7	0	6.5	0	1.1	0	0.418	0	2.419	0	5.785	0	1790	40	1.5
45801.3	10000	41.1992	92.6862	-527	QAL	2.6	0	6.6	0	1.1	0	0.395	0	2.442	0	6.186	0	1758	32	1.5
45801.4	10000	41.1992	92.6853	-528	QAL	2.5	0	6.7	0	1.0	0	0.364	0	2.430	0	6.680	1	1694	49	1.5
45801.5	10000	41.1991	92.6844	-529	QAL	2.4	0	6.6	0	0.9	-1	0.358	0	2.530	0	7.070	1	1616	41	1.5
45801.6	10000	41.1991	92.6835	-530	QAL	2.4	0	6.0	-1	0.9	-1	0.397	0	2.717	1	6.851	1	1527	43	1.5
45801.7	10000	41.1991	92.6826	-531	QAL	2.4	0	5.5	-1	0.8	-2	0.433	1	3.081	1	7.119	1	1422	30	1.5
45801.8	10000	41.1991	92.6817	-531	QAL	2.4	0	5.1	-1	0.7	-3	0.477	1	3.464	2	7.269	1	1332	35	1.5
45801.9	10000	41.1991	92.6808	-531	QAL	2.1	-1	4.6	-2	0.7	-3	0.456	1	3.238	2	7.098	1	1259	44	1.5
45802.0	10000	41.1991	92.6799	-531	QAL	2.0	-1	4.4	-2	0.6	-3	0.456	1	3.259	2	7.149	1	1229	41	1.5
45802.1	10000	41.1991	92.6790	-530	QAL	2.2	-1	4.1	-2	0.7	-3	0.532	2	3.328	2	6.255	0	1228	51	1.5
45802.2	10000	41.1991	92.6781	-528	QAL	2.2	-1	4.2	-2	0.7	-3	0.519	2	3.151	2	6.068	0	1251	44	1.5
45802.3	10000	41.1990	92.6772	-526	QAL	2.1	-1	4.5	-2	0.7	-3	0.469	1	2.805	1	5.982	0	1296	49	1.5
45802.4	10000	41.1990	92.6763	-523	QAL	2.0	-1	4.6	-2	0.8	-3	0.448	1	2.484	1	5.550	-1	1345	27	1.5
45802.5	10000	41.1990	92.6754	-519	QAL	2.0	-1	4.7	-2	0.9	-3	0.426	1	2.337	1	5.483	-1	1383	42	1.5
45802.6	10000	41.1990	92.6745	-515	QAL	2.0	-1	4.8	-2	0.9	-3	0.410	1	2.300	1	5.608	-1	1418	42	1.5
45802.7	10000	41.1990	92.6736	-510	QAL	2.1	-1	4.9	-2	0.9	-3	0.427	1	2.286	1	5.353	-1	1454	52	1.5
45802.8	10000	41.1990	92.6727	-504	QAL	2.1	-1	4.8	-2	0.9	-3	0.439	1	2.238	1	5.099	-1	1487	28	1.5
45802.9	10000	41.1990	92.6718	-498	QAL	2.2	-1	4.8	-2	0.9	-3	0.450	1	2.319	1	5.150	-1	1512	46	1.5
45803.0	10000	41.1990	92.6709	-492	QAL	2.2	-1	5.0	-2	1.0	-3	0.436	1	2.254	1	5.173	-1	1546	41	1.5
45803.1	10000	41.1990	92.6700	-484	QAL	2.2	0	5.4	-1	1.0	-2	0.415	1	2.245	1	5.411	-1	1574	35	1.5
45803.2	10000	41.1990	92.6691	-477	QAL	2.3	0	5.6	-1	1.0	-2	0.395	1	2.215	1	5.604	-1	1586	39	1.5
45803.3	10000	41.1989	92.6682	-470	QAL	2.1	0	5.8	-1	1.0	-2	0.409	1	2.311	1	5.658	-1	1571	43	1.5
45803.4	10000	41.1990	92.6673	-462	QAL	2.1	-1	6.1	-1	1.0	-2	0.359	1	2.152	1	5.992	0	1550	46	1.5
45803.5	10000	41.1990	92.6665	-453	QAL	2.0	-1	6.3	-1	0.9	-2	0.379	1	2.266	1	5.977	0	1509	41	1.5
45803.6	10000	41.1990	92.6656	-445	QAL	1.9	-1	6.5	-1	0.9	-2	0.368	1	2.226	1	6.057	0	1462	35	1.5
45803.7	10000	41.1990	92.6647	-436	QAL	1.8	-1	6.6	-1	0.9	-2	0.341	1	2.067	1	6.066	0	1413	44	1.5
45803.8	10000	41.1990	92.6639	-428	QAL	1.9	-1	6.9	-2	0.8	-3	0.393	1	2.261	1	5.751	0	1390	43	1.5
45803.9	10000	41.1990	92.6630	-420	QE	2.1	-2	6.9	-2	0.9	-3	0.426	1	2.530	1	5.938	0	1401	44	1.5
45804.0	10000	41.1990	92.6622	-412	QE	2.2	-2	6.9	-2	0.9	-3	0.421	1	2.527	1	6.005	0	1445	37	1.5
45804.1	10000	41.1990	92.6613	-404	QE	2.4	-2	6.9	-2	1.0	-3	0.465	1	2.625	1	5.640	-1	1484	37	1.5
45804.2	10000	41.1990	92.6604	-396	QE	2.1	-2	6.2	-2	1.1	-3	0.383	1	2.087	-1	5.446	-2	1551	48	1.5
45804.3	10000	41.1990	92.6596	-388	QE	2.0	-2	5.4	-2	1.2	-3	0.343	1	1.780	-1	5.191	-2	1638	55	1.5
45804.4	10000	41.1990	92.6587	-379	QE	2.2	-2	5.9	-2	1.3	-3	0.400	1	2.058	-1	5.146	-2	1721	47	1.5
45804.5	10000	41.1990	92.6578	-371	QE	2.5	-1	6.2	-2	1.4	-3	0.364	1	1.970	-2	5.416	-1	1793	43	1.5
45804.6	10000	41.1990	92.6570	-363	QE	2.3	-1	6.9	-1	1.4	-2	0.320	1	1.637	-2	5.125	-2	1853	48	1.5
45804.7	10000	41.1990	92.6561	-355	QE	2.3	-1	7.1	-1	1.4	-2	0.321	1	1.653	-2	5.144	-2	1887	40	1.5
45804.8	10000	41.1990	92.6552	-348	QE	2.3	-1	7.8	1	1.4	2	0.291	-2	1.608	-2	5.535	-1	1920	55	1.5

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45804.9	10000	41.1990	92.6544	-339	QE	2.5	-1	7.8	1	1.4	1	0.324	-1	1.850	-1	5.713	-1	1938	41	1.5
45805.0	10000	41.1991	92.6535	-331	QE	2.8	0	7.8	1	1.3	1	0.360	-1	2.195	0	6.105	0	1947	38	1.5
45805.1	10000	41.1991	92.6526	-323	QE	2.4	-1	7.9	1	1.3	1	0.308	-2	1.926	-1	6.251	0	1952	38	1.5
45805.2	10000	41.1991	92.6518	-314	QE	2.4	-1	7.9	1	1.2	0	0.304	-2	2.013	-1	6.631	1	1953	42	1.5
45805.3	10000	41.1991	92.6509	-305	QE	2.9	0	7.8	1	1.1	-1	0.376	0	2.597	1	6.900	2	1947	37	1.5
45805.4	10000	41.1991	92.6500	-297	QE	2.8	0	7.7	0	1.1	0	0.372	0	2.509	0	6.739	1	1935	34	1.5
45805.5	10000	41.1991	92.6492	-288	QE	2.8	0	7.1	0	1.2	0	0.391	0	2.322	0	5.935	0	1924	46	1.5
45805.6	10000	41.1991	92.6483	-279	QE	2.8	0	7.0	0	1.2	0	0.398	0	2.377	0	5.969	0	1895	39	1.6
45805.7	10000	41.1991	92.6474	-270	QE	2.8	0	6.8	-1	1.2	0	0.420	1	2.454	0	5.845	-1	1882	38	1.6
45805.8	10000	41.1991	92.6466	-263	QE	3.1	1	7.1	0	1.1	0	0.433	1	2.678	1	6.181	0	1883	56	1.6
45805.9	10000	41.1991	92.6457	-256	QE	3.0	1	6.7	-1	1.2	0	0.444	1	2.505	0	5.641	-1	1870	48	1.5
45806.0	10000	41.1991	92.6449	-248	QE	2.7	0	6.9	0	1.2	0	0.393	0	2.235	0	5.686	-1	1855	38	1.6
45806.1	10000	41.1991	92.6440	-240	QE	2.9	0	6.8	-1	1.2	0	0.435	1	2.497	0	5.744	-1	1848	50	1.6
45806.2	10000	41.1991	92.6431	-233	QE	3.2	1	7.0	0	1.1	0	0.459	2	2.799	1	6.097	0	1855	41	1.6
45806.3	10000	41.1991	92.6423	-226	QF	3.4	999	7.0	999	1.1	999	0.483	999	2.959	999	6.122	999	1871	44	1.6
45806.4	10000	41.1992	92.6414	-219	QF	3.2	999	6.8	999	1.1	999	0.474	999	2.929	999	6.180	999	1851	45	1.6
45806.5	10000	41.1992	92.6405	-211	QF	3.1	999	6.6	999	1.1	999	0.475	999	2.825	999	5.953	999	1807	50	1.6
45806.6	10000	41.1992	92.6397	-204	QF	3.0	999	6.6	999	1.1	999	0.454	999	2.743	999	6.042	999	1796	31	1.6
45806.7	10000	41.1992	92.6388	-199	QF	2.9	999	6.5	999	1.0	999	0.452	999	2.810	999	6.214	999	1785	45	1.6
45806.8	10000	41.1992	92.6379	-195	QF	2.6	999	6.5	999	1.0	999	0.404	999	2.586	999	6.399	999	1786	41	1.6
45806.9	10000	41.1992	92.6371	-192	QF	2.6	999	6.3	999	1.0	999	0.420	999	2.647	999	6.307	999	1790	43	1.6
45807.0	10000	41.1992	92.6362	-188	QF	2.5	999	6.6	999	1.0	999	0.377	999	2.388	999	6.326	999	1797	52	1.6
45807.1	10000	41.1992	92.6353	-184	QF	2.6	999	6.6	999	1.1	999	0.389	999	2.369	999	6.097	999	1822	43	1.6
45807.2	10000	41.1992	92.6345	-181	QF	2.8	999	6.5	999	1.1	999	0.422	999	2.546	999	6.031	999	1860	40	1.6
45807.3	10000	41.1992	92.6336	-179	QF	3.0	999	6.8	999	1.1	999	0.442	999	2.812	999	6.368	999	1886	31	1.6
45807.4	10000	41.1992	92.6328	-176	QF	3.0	999	6.9	999	1.1	999	0.433	999	2.667	999	6.163	999	1901	44	1.6
45807.5	10000	41.1992	92.6319	-174	QE	3.1	1	6.7	-1	1.1	0	0.459	2	2.670	1	5.813	-1	1914	48	1.6
45807.6	10000	41.1992	92.6310	-172	QE	3.2	1	7.2	1	1.2	0	0.436	1	2.690	1	6.166	0	1910	43	1.6
45807.7	10000	41.1992	92.6302	-166	QE	3.0	1	7.4	1	1.2	0	0.402	0	2.474	1	6.152	0	1907	55	1.6
45807.8	10000	41.1992	92.6293	-164	QE	2.9	0	7.7	1	1.2	0	0.372	0	2.390	0	6.430	1	1917	38	1.6
45807.9	10000	41.1992	92.6284	-167	QE	3.0	1	7.7	1	1.2	0	0.390	0	2.479	1	6.361	1	1933	41	1.6
45808.0	10000	41.1992	92.6276	-169	QE	3.0	1	8.0	1	1.2	0	0.369	0	2.428	0	6.577	1	1937	49	1.6
45808.1	10000	41.1993	92.6267	-169	QE	2.9	0	8.1	2	1.2	-1	0.357	-1	2.337	0	6.543	1	1958	48	1.6
45808.2	10000	41.1993	92.6258	-169	QE	2.9	0	8.9	1	1.3	-1	0.324	-1	2.268	0	6.995	2	1980	40	1.6
45808.3	10000	41.1993	92.6250	-170	QE	2.6	0	8.4	1	1.3	-2	0.309	-2	2.029	-1	6.576	1	1976	47	1.6
45808.4	10000	41.1993	92.6241	-171	QE	2.7	0	8.5	1	1.3	-1	0.317	-1	2.142	-1	6.753	1	1968	36	1.6
45808.5	10000	41.1993	92.6232	-172	QE	2.8	0	8.3	1	1.2	-1	0.341	-1	2.307	0	6.768	1	1955	45	1.6
45808.6	10000	41.1993	92.6224	-172	QE	2.8	0	8.0	1	1.2	-1	0.352	-1	2.348	0	6.672	1	1921	52	1.5
45808.7	10000	41.1993	92.6215	-173	QE	3.1	1	7.7	1	1.2	0	0.399	0	2.570	1	6.433	1	1913	45	1.5
45808.8	10000	41.1993	92.6207	-171	QE	3.1	1	7.7	1	1.2	0	0.400	0	2.611	1	6.521	1	1900	39	1.5
45808.9	10000	41.1993	92.6198	-170	QE	3.1	1	7.5	1	1.2	0	0.407	0	2.604	1	6.403	1	1890	31	1.5
45809.0	10000	41.1993	92.6189	-174	QE	3.2	1	7.4	2	1.2	1	0.429	1	2.740	1	6.390	1	1898	50	1.5
45809.1	10000	41.1993	92.6181	-176	QE	3.4	1	7.2	1	1.2	2	0.474	2	2.978	2	6.281	0	1913	41	1.5
45809.2	10000	41.1993	92.6172	-178	QE	3.3	1	7.3	1	1.2	1	0.452	1	2.747	1	6.081	0	1923	36	1.5
45809.3	10000	41.1993	92.6163	-179	QE	3.3	1	7.9	2	1.2	1	0.411	1	2.682	1	6.524	1	1957	50	1.5
45809.4	10000	41.1993	92.6155	-181	QE	3.0	1	7.9	1	1.3	0	0.377	0	2.374	0	6.300	0	1960	56	1.5
45809.5	10000	41.1993	92.6146	-183	QK	3.1	1	7.6	1	1.2	1	0.402	1	2.493	1	6.207	0	1967	38	1.5
45809.6	10000	41.1993	92.6137	-185	QK	3.2	1	7.4	1	1.2	1	0.433	1	2.663	1	6.150	0	1959	43	1.5
45809.7	10000	41.1994	92.6129	-186	QK	3.2	1	7.7	2	1.2	1	0.414	1	2.605	1	6.287	0	1958	48	1.5
45809.8	10000	41.1994	92.6120	-188	QK	3.1	1	7.5	1	1.2	1	0.414	1	2.626	1	6.344	0	1956	42	1.5
45809.9	10000	41.1994	92.6111	-190	QK	3.3	2	7.5	1	1.2	1	0.437	2	2.982	2	6.816	0	1945	48	1.5
45810.0	10000	41.1994	92.6103	-192	QK	3.3	2	7.0	0	1.1	0	0.469	2	3.043	2	6.490	0	1925	55	1.5

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45810.1	10000	41.1994	92.6094	-193	QK	3.3	2	7.4	0	1.1	0	0.451	1	3.094	2	6.862	1	1914	44	1.5
45810.2	10000	41.1994	92.6085	-196	QK	3.2	1	7.5	0	1.1	0	0.428	1	2.994	1	6.993	1	1897	32	1.5
45810.3	10000	41.1994	92.6077	-197	QK	3.2	1	7.6	0	1.1	0	0.420	1	2.922	1	6.951	1	1892	52	1.5
45810.4	10000	41.1994	92.6068	-199	QK	3.2	2	7.7	1	1.1	0	0.424	1	2.984	2	7.036	1	1879	36	1.5
45810.5	10000	41.1994	92.6059	-201	QK	3.2	1	7.9	1	1.1	0	0.402	1	2.865	1	7.120	1	1872	28	1.5
45810.6	10000	41.1994	92.6051	-202	QK	3.1	1	7.7	1	1.2	1	0.400	1	2.611	1	6.529	0	1884	35	1.5
45810.7	10000	41.1994	92.6042	-204	QK	3.0	1	8.1	1	1.2	1	0.367	0	2.382	0	6.488	0	1894	51	1.5
45810.8	10000	41.1994	92.6033	-205	QK	3.0	1	7.9	1	1.2	1	0.376	0	2.425	0	6.449	0	1894	37	1.5
45810.9	10000	41.1994	92.6025	-207	QK	2.9	1	8.0	1	1.2	1	0.357	0	2.350	0	6.576	0	1897	41	1.5
45811.0	10000	41.1994	92.6016	-208	QK	3.0	1	8.2	1	1.2	1	0.368	0	2.478	0	6.732	0	1910	43	1.5
45811.1	10000	41.1994	92.6008	-209	QK	2.9	1	8.2	1	1.2	1	0.350	0	2.356	0	6.734	0	1920	39	1.5
45811.2	10000	41.1994	92.5999	-211	QK	2.8	0	8.3	1	1.3	1	0.332	0	2.196	0	6.613	0	1921	49	1.5
45811.3	10000	41.1995	92.5990	-212	QK	2.4	0	8.7	2	1.2	1	0.278	-1	1.933	-1	6.966	1	1903	50	1.5
45811.4	10000	41.1995	92.5982	-213	QK	2.5	0	8.9	2	1.2	1	0.274	-1	1.972	-1	7.193	1	1895	52	1.5
45811.5	10000	41.1995	92.5973	-215	QK	2.2	-1	9.0	2	1.3	2	0.249	-1	1.720	-1	6.917	1	1899	40	1.5
45811.6	10000	41.1995	92.5964	-217	QK	2.3	0	9.4	3	1.3	1	0.247	-1	1.786	-1	7.244	1	1911	47	1.5
45811.7	10000	41.1995	92.5956	-219	QK	2.0	-1	9.4	3	1.3	1	0.212	-2	1.568	-1	7.410	1	1906	35	1.5
45811.8	10000	41.1995	92.5947	-221	QK	1.9	-1	9.1	3	1.3	1	0.210	-2	1.518	-2	7.222	1	1907	51	1.5
45811.9	10000	41.1995	92.5938	-223	QK	2.0	-1	9.1	3	1.3	1	0.215	-2	1.540	-2	7.151	1	1905	45	1.4
45812.0	10000	41.1995	92.5930	-225	QK	1.9	-1	9.0	2	1.3	1	0.217	-2	1.532	-2	7.060	1	1911	40	1.4
45812.1	10000	41.1995	92.5921	-226	QK	2.2	-1	8.8	2	1.2	1	0.253	-1	1.832	-1	7.246	1	1912	62	1.4
45812.2	10000	41.1995	92.5912	-228	QK	2.4	0	8.6	2	1.2	0	0.286	-1	2.080	0	7.281	1	1918	41	1.4
45812.3	10000	41.1995	92.5904	-230	QK	2.6	0	7.7	1	1.3	1	0.344	0	2.197	0	6.380	0	1903	42	1.4
45812.4	10000	41.1995	92.5895	-231	QK	2.6	0	7.5	1	1.3	1	0.349	0	2.080	0	5.961	-1	1884	27	1.4
45812.5	10000	41.1995	92.5887	-233	QK	2.6	0	7.6	1	1.3	1	0.337	0	2.022	-1	5.998	-1	1866	45	1.4
45812.6	10000	41.1995	92.5878	-235	QK	2.6	0	7.7	1	1.2	1	0.338	0	2.077	0	6.147	0	1866	61	1.4
45812.7	10000	41.1995	92.5869	-237	QK	2.5	0	7.5	1	1.2	1	0.340	0	2.134	0	6.275	0	1864	42	1.4
45812.8	10000	41.1996	92.5861	-239	QK	2.3	-1	7.2	0	1.2	1	0.315	0	1.881	-1	5.970	-1	1853	44	1.4
45812.9	10000	41.1996	92.5852	-241	QK	2.4	0	7.4	1	1.2	1	0.329	0	2.066	0	6.287	0	1831	42	1.4
45813.0	10000	41.1996	92.5843	-242	QK	2.4	0	7.9	1	1.1	0	0.302	-1	2.128	0	7.057	1	1824	37	1.4
45813.1	10000	41.1996	92.5835	-245	QK	2.4	0	7.7	1	1.1	0	0.305	-1	2.191	0	7.194	1	1826	44	1.4
45813.2	10000	41.1996	92.5826	-247	QK	2.4	0	7.6	1	1.1	0	0.320	0	2.283	0	7.135	1	1825	38	1.4
45813.3	10000	41.1996	92.5817	-249	QK	2.6	0	7.3	1	1.1	0	0.361	0	2.444	0	6.765	0	1822	43	1.4
45813.4	10000	41.1996	92.5809	-251	QK	2.9	0	7.1	1	1.1	0	0.410	1	2.676	1	6.529	0	1815	49	1.4
45813.5	10000	41.1996	92.5800	-254	QK	2.7	0	7.4	1	1.1	0	0.369	1	2.534	1	6.869	1	1825	57	1.4
45813.6	10000	41.1996	92.5791	-256	QK	2.5	0	7.2	1	1.1	0	0.347	0	2.221	0	6.396	0	1835	34	1.4
45813.7	10000	41.1996	92.5783	-258	QK	2.7	0	6.8	1	1.2	0	0.396	1	2.315	0	5.849	-1	1841	43	1.4
45813.8	10000	41.1996	92.5774	-260	QK	3.0	1	6.9	1	1.1	0	0.441	1	2.780	1	6.297	0	1831	45	1.4
45813.9	10000	41.1996	92.5765	-261	QK	3.1	1	7.1	1	1.1	0	0.441	1	2.898	1	6.565	0	1844	41	1.4
45814.0	10000	41.1996	92.5757	-262	QK	2.8	1	7.7	1	1.1	0	0.363	1	2.529	1	6.969	1	1842	46	1.4
45814.1	10000	41.1996	92.5748	-262	QK	2.7	0	7.3	1	1.1	0	0.376	1	2.509	1	6.675	0	1840	53	1.4
45814.2	10000	41.1996	92.5739	-263	QK	2.9	1	7.0	1	1.1	0	0.418	1	2.613	1	6.249	0	1835	56	1.4
45814.3	10000	41.1996	92.5731	-264	QK	3.1	1	6.9	1	1.1	0	0.446	1	2.770	1	6.214	0	1838	41	1.4
45814.4	10000	41.1996	92.5722	-263	QK	2.6	0	7.0	1	1.1	0	0.379	0	2.337	0	6.169	0	1834	51	1.4
45814.5	10000	41.1996	92.5714	-263	QK	2.2	-1	7.0	1	1.2	1	0.320	-1	1.827	-1	5.705	-1	1854	51	1.4
45814.6	10000	41.1997	92.5705	-262	QK	2.1	-1	7.1	1	1.2	1	0.295	-1	1.729	-1	5.862	-1	1850	52	1.4
45814.7	10000	41.1997	92.5696	-260	QK	2.4	0	6.5	1	1.2	1	0.369	-1	1.946	-1	5.281	-2	1863	50	1.4
45814.8	10000	41.1997	92.5688	-259	QK	2.2	-1	6.8	1	1.3	1	0.324	-1	1.745	-1	5.390	-2	1881	43	1.4
45814.9	10000	41.1997	92.5679	-257	QK	2.2	-1	7.0	1	1.3	1	0.322	-1	1.772	-1	5.508	-1	1886	35	1.4
45815.0	10000	41.1997	92.5670	-254	QK	2.0	-1	7.1	1	1.2	1	0.285	-1	1.632	-1	5.719	-1	1870	47	1.4
45815.1	10000	41.1997	92.5662	-252	QK	2.4	0	7.1	1	1.2	1	0.339	-1	1.958	-1	5.783	-1	1881	51	1.4
45815.2	10000	41.1997	92.5653	-249	QK	2.9	1	6.9	0	1.2	1	0.413	1	2.416	0	5.845	-1	1872	57	1.4

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45815.3	10000	41.1997	92.5644	-246	QK	3.1	1	6.5	-1	1.2	0	0.472	2	2.642	1	5.600	-1	1880	41	1.4
45815.4	10000	41.1997	92.5636	-243	QK	3.3	2	7.0	0	1.1	0	0.473	2	3.008	2	6.360	0	1871	35	1.4
45815.5	10000	41.1997	92.5627	-240	QK	3.6	2	7.4	0	1.1	0	0.484	2	3.259	2	6.728	0	1869	50	1.4
45815.6	10000	41.1997	92.5618	-237	QK	3.3	2	7.2	0	1.2	0	0.463	2	2.889	1	6.245	0	1862	47	1.4
45815.7	10000	41.1997	92.5610	-234	QK	3.2	1	7.3	0	1.2	1	0.440	1	2.725	1	6.192	0	1868	41	1.5
45815.8	10000	41.1997	92.5601	-231	QK	2.9	1	7.2	0	1.2	1	0.408	1	2.402	0	5.881	-1	1862	47	1.5
45815.9	10000	41.1997	92.5592	-228	QK	2.8	1	7.3	0	1.3	1	0.389	1	2.255	0	5.802	-1	1856	44	1.5
45816.0	10000	41.1997	92.5584	-226	QK	2.8	1	7.2	0	1.3	1	0.390	1	2.206	0	5.652	-1	1838	40	1.5
45816.1	10000	41.1997	92.5575	-223	QK	2.5	0	7.2	0	1.3	1	0.341	0	1.897	-1	5.571	-1	1843	47	1.5
45816.2	10000	41.1997	92.5567	-220	QK	2.4	0	6.8	-1	1.3	1	0.353	0	1.856	-1	5.259	-2	1842	59	1.5
45816.3	10000	41.1997	92.5558	-218	QK	2.5	0	6.8	-1	1.3	1	0.362	0	1.964	-1	5.430	-1	1845	48	1.5
45816.4	10000	41.1998	92.5549	-215	QK	2.8	1	6.8	-1	1.3	1	0.414	1	2.264	0	5.465	-1	1856	46	1.5
45816.5	10000	41.1998	92.5541	-213	QK	2.7	0	7.4	0	1.2	1	0.365	0	2.256	0	6.179	0	1862	39	1.5
45816.6	10000	41.1998	92.5532	-211	QK	2.4	0	7.9	1	1.2	1	0.302	-1	1.934	-1	6.394	0	1872	41	1.5
45816.7	10000	41.1998	92.5523	-209	QK	2.1	-1	8.2	1	1.2	1	0.261	-1	1.787	-1	6.842	1	1879	44	1.5
45816.8	10000	41.1998	92.5515	-207	QK	2.1	-1	7.6	1	1.2	1	0.270	-1	1.685	-1	6.233	0	1878	45	1.5
45816.9	10000	41.1998	92.5506	-205	QK	1.8	-1	7.8	1	1.2	1	0.231	-2	1.460	-2	6.313	0	1878	44	1.5
45817.0	10000	41.1998	92.5497	-204	QK	1.8	-1	7.9	1	1.2	1	0.231	-2	1.465	-2	6.357	0	1879	49	1.5
45817.1	10000	41.1998	92.5489	-202	QK	1.5	-2	7.8	1	1.2	1	0.194	-2	1.238	-2	6.368	0	1891	53	1.5
45817.2	10000	41.1998	92.5480	-200	QK	1.8	-1	7.4	0	1.2	1	0.246	-1	1.506	-2	6.125	-1	1873	49	1.5
45817.3	10000	41.1998	92.5471	-199	QK	2.3	0	7.0	0	1.2	1	0.329	0	1.948	-1	5.915	-1	1874	50	1.5
45817.4	10000	41.1998	92.5463	-197	QK	2.5	0	6.8	-1	1.2	1	0.364	0	2.075	0	5.709	-1	1877	61	1.6
45817.5	10000	41.1998	92.5454	-196	QK	2.6	0	7.2	0	1.2	0	0.361	0	2.221	0	6.153	0	1866	49	1.6
45817.6	10000	41.1998	92.5445	-194	QK	2.8	1	7.0	0	1.1	0	0.395	1	2.413	0	6.107	-1	1859	45	1.6
45817.7	10000	41.1998	92.5437	-192	QK	2.8	1	6.9	0	1.1	0	0.401	1	2.464	0	6.142	0	1849	44	1.6
45817.8	10000	41.1998	92.5428	-191	QK	3.0	1	6.7	-1	1.2	0	0.448	1	2.595	1	5.790	-1	1831	49	1.6
45817.9	10000	41.1998	92.5419	-193	QK	2.8	1	6.5	-1	1.2	1	0.429	1	2.287	0	5.332	-2	1845	41	1.6
45818.0	10000	41.1998	92.5410	-194	QK	2.2	-1	6.3	-1	1.2	1	0.352	0	1.803	-1	5.118	-2	1844	41	1.6
45818.1	10000	41.1998	92.5401	-195	QK	2.2	-1	6.4	-1	1.3	1	0.339	0	1.704	-1	5.023	-2	1855	46	1.6
45818.2	10000	41.1998	92.5392	-195	QK	2.2	-1	6.5	-1	1.3	1	0.333	0	1.715	-1	5.156	-2	1854	39	1.6
45818.3	10000	41.1998	92.5384	-196	QK	2.0	-1	6.7	-1	1.3	1	0.297	-1	1.561	-1	5.250	-2	1851	46	1.6
45818.4	10000	41.1998	92.5375	-197	QK	2.1	-1	6.9	0	1.3	1	0.299	-1	1.594	-1	5.335	-2	1855	37	1.6
45818.5	10000	41.1998	92.5366	-198	QK	2.0	-1	7.4	0	1.3	1	0.268	-1	1.544	-2	5.751	-1	1863	49	1.6
45818.6	10000	41.1998	92.5357	-199	QK	2.1	-1	7.8	1	1.3	1	0.273	-1	1.696	-1	6.202	0	1866	36	1.7
45818.7	10000	41.1998	92.5348	-200	QK	2.2	-1	7.8	1	1.2	1	0.285	-1	1.859	-1	6.530	0	1851	49	1.7
45818.8	10000	41.1998	92.5339	-202	QK	2.1	-1	7.8	1	1.1	0	0.275	-1	1.887	-1	6.851	1	1827	49	1.7
45818.9	10000	41.1998	92.5331	-203	QK	2.3	0	8.1	1	1.1	0	0.288	-1	2.071	0	7.199	1	1833	41	1.7
45819.0	10000	41.1998	92.5322	-205	QK	2.3	0	8.2	1	1.1	0	0.279	-1	2.042	0	7.331	1	1824	44	1.7
45819.1	10000	41.1998	92.5313	-207	QK	2.2	-1	8.3	1	1.1	0	0.264	-1	2.015	-1	7.622	2	1834	42	1.7
45819.2	10000	41.1998	92.5304	-208	QK	2.0	-1	7.8	1	1.1	0	0.251	-1	1.788	-1	7.138	1	1821	32	1.7
45819.3	10000	41.1998	92.5295	-210	QK	1.8	-2	7.7	1	1.1	0	0.229	-2	1.643	-1	7.164	1	1814	47	1.7
45819.4	10000	41.1998	92.5286	-212	QK	1.9	-1	7.8	1	1.1	0	0.240	-2	1.714	-1	7.144	1	1804	36	1.7
45819.5	10000	41.1998	92.5277	-213	QK	1.8	-1	7.8	1	1.1	0	0.235	-2	1.630	-1	6.928	1	1802	50	1.7
45819.6	10000	41.1998	92.5268	-214	QK	1.7	-2	7.2	1	1.2	0	0.231	-2	1.439	-2	6.240	0	1803	48	1.7
45819.7	10000	41.1998	92.5260	-216	QK	1.8	-2	7.1	0	1.2	0	0.252	-1	1.543	-2	6.129	-1	1800	55	1.8
45819.8	10000	41.1998	92.5251	-220	QK	1.9	-1	6.6	-1	1.2	0	0.290	-1	1.612	-1	5.567	-1	1785	42	1.8
45819.9	10000	41.1998	92.5242	-225	QK	1.9	-1	7.0	0	1.2	1	0.279	-1	1.639	-1	5.880	-1	1796	40	1.8
45820.0	10000	41.1998	92.5233	-230	QK	1.9	-1	6.9	0	1.2	1	0.271	-1	1.506	-2	5.550	-1	1794	42	1.8
45820.1	10000	41.1998	92.5224	-235	QK	1.6	-2	7.3	0	1.2	1	0.224	-2	1.229	-2	5.491	-1	1821	34	1.8
45820.2	10000	41.1998	92.5215	-240	QK	1.6	-2	7.1	0	1.3	1	0.227	-2	1.198	-2	5.283	-2	1831	50	1.8
45820.3	10000	41.1998	92.5206	-246	QK	1.7	-2	7.6	0	1.4	1	0.221	-2	1.237	-2	5.589	-1	1835	43	1.8
45820.4	10000	41.1998	92.5197	-252	QK	1.7	-2	7.7	1	1.4	2	0.228	-2	1.266	-2	5.555	-1	1852	32	1.8

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45820.5	10000	41.1998	92.5189	-259	QK	1.4	-2	8.1	1	1.4	2	0.178	-2	1.054	-3	5.932	-1	1849	43	1.8
45820.6	10000	41.1998	92.5180	-265	QK	1.5	-2	7.9	1	1.3	2	0.189	-2	1.104	-3	5.850	-1	1856	47	1.8
45820.7	10000	41.1998	92.5171	-272	QK	1.7	-2	8.0	1	1.3	2	0.211	-2	1.285	-2	6.093	-1	1861	41	1.8
45820.8	10000	41.1998	92.5162	-279	QK	2.0	-1	7.8	1	1.2	1	0.262	-1	1.671	-1	6.369	0	1859	52	1.8
45820.9	10000	41.1998	92.5153	-286	QK	1.9	-1	8.2	1	1.2	1	0.234	-2	1.560	-1	6.670	0	1870	37	1.9
45821.0	10000	41.1998	92.5144	-293	QK	1.7	-2	7.9	1	1.2	1	0.212	-2	1.383	-2	6.538	0	1855	58	1.9
45821.1	10000	41.1998	92.5135	-300	QK	1.7	-2	7.7	1	1.2	1	0.219	-2	1.371	-2	6.261	0	1871	52	1.9
45821.2	10000	41.1998	92.5127	-308	QK	1.9	-1	7.7	1	1.3	1	0.240	-2	1.441	-2	6.007	-1	1879	57	1.9
45821.3	10000	41.1998	92.5118	-315	QK	1.9	-1	7.9	1	1.3	2	0.235	-2	1.428	-2	6.073	-1	1881	47	1.9
45821.4	10000	41.1998	92.5109	-323	QK	1.8	-1	8.1	1	1.3	2	0.225	-2	1.388	-2	6.160	0	1883	52	1.9
45821.5	10000	41.1998	92.5100	-332	QK	1.7	-2	8.1	1	1.3	2	0.210	-2	1.301	-2	6.187	0	1865	48	1.9
45821.6	10000	41.1998	92.5091	-340	QK	1.9	-1	7.8	1	1.3	1	0.243	-2	1.486	-2	6.124	-1	1841	56	1.9
45821.7	10000	41.1998	92.5082	-349	QK	2.0	-1	7.9	1	1.2	1	0.258	-1	1.668	-1	6.462	0	1844	50	1.9
45821.8	10000	41.1998	92.5073	-358	QK	2.1	-1	8.1	1	1.2	1	0.259	-1	1.752	-1	6.769	0	1828	40	1.9
45821.9	10000	41.1998	92.5065	-366	QK	2.1	-1	7.7	1	1.2	0	0.276	-1	1.845	-1	6.694	0	1822	42	1.9
45822.0	10000	41.1998	92.5056	-375	QK	2.0	-1	7.4	0	1.2	1	0.277	-1	1.671	-1	6.042	-1	1814	54	1.9
45822.1	10000	41.1998	92.5047	-384	QK	2.0	-1	7.2	0	1.2	1	0.284	-1	1.648	-1	5.806	-1	1808	35	1.9
45822.2	10000	41.1998	92.5038	-393	QK	1.8	-1	7.0	0	1.3	2	0.260	-1	1.402	-2	5.389	-2	1817	33	1.9
45822.3	10000	41.1998	92.5029	-403	QK	2.0	-1	7.4	0	1.3	2	0.266	-1	1.493	-2	5.621	-1	1835	54	2.0
45822.4	10000	41.1998	92.5020	-412	QK	1.9	-1	7.3	0	1.4	2	0.259	-1	1.370	-2	5.297	-2	1829	39	2.0
45822.5	10000	41.1998	92.5011	-423	QK	1.9	-1	7.0	0	1.3	2	0.271	-1	1.447	-2	5.335	-2	1817	42	2.0
45822.6	10000	41.1998	92.5002	-433	QK	2.0	-1	7.4	1	1.3	1	0.266	-1	1.527	-2	5.747	-1	1814	43	2.0
45822.7	10000	41.1998	92.4994	-445	QK	2.0	-1	7.6	1	1.2	1	0.263	-1	1.671	-1	6.352	0	1811	45	2.0
45822.8	10000	41.1998	92.4985	-456	QK	2.0	-1	7.7	1	1.2	1	0.256	-1	1.664	-1	6.508	0	1817	40	2.0
45822.9	10000	41.1998	92.4976	-467	QK	2.2	-1	7.7	1	1.2	0	0.278	-1	1.866	-1	6.712	0	1821	45	2.0
45823.0	10000	41.1998	92.4967	-478	QK	2.0	-1	7.6	0	1.2	0	0.263	-1	1.721	-1	6.551	0	1820	52	2.0
45823.1	10000	41.1998	92.4958	-489	QK	1.9	-1	7.6	0	1.1	0	0.255	-1	1.694	-1	6.632	0	1829	38	2.0
45830.2	10000	41.1995	92.4948	-504	QK	2.1	-1	7.6	1	1.2	1	0.275	-1	1.715	-1	6.229	0	1785	51	1.3
45830.3	10000	41.1995	92.4940	-518	QK	2.0	-1	8.0	1	1.3	1	0.256	-1	1.637	-1	6.389	0	1787	37	1.3
45830.4	10000	41.1995	92.4932	-531	QK	1.9	-1	8.0	1	1.3	1	0.240	-2	1.504	-2	6.268	0	1783	47	1.3
45830.5	10000	41.1995	92.4924	-545	QK	1.9	-1	7.9	1	1.3	1	0.239	-2	1.467	-2	6.131	-1	1773	40	1.3
45830.6	10000	41.1995	92.4915	-559	QK	2.0	-1	8.0	1	1.3	1	0.248	-1	1.552	-2	6.249	0	1779	39	1.3
45830.7	10000	41.1995	92.4907	-572	QK	2.0	-1	7.8	1	1.2	1	0.261	-1	1.652	-1	6.322	0	1781	35	1.3
45830.8	10000	41.1995	92.4899	-585	QK	2.3	-1	7.7	1	1.3	1	0.296	-1	1.814	-1	6.139	0	1792	46	1.3
45830.9	10000	41.1995	92.4891	-600	QK	2.2	-1	7.9	1	1.3	1	0.282	-1	1.736	-1	6.152	0	1795	37	1.3
45831.0	10000	41.1995	92.4882	-612	QK	2.2	-1	7.2	1	1.2	1	0.309	-1	1.800	-1	5.833	-1	1788	49	1.3
45831.1	10000	41.1995	92.4874	-625	QK	2.5	-1	7.2	1	1.2	1	0.344	-1	2.100	-1	6.100	-1	1796	51	1.3
45831.2	10000	41.1995	92.4866	-639	QK	2.7	-1	7.4	0	1.1	0	0.365	-1	2.386	-1	6.543	0	1805	45	1.3
45831.3	10000	41.1995	92.4857	-652	QK	2.6	-1	7.0	0	1.1	0	0.379	-1	2.337	-1	6.171	0	1804	46	1.3
45831.4	10000	41.1995	92.4849	-664	QK	2.7	-1	7.2	0	1.1	0	0.380	-1	2.489	-1	6.552	0	1803	53	1.3
45831.5	10000	41.1995	92.4841	-678	QK	2.5	-1	7.4	0	1.2	0	0.336	-1	2.139	-1	6.369	0	1795	41	1.3
45831.6	10000	41.1995	92.4833	-690	QK	2.6	-1	7.5	0	1.1	0	0.350	-1	2.369	-1	6.774	0	1789	45	1.3
45831.7	10000	41.1995	92.4824	-703	QK	2.9	-1	8.0	1	1.1	0	0.362	-1	2.639	-1	7.293	1	1805	34	1.3
45831.8	10000	41.1995	92.4816	-715	QK	2.8	-1	7.9	1	1.1	0	0.359	-1	2.541	-1	7.083	1	1810	39	1.3
45831.9	10000	41.1995	92.4808	-728	QK	2.7	-1	8.1	1	1.2	0	0.339	-1	2.334	-1	6.890	1	1825	46	1.3
45832.0	10000	41.1995	92.4799	-740	QK	2.8	-1	8.6	1	1.2	0	0.329	-1	2.441	-1	7.416	1	1835	44	1.3
45832.1	10000	41.1995	92.4791	-754	QK	2.6	-1	9.0	1	1.2	0	0.283	-1	2.108	-1	7.447	1	1846	55	1.3
45832.2	10000	41.1995	92.4783	-767	QK	2.7	-1	9.1	1	1.2	0	0.297	-1	2.324	-1	7.812	2	1855	42	1.3
45832.3	10000	41.1995	92.4775	-779	QK	2.6	-1	9.0	1	1.2	0	0.294	-1	2.324	-1	7.896	2	1859	45	1.3
45832.4	10000	41.1995	92.4766	-791	QK	2.4	-1	8.7	1	1.1	0	0.283	-1	2.148	-1	7.596	2	1854	35	1.3
45832.5	10000	41.1995	92.4758	-803	QK	2.7	-1	8.7	1	1.1	0	0.309	-1	2.341	-1	7.579	2	1857	48	1.3
45832.6	10000	41.1995	92.4750	-814	QK	2.8	-1	8.3	2	1.1	0	0.337	0	2.467	0	7.320	1	1855	54	1.2

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45832.7	10000	41.1995	92.4742	-826	QK	2.7	0	8.0	1	1.1	0	0.342	0	2.419	0	7.079	1	1843	44	1.2
45832.8	10000	41.1995	92.4733	-838	QK	3.1	1	7.3	0	1.1	0	0.431	1	2.819	1	6.533	0	1820	42	1.2
45832.9	10000	41.1995	92.4725	-849	QK	3.0	1	7.2	0	1.1	0	0.416	1	2.633	1	6.333	0	1803	41	1.2
45833.0	10000	41.1995	92.4717	-859	QK	2.9	1	7.0	0	1.2	0	0.420	1	2.527	1	6.018	-1	1791	42	1.2
45833.1	10000	41.1995	92.4708	-867	QK	3.0	1	7.0	0	1.2	0	0.433	1	2.624	1	6.063	-1	1790	44	1.2
45833.2	10000	41.1995	92.4700	-880	QK	2.9	1	7.0	0	1.2	0	0.407	1	2.445	0	6.005	-1	1781	39	1.2
45833.3	10000	41.1995	92.4692	-891	QK	2.6	0	7.4	0	1.1	0	0.352	0	2.274	0	6.465	0	1780	46	1.2
45833.4	10000	41.1995	92.4684	-901	QK	2.6	0	7.1	0	1.2	1	0.368	0	2.173	0	5.899	-1	1795	50	1.3
45833.5	10000	41.1995	92.4675	-910	QK	2.4	0	7.3	0	1.2	1	0.331	0	2.019	-1	6.103	-1	1808	41	1.3
45833.6	10000	41.1995	92.4667	-919	QK	2.5	0	7.0	0	1.2	1	0.359	0	2.054	0	5.716	-1	1819	42	1.3
45833.7	10000	41.1995	92.4659	-928	QK	2.5	0	7.3	0	1.2	1	0.348	0	2.067	0	5.934	-1	1822	44	1.3
45833.8	10000	41.1995	92.4650	-936	QK	2.4	0	7.1	0	1.3	1	0.343	0	1.939	-1	5.646	-1	1823	53	1.3
45833.9	10000	41.1995	92.4642	-944	QK	2.4	0	7.2	0	1.2	1	0.334	0	1.991	-1	5.964	-1	1824	48	1.3
45834.0	10000	41.1995	92.4634	-950	QK	2.4	0	6.7	-1	1.2	1	0.360	0	1.986	-1	5.511	-1	1815	46	1.2
45834.1	10000	41.1995	92.4626	-958	QK	2.6	0	7.0	0	1.2	1	0.367	0	2.142	0	5.831	-1	1812	53	1.2
45834.2	10000	41.1995	92.4617	-965	QK	2.5	0	7.0	0	1.2	1	0.355	0	2.019	-1	5.681	-1	1808	45	1.3
45834.3	10000	41.1995	92.4609	-971	QK	2.3	0	7.3	0	1.2	1	0.315	0	1.946	-1	6.177	0	1793	43	1.3
45834.4	10000	41.1995	92.4601	-976	QK	2.2	-1	7.0	0	1.2	1	0.316	0	1.812	-1	5.726	-1	1785	38	1.3
45834.5	10000	41.1995	92.4592	-982	QK	2.3	0	6.8	-1	1.2	1	0.339	0	1.954	-1	5.766	-1	1769	58	1.3
45834.6	10000	41.1995	92.4584	-987	QK	2.4	0	6.8	-1	1.2	1	0.355	0	1.971	-1	5.550	-1	1758	35	1.3
45834.7	10000	41.1995	92.4576	-992	QK	2.6	0	7.1	0	1.2	1	0.368	0	2.143	0	5.818	-1	1749	43	1.3
45834.8	10000	41.1995	92.4568	-997	QK	2.6	0	7.0	0	1.2	0	0.377	0	2.255	0	5.988	-1	1738	45	1.3
45834.9	10000	41.1995	92.4559	-1001	QK	2.6	0	6.9	0	1.1	0	0.374	0	2.371	0	6.340	0	1736	38	1.3
45835.0	10000	41.1995	92.4551	-1004	QK	3.0	1	6.8	-1	1.1	0	0.442	1	2.630	1	5.948	-1	1751	44	1.3
45835.1	10000	41.1995	92.4543	-1008	QK	3.1	1	6.9	0	1.1	1	0.447	1	2.671	1	5.979	-1	1752	62	1.3
45835.2	10000	41.1995	92.4534	-1011	QK	3.0	1	7.1	0	1.2	1	0.441	1	2.633	1	5.976	-1	1783	39	1.3
45835.3	10000	41.1995	92.4526	-1014	QK	2.9	1	6.6	-1	1.2	1	0.465	1	2.569	1	5.529	-1	1800	37	1.3
45835.4	10000	41.1995	92.4518	-1016	QK	2.8	1	6.4	-1	1.2	1	0.467	1	2.466	1	5.285	-2	1808	46	1.3
45835.5	10000	41.1995	92.4510	-1018	QK	2.8	1	6.5	-1	1.2	1	0.468	1	2.454	1	5.240	-2	1816	57	1.3
45835.6	10000	41.1995	92.4501	-1020	QK	2.8	1	6.5	-1	1.3	1	0.486	1	2.396	1	4.927	-2	1828	44	1.3
45835.7	10000	41.1995	92.4493	-1021	QK	2.8	1	6.5	-1	1.3	1	0.436	1	2.153	1	4.943	-2	1824	44	1.3
45835.8	10000	41.1995	92.4485	-1023	QK	2.9	1	6.5	-1	1.3	1	0.403	1	2.102	1	5.214	-2	1839	41	1.3
45835.9	10000	41.1995	92.4476	-1024	QK	2.9	1	7.2	0	1.3	1	0.357	0	2.035	1	5.707	-1	1826	49	1.3
45836.0	10000	41.1995	92.4468	-1024	QK	2.8	1	7.4	0	1.3	1	0.340	0	1.930	0	5.679	-1	1815	42	1.3
45836.1	10000	41.1995	92.4460	-1023	QK	2.8	1	7.1	0	1.3	1	0.340	0	1.870	-1	5.500	-1	1814	35	1.3
45836.2	10000	41.1995	92.4452	-1022	QK	2.8	1	7.2	0	1.3	1	0.345	0	1.897	-1	5.495	-1	1802	45	1.3
45836.3	10000	41.1995	92.4443	-1021	QK	2.8	1	7.0	0	1.3	1	0.378	0	2.043	0	5.408	-2	1783	47	1.3
45836.4	10000	41.1995	92.4435	-1020	QK	2.8	1	6.8	-1	1.3	1	0.385	0	2.111	0	5.479	-1	1781	38	1.3
45836.5	10000	41.1995	92.4427	-1018	QK	2.8	1	6.6	-1	1.3	1	0.422	1	2.339	1	5.542	-1	1768	56	1.3
45836.6	10000	41.1995	92.4418	-1016	QK	2.8	1	6.5	-1	1.2	1	0.435	1	2.290	1	5.264	-2	1768	39	1.3
45836.7	10000	41.1995	92.4410	-1013	QK	2.8	1	6.8	-1	1.2	1	0.444	1	2.612	1	5.884	-1	1780	34	1.3
45836.8	10000	41.1995	92.4402	-1011	QK	2.8	1	7.0	0	1.2	1	0.410	0	2.617	1	6.377	0	1775	45	1.3
45836.9	10000	41.1995	92.4394	-1009	QK	2.7	0	7.4	0	1.2	1	0.370	0	2.359	1	6.378	0	1779	54	1.3
45837.0	10000	41.1995	92.4385	-1006	QK	2.7	0	7.3	0	1.1	1	0.359	0	2.359	1	6.578	0	1778	48	1.3
45837.1	10000	41.1995	92.4377	-1002	QK	2.7	0	7.1	0	1.1	1	0.375	0	2.441	1	6.511	0	1770	37	1.3
45837.2	10000	41.1995	92.4369	-999	QK	2.6	0	6.7	-1	1.1	1	0.359	0	2.248	1	6.263	0	1762	50	1.3
45837.3	10000	41.1995	92.4361	-995	QK	2.6	0	6.8	-1	1.1	1	0.387	0	2.336	1	6.039	-1	1744	37	1.3
45837.4	10000	41.1995	92.4352	-992	QK	2.5	0	6.7	-1	1.2	1	0.364	0	2.113	1	5.802	-1	1745	47	1.3
45837.5	10000	41.1995	92.4344	-988	QK	2.4	0	6.9	-1	1.2	1	0.389	0	2.231	1	5.733	-1	1745	47	1.3
45837.6	10000	41.1995	92.4336	-985	QK	2.3	0	6.7	-1	1.2	1	0.340	0	1.996	1	5.863	-1	1747	55	1.3
45837.7	10000	41.1995	92.4327	-982	QK	2.2	0	6.8	-1	1.2	1	0.331	0	2.091	1	6.317	0	1777	39	1.3
45837.8	10000	41.1995	92.4319	-979	QK	2.2	0	7.4	0	1.2	1	0.300	-1	1.930	-1	6.440	0	1785	43	1.3

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45837.9	10000	41.1995	92.4311	-976	QK	2.3	0	7.8	1	1.2	0	0.295	-1	1.987	-1	6.737	0	1803	46	1.3
45838.0	10000	41.1995	92.4303	-973	QK	2.2	-1	8.1	1	1.2	1	0.267	-1	1.824	-1	6.835	0	1817	41	1.3
45838.1	10000	41.1995	92.4294	-972	QK	2.5	0	8.0	1	1.2	0	0.308	-1	2.109	0	6.839	1	1816	42	1.3
45838.2	10000	41.1995	92.4286	-971	QK	2.4	0	8.2	1	1.2	0	0.293	-1	2.034	0	6.949	1	1822	37	1.3
45838.3	10000	41.1995	92.4278	-969	QK	2.7	0	7.9	1	1.2	0	0.341	0	2.317	0	6.793	0	1824	36	1.3
45838.4	10000	41.1995	92.4270	-968	QK	2.3	0	7.6	1	1.2	1	0.308	-1	1.907	-1	6.195	0	1816	50	1.3
45838.5	10000	41.1995	92.4261	-964	QK	2.6	0	7.5	0	1.3	1	0.351	0	2.068	0	5.885	-1	1830	49	1.3
45838.6	10000	41.1995	92.4253	-966	QK	2.6	0	7.3	0	1.2	1	0.358	0	2.099	0	5.870	-1	1828	50	1.3
45838.7	10000	41.1995	92.4245	-966	QK	2.9	1	7.4	0	1.2	1	0.388	1	2.312	0	5.951	-1	1831	44	1.3
45838.8	10000	41.1995	92.4236	-966	QK	2.5	0	7.3	0	1.2	1	0.335	0	2.038	0	6.094	-1	1835	50	1.3
45838.9	10000	41.1995	92.4228	-966	QK	2.7	0	7.6	1	1.3	1	0.352	0	2.130	0	6.046	-1	1863	41	1.3
45839.0	10000	41.1995	92.4220	-966	QK	2.6	0	7.7	1	1.2	1	0.337	0	2.078	0	6.163	0	1862	53	1.3
45839.1	10000	41.1995	92.4212	-966	QK	2.8	1	8.0	1	1.2	1	0.352	0	2.273	0	6.459	0	1862	45	1.3
45839.2	10000	41.1995	92.4203	-966	QK	2.4	0	8.0	1	1.2	1	0.306	-1	2.055	0	6.722	0	1844	63	1.3
45839.3	10000	41.1995	92.4195	-966	QK	2.5	0	7.9	1	1.2	1	0.318	0	2.114	0	6.646	0	1843	42	1.3
45839.4	10000	41.1995	92.4187	-966	QK	2.4	0	8.0	1	1.1	0	0.299	-1	2.084	0	6.966	1	1836	44	1.3
45839.5	10000	41.1995	92.4178	-966	QK	2.5	0	7.8	1	1.2	0	0.322	0	2.150	0	6.672	0	1826	48	1.3
45839.6	10000	41.1995	92.4170	-967	QK	2.4	0	7.6	1	1.1	0	0.314	-1	2.102	0	6.701	0	1780	38	1.4
45839.7	10000	41.1995	92.4162	-967	QK	2.4	0	7.9	1	1.2	0	0.308	-1	2.074	0	6.741	0	1776	35	1.4
45839.8	10000	41.1995	92.4154	-967	QK	2.1	-1	7.7	1	1.2	0	0.274	-1	1.827	-1	6.660	0	1765	43	1.4
45839.9	10000	41.1995	92.4145	-967	QK	2.2	-1	7.8	1	1.2	0	0.276	-1	1.848	-1	6.686	0	1769	33	1.4
45840.0	10000	41.1995	92.4137	-967	QK	2.1	-1	7.8	1	1.2	1	0.275	-1	1.801	-1	6.559	0	1775	54	1.4
45840.1	10000	41.1995	92.4129	-967	QK	2.2	-1	7.5	0	1.2	1	0.294	-1	1.803	-1	6.129	-1	1775	48	1.4
45840.2	10000	41.1995	92.4120	-967	QK	2.1	-1	7.6	0	1.2	1	0.276	-1	1.700	-1	6.160	0	1766	42	1.4
45840.3	10000	41.1995	92.4111	-968	QK	2.0	-1	7.7	1	1.2	1	0.255	-1	1.617	-1	6.351	0	1783	38	1.4
45840.4	10000	41.1995	92.4102	-968	QK	1.7	-2	7.4	1	1.3	1	0.235	-2	1.383	-2	5.895	-1	1778	37	1.4
45840.5	10000	41.1995	92.4092	-969	QK	1.9	-1	7.2	1	1.3	1	0.259	-1	1.483	-2	5.717	-1	1762	45	1.4
45840.6	10000	41.1995	92.4083	-970	QK	2.0	-1	7.1	1	1.3	1	0.278	-1	1.571	-1	5.647	-1	1756	44	1.4
45840.7	10000	41.1995	92.4074	-970	QK	1.8	-1	7.3	1	1.3	1	0.248	-1	1.428	-2	5.767	-1	1734	42	1.4
45840.8	10000	41.1995	92.4064	-970	QK	1.7	-2	7.8	1	1.3	1	0.216	-2	1.325	-2	6.129	-1	1724	38	1.4
45840.9	10000	41.1995	92.4055	-971	QK	1.6	-2	8.0	1	1.2	1	0.200	-2	1.309	-2	6.559	0	1731	53	1.4
45841.0	10000	41.1995	92.4046	-972	QK	1.7	-2	7.8	1	1.2	1	0.223	-2	1.417	-2	6.351	0	1726	41	1.4
45841.1	10000	41.1996	92.4036	-972	QK	2.0	-1	7.9	1	1.2	1	0.255	-1	1.679	-1	6.585	0	1737	42	1.4
45841.2	10000	41.1996	92.4027	-973	QK	2.1	-1	8.1	1	1.2	1	0.258	-1	1.811	-1	7.013	1	1755	39	1.4
45841.3	10000	41.1996	92.4018	-973	QK	1.9	-1	8.2	1	1.2	1	0.225	-2	1.649	-1	7.009	1	1754	44	1.4
45841.4	10000	41.1996	92.4008	-974	QK	2.1	-1	7.9	1	1.2	1	0.267	-1	1.790	-1	6.699	0	1777	46	1.4
45841.5	10000	41.1996	92.3999	-974	QK	2.3	-1	7.5	1	1.2	1	0.301	-1	1.887	-1	6.274	0	1781	39	1.4
45841.6	10000	41.1996	92.3990	-975	QK	2.5	-1	7.6	1	1.2	1	0.306	-1	1.908	-1	6.241	0	1773	41	1.4
45841.7	10000	41.1996	92.3980	-976	QK	2.5	-1	7.5	1	1.2	1	0.335	0	2.058	0	6.143	0	1772	43	1.4
45841.8	10000	41.1996	92.3971	-976	QK	2.5	0	7.9	1	1.2	1	0.320	0	2.120	0	6.635	0	1761	45	1.4
45841.9	10000	41.1996	92.3961	-977	QK	2.7	0	7.7	1	1.2	1	0.349	0	2.251	0	6.457	0	1751	44	1.4
45842.0	10000	41.1996	92.3952	-978	QK	2.7	0	7.5	1	1.1	1	0.393	1	2.623	1	6.681	0	1757	41	1.4
45842.1	10000	41.1996	92.3943	-980	QK	2.9	0	7.8	1	1.1	1	0.399	1	2.684	1	7.229	1	1745	40	1.4
45842.2	10000	41.1996	92.3934	-981	QK	2.9	-1	8.0	1	1.1	1	0.363	1	2.735	1	7.531	1	1749	40	1.4
45842.3	10000	41.1996	92.3924	-983	QK	3.0	-1	7.5	1	1.1	1	0.414	1	2.952	1	7.136	1	1759	42	1.4
45842.4	10000	41.1996	92.3915	-984	QK	3.0	-1	7.4	1	1.1	0	0.412	1	2.937	1	7.124	1	1764	42	1.4
45842.5	10000	41.1997	92.3905	-986	QK	3.0	-1	7.3	1	1.1	1	0.426	1	3.022	2	7.090	1	1767	43	1.4
45842.6	10000	41.1997	92.3896	-988	QK	2.9	-1	7.4	1	1.1	1	0.391	1	2.731	1	6.990	1	1783	45	1.4
45842.7	10000	41.1997	92.3887	-990	QK	3.0	-1	7.3	1	1.1	1	0.366	1	2.413	0	6.593	1	1787	40	1.4
45842.8	10000	41.1997	92.3877	-992	QK	2.9	-1	7.2	1	1.2	1	0.319	1	1.953	-1	6.131	-1	1795	43	1.4
45842.9	10000	41.1997	92.3868	-994	QK	2.7	-1	7.2	1	1.2	1	0.325	1	1.982	-1	6.099	-1	1808	39	1.4
45843.0	10000	41.1997	92.3859	-996	QK	2.2	-1	7.3	0	1.2	1	0.302	-1	1.838	-1	6.094	-1	1820	40	1.4

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45843.1	10000	41.1997	92.3849	-998	QK	2.2	-1	7.6	1	1.2	1	0.290	-1	1.847	-1	6.359	0	1826	41	1.4
45843.2	10000	41.1997	92.3840	-1001	QK	2.0	-1	7.2	0	1.2	1	0.275	-1	1.640	-1	5.974	-1	1825	40	1.4
45843.3	10000	41.1997	92.3831	-1004	QK	2.0	-1	7.3	0	1.2	1	0.275	-1	1.673	-1	6.093	-1	1816	42	1.4
45843.4	10000	41.1997	92.3821	-1006	QK	2.2	-1	7.6	1	1.1	0	0.285	-1	1.902	-1	6.676	0	1805	51	1.4
45843.5	10000	41.1997	92.3812	-1008	QK	2.5	0	7.7	1	1.1	0	0.328	0	2.208	0	6.736	0	1810	53	1.4
45843.6	10000	41.1997	92.3803	-1012	QK	2.9	1	7.5	0	1.1	0	0.381	1	2.612	1	6.857	1	1809	47	1.4
45843.7	10000	41.1997	92.3793	-1014	QK	3.0	1	7.8	1	1.1	0	0.384	0	2.805	1	7.305	1	1802	43	1.4
45843.8	10000	41.1997	92.3784	-1016	QK	2.8	1	7.5	0	1.1	0	0.370	0	2.498	0	6.756	0	1793	40	1.4
45843.9	10000	41.1997	92.3775	-1019	QK	2.9	1	7.6	1	1.1	0	0.380	0	2.570	1	6.772	0	1806	41	1.4
45844.0	10000	41.1997	92.3765	-1022	QK	3.1	1	7.3	0	1.1	0	0.425	1	2.702	1	6.361	0	1800	54	1.4
45844.1	10000	41.1998	92.3756	-1024	QK	3.0	1	7.4	1	1.2	1	0.404	1	2.490	0	6.159	0	1811	48	1.4
45844.2	10000	41.1998	92.3747	-1027	QK	3.0	1	7.3	1	1.2	1	0.409	1	2.423	0	5.925	-1	1806	45	1.4
45844.3	10000	41.1998	92.3737	-1029	QK	2.7	0	7.2	1	1.2	1	0.383	0	2.216	0	5.785	-1	1785	40	1.4
45844.4	10000	41.1998	92.3728	-1031	QK	2.7	0	7.0	1	1.2	1	0.386	0	2.184	0	5.665	-1	1772	41	1.4
45844.5	10000	41.1998	92.3719	-1034	QK	2.7	0	7.2	1	1.2	1	0.382	0	2.284	0	5.972	-1	1772	43	1.4
45844.6	10000	41.1998	92.3709	-1036	QK	3.0	1	7.3	1	1.2	1	0.410	1	2.521	1	6.147	0	1775	41	1.4
45844.7	10000	41.1998	92.3700	-1038	QK	3.1	1	7.2	0	1.1	0	0.426	1	2.688	1	6.307	0	1786	50	1.4
45844.8	10000	41.1998	92.3690	-1041	QK	3.5	2	7.1	0	1.1	0	0.493	2	3.122	2	6.338	0	1777	50	1.4
45844.9	10000	41.1998	92.3681	-1043	QK	3.3	2	7.1	0	1.1	0	0.457	1	3.065	2	6.712	0	1774	40	1.4
45845.0	10000	41.1998	92.3672	-1046	QK	3.3	2	7.3	0	1.1	0	0.448	1	3.072	2	6.851	1	1785	42	1.4
45845.1	10000	41.1998	92.3662	-1048	QK	3.5	2	7.2	0	1.1	0	0.487	2	3.115	2	6.395	0	1787	50	1.4
45845.2	10000	41.1998	92.3653	-1050	QK	3.6	2	7.1	0	1.1	0	0.500	2	3.197	2	6.389	0	1791	34	1.4
45845.3	10000	41.1998	92.3644	-1052	QK	3.2	1	7.0	0	1.1	0	0.459	2	2.873	1	6.254	0	1773	46	1.4
45845.4	10000	41.1998	92.3634	-1054	QK	2.9	1	7.0	0	1.1	0	0.416	1	2.663	1	6.403	0	1742	48	1.4
45845.5	10000	41.1998	92.3625	-1056	QK	2.7	0	6.8	-1	1.1	0	0.405	1	2.553	1	6.307	0	1733	50	1.4
45845.6	10000	41.1999	92.3616	-1057	QK	2.8	1	6.6	-1	1.0	-1	0.427	1	2.803	1	6.567	0	1716	43	1.4
45845.7	10000	41.1999	92.3606	-1059	QK	2.9	1	6.6	-1	1.0	-1	0.447	1	2.802	1	6.272	0	1718	53	1.4
45845.8	10000	41.1999	92.3597	-1061	QK	2.6	1	6.8	-1	1.0	-1	0.389	1	2.624	1	6.750	0	1709	40	1.4
45845.9	10000	41.1999	92.3588	-1062	QK	2.5	1	6.6	-1	1.0	-1	0.373	1	2.573	1	6.901	1	1685	54	1.4
45846.0	10000	41.1999	92.3578	-1063	QK	2.7	1	6.6	-1	1.0	-1	0.410	1	2.747	1	6.703	0	1681	51	1.4
45846.1	10000	41.1999	92.3569	-1064	QK	2.4	1	6.5	0	1.0	-1	0.391	1	2.671	1	6.836	1	1682	38	1.4
45846.2	10000	41.1999	92.3560	-1064	QK	2.4	1	6.6	-1	1.0	-1	0.359	1	2.353	1	6.556	0	1665	35	1.4
45846.3	10000	41.1999	92.3550	-1064	QK	2.4	1	6.7	-1	1.1	-1	0.352	1	2.179	1	6.183	0	1663	44	1.4
45846.4	10000	41.1999	92.3541	-1066	QK	2.3	1	6.5	-1	1.1	-1	0.351	1	2.162	1	6.167	0	1643	47	1.4
45846.5	10000	41.1999	92.3532	-1067	QK	2.1	1	6.4	-1	1.1	-1	0.336	1	1.955	1	5.823	-1	1630	38	1.4
45846.6	10000	41.1999	92.3522	-1067	QK	2.1	1	6.4	-2	1.1	-1	0.341	1	1.885	1	5.524	-1	1642	40	1.4
45846.7	10000	41.1999	92.3513	-1066	QK	2.2	1	6.4	-1	1.1	-1	0.346	1	1.989	1	5.750	-1	1656	36	1.4
45846.8	10000	41.1999	92.3504	-1066	QK	2.4	1	6.4	-1	1.1	-1	0.390	1	2.171	1	5.560	-1	1663	37	1.4
45846.9	10000	41.1999	92.3494	-1066	QK	2.6	1	6.4	-1	1.1	-1	0.408	1	2.318	1	5.675	-1	1683	53	1.3
45847.0	10000	41.1999	92.3485	-1065	QK	2.6	1	6.4	0	1.1	0	0.373	1	2.351	1	6.295	0	1702	42	1.3
45847.1	10000	41.1999	92.3475	-1064	QK	2.6	1	6.4	0	1.1	0	0.352	1	2.303	1	6.551	0	1734	46	1.3
45847.2	10000	41.2000	92.3466	-1063	QK	2.9	1	6.5	0	1.1	0	0.394	1	2.626	2	6.666	1	1757	47	1.3
45847.3	10000	41.2000	92.3457	-1062	QK	3.1	2	6.5	0	1.1	0	0.419	2	2.946	2	7.029	1	1751	37	1.3
45847.4	10000	41.2000	92.3447	-1061	QK	3.0	2	6.5	0	1.1	0	0.420	2	2.952	2	7.022	1	1727	42	1.3
45847.5	10000	41.2000	92.3438	-1060	QK	2.8	1	6.5	0	1.1	0	0.387	2	2.872	2	7.425	1	1714	45	1.3
45847.6	10000	41.2000	92.3429	-1058	QK	2.7	1	6.5	0	1.1	0	0.378	2	2.879	2	7.618	2	1688	40	1.3
45847.7	10000	41.2000	92.3419	-1057	QK	2.6	1	6.5	0	1.1	0	0.424	2	3.014	2	7.119	1	1665	43	1.3
45847.8	10000	41.2000	92.3410	-1056	QK	2.6	1	6.5	0	1.1	0	0.399	2	2.948	2	7.397	1	1620	53	1.3
45847.9	10000	41.2000	92.3401	-1055	QK	2.6	1	6.5	0	1.1	0	0.414	2	3.088	2	7.440	1	1595	32	1.3
45848.0	10000	41.2000	92.3391	-1053	QK	2.7	1	6.5	0	1.1	0	0.392	2	2.853	2	7.284	1	1588	49	1.3
45848.1	10000	41.2000	92.3382	-1051	QK	2.6	1	6.5	0	1.1	0	0.381	2	2.832	2	7.438	1	1590	50	1.3
45848.2	10000	41.2000	92.3373	-1046	QK	2.8	1	6.6	0	1.1	0	0.420	2	2.953	2	7.038	1	1607	46	1.3

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45848.3	10000	41.2000	92.3363	-1045	QK	2.8	1	6.9	0	1.0	-1	0.406	1	2.866	1	7.064	1	1637	48	1.3
45848.4	10000	41.2000	92.3354	-1042	QK	2.9	1	7.1	0	1.0	-1	0.412	1	2.891	1	7.016	1	1677	36	1.3
45848.5	10000	41.2000	92.3345	-1040	QK	3.0	1	7.0	0	1.0	-1	0.433	1	2.989	2	6.902	1	1702	41	1.3
45848.6	10000	41.2000	92.3335	-1037	QK	2.9	1	7.4	0	1.1	0	0.387	0	2.533	1	6.547	0	1751	33	1.3
45848.7	10000	41.2001	92.3326	-1034	QK	3.0	1	7.6	1	1.1	0	0.395	1	2.628	1	6.649	0	1781	45	1.3
45848.8	10000	41.2000	92.3317	-1031	QK	2.9	1	7.6	0	1.2	1	0.378	0	2.332	0	6.166	0	1796	37	1.3
45848.9	10000	41.2001	92.3307	-1029	QK	2.7	0	7.6	1	1.2	1	0.356	0	2.206	0	6.202	0	1804	50	1.3
45849.0	10000	41.2001	92.3298	-1025	QK	2.7	0	7.2	0	1.3	1	0.376	0	2.260	0	6.017	-1	1812	53	1.3
45849.1	10000	41.2001	92.3289	-1022	QK	2.4	0	7.0	0	1.2	1	0.337	0	1.950	-1	5.786	-1	1790	58	1.3
45849.2	10000	41.2001	92.3279	-1019	QK	2.5	0	6.9	0	1.3	2	0.358	0	1.867	-1	5.213	-2	1826	46	1.3
45849.3	10000	41.2001	92.3270	-1016	QK	2.5	0	7.0	0	1.3	1	0.361	0	1.959	-1	5.433	-1	1810	45	1.3
45849.4	10000	41.2001	92.3260	-1013	QK	2.5	0	6.8	-1	1.3	1	0.363	0	1.907	-1	5.260	-2	1814	43	1.3
45849.5	10000	41.2001	92.3251	-1010	QK	2.7	0	7.1	0	1.3	1	0.377	0	2.080	0	5.519	-1	1826	44	1.3
45849.6	10000	41.2001	92.3242	-1007	QK	2.4	0	6.9	0	1.3	1	0.351	0	1.909	-1	5.435	-1	1802	23	1.3
45849.7	10000	41.2001	92.3233	-1003	QK	2.4	0	6.9	0	1.3	2	0.353	0	1.813	-1	5.142	-2	1777	38	1.3
45849.8	10000	41.2001	92.3223	-1001	QK	2.4	0	7.1	0	1.3	1	0.338	0	1.881	-1	5.558	-1	1761	40	1.3
45849.9	10000	41.2001	92.3214	-998	QK	2.1	-1	7.0	0	1.2	0	0.307	-1	1.815	-1	5.906	-1	1704	52	1.3
45850.0	10000	41.2001	92.3204	-996	QK	2.1	-1	6.7	-1	1.2	0	0.313	-1	1.805	-1	5.771	-1	1669	33	1.3
45850.1	10000	41.2001	92.3195	-994	QK	1.8	-1	6.6	-1	1.2	0	0.273	-1	1.572	-1	5.756	-1	1634	55	1.3
45850.2	10000	41.2001	92.3186	-992	QK	1.7	-2	6.4	-1	1.2	0	0.261	-1	1.444	-2	5.531	-1	1608	52	1.3
45850.3	10000	41.2001	92.3176	-990	QK	1.9	-1	6.3	-1	1.2	0	0.309	-1	1.651	-1	5.338	-2	1615	37	1.3
45850.4	10000	41.2001	92.3167	-988	QK	2.0	-1	6.3	-1	1.1	0	0.313	-1	1.836	-1	5.857	-1	1621	45	1.3
45850.5	10000	41.2001	92.3158	-986	QK	2.0	-1	6.1	-2	1.1	0	0.331	0	1.841	-1	5.557	-1	1614	33	1.3
45850.6	10000	41.2002	92.3148	-984	QK	2.2	-1	6.3	-1	1.0	-1	0.345	0	2.070	0	6.001	-1	1600	42	1.3
45850.7	10000	41.2002	92.3139	-982	QK	2.2	-1	6.3	-1	1.0	-1	0.344	0	2.203	0	6.398	0	1614	36	1.3
45850.8	10000	41.2002	92.3130	-980	QK	2.4	0	6.4	-1	1.0	-1	0.367	0	2.315	0	6.311	0	1631	39	1.3
45850.9	10000	41.2002	92.3120	-978	QK	2.4	0	6.4	-1	1.1	-1	0.378	0	2.339	0	6.192	0	1650	38	1.3
45851.0	10000	41.2002	92.3111	-975	QK	2.5	0	6.6	0	1.1	0	0.373	0	2.476	0	6.630	0	1672	64	1.3
45851.1	10000	41.2002	92.3102	-972	QK	2.7	0	6.9	0	1.1	0	0.394	0	2.543	0	6.450	0	1698	45	1.3
45851.2	10000	41.2002	92.3092	-969	QK	2.8	0	6.8	0	1.1	0	0.408	0	2.572	0	6.309	0	1724	44	1.3
45851.3	10000	41.2002	92.3083	-966	QK	2.8	0	6.6	0	1.2	1	0.425	0	2.481	0	6.840	0	1754	43	1.3
45851.4	10000	41.2002	92.3074	-963	QK	2.7	0	6.6	1	1.2	1	0.409	0	2.346	0	6.737	-1	1748	46	1.3
45851.5	10000	41.2002	92.3064	-960	QK	2.7	0	6.8	1	1.2	1	0.386	0	2.453	0	6.357	-1	1736	39	1.3
45851.6	10000	41.2002	92.3055	-956	QK	2.7	0	6.8	1	1.2	1	0.429	0	2.767	0	6.446	-1	1728	55	1.3
45851.7	10000	41.2002	92.3046	-952	QK	2.8	0	6.8	1	1.2	1	0.395	0	2.583	0	6.532	-1	1720	43	1.3
45851.8	10000	41.2002	92.3036	-947	QK	2.9	0	7.0	1	1.2	1	0.338	0	2.279	0	6.749	-1	1697	38	1.3
45851.9	10000	41.2002	92.3027	-942	QK	2.8	0	7.2	1	1.2	1	0.315	0	2.160	0	6.852	-1	1706	30	1.3
45852.0	10000	41.2002	92.3018	-937	QK	2.7	0	7.2	1	1.2	1	0.293	0	2.024	0	6.908	-1	1692	47	1.3
45852.1	10000	41.2002	92.3008	-932	QK	2.6	0	7.2	1	1.2	1	0.277	0	1.909	0	6.897	-1	1689	36	1.3
45852.2	10000	41.2002	92.2999	-926	QK	2.6	0	7.4	1	1.2	1	0.272	0	1.887	0	6.935	-1	1666	38	1.3
45852.3	10000	41.2003	92.2990	-919	QK	2.6	0	7.4	1	1.2	1	0.210	0	1.570	0	7.461	-1	1628	42	1.3
45852.4	10000	41.2003	92.2980	-914	QK	2.5	0	7.3	1	1.2	1	0.239	0	1.745	0	7.306	-1	1604	35	1.3
45852.5	10000	41.2003	92.2971	-908	QK	2.5	0	7.4	1	1.2	1	0.236	0	1.731	0	7.345	-1	1589	43	1.3
45852.6	10000	41.2003	92.2961	-901	QK	2.5	0	7.3	1	1.2	1	0.260	0	2.120	0	8.159	-1	1572	41	1.3
45852.7	10000	41.2003	92.2952	-895	QK	2.5	0	7.3	1	1.2	1	0.260	0	2.184	0	8.407	-1	1579	55	1.3
45852.8	10000	41.2003	92.2943	-890	QK	2.5	0	7.3	1	1.2	1	0.277	0	2.191	0	7.911	-1	1603	55	1.3
45852.9	10000	41.2003	92.2934	-884	QK	2.5	0	7.3	1	1.2	1	0.329	0	2.197	0	6.675	-1	1640	56	1.3
45853.0	10000	41.2003	92.2925	-878	QK	2.5	0	7.3	1	1.2	1	0.392	0	2.439	0	6.218	-1	1690	60	1.3
45853.1	10000	41.2003	92.2917	-873	QK	2.5	0	7.3	1	1.2	1	0.384	0	2.352	0	6.129	-1	1740	50	1.3
45853.2	10000	41.2003	92.2908	-868	QK	2.5	0	7.3	1	1.2	1	0.374	0	2.362	0	6.317	-1	1769	44	1.3
45853.3	10000	41.2003	92.2899	-864	QK	2.5	0	7.3	1	1.2	1	0.369	0	2.069	0	5.614	-1	1756	44	1.3
45853.4	10000	41.2003	92.2890	-860	QK	2.5	0	7.3	1	1.2	1	0.386	0	2.100	0	5.443	-1	1770	38	1.3

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45853.5	10000	41.2003	92.2882	-857	QK	2.6	0	6.7	-1	1.2	1	0.388	1	2.173	0	5.600	-1	1786	34	1.3
45853.6	10000	41.2003	92.2873	-854	QK	2.8	1	6.8	-1	1.2	0	0.407	1	2.357	0	5.796	-1	1784	42	1.3
45853.7	10000	41.2003	92.2864	-852	QK	2.8	1	7.4	0	1.2	0	0.381	0	2.422	0	6.353	0	1783	33	1.3
45853.8	10000	41.2003	92.2856	-850	QK	2.7	0	7.2	0	1.1	0	0.373	0	2.480	0	6.644	0	1751	45	1.3
45853.9	10000	41.2003	92.2847	-849	QK	2.6	0	6.5	-1	1.1	0	0.391	1	2.337	0	5.975	-1	1732	44	1.3
45854.0	10000	41.2003	92.2838	-847	QK	2.6	0	6.5	-1	1.1	0	0.403	1	2.441	0	6.064	-1	1729	38	1.3
45854.1	10000	41.2003	92.2829	-847	QK	2.6	0	6.6	-1	1.0	-1	0.391	1	2.478	0	6.336	0	1682	52	1.3
45854.2	10000	41.2003	92.2821	-847	QK	2.5	0	6.2	-1	1.0	-1	0.409	1	2.594	1	6.341	0	1631	50	1.3
45854.3	10000	41.2003	92.2812	-846	QK	2.3	-1	5.9	-2	0.9	-1	0.382	0	2.408	0	6.307	0	1593	28	1.3
45854.4	10000	41.2003	92.2803	-847	QK	2.2	-1	5.9	-2	0.9	-2	0.379	0	2.417	0	6.381	0	1557	46	1.3
45854.5	10000	41.2003	92.2795	-848	QK	2.4	0	6.6	-2	0.9	-2	0.428	1	2.554	1	5.962	-1	1551	55	1.3
45854.6	10000	41.2003	92.2786	-850	QK	2.5	0	5.7	-2	0.9	-2	0.447	1	2.883	1	6.449	0	1556	44	1.3
45854.7	10000	41.2003	92.2777	-852	QK	2.6	0	5.8	-2	0.9	-2	0.453	1	3.058	2	6.748	0	1578	56	1.3
45854.8	10000	41.2003	92.2768	-854	QK	2.8	1	6.2	-1	0.9	-2	0.456	1	3.007	2	6.599	0	1631	39	1.3
45854.9	10000	41.2003	92.2760	-855	QK	2.8	1	6.4	-1	1.0	-1	0.441	1	2.858	1	6.477	0	1676	54	1.3
45855.0	10000	41.2003	92.2751	-859	QK	3.1	1	7.0	0	1.0	-1	0.443	1	3.088	2	6.974	1	1723	31	1.3
45855.1	10000	41.2003	92.2742	-861	QK	2.9	1	6.9	0	1.1	-1	0.419	1	2.745	1	6.547	0	1735	58	1.3
45855.2	10000	41.2003	92.2734	-864	QK	2.9	1	7.3	0	1.1	0	0.397	1	2.662	1	6.704	0	1733	42	1.3
45855.3	10000	41.2003	92.2725	-867	QK	2.7	0	7.6	1	1.1	0	0.357	0	2.574	1	7.203	1	1730	55	1.3
45855.4	10000	41.2003	92.2716	-870	QK	2.7	0	7.7	1	1.1	0	0.344	0	2.453	0	7.129	1	1716	51	1.3
45855.5	10000	41.2003	92.2707	-873	QK	2.6	0	7.2	0	1.0	-1	0.363	0	2.570	1	7.084	1	1696	40	1.3
45855.6	10000	41.2003	92.2699	-876	QK	2.7	0	7.0	0	1.0	-1	0.386	0	2.771	1	7.187	1	1672	34	1.3
45855.7	10000	41.2003	92.2690	-878	QK	2.4	0	6.9	0	1.0	-1	0.356	0	2.466	0	6.920	1	1649	52	1.3
45855.8	10000	41.2003	92.2681	-881	QK	2.5	0	6.6	-1	1.0	-1	0.379	0	2.567	0	6.779	0	1656	44	1.3
45855.9	10000	41.2003	92.2673	-883	QK	2.4	0	6.6	-1	0.9	-1	0.358	0	2.503	0	6.996	1	1656	45	1.3
45856.0	10000	41.2003	92.2664	-884	QK	2.3	-1	6.5	-1	1.0	-1	0.346	0	2.270	0	6.564	0	1677	38	1.3
45856.1	10000	41.2003	92.2655	-886	QK	2.5	0	6.6	-1	1.0	-1	0.373	0	2.348	0	6.302	0	1702	36	1.3
45856.2	10000	41.2003	92.2646	-887	QK	2.5	0	6.9	0	1.1	-1	0.357	0	2.293	0	6.430	0	1737	39	1.3
45856.3	10000	41.2003	92.2638	-888	QK	2.5	0	7.1	0	1.1	-1	0.355	0	2.370	0	6.679	0	1766	42	1.3
45856.4	10000	41.2003	92.2629	-890	QK	2.6	0	7.0	0	1.1	-1	0.377	0	2.468	0	6.552	0	1783	51	1.3
45856.5	10000	41.2003	92.2620	-890	QK	2.8	0	7.2	0	1.1	-1	0.386	0	2.516	0	6.511	0	1809	36	1.3
45856.6	10000	41.2003	92.2612	-891	QK	2.9	0	7.1	0	1.1	-1	0.405	1	2.585	1	6.384	0	1845	39	1.3
45856.7	10000	41.2003	92.2603	-891	QK	3.1	0	6.9	0	1.1	-1	0.456	1	2.835	1	6.217	0	1844	51	1.3
45856.8	10000	41.2003	92.2594	-890	QK	2.9	0	6.8	0	1.1	-1	0.424	1	2.783	1	6.568	0	1841	45	1.3
45856.9	10000	41.2003	92.2585	-889	QK	2.9	0	6.8	0	1.1	-1	0.425	1	2.733	1	6.426	0	1836	45	1.3
45857.0	10000	41.2003	92.2577	-888	QK	2.8	0	6.8	-1	1.1	-1	0.414	1	2.467	1	5.952	-1	1827	47	1.3
45857.1	10000	41.2003	92.2568	-887	QK	2.7	0	6.8	-1	1.1	-1	0.397	1	2.356	1	5.929	-1	1831	42	1.3
45857.2	10000	41.2003	92.2559	-885	QK	2.6	0	6.6	-1	1.1	-1	0.397	1	2.372	1	5.982	-1	1811	37	1.3
45857.3	10000	41.2003	92.2551	-882	QK	2.7	0	6.6	-1	1.1	-1	0.389	1	2.425	1	6.230	0	1787	45	1.3
45857.4	10000	41.2003	92.2542	-879	QK	2.7	0	6.6	-1	1.1	-1	0.408	1	2.413	1	5.910	-1	1779	48	1.3
45857.5	10000	41.2003	92.2533	-874	QK	2.7	0	6.6	-1	1.1	-1	0.420	1	2.375	1	5.648	-1	1778	40	1.3
45857.6	10000	41.2003	92.2524	-870	QK	2.8	0	6.6	-1	1.1	-1	0.418	1	2.420	1	5.790	-1	1769	47	1.3
45857.7	10000	41.2003	92.2516	-867	QK	2.7	0	6.6	-1	1.1	-1	0.397	1	2.323	1	5.848	-1	1772	41	1.3
45857.8	10000	41.2003	92.2507	-864	QK	2.7	0	6.6	-1	1.1	-1	0.370	0	2.303	1	6.217	-1	1773	37	1.3
45857.9	10000	41.2003	92.2498	-860	QK	2.5	0	6.6	-1	1.1	-1	0.335	0	2.095	0	6.251	-1	1768	47	1.3
45858.0	10000	41.2003	92.2489	-855	QK	2.2	0	6.6	-1	1.1	-1	0.292	0	1.862	0	6.369	-1	1762	51	1.3
45858.1	10000	41.2003	92.2481	-851	QK	2.0	0	6.6	-1	1.1	-1	0.249	0	1.661	0	6.676	-1	1768	52	1.3
45858.2	10000	41.2003	92.2472	-846	QK	2.0	0	6.6	-1	1.1	-1	0.264	0	1.864	0	7.071	-1	1779	46	1.3
45858.3	10000	41.2003	92.2463	-841	QK	2.1	0	6.6	-1	1.1	-1	0.272	0	1.904	0	7.008	-1	1755	42	1.3
45858.4	10000	41.2003	92.2455	-836	QK	2.3	0	6.6	-1	1.1	-1	0.280	0	2.035	0	7.259	-1	1748	41	1.3
45858.5	10000	41.2003	92.2446	-831	QK	2.5	0	6.6	-1	1.1	-1	0.317	0	2.148	0	6.783	-1	1756	48	1.3
45858.6	10000	41.2003	92.2437	-826	QK	2.7	0	6.6	-1	1.1	-1	0.348	0	2.427	0	6.978	-1	1763	45	1.3

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45858.7	10000	41.2003	92.2428	-821	QK	3.0	1	8.0	1	1.2	0	0.382	0	2.625	1	6.878	1	1788	56	1.3
45858.8	10000	41.2003	92.2420	-817	QK	3.1	1	7.8	1	1.1	0	0.393	1	2.667	1	6.786	0	1791	47	1.3
45858.9	10000	41.2003	92.2411	-813	QK	3.1	1	7.6	0	1.2	0	0.404	1	2.601	1	6.434	0	1789	49	1.3
45859.0	10000	41.2003	92.2402	-809	QK	2.9	1	7.7	1	1.2	1	0.372	0	2.427	0	6.530	0	1809	47	1.3
45859.1	10000	41.2003	92.2394	-805	QK	2.8	1	8.0	1	1.1	0	0.351	0	2.458	0	6.993	1	1815	30	1.3
45859.2	10000	41.2003	92.2385	-801	QK	2.7	0	8.0	1	1.1	0	0.345	0	2.461	0	7.128	1	1812	56	1.3
45859.3	10000	41.2003	92.2376	-798	QK	2.5	0	7.6	1	1.2	0	0.330	0	2.185	0	6.614	0	1828	39	1.3
45859.4	10000	41.2003	92.2367	-795	QK	2.4	0	7.1	0	1.2	0	0.339	0	2.063	0	6.088	-1	1822	38	1.3
45859.5	10000	41.2003	92.2359	-793	QK	2.6	0	7.0	0	1.2	0	0.365	0	2.208	0	6.057	-1	1821	40	1.3
45859.6	10000	41.2003	92.2350	-790	QK	2.5	0	7.1	0	1.1	0	0.349	0	2.179	0	6.245	0	1818	44	1.3
45859.7	10000	41.2003	92.2341	-788	QK	2.5	0	7.0	0	1.2	0	0.360	0	2.194	0	6.095	-1	1813	38	1.3
45859.8	10000	41.2003	92.2333	-786	QK	2.5	0	6.6	-1	1.1	0	0.383	0	2.209	0	5.761	-1	1803	45	1.3
45859.9	10000	41.2003	92.2324	-784	QK	2.5	0	6.7	-1	1.2	0	0.377	0	2.197	0	5.829	-1	1820	35	1.3
45860.0	10000	41.2003	92.2315	-782	QK	2.7	0	7.2	0	1.1	0	0.377	0	2.386	0	6.327	0	1820	43	1.3
45860.1	10000	41.2003	92.2306	-781	QK	3.0	1	7.2	0	1.1	0	0.415	1	2.665	1	6.429	0	1830	39	1.3
45860.2	10000	41.2003	92.2298	-780	QK	3.1	1	7.2	0	1.1	0	0.422	1	2.765	1	6.550	0	1844	41	1.3
45860.3	10000	41.2003	92.2289	-779	QK	3.0	1	7.1	0	1.1	0	0.423	1	2.656	1	6.276	0	1850	42	1.3
45860.4	10000	41.2003	92.2280	-778	QK	3.0	1	7.2	0	1.1	0	0.422	1	2.661	1	6.300	0	1850	44	1.3
45860.5	10000	41.2003	92.2272	-777	QK	2.8	1	7.2	0	1.2	0	0.393	1	2.440	1	6.211	0	1851	52	1.3
45860.6	10000	41.2003	92.2263	-778	QK	2.9	1	7.3	0	1.1	0	0.394	1	2.503	1	6.353	0	1838	47	1.3
45860.7	10000	41.2003	92.2254	-777	QK	2.8	1	7.1	0	1.1	0	0.402	1	2.578	1	6.408	0	1824	49	1.3
45860.8	10000	41.2003	92.2245	-778	QK	2.8	1	7.3	0	1.1	0	0.379	1	2.502	1	6.602	0	1813	48	1.3
45860.9	10000	41.2003	92.2237	-779	QK	2.6	1	7.6	0	1.1	0	0.346	0	2.367	0	6.847	1	1806	42	1.3
45861.0	10000	41.2003	92.2228	-780	QK	2.7	1	7.5	0	1.1	0	0.360	0	2.439	0	6.773	0	1803	33	1.3
45861.1	10000	41.2003	92.2219	-781	QK	2.7	1	7.5	0	1.1	0	0.353	0	2.423	0	6.854	1	1797	52	1.3
45861.2	10000	41.2003	92.2211	-783	QK	2.7	1	8.1	1	1.1	0	0.339	0	2.530	1	7.459	1	1791	46	1.3
45861.3	10000	41.2003	92.2202	-786	QK	2.6	1	7.8	0	1.1	0	0.338	0	2.388	0	7.075	1	1790	48	1.3
45861.4	10000	41.2003	92.2193	-789	QK	2.7	1	7.8	0	1.1	0	0.342	0	2.342	0	6.847	1	1792	32	1.3
45861.5	10000	41.2003	92.2184	-793	QK	2.4	0	7.6	0	1.1	0	0.315	0	2.101	0	6.671	0	1779	37	1.3
45861.6	10000	41.2003	92.2176	-796	QK	2.3	0	7.2	0	1.1	0	0.321	0	2.015	-1	6.273	0	1765	44	1.3
45861.7	10000	41.2003	92.2167	-801	QK	2.2	0	7.2	0	1.2	0	0.303	0	1.924	-1	6.344	0	1753	61	1.3
45861.8	10000	41.2003	92.2158	-806	QK	2.3	0	7.4	0	1.2	0	0.295	0	1.876	-1	6.356	0	1755	59	1.3
45861.9	10000	41.2003	92.2150	-811	QK	2.3	0	7.6	0	1.2	0	0.340	0	1.855	-1	6.452	-1	1762	49	1.3
45862.0	10000	41.2003	92.2141	-818	QK	2.4	0	7.6	0	1.2	0	0.357	0	2.011	-1	6.629	-1	1747	52	1.3
45862.1	10000	41.2003	92.2132	-825	QK	2.3	0	7.4	0	1.2	0	0.342	0	1.951	-1	6.699	-1	1738	40	1.3
45862.2	10000	41.2003	92.2123	-831	QK	2.2	0	7.2	0	1.2	0	0.328	0	1.943	-1	6.926	-1	1743	39	1.3
45862.3	10000	41.2003	92.2115	-839	QK	2.3	0	7.2	0	1.2	0	0.335	0	2.030	-1	6.717	-1	1753	40	1.3
45862.4	10000	41.2003	92.2106	-847	QK	2.4	0	7.1	0	1.2	0	0.338	0	1.957	-1	6.787	-1	1755	42	1.3
45862.5	10000	41.2003	92.2097	-854	QK	2.5	0	7.4	0	1.2	0	0.350	0	1.988	-1	6.673	-1	1757	41	1.3
45862.6	10000	41.2003	92.2088	-862	QK	2.5	0	7.4	0	1.2	0	0.342	0	2.151	-1	6.282	-1	1747	40	1.3
45862.7	10000	41.2003	92.2080	-870	QK	2.7	0	7.9	0	1.2	0	0.311	0	2.042	-1	6.570	0	1749	45	1.3
45862.8	10000	41.2003	92.2071	-877	QK	2.5	0	7.3	0	1.2	0	0.322	0	2.218	-1	6.889	0	1754	31	1.3
45862.9	10000	41.2003	92.2062	-884	QK	2.5	0	7.3	0	1.2	0	0.313	0	2.061	-1	6.581	0	1753	57	1.3
45863.0	10000	41.2002	92.2054	-890	QK	2.7	0	7.9	0	1.2	0	0.296	0	2.086	-1	7.043	0	1750	41	1.3
45863.1	10000	41.2003	92.2045	-898	QK	2.9	1	8.0	1	1.2	0	0.360	0	2.501	-1	6.947	0	1751	41	1.3
45863.2	10000	41.2003	92.2036	-905	QK	2.9	1	8.0	1	1.2	0	0.363	0	2.847	-1	7.063	0	1759	39	1.3
45863.3	10000	41.2003	92.2027	-911	QK	2.9	1	8.0	1	1.2	0	0.357	0	2.832	-1	6.486	0	1769	50	1.3
45863.4	10000	41.2003	92.2019	-916	QK	2.7	1	7.9	1	1.2	0	0.343	0	2.800	-1	6.306	0	1772	29	1.3
45863.5	10000	41.2002	92.2010	-921	QK	2.7	1	7.6	0	1.2	0	0.355	0	2.889	-1	6.592	-1	1775	43	1.3
45863.6	10000	41.2003	92.2001	-926	QK	2.8	1	7.6	0	1.2	0	0.368	0	2.597	-1	6.815	-1	1787	25	1.3
45863.7	10000	41.2002	92.1993	-930	QK	2.8	1	7.6	0	1.2	0	0.368	0	2.597	-1	6.184	0	1785	47	1.3
45863.8	10000	41.2002	92.1984	-934	QK	2.7	1	7.4	0	1.1	0	0.361	0	2.444	0	6.778	0	1791	47	1.3

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45863.9	10000	41.2002	92.1975	-938	QK	2.2	-1	7.3	0	1.1	0	0.307	-1	2.038	0	6.638	0	1779	32	1.3
45864.0	10000	41.2003	92.1966	-942	QK	2.2	-1	7.2	0	1.1	0	0.311	-1	2.080	0	6.698	0	1781	59	1.3
45864.1	10000	41.2003	92.1958	-945	QK	2.5	0	7.3	0	1.1	0	0.341	0	2.211	0	6.483	0	1789	53	1.3
45864.2	10000	41.2002	92.1949	-948	QK	3.0	1	7.3	0	1.0	-1	0.407	1	2.874	1	7.067	1	1774	37	1.3
45864.3	10000	41.2002	92.1940	-951	QK	3.0	1	7.1	0	1.0	-1	0.422	1	2.914	1	6.905	1	1761	49	1.3
45864.4	10000	41.2002	92.1932	-953	QK	3.0	1	7.0	0	1.1	0	0.429	1	2.830	1	6.593	0	1754	42	1.3
45864.5	10000	41.2002	92.1923	-954	QK	2.8	1	6.8	-1	1.1	0	0.416	1	2.541	1	6.109	-1	1760	53	1.3
45864.6	10000	41.2002	92.1914	-956	QK	3.1	1	6.9	0	1.1	0	0.442	1	2.770	1	6.274	0	1769	44	1.3
45864.7	10000	41.2002	92.1904	-961	QK	2.9	1	7.3	0	1.1	0	0.394	1	2.590	1	6.573	0	1780	42	1.3
45864.8	10000	41.2001	92.1895	-964	QK	2.6	0	7.3	0	1.1	0	0.354	0	2.362	0	6.663	0	1785	48	1.3
45864.9	10000	41.2001	92.1886	-968	QK	2.6	0	7.4	0	1.2	0	0.354	0	2.273	0	6.415	0	1818	44	1.3
45865.0	10000	41.2001	92.1877	-969	QK	2.4	0	7.5	0	1.2	0	0.317	0	2.043	0	6.453	0	1834	50	1.3
45865.1	10000	41.2000	92.1868	-971	QK	2.3	-1	7.3	0	1.2	0	0.307	-1	1.918	-1	6.237	0	1849	44	1.3
45865.2	10000	41.2000	92.1858	-974	QK	2.1	-1	7.3	0	1.2	0	0.292	-1	1.847	-1	6.326	0	1837	50	1.3
45865.3	10000	41.1999	92.1849	-976	QK	2.3	0	7.3	0	1.2	1	0.317	0	1.945	-1	6.130	-1	1834	40	1.3
45865.4	10000	41.1999	92.1840	-977	QK	2.4	0	7.0	0	1.2	1	0.343	0	1.999	-1	5.823	-1	1826	43	1.3
45865.5	10000	41.1999	92.1831	-980	QK	2.4	0	7.2	0	1.2	1	0.338	0	2.086	0	6.168	0	1817	44	1.3
45865.6	10000	41.1998	92.1821	-982	QK	2.2	-1	6.9	0	1.2	0	0.313	-1	1.846	-1	5.899	-1	1794	31	1.3
45865.7	10000	41.1998	92.1812	-984	QK	2.3	0	6.8	-1	1.1	0	0.337	0	2.017	-1	5.993	-1	1778	50	1.3
45865.8	10000	41.1997	92.1803	-985	QK	2.5	0	6.9	0	1.1	0	0.361	0	2.186	0	6.053	-1	1755	32	1.3
45865.9	10000	41.1997	92.1794	-986	QK	2.6	0	6.7	-1	1.2	0	0.390	1	2.268	0	5.811	-1	1738	43	1.3
45866.0	10000	41.1997	92.1785	-987	QK	2.4	0	6.7	-1	1.1	0	0.364	0	2.218	0	6.092	-1	1711	41	1.3
45866.1	10000	41.1996	92.1775	-988	QK	2.2	-1	6.8	-1	1.1	-1	0.324	0	2.066	0	6.382	0	1678	40	1.3
45866.2	10000	41.1996	92.1766	-989	QK	2.0	-1	6.4	-1	1.1	0	0.320	0	1.873	-1	5.846	-1	1656	38	1.3
45866.3	10000	41.1996	92.1757	-990	QK	2.1	-1	6.7	-1	1.0	-1	0.311	-1	1.991	-1	6.400	0	1636	46	1.3
45866.4	10000	41.1995	92.1748	-991	QK	2.1	-1	6.7	-1	1.1	0	0.320	0	1.963	-1	6.128	-1	1631	45	1.3
45866.5	10000	41.1995	92.1738	-991	QK	2.2	-1	6.5	-1	1.1	0	0.338	0	2.073	0	6.140	-1	1619	38	1.3
45866.6	10000	41.1994	92.1729	-991	QK	2.2	-1	6.4	-1	1.0	0	0.341	0	2.186	0	6.409	0	1624	36	1.3
45866.7	10000	41.1994	92.1720	-991	QK	2.2	-1	6.7	-1	1.0	0	0.330	0	2.163	0	6.562	0	1658	42	1.4
45866.8	10000	41.1994	92.1711	-991	QK	2.3	-1	6.8	-1	1.1	0	0.339	0	2.186	0	6.451	0	1683	47	1.4
45866.9	10000	41.1993	92.1702	-991	QK	2.4	-1	7.3	0	1.1	0	0.330	0	2.273	0	6.893	1	1704	52	1.4
45867.0	10000	41.1993	92.1692	-989	QK	2.4	-1	7.1	0	1.1	0	0.331	0	2.227	0	6.725	0	1736	47	1.4
45867.1	10000	41.1992	92.1683	-988	QK	2.2	-1	7.3	0	1.1	0	0.283	-1	1.980	-1	7.001	1	1760	41	1.4
45867.2	10000	41.1992	92.1674	-987	QK	2.1	-1	7.1	0	1.2	0	0.254	-1	1.768	-1	6.964	1	1801	48	1.4
45867.3	10000	41.1992	92.1665	-986	QK	2.0	-1	7.4	0	1.2	0	0.239	-1	1.639	-1	6.871	1	1815	45	1.4
45867.4	10000	41.1991	92.1655	-985	QK	2.1	-1	7.9	1	1.3	0	0.262	-1	1.587	-1	6.059	-1	1821	36	1.4
45867.5	10000	41.1991	92.1646	-984	QK	2.2	-1	7.1	1	1.3	0	0.265	-1	1.712	-1	6.451	0	1816	41	1.4
45867.6	10000	41.1990	92.1637	-983	QK	2.5	-1	7.1	1	1.3	0	0.317	-1	1.908	-1	6.013	-1	1818	43	1.4
45867.7	10000	41.1990	92.1628	-982	QK	2.5	-1	7.1	1	1.3	0	0.306	-1	1.987	-1	6.503	0	1809	41	1.4
45867.8	10000	41.1990	92.1619	-982	QK	2.7	-1	7.1	1	1.3	1	0.342	0	2.231	0	6.530	0	1792	44	1.4
45867.9	10000	41.1989	92.1609	-981	QK	2.8	-1	7.4	1	1.3	1	0.379	0	2.488	1	6.567	0	1770	55	1.4
45868.0	10000	41.1989	92.1600	-980	QK	2.7	-1	7.2	1	1.3	1	0.426	0	2.891	1	6.789	0	1748	46	1.4
45868.1	10000	41.1988	92.1591	-980	QK	2.7	-1	7.4	1	1.3	1	0.371	0	2.947	1	7.947	1	1706	42	1.4
45868.2	10000	41.1988	92.1582	-980	QK	2.6	-1	7.1	1	1.3	1	0.384	0	2.964	1	7.718	1	1693	42	1.4
45868.3	10000	41.1988	92.1573	-980	QK	2.6	-1	7.0	1	1.3	1	0.381	0	2.877	1	7.547	1	1661	44	1.4
45868.4	10000	41.1987	92.1563	-980	QK	2.5	-1	7.0	1	1.3	1	0.389	0	2.709	1	6.963	1	1611	54	1.4
45868.5	10000	41.1987	92.1554	-980	QK	2.4	-1	6.8	1	1.3	1	0.417	0	2.820	1	6.756	1	1565	41	1.4
45868.6	10000	41.1987	92.1545	-980	QK	2.3	-1	6.7	1	1.3	1	0.421	0	2.730	1	6.481	1	1531	40	1.4
45868.7	10000	41.1986	92.1536	-981	QK	2.2	-1	6.5	1	1.3	1	0.349	0	2.138	1	6.123	1	1524	53	1.4
45868.8	10000	41.1986	92.1526	-981	QK	2.1	-1	6.4	1	1.3	1	0.371	0	2.138	1	5.706	1	1528	47	1.4
45868.9	10000	41.1985	92.1517	-982	QK	2.0	-1	6.3	1	1.3	1	0.361	0	2.112	1	5.300	1	1539	44	1.4
45869.0	10000	41.1985	92.1508	-983	QK	1.8	-1	5.8	1	1.3	1	0.319	0	1.947	1	6.106	1	1537	52	1.4

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45869.1	10000	41.1985	92.1499	-985	QK	2.1	-1	5.9	-2	1.0	-1	0.362	0	2.204	0	6.089	-1	1546	58	1.4
45869.2	10000	41.1984	92.1490	-986	QK	2.1	-1	5.9	-2	1.0	-1	0.360	0	2.175	0	6.036	-1	1546	44	1.3
45869.3	10000	41.1984	92.1480	-989	QK	1.9	-1	5.9	-2	0.9	-1	0.313	-1	1.969	-1	6.297	0	1540	43	1.3
45869.4	10000	41.1983	92.1471	-992	QK	2.0	-1	6.1	-2	0.9	-2	0.335	0	2.244	0	6.702	0	1536	42	1.3
45869.5	10000	41.1983	92.1462	-994	QK	2.3	-1	5.9	-2	0.9	-2	0.380	0	2.588	1	6.808	0	1540	45	1.3
45869.6	10000	41.1983	92.1453	-997	QK	2.5	0	5.9	-2	0.8	-2	0.425	1	3.009	2	7.088	1	1527	44	1.3
45869.7	10000	41.1982	92.1443	-1001	QK	2.6	0	6.1	-2	0.9	-2	0.429	1	2.887	1	6.730	0	1546	45	1.3
45869.8	10000	41.1982	92.1434	-1004	QK	2.6	0	5.9	-2	0.9	-1	0.432	1	2.715	1	6.291	0	1578	41	1.3
45869.9	10000	41.1982	92.1425	-1008	QK	2.5	0	5.7	-2	1.0	-1	0.431	1	2.544	1	5.910	-1	1598	46	1.3
45870.0	10000	41.1981	92.1416	-1011	QK	2.6	0	5.8	-2	1.0	-1	0.448	1	2.557	1	5.701	-1	1608	53	1.3
45870.1	10000	41.1981	92.1407	-1015	QK	2.8	1	5.6	-2	1.0	-1	0.496	2	2.702	1	5.452	-1	1622	43	1.3
45870.2	10000	41.1980	92.1397	-1019	QK	2.6	0	5.7	-2	1.0	-1	0.453	1	2.552	1	5.630	-1	1619	53	1.3
45870.3	10000	41.1980	92.1388	-1023	QK	2.5	0	5.9	-2	1.0	-1	0.431	1	2.486	0	5.767	-1	1632	35	1.3
45870.4	10000	41.1980	92.1379	-1026	QK	2.5	0	5.8	-2	1.0	-1	0.432	1	2.505	1	5.793	-1	1643	36	1.3
45870.5	10000	41.1979	92.1370	-1030	QK	2.5	0	6.0	-2	1.0	-1	0.418	1	2.543	1	6.079	-1	1651	51	1.3
45870.6	10000	41.1979	92.1360	-1032	QK	2.8	1	6.4	-1	0.9	-2	0.432	1	3.100	2	7.182	1	1647	29	1.3
45870.7	10000	41.1978	92.1351	-1035	QK	2.7	0	6.5	-1	0.9	-2	0.417	1	3.178	2	7.617	2	1649	41	1.3
45870.8	10000	41.1978	92.1342	-1038	QK	2.5	0	6.2	-1	0.8	-2	0.405	1	3.000	2	7.412	1	1637	36	1.3
45870.9	10000	41.1978	92.1333	-1040	QK	2.5	0	6.2	-1	0.9	-2	0.400	1	2.869	1	7.172	1	1655	55	1.3
45871.0	10000	41.1977	92.1324	-1042	QK	2.3	0	6.1	-2	0.9	-2	0.384	0	2.507	1	6.531	0	1667	50	1.3
45871.1	10000	41.1977	92.1314	-1044	QK	2.4	0	6.1	-2	0.9	-2	0.388	1	2.526	1	6.510	0	1661	39	1.3
45871.2	10000	41.1976	92.1305	-1046	QK	2.5	0	5.6	-2	0.9	-2	0.444	1	2.668	1	6.008	-1	1648	52	1.3
45871.3	10000	41.1976	92.1296	-1046	QK	2.3	0	5.6	-2	1.0	-1	0.414	1	2.365	0	5.712	-1	1660	44	1.3
45871.4	10000	41.1976	92.1287	-1048	QK	2.4	-1	5.4	-3	1.0	-1	0.450	1	2.379	0	5.282	-2	1681	40	1.3
45871.5	10000	41.1975	92.1277	-1049	QK	2.5	0	5.7	-2	1.1	0	0.444	1	2.349	0	5.293	-2	1711	36	1.3
45871.6	10000	41.1975	92.1268	-1050	QK	2.7	0	5.6	-2	1.1	0	0.480	2	2.432	0	5.066	-2	1718	55	1.3
45871.7	10000	41.1974	92.1259	-1051	QK	2.9	-1	6.2	-1	1.1	0	0.465	2	2.701	1	5.807	-1	1732	38	1.3
45871.8	10000	41.1974	92.1250	-1052	QK	3.0	-1	6.3	-1	1.1	0	0.467	2	2.726	1	5.834	-1	1757	48	1.3
45871.9	10000	41.1974	92.1241	-1052	QK	2.9	0	6.6	-1	1.1	0	0.416	2	2.488	1	5.977	-1	1789	61	1.3
45872.0	10000	41.1973	92.1231	-1053	QK	2.8	0	6.6	-1	1.1	0	0.401	2	2.358	0	5.887	-1	1821	44	1.3
45872.1	10000	41.1973	92.1222	-1054	QK	2.9	0	7.0	-1	1.1	0	0.381	2	2.353	0	6.173	0	1847	29	1.3
45872.2	10000	41.1972	92.1213	-1054	QK	2.9	0	6.6	-1	1.1	0	0.383	2	2.351	0	6.133	0	1878	52	1.3
45872.3	10000	41.1972	92.1204	-1055	QK	2.9	0	7.0	-1	1.1	0	0.366	2	2.398	0	6.547	0	1900	39	1.3
45872.4	10000	41.1972	92.1194	-1056	QK	2.9	0	6.6	-1	1.1	0	0.373	2	2.376	0	6.368	0	1908	52	1.3
45872.5	10000	41.1971	92.1185	-1054	QK	2.8	0	6.6	-1	1.1	0	0.368	2	2.164	0	5.878	-1	1912	41	1.3
45872.6	10000	41.1971	92.1176	-1054	QK	2.9	0	7.0	-1	1.1	0	0.376	2	2.230	0	5.939	-1	1905	41	1.3
45872.7	10000	41.1970	92.1167	-1053	QK	2.8	0	6.6	-1	1.1	0	0.359	2	2.187	0	6.096	-1	1888	37	1.3
45872.8	10000	41.1970	92.1158	-1052	QK	2.8	0	6.6	-1	1.1	0	0.369	2	2.244	0	6.073	-1	1877	40	1.3
45872.9	10000	41.1970	92.1148	-1050	QK	2.6	0	6.6	-1	1.1	0	0.340	2	2.178	0	6.401	0	1853	42	1.3
45873.0	10000	41.1969	92.1139	-1049	QK	2.7	0	6.5	-1	1.1	0	0.364	2	2.276	0	6.257	0	1825	46	1.3
45873.1	10000	41.1969	92.1130	-1047	QK	2.5	0	6.4	-1	1.1	0	0.340	2	2.092	0	6.145	0	1809	45	1.3
45873.2	10000	41.1968	92.1121	-1044	QK	2.4	0	6.2	-1	1.1	0	0.318	2	2.156	0	6.772	0	1797	50	1.3
45873.3	10000	41.1968	92.1112	-1042	QK	2.2	-1	5.8	-1	1.1	0	0.276	1	1.998	-1	7.227	1	1802	37	1.3
45873.4	10000	41.1968	92.1102	-1040	QK	2.2	-1	5.9	-1	1.1	0	0.285	1	1.993	-1	6.989	1	1805	27	1.3
45873.5	10000	41.1967	92.1093	-1038	QK	2.1	-1	5.7	-1	1.1	0	0.259	1	1.782	-1	6.870	1	1800	47	1.3
45873.6	10000	41.1967	92.1084	-1036	QK	2.4	0	6.0	-1	1.1	0	0.307	1	1.983	-1	6.466	0	1805	45	1.3
45873.7	10000	41.1967	92.1075	-1035	QK	2.0	-1	5.7	-1	1.1	0	0.269	1	1.636	-1	6.092	-1	1823	51	1.3
45873.8	10000	41.1966	92.1065	-1033	QK	2.1	-1	5.4	-1	1.1	0	0.268	1	1.570	-1	5.863	-1	1840	46	1.3
45873.9	10000	41.1966	92.1056	-1031	QK	2.0	-1	5.4	-1	1.1	0	0.286	1	1.631	-1	5.707	-1	1841	40	1.3
45874.0	10000	41.1965	92.1047	-1029	QK	1.4	-1	5.3	-1	1.1	0	0.336	1	1.793	-1	5.343	-2	1843	31	1.3
45874.1	10000	41.1965	92.1038	-1028	QK	1.6	-1	5.2	-1	1.1	0	0.352	1	1.953	-1	5.548	-1	1841	49	1.3
45874.2	10000	41.1965	92.1029	-1026	QK	3.0	1	7.3	0	1.3	1	0.407	1	2.303	0	5.666	-1	1844	47	1.2

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45874.3	10000	41.1964	92.1019	-1025	QK	2.6	0	7.6	0	1.3	1	0.339	0	2.036	0	6.006	-1	1821	49	1.2
45874.4	10000	41.1964	92.1010	-1024	QK	2.6	0	7.4	0	1.2	1	0.350	0	2.144	0	6.131	-1	1780	40	1.2
45874.5	10000	41.1963	92.1001	-1024	QK	2.8	1	7.1	0	1.1	0	0.394	1	2.608	1	6.616	0	1727	38	1.2
45874.6	10000	41.1963	92.0992	-1023	QK	2.8	1	6.6	-1	1.1	-1	0.421	1	2.633	1	6.249	0	1675	52	1.2
45874.7	10000	41.1963	92.0983	-1021	QK	2.6	0	6.3	-1	1.0	-1	0.406	1	2.543	1	6.261	0	1606	56	1.2
45874.8	10000	41.1962	92.0973	-1019	QK	2.4	0	6.0	-2	1.0	-1	0.405	1	2.426	0	5.988	-1	1556	58	1.2
45874.9	10000	41.1962	92.0964	-1017	QK	2.3	0	6.1	-1	1.0	-1	0.372	0	2.371	0	6.367	0	1525	40	1.2
45875.0	10000	41.1961	92.0955	-1015	QK	2.4	0	5.9	-2	0.9	-2	0.417	1	2.684	1	6.429	0	1505	55	1.2
45875.1	10000	41.1961	92.0946	-1015	QK	2.9	1	6.4	-1	0.9	-2	0.458	1	3.309	2	7.219	1	1518	46	1.2
45875.2	10000	41.1961	92.0936	-1017	QK	2.9	1	6.5	-1	0.9	-2	0.451	1	3.167	2	7.027	1	1536	44	1.2
45875.3	10000	41.1960	92.0927	-1019	QK	3.0	1	6.9	0	0.9	-2	0.427	1	3.151	2	7.380	1	1581	45	1.2
45875.4	10000	41.1960	92.0918	-1021	QK	3.0	1	7.2	0	1.0	-1	0.420	1	3.098	2	7.373	1	1641	41	1.2
45875.5	10000	41.1960	92.0909	-1022	QK	2.9	1	7.3	0	1.0	-1	0.401	1	3.030	2	7.553	2	1672	54	1.2
45875.6	10000	41.1960	92.0900	-1022	QK	3.0	1	7.3	0	1.0	-1	0.408	1	2.930	1	7.188	1	1708	44	1.2
45875.7	10000	41.1960	92.0891	-1021	QK	3.1	1	7.2	0	1.0	-1	0.430	1	2.972	1	6.904	1	1733	42	1.2
45875.8	10000	41.1960	92.0881	-1020	QK	2.6	1	7.0	0	1.1	0	0.376	1	2.345	0	6.244	0	1746	41	1.2
45875.9	10000	41.1960	92.0872	-1020	QK	2.5	0	7.2	0	1.2	0	0.344	0	2.125	0	6.172	0	1767	42	1.2
45876.0	10000	41.1960	92.0863	-1019	QK	2.6	0	7.5	0	1.2	1	0.353	0	2.114	0	5.984	-1	1771	34	1.2
45876.1	10000	41.1960	92.0854	-1019	QK	2.7	0	7.1	0	1.2	1	0.374	0	2.219	0	5.934	-1	1771	40	1.2
45876.2	10000	41.1960	92.0845	-1017	QK	2.9	1	7.1	0	1.3	1	0.413	1	2.317	0	5.612	-1	1794	40	1.1
45876.3	10000	41.1960	92.0835	-1017	QK	2.9	1	6.9	0	1.3	1	0.414	1	2.198	0	5.315	-2	1798	52	1.1
45876.4	10000	41.1960	92.0826	-1016	QK	2.6	0	7.0	0	1.3	2	0.370	1	1.923	-1	5.200	-2	1811	38	1.1
45876.5	10000	41.1960	92.0817	-1015	QK	2.9	1	7.1	0	1.3	1	0.401	1	2.204	0	5.493	-1	1823	28	1.1
45876.6	10000	41.1960	92.0808	-1014	QK	3.3	2	6.9	0	1.2	1	0.480	2	2.642	1	5.506	-1	1825	43	1.1
45876.7	10000	41.1960	92.0799	-1012	QK	3.3	2	7.2	0	1.2	1	0.458	1	2.683	1	5.852	-1	1835	39	1.1
45876.8	10000	41.1960	92.0790	-1011	QK	3.3	2	7.4	0	1.2	1	0.444	1	2.693	1	6.072	-1	1838	38	1.1
45876.9	10000	41.1960	92.0780	-1009	QK	3.2	2	7.4	0	1.2	1	0.436	1	2.588	1	5.936	-1	1852	47	1.1
45877.0	10000	41.1960	92.0771	-1007	QK	3.3	2	7.6	0	1.2	1	0.441	1	2.781	1	6.308	0	1861	56	1.1
45877.1	10000	41.1959	92.0762	-1005	QK	3.6	2	7.8	0	1.2	1	0.463	2	3.067	1	6.629	0	1865	55	1.1
45877.2	10000	41.1959	92.0753	-1002	QK	3.2	2	7.8	0	1.2	1	0.461	1	3.041	1	6.599	0	1865	43	1.1
45877.3	10000	41.1959	92.0744	-998	QK	3.3	2	7.8	0	1.2	1	0.417	1	2.748	1	6.584	0	1859	58	1.1
45877.4	10000	41.1959	92.0735	-994	QK	3.3	2	7.4	0	1.2	1	0.442	1	2.711	1	6.137	0	1869	42	1.2
45877.5	10000	41.1959	92.0726	-990	QK	3.3	2	7.6	0	1.2	1	0.429	1	2.668	1	6.219	0	1886	43	1.2
45877.6	10000	41.1959	92.0716	-985	QK	3.3	2	7.4	0	1.2	1	0.419	1	2.741	1	6.540	0	1873	42	1.2
45877.7	10000	41.1959	92.0707	-980	QK	3.3	2	7.7	0	1.2	1	0.391	1	2.637	1	6.736	0	1854	47	1.2
45877.8	10000	41.1959	92.0698	-975	QK	3.3	2	7.7	0	1.2	1	0.376	1	2.616	1	6.960	0	1848	33	1.2
45877.9	10000	41.1959	92.0689	-971	QK	3.3	2	7.8	0	1.2	1	0.359	1	2.594	1	7.231	0	1846	44	1.2
45878.0	10000	41.1959	92.0680	-966	QK	3.3	2	7.7	0	1.2	1	0.366	1	2.419	1	6.609	0	1844	33	1.2
45878.1	10000	41.1959	92.0670	-961	QK	3.3	2	7.7	0	1.2	1	0.352	1	2.434	1	6.920	0	1821	36	1.2
45878.2	10000	41.1959	92.0661	-957	QK	3.3	2	7.8	0	1.2	1	0.370	1	2.489	2	6.735	0	1813	51	1.2
45878.3	10000	41.1959	92.0652	-954	QK	3.3	2	7.7	0	1.2	1	0.340	1	2.386	2	7.015	0	1810	43	1.2
45878.4	10000	41.1959	92.0643	-950	QK	3.3	2	7.7	0	1.2	1	0.385	1	2.568	2	6.665	0	1832	57	1.2
45878.5	10000	41.1959	92.0634	-948	QK	3.3	2	7.7	0	1.2	1	0.399	1	2.455	2	6.148	0	1841	42	1.2
45878.6	10000	41.1959	92.0625	-945	QK	3.3	2	7.7	0	1.2	1	0.389	1	2.211	2	5.680	-1	1843	44	1.2
45878.7	10000	41.1959	92.0616	-944	QK	3.3	2	7.7	0	1.2	1	0.373	1	2.251	2	6.030	-1	1842	54	1.2
45878.8	10000	41.1959	92.0606	-942	QK	3.3	2	7.7	0	1.2	1	0.394	1	2.263	2	5.755	-1	1853	36	1.2
45878.9	10000	41.1959	92.0597	-941	QK	3.3	2	7.7	0	1.2	1	0.404	1	2.347	2	5.813	-1	1857	47	1.2
45879.0	10000	41.1959	92.0588	-940	QK	3.3	2	7.6	0	1.2	1	0.405	1	2.221	2	5.477	-1	1853	40	1.2
45879.1	10000	41.1959	92.0579	-939	QK	3.3	2	7.7	0	1.2	1	0.381	1	2.067	2	5.422	-2	1848	38	1.1
45879.2	10000	41.1959	92.0570	-939	QK	3.3	2	7.7	0	1.2	1	0.371	1	2.097	2	5.650	-1	1863	52	1.1
45879.3	10000	41.1959	92.0560	-938	QK	3.3	2	7.7	0	1.2	1	0.393	1	2.288	2	5.818	-1	1875	50	1.1
45879.4	10000	41.1959	92.0551	-937	QK	3.0	2	7.5	0	1.2	1	0.400	1	2.403	2	6.016	-1	1901	47	1.2

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45879.5	10000	41.1959	92.0542	-937	QK	2.9	1	7.6	1	1.3	1	0.379	0	2.295	0	6.058	-1	1897	49	1.2
45879.6	10000	41.1958	92.0533	-936	QK	2.8	1	7.5	0	1.3	1	0.375	0	2.189	0	5.840	-1	1893	46	1.2
45879.7	10000	41.1958	92.0524	-935	QK	3.0	1	7.7	1	1.3	2	0.393	1	2.333	0	5.934	-1	1927	45	1.2
45879.8	10000	41.1958	92.0515	-934	QK	3.0	1	8.2	1	1.3	2	0.362	0	2.215	0	6.115	-1	1943	49	1.2
45879.9	10000	41.1958	92.0506	-933	QK	3.2	1	7.8	1	1.3	2	0.405	1	2.429	0	6.002	-1	1938	43	1.2
45880.0	10000	41.1958	92.0496	-932	QK	3.2	1	7.7	1	1.3	1	0.421	1	2.557	1	6.070	-1	1933	48	1.2
45880.1	10000	41.1958	92.0487	-931	QK	3.1	1	7.6	0	1.2	1	0.415	1	2.552	1	6.149	0	1916	58	1.2
45880.2	10000	41.1958	92.0478	-929	QK	3.2	1	7.6	1	1.2	1	0.425	1	2.626	1	6.182	0	1923	57	1.2
45880.3	10000	41.1958	92.0469	-928	QK	3.0	1	7.7	1	1.2	1	0.393	1	2.538	1	6.451	0	1914	55	1.2
45880.4	10000	41.1958	92.0460	-927	QK	3.3	2	7.8	1	1.2	0	0.422	1	2.835	1	6.715	0	1892	46	1.2
45880.5	10000	41.1958	92.0451	-926	QK	3.3	2	7.5	0	1.1	0	0.448	1	2.976	1	6.647	0	1863	33	1.2
45880.6	10000	41.1958	92.0441	-924	QK	3.2	1	7.5	0	1.1	0	0.423	1	2.816	1	6.657	0	1841	33	1.2
45880.7	10000	41.1958	92.0432	-923	QK	3.0	1	7.3	0	1.1	0	0.417	1	2.722	1	6.533	0	1831	53	1.2
45880.8	10000	41.1958	92.0423	-922	QK	2.9	1	7.1	0	1.1	0	0.405	1	2.550	1	6.302	0	1823	31	1.2
45880.9	10000	41.1958	92.0414	-921	QK	2.7	0	7.4	0	1.1	0	0.369	0	2.512	1	6.806	0	1822	39	1.2
45881.0	10000	41.1958	92.0405	-921	QK	2.9	1	7.6	0	1.1	0	0.382	0	2.684	1	7.017	1	1822	47	1.2
45881.1	10000	41.1958	92.0396	-921	QK	2.9	1	7.5	0	1.1	0	0.388	1	2.609	1	6.723	0	1832	51	1.2
45881.2	10000	41.1958	92.0386	-920	QK	2.9	1	7.6	1	1.1	0	0.377	0	2.552	1	6.771	0	1847	45	1.2
45881.3	10000	41.1958	92.0377	-920	QK	2.5	0	7.5	0	1.1	0	0.339	0	2.263	0	6.669	0	1856	37	1.2
45881.4	10000	41.1958	92.0368	-921	QK	2.4	0	7.6	1	1.2	0	0.314	-1	2.069	0	6.588	0	1874	51	1.2
45881.5	10000	41.1958	92.0359	-922	QK	2.7	0	7.7	1	1.2	0	0.346	0	2.259	0	6.532	0	1890	47	1.2
45881.6	10000	41.1958	92.0350	-922	QK	2.7	0	7.5	0	1.2	1	0.357	0	2.249	0	6.299	0	1891	54	1.2
45881.7	10000	41.1958	92.0341	-923	QK	2.6	0	7.5	0	1.2	1	0.342	0	2.073	0	6.053	-1	1905	33	1.2
45881.8	10000	41.1958	92.0331	-925	QK	2.3	0	7.1	0	1.3	1	0.329	0	1.859	-1	5.647	-1	1891	48	1.3
45881.9	10000	41.1958	92.0322	-926	QK	2.4	0	7.0	0	1.3	2	0.335	0	1.801	-1	5.373	-2	1886	47	1.3
45882.0	10000	41.1957	92.0313	-927	QK	2.5	0	7.2	0	1.3	2	0.347	0	1.883	-1	5.422	-2	1875	34	1.3
45882.1	10000	41.1957	92.0304	-929	QK	2.7	0	7.5	0	1.3	2	0.354	0	1.979	-1	5.593	-1	1870	40	1.3
45882.2	10000	41.1957	92.0295	-931	QK	2.5	0	7.4	0	1.3	2	0.336	0	1.924	-1	5.736	-1	1865	43	1.3
45882.3	10000	41.1957	92.0285	-933	QK	2.5	0	7.4	0	1.3	2	0.333	0	1.924	-1	5.778	-1	1847	49	1.3
45882.4	10000	41.1957	92.0276	-935	QK	2.7	0	7.4	0	1.2	1	0.369	0	2.177	-1	5.904	-1	1833	41	1.3
45882.5	10000	41.1957	92.0267	-937	QK	2.7	0	7.9	1	1.2	1	0.343	0	2.318	0	6.750	0	1841	39	1.3
45882.6	10000	41.1957	92.0258	-939	QK	2.5	0	7.9	1	1.1	1	0.313	-1	2.216	0	7.083	1	1833	39	1.3
45882.7	10000	41.1957	92.0249	-941	QK	2.6	0	7.9	1	1.1	1	0.333	0	2.447	0	7.345	1	1849	33	1.3
45882.8	10000	41.1957	92.0240	-943	QK	2.6	0	7.8	1	1.0	1	0.334	0	2.555	1	7.649	2	1825	45	1.3
45882.9	10000	41.1957	92.0231	-944	QK	2.6	0	8.0	1	1.1	1	0.325	0	2.429	1	7.467	1	1809	53	1.4
45883.0	10000	41.1957	92.0221	-946	QK	2.6	0	8.0	1	1.1	1	0.319	0	2.341	1	7.327	1	1824	47	1.4
45883.1	10000	41.1957	92.0212	-947	QK	2.4	0	8.2	1	1.1	1	0.294	-1	2.248	1	7.658	2	1829	50	1.4
45883.2	10000	41.1957	92.0203	-948	QK	2.8	1	7.9	1	1.1	1	0.349	0	2.482	1	7.104	1	1828	47	1.4
45883.3	10000	41.1957	92.0194	-948	QK	2.8	1	7.5	1	1.1	1	0.377	0	2.621	1	6.952	1	1828	43	1.4
45883.4	10000	41.1957	92.0185	-949	QK	2.9	1	7.5	1	1.1	1	0.387	0	2.679	1	6.921	1	1814	58	1.4
45883.5	10000	41.1957	92.0176	-949	QK	2.9	1	7.3	1	1.1	1	0.402	1	2.638	1	6.558	0	1816	37	1.4
45883.6	10000	41.1957	92.0166	-949	QK	3.0	1	6.9	1	1.1	1	0.435	1	2.842	1	6.526	0	1816	49	1.4
45883.7	10000	41.1957	92.0157	-949	QK	3.0	1	6.7	-1	1.1	1	0.463	2	2.844	1	6.139	0	1808	44	1.4
45883.8	10000	41.1957	92.0148	-949	QK	3.1	1	5.8	-2	1.1	1	0.523	2	2.716	1	5.192	-2	1801	47	1.4
45883.9	10000	41.1957	92.0139	-948	QK	3.0	1	6.4	-2	1.1	1	0.501	2	2.707	1	5.399	-2	1787	41	1.4
45884.0	10000	41.1957	92.0130	-948	QK	2.9	1	6.4	-1	1.1	1	0.469	2	2.648	1	5.641	-1	1776	47	1.4
45884.1	10000	41.1956	92.0121	-947	QK	2.8	1	6.4	-1	1.2	1	0.447	1	2.447	1	5.475	-1	1782	49	1.4
45884.2	10000	41.1957	92.0111	-947	QK	2.8	1	6.3	-1	1.2	1	0.445	1	2.369	1	5.326	-2	1779	49	1.4
45884.3	10000	41.1956	92.0102	-946	QK	2.6	1	6.5	-1	1.2	1	0.400	1	2.086	1	5.214	-2	1778	46	1.4
45884.4	10000	41.1956	92.0093	-945	QK	2.7	1	6.4	-1	1.2	1	0.423	1	2.283	1	5.403	-2	1764	56	1.4
45884.5	10000	41.1956	92.0084	-945	QK	2.6	1	6.9	0	1.2	1	0.373	1	2.226	1	5.961	-1	1748	53	1.4
45884.6	10000	41.1956	92.0075	-945	QK	2.5	0	7.0	0	1.2	1	0.350	0	2.106	0	6.019	-1	1756	27	1.4

LINE 340 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
45884.7	10000	41.1956	92.0066	-945	QK	2.3	0	6.7	-1	1.2	0	0.348	0	2.011	-1	5.777	-1	1754	50	1.4
45884.8	10000	41.1956	92.0056	-945	QK	2.3	0	6.5	-1	1.2	0	0.358	0	1.990	-1	5.550	-1	1733	43	1.4
45884.9	10000	41.1956	92.0047	-946	QK	2.5	0	6.6	-1	1.1	0	0.380	0	2.218	0	5.845	-1	1721	52	1.4
45885.0	10000	41.1956	92.0038	-948	QK	2.6	0	6.5	-1	1.1	0	0.392	1	2.285	0	5.835	-1	1718	50	1.4
45885.1	10000	41.1956	92.0029	-950	QK	2.4	0	6.7	-1	1.1	0	0.360	0	2.125	0	5.899	-1	1721	37	1.4
45885.2	10000	41.1956	92.0020	-952	QK	2.4	0	6.6	-1	1.2	0	0.366	0	2.061	0	5.625	-1	1725	52	1.4
45885.3	10000	41.1956	92.0011	-952	QK	2.2	-1	6.4	-1	1.2	1	0.346	0	1.833	-1	5.296	-2	1711	35	1.4

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46613.5	10000	41.1124	93.9976	-434	QKA	2.4	0	7.7	1	1.1	0	0.308	0	2.148	0	6.973	0	1789	48	1.3
46613.4	10000	41.1124	93.9967	-435	QKA	2.2	0	7.8	1	1.1	0	0.283	-1	1.961	-1	6.919	0	1799	48	1.3
46613.3	10000	41.1124	93.9959	-435	QKA	2.2	-1	7.8	1	1.1	0	0.275	-1	1.890	-1	6.884	0	1815	33	1.3
46613.2	10000	41.1123	93.9951	-435	QKA	2.2	0	7.8	1	1.2	1	0.286	-1	1.848	-1	6.456	0	1820	36	1.3
46613.1	10000	41.1123	93.9942	-436	QKA	2.3	0	8.0	1	1.3	1	0.293	-1	1.836	-1	6.266	-1	1839	57	1.3
46613.0	10000	41.1123	93.9934	-436	QKA	2.5	0	8.0	1	1.3	2	0.313	0	1.932	-1	6.172	-1	1852	48	1.3
46612.9	10000	41.1123	93.9925	-437	QKA	2.5	0	7.8	1	1.3	1	0.320	0	1.970	-1	6.153	-1	1847	58	1.3
46612.8	10000	41.1123	93.9917	-437	QKA	2.7	1	7.9	1	1.3	1	0.338	0	2.072	0	6.130	-1	1845	52	1.3
46612.7	10000	41.1123	93.9909	-438	QKA	2.8	1	7.7	1	1.3	1	0.363	0	2.185	0	6.015	-1	1844	43	1.3
46612.6	10000	41.1122	93.9900	-439	QKA	2.8	1	7.6	1	1.3	2	0.371	0	2.204	0	5.944	-1	1836	44	1.2
46612.5	10000	41.1122	93.9892	-440	QKA	2.8	1	7.7	1	1.3	1	0.359	0	2.157	0	6.016	-1	1834	47	1.2
46612.4	10000	41.1122	93.9884	-441	QKA	2.4	0	7.6	1	1.3	1	0.318	0	1.906	-1	5.985	-1	1835	34	1.2
46612.3	10000	41.1122	93.9875	-443	QKA	2.2	0	7.9	1	1.3	2	0.274	-1	1.629	-1	5.955	-1	1840	51	1.2
46612.2	10000	41.1122	93.9867	-444	QKA	2.4	0	7.6	1	1.4	2	0.314	0	1.739	-1	5.543	-1	1852	53	1.2
46612.1	10000	41.1121	93.9859	-445	QKA	2.5	0	7.2	1	1.3	2	0.339	0	1.871	-1	5.521	-1	1837	48	1.2
46612.0	10000	41.1121	93.9850	-447	QKA	2.5	0	7.1	0	1.2	1	0.355	0	2.041	0	5.742	-1	1812	38	1.2
46611.9	10000	41.1121	93.9842	-449	QKA	2.6	0	6.9	0	1.2	1	0.378	1	2.196	0	5.805	-1	1781	61	1.1
46611.8	10000	41.1121	93.9834	-451	QKA	2.7	1	7.0	0	1.1	0	0.391	1	2.465	0	6.303	0	1754	57	1.1
46611.7	10000	41.1121	93.9825	-453	QKA	2.9	1	6.7	-1	1.1	0	0.434	1	2.682	1	6.172	-1	1734	41	1.1
46611.6	10000	41.1120	93.9817	-455	QKA	3.1	1	6.4	-1	1.0	-1	0.478	2	3.063	2	6.408	0	1710	49	1.1
46611.5	10000	41.1120	93.9809	-457	QKA	2.8	1	6.6	-1	1.0	-1	0.423	1	2.910	1	6.881	0	1675	39	1.1
46611.4	10000	41.1120	93.9800	-459	QKA	2.5	0	7.1	0	1.0	-1	0.354	0	2.550	1	7.197	1	1648	48	1.1
46611.3	10000	41.1120	93.9792	-462	QKA	2.3	0	7.1	0	1.1	0	0.330	0	2.232	0	6.772	0	1644	41	1.1
46611.2	10000	41.1120	93.9784	-465	QKA	2.2	0	7.2	0	1.1	0	0.305	0	2.054	0	6.732	0	1644	39	1.1
46611.1	10000	41.1120	93.9775	-467	QKA	2.1	-1	6.9	0	1.1	0	0.306	0	1.968	-1	6.433	0	1642	43	1.1
46611.0	10000	41.1119	93.9767	-470	QKA	2.3	0	7.0	0	1.1	0	0.329	0	2.153	0	6.552	0	1633	55	1.1
46610.9	10000	41.1119	93.9758	-472	QKA	2.2	0	6.9	0	1.1	0	0.319	0	2.005	0	6.288	-1	1646	43	1.1
46610.8	10000	41.1119	93.9750	-475	QKA	2.4	0	6.9	0	1.1	0	0.343	0	2.129	0	6.205	-1	1663	57	1.1
46610.7	10000	41.1119	93.9742	-478	QKA	2.4	0	6.9	0	1.2	0	0.350	0	2.072	0	5.927	-1	1696	51	1.1
46610.6	10000	41.1119	93.9733	-481	QKA	2.6	0	7.1	0	1.1	0	0.362	0	2.323	0	6.416	0	1699	49	1.0
46610.5	10000	41.1118	93.9725	-484	QKA	2.8	1	7.2	0	1.1	0	0.393	1	2.647	1	6.734	0	1697	46	1.0
46610.4	10000	41.1118	93.9717	-487	QKA	2.8	1	7.3	0	1.1	0	0.380	1	2.574	1	6.775	0	1693	49	1.0
46610.3	10000	41.1118	93.9708	-490	QKA	2.6	1	7.3	0	1.1	0	0.356	0	2.461	0	6.911	0	1685	58	1.0
46610.2	10000	41.1118	93.9700	-494	QKA	2.5	0	7.2	0	1.1	0	0.343	0	2.325	0	6.786	0	1665	42	1.0
46610.1	10000	41.1118	93.9692	-497	QKA	2.4	0	7.3	0	1.1	0	0.322	0	2.156	0	6.703	0	1653	42	1.0
46610.0	10000	41.1117	93.9683	-501	QKA	2.1	-1	7.2	0	1.1	0	0.300	-1	2.042	0	6.810	0	1624	50	1.0
46609.9	10000	41.1117	93.9675	-504	QKA	2.0	-1	6.7	-1	1.1	0	0.294	-1	1.841	-1	6.256	-1	1597	43	1.0
46609.8	10000	41.1117	93.9667	-508	QKA	1.8	-1	6.6	-1	1.1	0	0.266	-1	1.645	-1	6.178	-1	1573	48	1.0
46609.7	10000	41.1117	93.9658	-512	QKA	1.6	-2	6.6	-1	1.0	0	0.245	-1	1.578	-1	6.433	0	1545	52	1.0
46609.6	10000	41.1117	93.9650	-516	QKA	1.5	-2	6.9	0	1.0	0	0.223	-2	1.514	-1	6.785	0	1534	50	1.0
46609.5	10000	41.1117	93.9642	-520	QKA	1.7	-1	6.8	0	1.0	-1	0.254	-1	1.758	-1	6.933	0	1530	42	1.0
46609.4	10000	41.1116	93.9633	-524	QKA	1.8	-1	6.4	-1	0.9	-1	0.284	-1	1.947	-1	6.854	0	1527	47	1.0
46609.3	10000	41.1116	93.9625	-529	QKA	2.1	-1	6.0	-1	0.9	-1	0.358	0	2.313	0	6.468	0	1521	44	1.0
46609.2	10000	41.1116	93.9617	-533	QKA	2.3	0	6.4	-1	0.9	-1	0.368	0	2.499	0	6.791	0	1542	55	1.0
46609.1	10000	41.1116	93.9608	-538	QKA	2.3	0	6.0	-2	1.0	-1	0.387	1	2.312	0	5.972	-1	1559	56	1.0
46609.0	10000	41.1116	93.9600	-543	QKA	2.4	0	6.2	-1	1.0	0	0.389	1	2.316	0	5.962	-1	1585	51	1.0
46608.9	10000	41.1115	93.9592	-548	QKA	2.4	0	5.9	-2	1.1	0	0.412	1	2.288	0	5.548	-1	1600	60	1.0
46608.8	10000	41.1115	93.9583	-552	QKA	2.3	0	5.7	-2	1.1	0	0.403	1	2.145	0	5.322	-2	1598	43	1.0
46608.7	10000	41.1115	93.9575	-558	QKA	2.1	-1	6.0	-2	1.1	-1	0.358	0	1.947	-1	5.443	-2	1583	42	1.0
46608.6	10000	41.1115	93.9566	-563	QKA	2.0	-1	6.2	-1	1.1	-1	0.324	0	1.845	-1	5.695	-1	1582	39	1.0
46608.5	10000	41.1115	93.9558	-568	QKA	1.9	-1	6.1	-1	1.1	-1	0.310	0	1.776	-1	5.738	-1	1564	46	1.0
46608.4	10000	41.1114	93.9550	-574	QKA	1.9	-1	6.5	-1	1.0	0	0.301	-1	1.898	-1	6.310	0	1568	52	1.0

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46608.3	10000	41.1114	93.9541	-580	QKA	1.9	-1	6.3	-1	1.0	0	0.297	-1	1.864	-1	6.271	-1	1558	57	1.0
46608.2	10000	41.1114	93.9533	-585	QKA	1.8	-1	6.4	-1	1.0	-1	0.290	-1	1.891	-1	6.532	0	1545	38	1.0
46608.1	10000	41.1114	93.9525	-588	QKA	1.9	-1	6.4	-1	0.9	-1	0.292	-1	2.048	0	7.004	0	1515	40	1.0
46608.0	10000	41.1114	93.9516	-596	QKA	1.9	-1	6.4	-1	0.9	-1	0.292	-1	2.139	0	7.326	1	1514	57	1.0
46607.9	10000	41.1114	93.9508	-604	QKA	1.9	-1	6.2	-1	0.9	-2	0.309	0	2.231	0	7.217	1	1506	43	1.0
46607.8	10000	41.1113	93.9500	-610	QKA	2.0	-1	6.3	-1	0.9	-1	0.323	0	2.270	0	7.038	0	1507	47	1.0
46607.7	10000	41.1113	93.9491	-616	QKA	1.9	-1	6.4	-1	0.9	-1	0.301	-1	2.066	0	6.852	0	1512	53	1.1
46607.6	10000	41.1113	93.9483	-621	QKA	2.2	0	6.7	-1	1.0	-1	0.327	0	2.184	0	6.687	0	1552	45	1.1
46607.5	10000	41.1113	93.9475	-626	QKA	2.2	0	6.7	-1	1.1	0	0.325	0	2.071	0	6.369	0	1564	45	1.1
46607.4	10000	41.1113	93.9466	-632	QKA	2.1	-1	7.3	0	1.1	0	0.289	-1	1.900	-1	6.574	0	1600	45	1.1
46607.3	10000	41.1112	93.9458	-636	QKA	2.0	-1	7.3	0	1.1	0	0.278	-1	1.787	-1	6.415	0	1610	41	1.1
46607.2	10000	41.1112	93.9450	-641	QKA	2.0	-1	7.2	0	1.1	0	0.284	-1	1.791	-1	6.304	0	1616	48	1.1
46607.1	10000	41.1112	93.9441	-646	QKA	2.0	-1	7.1	0	1.1	0	0.290	-1	1.825	-1	6.290	0	1613	54	1.1
46607.0	10000	41.1112	93.9433	-651	QKA	2.2	0	7.2	0	1.1	0	0.306	0	2.041	0	6.671	0	1611	49	1.1
46606.9	10000	41.1112	93.9425	-656	QKA	2.0	-1	6.8	0	1.0	0	0.290	-1	1.893	-1	6.527	0	1589	39	1.1
46606.8	10000	41.1111	93.9416	-659	QKA	2.0	-1	6.6	-1	1.0	-1	0.294	-1	1.960	-1	6.658	0	1581	38	1.1
46606.7	10000	41.1111	93.9408	-664	QKA	2.1	-1	6.1	-1	1.0	-1	0.339	0	2.069	0	6.109	-1	1589	52	1.1
46606.6	10000	41.1111	93.9400	-667	QKA	2.1	-1	6.0	-2	1.0	-1	0.344	0	2.072	0	6.017	-1	1574	44	1.1
46606.5	10000	41.1111	93.9391	-671	QKA	2.1	-1	6.0	-1	1.0	0	0.346	0	2.043	0	5.904	-1	1595	41	1.1
46606.4	10000	41.1111	93.9383	-675	QKA	2.1	-1	6.0	-2	1.1	0	0.357	0	2.013	0	5.638	-1	1630	45	1.1
46606.3	10000	41.1110	93.9375	-678	QKA	2.0	-1	6.2	-1	1.1	0	0.332	0	1.882	-1	5.662	-1	1661	44	1.1
46606.2	10000	41.1110	93.9366	-681	QKA	2.1	-1	6.3	-1	1.1	0	0.335	0	1.946	-1	5.805	-1	1679	49	1.1
46606.1	10000	41.1110	93.9358	-684	QKA	2.1	-1	6.4	-1	1.1	0	0.328	0	1.932	-1	5.898	-1	1681	40	1.1
46606.0	10000	41.1110	93.9350	-687	QKA	2.0	-1	6.8	0	1.0	0	0.293	-1	1.915	-1	6.533	0	1664	39	1.1
46605.9	10000	41.1110	93.9341	-690	QKA	2.2	0	6.9	0	1.1	0	0.316	0	2.034	0	6.441	0	1672	46	1.1
46605.8	10000	41.1109	93.9333	-693	QKA	2.1	-1	7.1	0	1.1	0	0.297	-1	1.959	-1	6.595	0	1656	49	1.1
46605.7	10000	41.1109	93.9324	-695	QKA	1.9	-1	7.0	0	1.0	0	0.268	-1	1.854	-1	6.919	0	1634	40	1.2
46605.6	10000	41.1109	93.9316	-698	QKA	2.0	-1	6.4	-1	1.0	0	0.317	0	1.978	-1	6.234	-1	1612	47	1.2
46605.5	10000	41.1109	93.9308	-700	QKA	2.2	0	6.5	-1	1.1	0	0.341	0	2.082	0	6.110	-1	1615	54	1.2
46605.4	10000	41.1109	93.9299	-702	QKA	2.1	-1	6.5	-1	1.1	0	0.321	0	1.953	-1	6.092	-1	1625	57	1.2
46605.3	10000	41.1108	93.9291	-703	QKA	2.2	0	6.7	-1	1.0	0	0.329	0	2.115	0	6.428	0	1637	53	1.2
46605.2	10000	41.1108	93.9283	-704	QKA	2.3	0	6.7	-1	1.0	0	0.349	0	2.317	0	6.645	0	1636	40	1.2
46605.1	10000	41.1108	93.9274	-706	QKA	2.4	0	6.6	-1	1.0	-1	0.366	0	2.501	0	6.827	0	1628	47	1.2
46605.0	10000	41.1108	93.9266	-707	QKA	2.5	0	6.6	-1	0.9	-1	0.382	1	2.709	1	7.087	0	1617	56	1.2
46604.9	10000	41.1108	93.9258	-708	QKA	2.4	0	6.7	-1	0.9	-1	0.360	0	2.703	1	7.501	1	1585	37	1.2
46604.8	10000	41.1107	93.9249	-709	QKA	2.3	0	6.2	-1	0.8	-2	0.373	1	2.812	1	7.530	1	1538	45	1.2
46604.7	10000	41.1107	93.9241	-710	QKA	2.3	0	6.3	-1	0.8	-2	0.363	0	2.848	1	7.841	1	1537	63	1.2
46604.6	10000	41.1107	93.9233	-710	QKA	2.2	0	5.9	-2	0.9	-1	0.377	1	2.536	1	6.736	0	1535	43	1.2
46604.5	10000	41.1107	93.9224	-711	QKA	1.9	-1	6.1	-1	0.9	-1	0.306	0	2.094	1	6.845	0	1554	48	1.2
46604.4	10000	41.1107	93.9216	-712	QKA	2.0	-1	6.2	-1	0.9	-1	0.322	0	2.170	0	6.740	0	1575	50	1.2
46604.3	10000	41.1107	93.9208	-712	QKA	1.9	-1	6.4	-1	0.9	-1	0.297	-1	2.041	0	6.877	0	1589	50	1.2
46604.2	10000	41.1106	93.9199	-713	QKA	1.9	-1	6.7	-1	1.0	-1	0.287	-1	1.981	-1	6.907	0	1631	48	1.2
46604.1	10000	41.1106	93.9191	-713	QKA	1.8	-1	7.3	0	1.0	0	0.250	-1	1.793	-1	7.160	1	1671	36	1.2
46604.0	10000	41.1106	93.9183	-712	QKA	1.9	-1	7.7	1	1.0	0	0.244	-1	1.816	-1	7.454	1	1664	48	1.2
46603.9	10000	41.1106	93.9174	-712	QKA	1.9	-1	7.3	0	1.0	-1	0.261	-1	1.979	-1	7.568	1	1653	50	1.2
46603.8	10000	41.1106	93.9166	-712	QKA	2.0	-1	7.2	0	0.9	-1	0.285	-1	2.157	0	7.561	1	1628	45	1.2
46603.7	10000	41.1105	93.9158	-711	QKA	1.8	-1	7.2	0	1.0	-1	0.253	-1	1.852	-1	7.323	1	1617	51	1.2
46603.6	10000	41.1105	93.9149	-710	QKA	2.0	-1	7.0	0	1.0	-1	0.287	-1	2.001	-1	6.973	1	1621	40	1.2
46603.5	10000	41.1105	93.9141	-710	QKA	2.0	-1	7.1	0	1.0	-1	0.289	-1	2.043	0	7.059	1	1619	52	1.2
46603.4	10000	41.1105	93.9133	-708	QKA	2.0	-1	7.3	0	1.0	-1	0.272	-1	2.069	0	7.603	1	1611	44	1.3
46603.3	10000	41.1105	93.9124	-707	QKA	2.0	-1	7.1	0	1.0	-1	0.279	-1	2.042	0	7.310	1	1630	48	1.3
46603.2	10000	41.1104	93.9116	-706	QKA	2.0	-1	7.3	0	1.0	-1	0.272	-1	2.040	0	7.488	1	1640	48	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46603.1	10000	41.1104	93.9107	-705	QKA	1.9	-1	7.6	1	1.0	-1	0.249	-1	1.901	-1	7.627	1	1671	50	1.3
46603.0	10000	41.1104	93.9099	-704	QKA	2.0	-1	7.8	1	1.0	0	0.254	-1	1.943	-1	7.647	1	1697	41	1.3
46602.9	10000	41.1104	93.9091	-702	QKA	1.9	-1	7.9	1	1.0	0	0.235	-1	1.809	-1	7.697	1	1721	49	1.3
46602.8	10000	41.1104	93.9082	-701	QKA	1.8	-1	7.6	1	1.1	0	0.243	-1	1.689	-1	6.944	0	1751	51	1.3
46602.7	10000	41.1104	93.9074	-700	QKA	2.2	-1	7.5	0	1.1	0	0.288	-1	1.924	-1	6.671	0	1766	38	1.3
46602.6	10000	41.1103	93.9066	-699	QKA	2.2	0	7.4	0	1.1	0	0.303	-1	2.073	0	6.848	0	1777	47	1.3
46602.5	10000	41.1103	93.9057	-698	QKA	2.2	0	7.5	0	1.1	0	0.291	-1	1.908	-1	6.553	0	1797	54	1.3
46602.4	10000	41.1103	93.9049	-696	QKA	2.2	0	7.8	1	1.2	1	0.287	-1	1.918	-1	6.682	0	1795	47	1.3
46602.3	10000	41.1103	93.9041	-695	QKA	2.3	0	8.1	1	1.1	0	0.283	-1	2.022	0	7.144	1	1801	45	1.3
46602.2	10000	41.1103	93.9032	-694	QKA	2.3	0	8.2	1	1.2	1	0.276	-1	1.929	-1	6.988	0	1801	40	1.3
46602.1	10000	41.1103	93.9024	-693	QKA	2.2	0	8.4	2	1.2	1	0.265	-1	1.933	-1	7.287	1	1795	46	1.3
46602.0	10000	41.1104	93.9016	-692	QKA	2.0	-1	8.5	2	1.2	1	0.241	-1	1.737	-1	7.222	1	1801	53	1.3
46601.9	10000	41.1104	93.9008	-691	QKA	2.1	-1	8.5	2	1.2	1	0.245	-1	1.680	-1	6.866	0	1809	49	1.3
46601.8	10000	41.1104	93.8999	-690	QKA	2.2	0	8.7	2	1.3	1	0.253	-1	1.759	-1	6.950	0	1817	46	1.3
46601.7	10000	41.1105	93.8991	-690	QKA	2.2	0	8.3	1	1.2	1	0.271	-1	1.811	-1	6.683	0	1822	51	1.3
46601.6	10000	41.1105	93.8983	-689	QKA	2.2	0	7.9	1	1.2	1	0.278	-1	1.778	-1	6.406	0	1816	39	1.3
46601.5	10000	41.1105	93.8974	-689	QKA	2.2	0	7.7	1	1.2	1	0.289	-1	1.862	-1	6.437	0	1810	45	1.3
46601.4	10000	41.1105	93.8966	-689	QKA	2.3	0	8.1	1	1.2	1	0.276	-1	1.880	-1	6.806	0	1819	30	1.3
46601.3	10000	41.1106	93.8958	-689	QKA	2.3	0	8.1	1	1.2	1	0.287	-1	1.917	-1	6.678	0	1830	40	1.3
46601.2	10000	41.1106	93.8950	-690	QKA	2.4	0	7.9	1	1.2	1	0.301	-1	2.030	0	6.746	0	1822	47	1.3
46601.1	10000	41.1106	93.8941	-690	QKA	2.2	-1	7.9	1	1.2	1	0.272	-1	1.863	-1	6.862	0	1830	41	1.3
46601.0	10000	41.1107	93.8933	-690	QKA	2.2	0	7.8	1	1.2	1	0.277	-1	1.842	-1	6.642	0	1824	39	1.3
46600.9	10000	41.1107	93.8925	-691	QKA	2.1	-1	7.8	1	1.2	1	0.274	-1	1.834	-1	6.683	0	1813	43	1.3
46600.8	10000	41.1107	93.8917	-691	QKA	2.1	-1	7.7	1	1.1	0	0.273	-1	1.835	-1	6.712	0	1787	45	1.3
46600.7	10000	41.1107	93.8908	-692	QKA	2.0	-1	7.3	0	1.1	1	0.278	-1	1.776	-1	6.392	0	1758	49	1.3
46600.6	10000	41.1108	93.8900	-693	QKA	2.1	-1	7.2	0	1.1	0	0.290	-1	1.878	-1	6.483	0	1731	44	1.3
46600.5	10000	41.1108	93.8892	-695	QKA	2.1	-1	7.4	0	1.1	1	0.284	-1	1.902	-1	6.691	0	1725	46	1.3
46600.4	10000	41.1108	93.8884	-696	QKA	2.5	0	7.4	0	1.1	0	0.331	0	2.288	0	6.907	0	1700	37	1.3
46600.3	10000	41.1109	93.8875	-695	QKA	2.4	0	7.1	0	1.1	0	0.336	0	2.246	0	6.692	0	1691	45	1.3
46600.2	10000	41.1109	93.8867	-696	QKA	2.3	0	7.1	0	1.1	0	0.327	0	2.047	-1	6.260	-1	1702	48	1.3
46600.1	10000	41.1109	93.8859	-698	QKA	2.4	0	7.3	0	1.1	0	0.329	0	2.088	0	6.354	0	1711	48	1.3
46600.0	10000	41.1110	93.8851	-698	QKA	2.5	0	7.3	0	1.1	0	0.339	0	2.209	0	6.523	0	1720	42	1.3
46599.9	10000	41.1110	93.8842	-696	QKA	2.3	0	7.5	0	1.1	0	0.310	0	2.103	0	6.776	0	1720	35	1.3
46599.8	10000	41.1110	93.8834	-697	QKA	2.2	0	7.4	0	1.1	0	0.296	-1	1.938	-1	6.551	0	1715	58	1.3
46599.7	10000	41.1111	93.8826	-704	QKA	2.2	0	7.2	0	1.2	1	0.311	-1	1.913	-1	6.154	-1	1733	48	1.3
46599.6	10000	41.1111	93.8817	-707	QKA	2.4	0	7.6	1	1.1	0	0.316	0	2.107	0	6.660	0	1747	46	1.3
46599.5	10000	41.1111	93.8809	-707	QKA	2.6	0	7.6	1	1.1	0	0.346	0	2.383	0	6.889	0	1746	58	1.3
46599.4	10000	41.1111	93.8801	-707	QKA	2.6	0	7.5	1	1.1	0	0.348	0	2.357	0	6.774	0	1744	38	1.3
46599.3	10000	41.1112	93.8793	-709	QKA	2.6	0	7.6	1	1.1	0	0.341	0	2.394	0	7.010	0	1729	50	1.3
46599.2	10000	41.1112	93.8784	-713	QKA	2.6	0	7.1	0	1.1	0	0.357	0	2.340	0	6.548	0	1716	54	1.3
46599.1	10000	41.1112	93.8776	-715	QKA	2.6	0	7.4	1	1.1	0	0.347	0	2.403	0	6.920	0	1714	49	1.3
46599.0	10000	41.1113	93.8768	-717	QKA	2.3	0	7.2	0	1.0	-1	0.323	0	2.347	1	7.267	1	1675	42	1.3
46598.9	10000	41.1113	93.8760	-718	QKA	2.2	-1	7.3	1	1.0	-1	0.297	-1	2.256	1	7.588	1	1655	45	1.3
46598.8	10000	41.1113	93.8751	-719	QKA	2.1	-1	7.4	1	0.9	-1	0.286	-1	2.335	2	8.169	2	1624	50	1.3
46598.7	10000	41.1114	93.8743	-721	QKA	2.1	-1	7.4	1	0.9	-2	0.282	-1	2.450	2	8.682	2	1608	46	1.3
46598.6	10000	41.1114	93.8735	-722	QKA	2.2	-1	6.8	1	0.9	-2	0.308	-1	2.438	2	7.917	2	1586	45	1.3
46598.5	10000	41.1114	93.8727	-724	QKA	2.2	-1	6.9	1	0.9	-2	0.311	-1	2.518	2	8.107	2	1577	29	1.3
46598.4	10000	41.1114	93.8718	-726	QKA	2.2	0	6.6	0	0.9	-2	0.340	-1	2.629	1	7.724	1	1563	44	1.3
46598.3	10000	41.1115	93.8710	-727	QKA	2.2	0	6.8	0	0.9	-1	0.324	-1	2.464	1	7.598	1	1565	42	1.3
46598.2	10000	41.1115	93.8702	-729	QKA	2.1	-1	6.8	0	0.9	-1	0.322	-1	2.400	1	7.445	1	1572	45	1.3
46598.1	10000	41.1115	93.8694	-730	QKA	2.1	-1	6.7	-1	0.9	-1	0.311	-1	2.230	1	7.168	1	1599	46	1.3
46598.0	10000	41.1116	93.8685	-732	QKA	2.1	-1	6.5	-1	1.0	0	0.328	0	2.125	0	6.472	0	1620	46	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46597.9	10000	41.1116	93.8677	-734	QKA	2.1	-1	7.0	0	1.0	0	0.305	0	2.066	0	6.769	0	1645	45	1.3
46597.8	10000	41.1116	93.8669	-736	QKA	2.1	-1	7.0	0	1.0	-1	0.299	-1	2.065	0	6.918	0	1660	47	1.3
46597.7	10000	41.1116	93.8660	-737	QKA	2.0	-1	6.9	0	1.1	0	0.286	-1	1.859	-1	6.506	0	1666	39	1.3
46597.6	10000	41.1117	93.8652	-739	QKA	1.9	-1	6.8	0	1.1	0	0.280	-1	1.780	-1	6.362	0	1664	55	1.3
46597.5	10000	41.1117	93.8644	-741	QKA	2.0	-1	6.3	-1	1.1	0	0.310	0	1.831	-1	5.905	-1	1652	44	1.3
46597.4	10000	41.1117	93.8636	-743	QKA	2.2	0	6.4	-1	1.1	0	0.341	0	2.026	0	5.939	-1	1635	49	1.3
46597.3	10000	41.1118	93.8627	-745	QKA	2.2	0	6.5	-1	1.0	0	0.340	0	2.144	0	6.301	0	1624	53	1.3
46597.2	10000	41.1118	93.8619	-746	QKA	2.1	-1	6.7	-1	1.0	0	0.322	0	2.123	0	6.597	0	1609	48	1.3
46597.1	10000	41.1118	93.8611	-748	QKA	2.2	0	6.5	-1	1.0	0	0.340	0	2.136	0	6.282	-1	1600	57	1.3
46597.0	10000	41.1118	93.8603	-750	QKA	2.2	0	6.5	-1	1.0	-1	0.343	0	2.280	0	6.652	0	1594	40	1.3
46596.9	10000	41.1119	93.8594	-752	QKA	2.3	0	6.4	-1	0.9	-1	0.360	0	2.498	0	6.944	0	1593	42	1.3
46596.8	10000	41.1119	93.8586	-753	QKA	2.3	0	6.7	-1	0.9	-1	0.338	0	2.387	0	7.057	0	1591	35	1.3
46596.7	10000	41.1119	93.8578	-755	QKA	2.0	-1	6.8	0	0.9	-1	0.299	-1	2.181	0	7.300	1	1595	38	1.3
46596.6	10000	41.1120	93.8569	-757	QKA	1.7	-1	6.8	0	0.9	-1	0.252	-1	1.870	-1	7.418	1	1601	42	1.3
46596.5	10000	41.1120	93.8561	-758	QKA	1.8	-1	6.4	-1	0.9	-1	0.284	-1	1.978	-1	6.966	0	1604	59	1.3
46596.4	10000	41.1120	93.8553	-760	QKA	2.0	-1	6.8	0	0.9	-1	0.295	-1	2.106	0	7.138	1	1631	39	1.3
46596.3	10000	41.1121	93.8545	-762	QKA	2.1	-1	6.7	-1	1.0	-1	0.307	0	2.155	0	7.013	0	1649	46	1.3
46596.2	10000	41.1121	93.8536	-764	QKA	2.0	-1	7.1	0	1.0	-1	0.281	-1	2.086	0	7.428	1	1667	58	1.3
46596.1	10000	41.1121	93.8528	-765	QKA	2.1	-1	7.1	0	0.9	-1	0.299	-1	2.273	0	7.602	1	1682	42	1.3
46596.0	10000	41.1122	93.8520	-767	QKA	2.3	0	7.2	0	1.0	-1	0.325	0	2.441	0	7.513	1	1700	40	1.3
46595.9	10000	41.1122	93.8512	-769	QKA	2.6	1	7.2	0	1.0	-1	0.365	0	2.621	1	7.184	1	1711	29	1.3
46595.8	10000	41.1122	93.8503	-771	QKA	2.7	1	7.6	1	1.0	-1	0.353	0	2.650	1	7.516	1	1716	49	1.3
46595.7	10000	41.1122	93.8495	-773	QKA	2.4	0	7.5	0	1.0	-1	0.324	0	2.429	0	7.493	1	1704	42	1.3
46595.6	10000	41.1123	93.8487	-774	QKA	2.3	0	7.3	0	1.0	0	0.310	0	2.177	0	7.033	0	1707	48	1.3
46595.5	10000	41.1123	93.8479	-776	QKA	2.4	0	7.0	0	1.1	0	0.341	0	2.172	0	6.362	0	1701	46	1.3
46595.4	10000	41.1123	93.8470	-777	QKA	2.3	0	7.0	0	1.1	0	0.331	0	2.074	0	6.257	-1	1686	51	1.3
46595.3	10000	41.1124	93.8462	-779	QKA	2.2	0	6.9	0	1.1	0	0.318	0	1.970	-1	6.200	-1	1673	38	1.3
46595.2	10000	41.1124	93.8454	-780	QKA	1.8	-1	6.8	0	1.1	0	0.268	-1	1.709	-1	6.373	0	1646	50	1.3
46595.1	10000	41.1124	93.8445	-782	QKA	1.7	-1	6.8	0	1.1	0	0.246	-1	1.509	-1	6.131	-1	1643	37	1.3
46595.0	10000	41.1124	93.8437	-785	QKA	1.7	-1	6.9	0	1.1	0	0.249	-1	1.562	-1	6.280	-1	1635	46	1.3
46594.9	10000	41.1125	93.8429	-788	QKA	1.8	-1	7.6	1	1.0	0	0.243	-1	1.815	-1	7.473	1	1617	47	1.3
46594.8	10000	41.1125	93.8421	-790	QKA	1.7	-2	7.7	1	1.0	-1	0.218	-2	1.699	-1	7.808	1	1614	39	1.3
46594.7	10000	41.1125	93.8412	-793	QKA	1.6	-2	7.9	1	1.0	-1	0.207	-2	1.644	-1	7.934	2	1613	42	1.3
46594.6	10000	41.1126	93.8404	-795	QKA	1.6	-2	7.6	1	1.0	0	0.204	-2	1.528	-1	7.477	1	1605	57	1.3
46594.5	10000	41.1126	93.8396	-799	QKA	1.9	-1	7.6	1	1.0	0	0.253	-1	1.875	-1	7.399	1	1628	57	1.3
46594.4	10000	41.1126	93.8388	-802	QKA	2.0	-1	7.3	0	1.0	0	0.267	-1	1.917	-1	7.173	1	1643	38	1.3
46594.3	10000	41.1127	93.8379	-805	QKA	2.1	-1	7.5	0	1.0	0	0.287	-1	2.069	0	7.209	1	1669	43	1.3
46594.2	10000	41.1127	93.8371	-808	QKA	2.2	0	7.4	0	1.0	0	0.298	-1	2.153	0	7.223	1	1675	41	1.3
46594.1	10000	41.1127	93.8363	-811	QKA	2.2	0	7.3	0	1.1	0	0.307	0	2.113	0	6.872	0	1693	40	1.2
46594.0	10000	41.1127	93.8354	-814	QKA	2.5	0	7.3	0	1.1	0	0.345	0	2.320	0	6.720	0	1717	44	1.2
46593.9	10000	41.1128	93.8346	-817	QKA	2.8	1	7.2	0	1.1	0	0.380	0	2.500	0	6.573	0	1742	47	1.2
46593.8	10000	41.1128	93.8338	-821	QKA	2.7	1	7.5	0	1.1	0	0.362	0	2.416	0	6.666	0	1767	51	1.2
46593.7	10000	41.1128	93.8330	-825	QKA	2.8	1	7.7	0	1.1	0	0.363	0	2.498	0	6.885	0	1789	48	1.2
46593.6	10000	41.1129	93.8322	-829	QKA	2.8	1	7.7	0	1.1	0	0.358	0	2.488	0	6.948	0	1801	47	1.2
46593.5	10000	41.1129	93.8313	-832	QKA	2.9	1	7.9	0	1.2	0	0.367	0	2.393	0	6.522	0	1832	57	1.2
46593.4	10000	41.1129	93.8305	-836	QKA	2.8	1	8.0	1	1.2	0	0.355	0	2.392	0	6.741	0	1847	33	1.2
46593.3	10000	41.1130	93.8297	-840	QKA	2.6	1	8.1	1	1.2	0	0.318	0	2.265	0	7.120	1	1856	46	1.2
46593.2	10000	41.1130	93.8288	-844	QKA	2.5	1	8.4	1	1.2	0	0.303	-1	2.219	0	7.327	1	1880	31	1.2
46593.1	10000	41.1130	93.8280	-847	QKA	2.4	1	8.4	1	1.2	0	0.298	-1	2.030	0	6.809	1	1892	43	1.2
46593.0	10000	41.1131	93.8272	-851	QKA	2.4	1	8.3	1	1.2	0	0.289	-1	1.979	-1	6.840	1	1895	34	1.2
46592.9	10000	41.1131	93.8264	-854	QKA	2.4	1	8.3	1	1.2	0	0.290	-1	1.933	-1	6.661	1	1900	49	1.2
46592.8	10000	41.1131	93.8255	-858	QKA	2.3	1	8.1	1	1.2	1	0.287	-1	1.892	-1	6.600	0	1899	49	1.2

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46592.7	10000	41.1131	93.8247	-862	QKA	2.6	0	8.1	1	1.2	1	0.318	0	2.070	0	6.515	0	1890	48	1.2
46592.6	10000	41.1132	93.8239	-866	QKA	2.8	1	8.0	1	1.3	1	0.348	0	2.187	0	6.283	-1	1885	40	1.2
46592.5	10000	41.1132	93.8231	-870	QKA	2.7	1	8.1	1	1.3	2	0.337	0	2.117	0	6.273	-1	1866	40	1.2
46592.4	10000	41.1132	93.8222	-874	QKA	2.7	1	8.1	1	1.2	1	0.326	0	2.184	0	6.709	0	1830	54	1.2
46592.3	10000	41.1133	93.8214	-878	QKA	2.5	0	8.2	1	1.2	1	0.299	-1	2.073	0	6.928	0	1787	50	1.2
46592.2	10000	41.1133	93.8206	-882	QKA	2.5	0	8.1	1	1.2	1	0.311	0	2.052	0	6.598	0	1772	46	1.2
46592.1	10000	41.1133	93.8197	-885	QKA	2.5	0	7.6	1	1.2	1	0.333	0	2.066	0	6.208	-1	1754	63	1.2
46592.0	10000	41.1133	93.8189	-887	QKA	2.5	0	7.8	1	1.2	1	0.321	0	2.026	0	6.315	0	1756	43	1.2
46591.9	10000	41.1134	93.8181	-889	QKA	2.4	0	7.6	1	1.2	1	0.316	0	1.930	-1	6.102	-1	1752	46	1.1
46591.8	10000	41.1134	93.8173	-891	QKA	2.6	0	7.4	0	1.2	1	0.356	0	2.134	0	5.995	-1	1756	39	1.1
46591.7	10000	41.1134	93.8164	-893	QKA	2.6	0	7.3	0	1.2	1	0.354	0	2.129	0	6.015	-1	1763	45	1.1
46591.6	10000	41.1135	93.8156	-896	QKA	2.9	1	7.0	0	1.2	1	0.405	1	2.344	0	5.787	-1	1780	42	1.1
46591.5	10000	41.1135	93.8148	-899	QKA	2.7	1	7.3	0	1.2	1	0.367	0	2.293	0	6.245	-1	1752	42	1.1
46591.4	10000	41.1135	93.8140	-901	QKA	2.6	0	7.5	0	1.1	0	0.345	0	2.316	0	6.720	0	1736	51	1.1
46591.3	10000	41.1135	93.8131	-904	QKA	2.7	1	7.4	0	1.1	0	0.370	0	2.454	0	6.630	0	1730	38	1.1
46591.2	10000	41.1136	93.8123	-907	QKA	2.7	1	7.5	0	1.1	0	0.357	0	2.413	0	6.764	0	1718	66	1.1
46591.1	10000	41.1136	93.8115	-909	QKA	2.2	0	7.8	1	1.1	0	0.283	-1	2.066	0	7.290	1	1693	42	1.1
46591.0	10000	41.1136	93.8107	-911	QKA	2.2	0	7.8	1	1.1	0	0.289	-1	2.075	0	7.190	1	1676	49	1.1
46590.9	10000	41.1137	93.8098	-914	QKA	2.2	0	7.7	1	1.1	0	0.280	-1	2.024	0	7.223	1	1653	35	1.1
46590.8	10000	41.1137	93.8090	-916	QKA	2.1	-1	7.4	0	1.1	0	0.289	-1	2.007	0	6.940	0	1648	51	1.1
46590.7	10000	41.1137	93.8082	-918	QKA	2.3	0	7.4	0	1.1	0	0.304	0	2.084	0	6.846	0	1630	48	1.1
46590.6	10000	41.1138	93.8073	-921	QKA	2.0	-1	7.3	0	1.0	0	0.273	-1	1.924	-1	7.053	0	1605	39	1.1
46590.5	10000	41.1138	93.8065	-923	QKA	1.8	-1	7.4	0	1.0	-1	0.245	-1	1.838	-1	7.507	1	1594	53	1.1
46590.4	10000	41.1138	93.8057	-925	QKA	1.9	-1	7.5	0	1.0	0	0.258	-1	1.863	-1	7.226	1	1600	47	1.1
46590.3	10000	41.1138	93.8049	-927	QKA	1.8	-1	7.4	0	1.0	-1	0.237	-1	1.789	-1	7.546	1	1592	25	1.1
46590.2	10000	41.1139	93.8040	-929	QKA	1.8	-1	7.4	0	1.0	0	0.242	-1	1.778	-1	7.349	1	1613	46	1.1
46590.1	10000	41.1139	93.8032	-931	QKA	1.7	-1	7.8	1	1.0	0	0.215	-2	1.636	-1	7.598	1	1635	42	1.1
46590.0	10000	41.1139	93.8024	-933	QKA	1.6	-2	8.0	1	1.0	0	0.204	-2	1.554	-1	7.607	1	1672	50	1.1
46589.9	10000	41.1140	93.8016	-935	QKA	1.8	-1	8.0	1	1.1	0	0.220	-2	1.608	-1	7.293	1	1692	45	1.1
46589.8	10000	41.1140	93.8007	-936	QKA	1.9	-1	8.1	1	1.1	0	0.232	-2	1.680	-1	7.242	1	1702	42	1.1
46589.7	10000	41.1140	93.7999	-938	QKA	2.0	-1	7.6	1	1.1	0	0.259	-1	1.805	-1	6.980	0	1690	43	1.1
46589.6	10000	41.1141	93.7991	-940	QKA	2.2	0	7.3	0	1.1	0	0.309	-1	1.971	-1	6.376	0	1701	48	1.1
46589.5	10000	41.1141	93.7982	-942	QKA	2.1	-1	7.4	0	1.1	0	0.287	-1	1.886	-1	6.570	0	1692	43	1.1
46589.4	10000	41.1141	93.7974	-943	QKA	2.4	0	7.0	0	1.1	0	0.339	0	2.112	0	6.238	-1	1705	52	1.1
46589.3	10000	41.1141	93.7966	-945	QKA	2.5	0	7.1	0	1.1	0	0.349	0	2.225	0	6.375	0	1704	44	1.1
46589.2	10000	41.1142	93.7958	-946	QKA	2.3	0	7.1	0	1.1	0	0.331	0	2.205	0	6.667	0	1690	50	1.1
46589.1	10000	41.1142	93.7950	-947	QKA	2.2	0	6.9	0	1.1	0	0.315	0	2.020	0	6.421	0	1682	46	1.1
46589.0	10000	41.1142	93.7941	-949	QKA	2.1	-1	7.1	0	1.1	0	0.296	-1	1.934	-1	6.527	0	1678	41	1.1
46588.9	10000	41.1143	93.7933	-950	QKA	2.2	0	7.7	0	1.1	0	0.281	-1	2.014	0	7.172	1	1667	41	1.1
46588.8	10000	41.1143	93.7925	-951	QKA	2.3	0	7.4	0	1.0	0	0.308	-1	2.262	0	7.336	1	1654	51	1.1
46588.7	10000	41.1143	93.7916	-953	QKA	2.2	-1	7.8	0	0.9	0	0.275	-1	2.275	0	8.281	2	1615	37	1.1
46588.6	10000	41.1143	93.7908	-954	QKA	2.1	-1	7.5	0	0.9	0	0.276	-1	2.191	0	7.930	2	1582	50	1.1
46588.5	10000	41.1144	93.7900	-955	QKA	2.2	0	7.2	0	0.9	0	0.301	-1	2.235	0	7.433	1	1573	48	1.1
46588.4	10000	41.1144	93.7892	-956	QKA	2.3	0	7.2	0	0.9	0	0.321	-1	2.472	0	7.704	1	1583	39	1.1
46588.3	10000	41.1144	93.7883	-957	QKA	2.4	0	7.4	0	0.9	0	0.324	-1	2.698	0	8.319	2	1589	42	1.1
46588.2	10000	41.1145	93.7875	-957	QKA	2.1	-1	7.1	0	0.9	0	0.294	-1	2.341	0	7.951	2	1599	39	1.1
46588.1	10000	41.1145	93.7867	-958	QKA	2.1	-1	7.4	0	1.0	0	0.284	-1	2.086	0	7.354	1	1605	49	1.1
46588.0	10000	41.1145	93.7859	-959	QKA	2.0	-1	7.3	0	1.0	0	0.272	-1	1.959	-1	7.196	1	1625	42	1.1
46587.9	10000	41.1145	93.7850	-960	QKA	2.1	-1	7.5	0	1.0	0	0.269	-1	2.036	0	7.566	1	1635	53	1.1
46587.8	10000	41.1146	93.7842	-960	QKA	2.1	-1	7.9	0	1.0	0	0.261	-1	2.143	0	8.224	2	1632	44	1.1
46587.7	10000	41.1146	93.7834	-961	QKA	2.2	0	7.7	0	1.0	0	0.284	-1	2.252	0	7.940	2	1630	47	1.1
46587.6	10000	41.1146	93.7825	-961	QKA	2.1	-1	7.5	0	1.0	-1	0.273	-1	2.106	0	7.706	1	1613	45	1.1

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46587.5	10000	41.1147	93.7817	-962	QKA	2.1	-1	7.5	1	1.0	-1	0.279	-1	2.203	0	7.892	1	1605	47	1.1
46587.4	10000	41.1147	93.7809	-962	QKA	2.2	-1	7.9	1	0.9	-2	0.274	-1	2.506	0	9.157	3	1617	47	1.1
46587.3	10000	41.1147	93.7801	-963	QKA	2.5	0	7.7	1	0.9	-1	0.329	0	2.832	1	8.611	2	1630	50	1.1
46587.2	10000	41.1147	93.7792	-963	QKA	2.5	0	7.7	1	0.9	-1	0.329	0	2.784	1	8.475	2	1650	50	1.1
46587.1	10000	41.1147	93.7784	-964	QKA	2.6	1	7.9	1	1.0	-1	0.337	0	2.751	1	8.171	2	1687	52	1.1
46587.0	10000	41.1147	93.7775	-964	QKA	2.6	0	7.9	1	1.0	-1	0.324	0	2.617	1	8.067	2	1701	41	1.1
46586.9	10000	41.1147	93.7766	-964	QKA	2.5	0	8.1	1	1.0	0	0.313	0	2.445	0	7.812	1	1735	37	1.1
46586.8	10000	41.1147	93.7758	-964	QKA	2.5	0	8.1	1	1.1	0	0.307	0	2.356	0	7.664	1	1745	45	1.1
46586.7	10000	41.1147	93.7749	-965	QKA	2.4	0	7.7	1	1.1	0	0.318	0	2.230	0	7.013	0	1749	50	1.1
46586.6	10000	41.1147	93.7741	-965	QKA	2.3	0	7.5	0	1.1	0	0.301	-1	2.081	0	6.919	0	1739	57	1.1
46586.5	10000	41.1147	93.7732	-965	QKA	2.2	0	7.6	1	1.1	0	0.291	-1	2.023	0	6.949	0	1717	53	1.1
46586.4	10000	41.1147	93.7724	-966	QKA	2.1	-1	7.6	1	1.0	0	0.276	-1	2.032	0	7.353	1	1690	37	1.1
46586.3	10000	41.1147	93.7715	-966	QKA	2.2	0	7.7	1	1.0	-1	0.280	-1	2.242	0	8.008	2	1659	46	1.2
46586.2	10000	41.1147	93.7707	-967	QKA	2.3	0	7.5	1	0.9	-1	0.298	-1	2.412	0	8.103	2	1659	42	1.2
46586.1	10000	41.1147	93.7698	-967	QKA	2.3	0	7.5	0	0.9	-1	0.308	0	2.533	1	8.219	2	1659	45	1.2
46586.0	10000	41.1147	93.7690	-967	QKA	2.3	0	7.3	0	0.9	-1	0.317	0	2.524	1	7.974	2	1654	41	1.2
46585.9	10000	41.1147	93.7681	-966	QKA	2.5	0	7.5	1	0.9	-1	0.330	0	2.750	1	8.339	2	1662	47	1.2
46585.8	10000	41.1147	93.7672	-966	QKA	2.7	1	7.4	0	0.9	-1	0.370	0	3.024	2	8.169	2	1691	53	1.2
46585.7	10000	41.1147	93.7664	-966	QKA	2.6	0	7.0	0	0.9	-1	0.368	0	2.734	1	7.424	1	1708	42	1.2
46585.6	10000	41.1147	93.7655	-966	QKA	2.5	0	6.9	0	1.1	0	0.367	0	2.391	0	6.511	0	1745	40	1.2
46585.5	10000	41.1147	93.7647	-966	QKA	2.6	1	6.9	0	1.1	0	0.382	1	2.502	1	6.548	0	1767	44	1.2
46585.4	10000	41.1147	93.7638	-966	QKA	2.9	1	6.9	0	1.0	0	0.429	1	2.812	1	6.548	0	1787	26	1.2
46585.3	10000	41.1147	93.7630	-966	QKA	3.0	1	7.3	0	1.1	0	0.416	1	2.832	1	6.801	0	1803	41	1.2
46585.2	10000	41.1147	93.7621	-966	QKA	3.0	1	7.2	0	1.1	0	0.412	1	2.678	1	6.498	0	1810	38	1.2
46585.1	10000	41.1147	93.7613	-966	QKA	2.7	1	6.8	0	1.1	0	0.398	1	2.365	0	5.942	-1	1806	45	1.2
46585.0	10000	41.1147	93.7604	-966	QKA	3.0	1	6.7	-1	1.2	1	0.446	2	2.586	1	5.792	-1	1795	52	1.2
46584.9	10000	41.1147	93.7596	-967	QKA	2.4	1	6.3	-1	1.1	1	0.533	2	3.089	2	5.797	-1	1788	36	1.2
46584.8	10000	41.1147	93.7587	-967	QKA	2.3	1	6.2	-1	1.1	1	0.538	2	3.091	2	5.746	-1	1756	47	1.2
46584.7	10000	41.1147	93.7578	-967	QKA	2.2	1	6.1	-1	1.1	1	0.524	2	2.882	1	5.496	-1	1739	47	1.2
46584.6	10000	41.1147	93.7570	-968	QKA	2.2	1	6.2	-1	1.1	1	0.512	2	2.964	1	5.789	-1	1734	39	1.2
46584.5	10000	41.1147	93.7561	-968	QKA	2.2	1	6.0	-2	1.1	1	0.532	2	2.961	1	5.565	-1	1719	42	1.2
46584.4	10000	41.1147	93.7553	-969	QKA	2.0	1	6.8	0	1.1	1	0.445	2	2.887	1	6.491	0	1706	45	1.2
46584.3	10000	41.1147	93.7544	-970	QKA	2.8	1	6.9	0	1.0	1	0.411	2	2.788	1	6.780	0	1707	36	1.2
46584.2	10000	41.1147	93.7536	-970	QKA	2.7	1	7.3	0	1.0	1	0.370	2	2.581	1	6.982	0	1714	55	1.2
46584.1	10000	41.1147	93.7527	-970	QKA	2.6	1	7.1	0	1.0	1	0.369	2	2.526	1	6.850	0	1718	47	1.2
46584.0	10000	41.1147	93.7519	-972	QKA	2.6	1	7.2	0	1.0	1	0.367	2	2.562	1	6.981	0	1718	48	1.2
46583.9	10000	41.1146	93.7510	-972	QKA	2.6	1	6.6	-1	1.0	1	0.394	2	2.635	1	6.679	0	1700	57	1.2
46583.8	10000	41.1146	93.7502	-972	QKA	2.7	1	6.8	0	1.0	1	0.395	2	2.832	2	7.169	1	1710	45	1.2
46583.7	10000	41.1146	93.7493	-973	QKA	2.8	1	6.6	-1	0.9	1	0.428	2	3.019	2	7.056	1	1719	46	1.2
46583.6	10000	41.1146	93.7484	-974	QKA	2.7	1	6.9	0	0.9	1	0.401	2	2.966	2	7.399	1	1717	51	1.2
46583.5	10000	41.1146	93.7476	-976	QKA	2.7	1	6.6	-1	0.9	1	0.409	2	2.867	1	7.003	1	1717	44	1.2
46583.4	10000	41.1146	93.7467	-977	QKA	2.9	1	6.6	-1	0.9	1	0.436	2	3.119	2	7.148	1	1708	56	1.2
46583.3	10000	41.1146	93.7459	-978	QKA	2.9	1	6.7	-1	0.9	1	0.434	2	3.199	2	7.379	1	1710	52	1.2
46583.2	10000	41.1146	93.7450	-979	QKA	2.7	1	6.7	-1	0.9	1	0.405	2	2.953	1	7.284	1	1726	46	1.2
46583.1	10000	41.1146	93.7442	-981	QKA	2.6	1	7.0	0	0.9	1	0.370	2	2.711	1	7.333	1	1717	43	1.2
46583.0	10000	41.1146	93.7433	-981	QKA	2.5	1	6.9	-1	0.9	1	0.365	2	2.631	1	7.213	1	1703	46	1.2
46582.9	10000	41.1146	93.7425	-982	QKA	2.6	1	6.4	-1	0.9	1	0.403	2	2.734	1	6.784	1	1700	36	1.2
46582.8	10000	41.1146	93.7416	-983	QKA	2.5	1	6.5	-1	0.9	1	0.398	2	2.888	2	7.254	1	1690	60	1.2
46582.7	10000	41.1146	93.7408	-984	QKA	2.5	1	6.5	-1	0.9	1	0.384	2	2.678	1	6.982	1	1681	47	1.2
46582.6	10000	41.1146	93.7399	-985	QKA	2.3	1	6.5	-1	0.9	1	0.372	2	2.470	1	6.647	1	1671	39	1.2
46582.5	10000	41.1146	93.7390	-986	QKA	2.4	1	6.5	-1	1.0	1	0.363	2	2.419	1	6.658	1	1672	47	1.2
46582.4	10000	41.1146	93.7382	-987	QKA	2.3	1	5.8	-2	1.0	1	0.403	2	2.424	0	6.014	-1	1670	43	1.4

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46582.3	10000	41.1146	93.7373	-988	QKA	2.5	0	6.1	-1	1.0	-1	0.418	1	2.600	1	6.219	-1	1682	52	1.4
46582.2	10000	41.1146	93.7365	-988	QKA	2.4	0	6.1	-1	1.0	-1	0.394	1	2.455	1	6.233	-1	1671	50	1.4
46582.1	10000	41.1146	93.7356	-989	QKA	2.3	0	6.3	-1	0.9	-1	0.365	0	2.437	0	6.680	0	1636	48	1.4
46582.0	10000	41.1146	93.7348	-989	QKA	2.3	0	6.3	-1	0.9	-1	0.361	0	2.438	0	6.749	0	1627	45	1.4
46581.9	10000	41.1146	93.7339	-990	QKA	2.5	0	6.9	0	0.9	-1	0.369	0	2.669	1	7.230	1	1624	39	1.4
46581.8	10000	41.1146	93.7331	-990	QKA	2.5	0	6.8	0	0.9	-1	0.364	0	2.694	1	7.404	1	1626	52	1.4
46581.7	10000	41.1146	93.7322	-990	QKA	2.5	0	7.5	0	1.0	-1	0.332	0	2.510	1	7.571	1	1654	53	1.5
46581.6	10000	41.1146	93.7314	-990	QKA	2.4	0	7.5	0	1.0	-1	0.321	0	2.394	1	7.454	1	1677	37	1.5
46581.5	10000	41.1146	93.7305	-990	QKA	2.4	0	7.6	1	1.0	0	0.316	0	2.327	0	7.364	1	1709	37	1.5
46581.4	10000	41.1146	93.7296	-990	QKA	2.4	0	7.5	0	1.0	0	0.320	0	2.308	0	7.205	1	1750	44	1.5
46581.3	10000	41.1146	93.7288	-990	QKA	2.4	0	7.9	1	1.0	0	0.303	0	2.340	0	7.714	1	1757	51	1.5
46581.2	10000	41.1146	93.7279	-991	QKA	2.2	0	7.3	0	1.0	-1	0.304	0	2.237	0	7.367	1	1747	35	1.5
46581.1	10000	41.1146	93.7271	-991	QKA	2.5	0	7.4	0	1.0	-1	0.327	0	2.426	0	7.427	1	1733	47	1.5
46581.0	10000	41.1146	93.7262	-991	QKA	2.5	0	7.3	0	0.9	-1	0.343	0	2.773	1	8.091	2	1697	45	1.5
46580.9	10000	41.1146	93.7254	-991	QKA	2.4	0	7.0	0	0.9	-2	0.345	1	2.845	1	8.237	2	1666	51	1.5
46580.8	10000	41.1146	93.7245	-992	QKA	2.2	0	6.9	0	0.8	-2	0.327	1	2.703	1	8.276	2	1632	42	1.5
46580.7	10000	41.1146	93.7237	-992	QKA	2.1	-1	6.8	0	0.9	-1	0.312	0	2.352	0	7.542	1	1612	51	1.5
46580.6	10000	41.1146	93.7228	-991	QKA	2.1	-1	6.6	-1	0.9	-1	0.310	0	2.335	0	7.524	1	1600	46	1.5
46580.5	10000	41.1146	93.7220	-991	QKA	2.0	-1	6.9	0	0.9	-2	0.295	-1	2.375	0	8.043	2	1610	38	1.5
46580.4	10000	41.1146	93.7211	-990	QKA	2.3	0	7.0	0	0.9	-2	0.320	0	2.634	1	8.227	2	1633	45	1.5
46580.3	10000	41.1146	93.7202	-989	QKA	2.4	0	7.4	0	0.9	-1	0.319	0	2.526	1	7.927	2	1684	45	1.5
46580.2	10000	41.1146	93.7194	-988	QKA	2.3	0	7.2	0	0.9	-1	0.318	0	2.443	1	7.686	1	1682	43	1.5
46580.1	10000	41.1146	93.7185	-987	QKA	2.3	0	7.4	0	0.9	-1	0.316	0	2.503	1	7.930	2	1698	42	1.5
46580.0	10000	41.1145	93.7177	-986	QKA	2.5	0	7.5	0	0.9	-1	0.335	0	2.872	1	8.580	2	1704	47	1.5
46579.9	10000	41.1145	93.7168	-985	QKA	2.4	0	7.5	0	0.9	-1	0.318	0	2.557	1	8.042	2	1707	49	1.5
46579.8	10000	41.1145	93.7160	-985	QKA	2.5	0	7.2	0	0.9	-1	0.343	0	2.620	1	7.631	1	1705	50	1.5
46579.7	10000	41.1145	93.7151	-983	QKA	2.0	-1	7.2	0	1.0	-1	0.273	-1	2.045	0	7.483	1	1685	50	1.5
46579.6	10000	41.1145	93.7143	-982	QKA	1.6	-2	6.8	0	1.0	-1	0.235	-1	1.652	-1	7.034	0	1650	49	1.5
46579.5	10000	41.1145	93.7134	-981	QKA	1.6	-2	7.4	0	1.0	-1	0.223	-2	1.660	-1	7.445	1	1673	48	1.5
46579.4	10000	41.1145	93.7126	-980	QKA	2.0	-1	7.5	0	1.0	0	0.266	-1	1.971	-1	7.413	1	1696	53	1.5
46579.3	10000	41.1145	93.7117	-978	QKA	1.9	-1	7.3	0	1.1	0	0.264	-1	1.806	-1	6.831	0	1705	50	1.5
46579.2	10000	41.1145	93.7108	-976	QKA	2.1	-1	7.2	0	1.1	0	0.291	-1	1.947	-1	6.703	0	1724	38	1.5
46579.1	10000	41.1145	93.7100	-975	QKA	2.0	-1	7.3	0	1.1	0	0.271	-1	1.883	-1	6.950	0	1722	42	1.5
46579.0	10000	41.1145	93.7091	-974	QKA	2.2	0	7.2	0	1.1	0	0.310	0	2.064	0	6.649	0	1715	43	1.5
46578.9	10000	41.1145	93.7083	-973	QKA	2.4	0	7.1	0	1.1	0	0.342	0	2.352	0	6.875	0	1704	39	1.5
46578.8	10000	41.1145	93.7074	-972	QKA	2.5	0	6.5	-1	1.1	0	0.387	1	2.426	0	6.264	-1	1673	42	1.5
46578.7	10000	41.1145	93.7066	-971	QKA	2.4	0	6.3	-1	1.1	0	0.377	1	2.350	0	6.225	-1	1652	39	1.5
46578.6	10000	41.1145	93.7057	-970	QKA	2.4	0	6.6	-1	1.1	0	0.361	0	2.425	0	6.716	0	1644	41	1.5
46578.5	10000	41.1145	93.7049	-970	QKA	2.3	0	6.5	-1	1.1	0	0.359	1	2.536	1	7.057	0	1641	45	1.5
46578.4	10000	41.1145	93.7040	-969	QKA	2.4	0	6.7	-1	1.1	0	0.364	1	2.719	1	7.459	1	1661	44	1.5
46578.3	10000	41.1145	93.7032	-969	QKA	2.7	0	7.0	0	1.1	0	0.390	1	3.173	2	8.139	2	1681	52	1.5
46578.2	10000	41.1145	93.7023	-968	QKA	2.7	0	6.9	0	1.1	0	0.399	1	3.197	2	8.010	2	1702	49	1.5
46578.1	10000	41.1145	93.7014	-968	QKA	2.7	0	7.1	0	1.1	0	0.379	1	3.141	2	8.286	2	1728	39	1.5
46578.0	10000	41.1145	93.7006	-968	QKA	2.5	0	7.0	0	0.9	0	0.362	1	3.016	2	8.328	2	1704	50	1.5
46577.9	10000	41.1145	93.6997	-968	QKA	2.5	0	6.8	0	0.9	0	0.367	1	2.845	1	7.762	1	1704	44	1.5
46577.8	10000	41.1145	93.6989	-967	QKA	2.4	0	7.3	0	1.0	0	0.324	0	2.552	1	7.877	1	1708	44	1.5
46577.7	10000	41.1145	93.6980	-967	QKA	2.3	-1	7.2	0	1.1	0	0.325	0	2.339	1	7.194	1	1731	35	1.5
46577.6	10000	41.1145	93.6972	-967	QKA	2.1	-1	7.5	0	1.1	0	0.286	-1	2.034	0	7.109	1	1736	28	1.5
46577.5	10000	41.1145	93.6963	-967	QKA	2.0	-1	7.8	0	1.1	0	0.252	-1	1.790	-1	7.109	1	1753	50	1.5
46577.4	10000	41.1145	93.6955	-967	QKA	2.1	-1	8.0	0	1.1	0	0.260	-1	1.925	-1	7.405	1	1786	51	1.5
46577.3	10000	41.1145	93.6946	-967	QKA	2.3	-1	8.1	0	1.1	0	0.281	-1	2.037	0	7.235	1	1840	54	1.5
46577.2	10000	41.1145	93.6938	-967	QKA	2.4	0	8.6	2	1.1	0	0.282	-1	2.147	0	7.605	1	1876	47	1.4

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46577.1	10000	41.1145	93.6929	-968	QKA	2.8	1	8.3	2	1.1	0	0.332	0	2.444	0	7.355	1	1910	47	1.4
46577.0	10000	41.1145	93.6920	-968	QKA	2.8	1	8.0	1	1.1	0	0.348	0	2.448	0	7.030	0	1923	24	1.4
46576.9	10000	41.1145	93.6912	-968	QKA	3.0	1	7.9	1	1.2	1	0.385	1	2.566	1	6.672	0	1956	53	1.4
46576.8	10000	41.1145	93.6903	-968	QKA	3.1	2	8.1	1	1.2	1	0.387	1	2.560	1	6.610	0	1971	44	1.4
46576.7	10000	41.1145	93.6895	-969	QKA	3.2	2	8.1	1	1.3	1	0.392	1	2.542	1	6.484	0	1970	53	1.4
46576.6	10000	41.1145	93.6886	-969	QKA	3.2	2	7.9	1	1.3	2	0.403	1	2.481	0	6.156	-1	1955	37	1.4
46576.5	10000	41.1145	93.6878	-969	QKA	3.1	2	7.6	1	1.3	1	0.408	1	2.475	0	6.063	-1	1926	57	1.4
46576.4	10000	41.1145	93.6869	-969	QKA	3.0	1	7.5	0	1.3	1	0.398	1	2.353	0	5.907	-1	1890	48	1.4
46576.3	10000	41.1144	93.6861	-969	QKA	2.9	1	7.7	1	1.2	1	0.380	1	2.361	0	6.211	-1	1836	47	1.4
46576.2	10000	41.1144	93.6852	-970	QKA	2.8	1	7.4	0	1.1	1	0.381	1	2.438	0	6.397	0	1791	50	1.4
46576.1	10000	41.1144	93.6843	-971	QKA	2.8	1	6.7	-1	1.1	0	0.415	1	2.583	1	6.228	-1	1742	45	1.4
46576.0	10000	41.1144	93.6835	-971	QKA	2.4	0	6.1	-1	1.1	0	0.394	1	2.261	0	5.740	-1	1698	36	1.4
46575.9	10000	41.1144	93.6826	-972	QKA	2.2	0	6.4	-1	1.0	0	0.350	0	2.227	0	6.362	0	1659	49	1.4
46575.8	10000	41.1144	93.6818	-971	QKA	2.1	-1	6.3	-1	1.0	0	0.342	0	2.108	0	6.165	-1	1643	44	1.4
46575.7	10000	41.1144	93.6809	-967	QKA	2.1	-1	6.6	-1	1.0	-1	0.316	0	2.131	0	6.752	0	1642	36	1.4
46575.6	10000	41.1144	93.6801	-962	QKA	1.8	-1	6.8	0	1.0	-1	0.270	-1	1.878	-1	6.967	0	1647	50	1.4
46575.5	10000	41.1144	93.6792	-959	QKA	1.6	-2	6.9	0	1.0	-1	0.241	-1	1.641	-1	6.821	0	1642	38	1.4
46575.4	10000	41.1144	93.6784	-957	QKA	1.9	-1	7.5	0	1.0	-1	0.257	-1	1.906	-1	7.421	1	1640	36	1.4
46575.3	10000	41.1144	93.6775	-958	QKA	2.0	-1	7.8	1	1.0	-1	0.254	-1	1.998	-1	7.863	1	1643	49	1.4
46575.2	10000	41.1144	93.6767	-958	QKA	2.2	0	7.9	1	1.0	-1	0.276	-1	2.156	0	7.810	1	1661	54	1.4
46575.1	10000	41.1144	93.6758	-958	QKA	2.2	0	7.9	1	1.0	-1	0.276	-1	2.219	0	8.051	2	1693	34	1.4
46575.0	10000	41.1144	93.6749	-957	QKA	2.3	0	8.1	1	1.1	0	0.288	-1	2.223	0	7.721	1	1719	51	1.4
46574.9	10000	41.1144	93.6741	-957	QKA	2.5	0	7.8	1	1.1	0	0.328	0	2.370	0	7.225	1	1746	45	1.4
46574.8	10000	41.1144	93.6732	-957	QKA	2.6	0	7.7	1	1.1	0	0.340	0	2.365	0	6.950	0	1774	39	1.4
46574.7	10000	41.1144	93.6724	-957	QKA	2.4	0	7.8	1	1.1	0	0.303	-1	2.080	0	6.868	0	1808	50	1.4
46574.6	10000	41.1144	93.6715	-957	QKA	2.5	0	8.0	1	1.2	1	0.313	0	2.156	0	6.897	0	1820	47	1.4
46574.5	10000	41.1144	93.6707	-957	QKA	2.3	0	8.0	1	1.1	0	0.292	-1	2.089	0	7.143	1	1801	47	1.4
46574.4	10000	41.1144	93.6698	-958	QKA	2.3	0	8.0	1	1.1	0	0.290	-1	2.060	0	7.111	1	1779	37	1.4
46574.3	10000	41.1144	93.6690	-958	QKA	2.2	0	7.4	1	1.0	0	0.296	-1	2.100	0	7.087	0	1748	43	1.4
46574.2	10000	41.1144	93.6681	-959	QKA	2.0	-1	7.7	1	1.0	0	0.263	-1	1.955	-1	7.446	1	1742	50	1.4
46574.1	10000	41.1144	93.6673	-959	QKA	1.9	-1	7.9	1	1.0	0	0.238	-1	1.840	-1	7.719	1	1728	48	1.4
46574.0	10000	41.1144	93.6664	-960	QKA	1.8	-1	7.3	0	1.0	-1	0.242	-1	1.823	-1	7.525	1	1693	50	1.4
46573.9	10000	41.1144	93.6655	-960	QKA	1.7	-1	7.5	0	0.9	-1	0.232	-2	1.831	-1	7.887	1	1686	34	1.4
46573.8	10000	41.1144	93.6647	-960	QKA	1.5	-2	7.3	0	1.0	-1	0.207	-2	1.556	-1	7.509	1	1687	44	1.5
46573.7	10000	41.1144	93.6638	-960	QKA	1.7	-2	7.2	0	1.0	-1	0.231	-2	1.684	-1	7.292	1	1686	53	1.5
46573.6	10000	41.1144	93.6630	-961	QKA	1.8	-1	7.4	0	1.0	-1	0.242	-1	1.803	-1	7.457	1	1683	41	1.5
46573.5	10000	41.1144	93.6621	-961	QKA	2.0	-1	7.3	0	1.0	-1	0.275	-1	2.070	0	7.530	1	1672	41	1.5
46573.4	10000	41.1144	93.6613	-962	QKA	2.2	0	7.0	0	0.9	-1	0.318	0	2.362	0	7.418	1	1675	43	1.5
46573.3	10000	41.1144	93.6604	-963	QKA	2.6	0	7.1	0	1.0	-1	0.363	0	2.697	1	7.423	1	1693	52	1.5
46573.2	10000	41.1144	93.6596	-963	QKA	2.6	0	6.4	-1	1.0	-1	0.411	1	2.659	1	6.477	0	1686	47	1.5
46573.1	10000	41.1144	93.6587	-963	QKA	2.7	0	6.2	-1	1.0	-1	0.439	1	2.727	1	6.211	-1	1701	36	1.5
46573.0	10000	41.1143	93.6579	-964	QKA	2.7	1	6.5	-1	1.0	0	0.415	1	2.619	1	6.317	0	1694	52	1.5
46572.9	10000	41.1143	93.6570	-965	QKA	2.5	0	6.6	-1	1.0	0	0.378	1	2.372	0	6.270	-1	1716	36	1.5
46572.8	10000	41.1143	93.6562	-965	QKA	2.6	1	6.3	-1	1.1	0	0.416	1	2.392	0	5.754	-1	1725	47	1.5
46572.7	10000	41.1143	93.6553	-966	QKA	2.7	1	6.2	-1	1.1	0	0.436	1	2.463	0	5.646	-1	1711	46	1.5
46572.6	10000	41.1143	93.6545	-966	QKA	2.6	0	6.0	-2	1.1	0	0.437	1	2.365	0	5.409	-2	1693	44	1.5
46572.5	10000	41.1143	93.6537	-968	QKA	2.5	0	6.1	-1	1.1	0	0.404	1	2.286	0	5.662	-1	1682	44	1.5
46572.4	10000	41.1143	93.6528	-969	QKA	2.6	1	6.1	-1	1.1	0	0.420	1	2.382	0	5.677	-1	1672	38	1.5
46572.3	10000	41.1143	93.6520	-969	QKA	2.7	1	5.8	-2	1.0	0	0.468	2	2.619	1	5.599	-1	1683	34	1.5
46572.2	10000	41.1143	93.6512	-969	QKA	2.8	1	5.7	-2	1.0	0	0.487	2	2.709	1	5.565	-1	1661	44	1.5
46572.1	10000	41.1143	93.6504	-970	QKA	2.6	0	5.9	-2	1.0	-1	0.441	1	2.646	1	5.998	-1	1634	47	1.5
46572.0	10000	41.1143	93.6495	-972	QKA	2.4	0	6.3	-1	0.9	-1	0.377	1	2.555	1	6.768	0	1618	51	1.6

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46571.9	10000	41.1143	93.6487	-974	QKA	2.5	0	6.2	-1	0.9	-1	0.399	1	2.771	1	6.945	0	1621	47	1.6
46571.8	10000	41.1143	93.6479	-975	QKA	2.7	1	6.5	-1	0.9	-2	0.415	1	3.132	2	7.544	1	1628	45	1.6
46571.7	10000	41.1143	93.6470	-977	QKA	2.8	1	6.6	-1	0.9	-2	0.420	1	3.244	2	7.730	1	1632	54	1.6
46571.6	10000	41.1143	93.6462	-978	QKA	2.6	0	6.4	-1	0.8	-2	0.408	1	3.135	2	7.689	1	1617	47	1.6
46571.5	10000	41.1143	93.6454	-980	QKA	2.6	0	6.2	-1	0.8	-2	0.424	1	3.107	2	7.327	1	1614	40	1.6
46571.4	10000	41.1143	93.6446	-982	QKA	2.5	0	6.2	-1	0.8	-2	0.407	1	3.076	2	7.557	1	1620	48	1.6
46571.3	10000	41.1143	93.6437	-984	QKA	2.5	0	6.1	-1	0.8	-2	0.405	1	2.886	1	7.126	1	1614	45	1.6
46571.2	10000	41.1143	93.6429	-986	QKA	2.3	0	6.4	-1	0.9	-2	0.357	0	2.673	1	7.492	1	1616	41	1.6
46571.1	10000	41.1143	93.6421	-988	QKA	2.4	0	6.5	-1	0.9	-2	0.364	0	2.742	1	7.528	1	1612	44	1.6
46571.0	10000	41.1143	93.6413	-990	QKA	2.4	0	6.4	-1	0.9	-2	0.380	1	2.809	1	7.383	1	1625	48	1.6
46570.9	10000	41.1142	93.6404	-992	QKA	2.5	0	6.7	-1	0.9	-1	0.368	0	2.740	1	7.445	1	1643	55	1.6
46570.8	10000	41.1142	93.6396	-994	QKA	2.3	0	7.0	0	0.9	-1	0.328	0	2.489	0	7.582	1	1657	55	1.7
46570.7	10000	41.1142	93.6387	-996	QKA	2.5	0	6.7	-1	1.0	-1	0.370	0	2.575	1	6.965	0	1650	46	1.7
46570.6	10000	41.1142	93.6379	-999	QKA	2.5	0	6.8	0	1.0	-1	0.363	0	2.586	1	7.133	1	1668	42	1.7
46570.5	10000	41.1142	93.6371	-1001	QKA	2.4	0	6.9	0	0.9	-1	0.350	0	2.557	1	7.302	1	1662	41	1.7
46570.4	10000	41.1142	93.6363	-1003	QKA	2.2	0	6.8	0	0.9	-1	0.326	0	2.415	1	7.400	1	1663	43	1.7
46570.3	10000	41.1142	93.6354	-1005	QKA	2.2	0	7.0	0	0.9	-1	0.309	0	2.454	0	7.950	2	1636	52	1.7
46570.2	10000	41.1142	93.6346	-1008	QKA	2.1	-1	7.2	0	0.9	-1	0.291	-1	2.386	0	8.202	2	1620	36	1.7
46570.1	10000	41.1142	93.6338	-1010	QKA	2.3	0	7.4	0	0.9	-2	0.315	0	2.706	1	8.595	2	1636	47	1.7
46570.0	10000	41.1142	93.6329	-1012	QKA	2.3	0	7.8	1	0.8	-2	0.295	-1	2.765	1	9.381	3	1656	37	1.7
46569.9	10000	41.1142	93.6321	-1014	QKA	2.4	0	8.0	1	0.9	-1	0.298	-1	2.716	1	9.127	3	1694	39	1.7
46569.8	10000	41.1142	93.6313	-1016	QKA	2.4	0	8.1	1	1.0	-1	0.301	-1	2.484	0	8.248	2	1747	46	1.7
46569.7	10000	41.1142	93.6305	-1018	QKA	2.3	0	8.1	1	1.0	0	0.290	-1	2.240	0	7.711	1	1765	34	1.7
46569.6	10000	41.1142	93.6296	-1020	QKA	2.4	0	8.1	1	1.0	0	0.294	-1	2.265	0	7.714	1	1770	39	1.7
46569.5	10000	41.1142	93.6288	-1022	QKA	2.4	0	7.9	1	1.0	0	0.306	0	2.390	0	7.803	1	1775	38	1.7
46569.4	10000	41.1142	93.6280	-1024	QKA	2.1	-1	7.7	1	1.0	0	0.272	-1	2.073	0	7.616	1	1751	44	1.8
46569.3	10000	41.1142	93.6272	-1025	QKA	2.1	-1	7.7	1	1.0	0	0.276	-1	1.992	-1	7.217	1	1748	42	1.8
46569.2	10000	41.1142	93.6263	-1027	QKA	2.1	-1	7.3	1	1.0	0	0.286	-1	2.002	0	7.007	1	1704	34	1.8
46569.1	10000	41.1142	93.6255	-1029	QKA	1.9	-1	7.0	1	1.0	-1	0.267	-1	1.895	-1	7.107	1	1662	34	1.8
46569.0	10000	41.1141	93.6247	-1030	QKA	1.9	-1	7.1	1	1.0	-1	0.271	-1	1.957	-1	7.220	1	1651	50	1.8
46568.9	10000	41.1141	93.6238	-1031	QKA	1.8	-1	7.0	1	1.1	0	0.254	-1	1.689	-1	6.637	1	1670	40	1.8
46568.8	10000	41.1141	93.6230	-1032	QKA	1.6	-2	7.1	1	1.1	0	0.223	-2	1.440	-2	6.460	1	1688	48	1.8
46568.7	10000	41.1141	93.6222	-1033	QKA	1.9	-1	7.1	1	1.1	0	0.265	-1	1.750	-1	6.617	0	1694	47	1.8
46568.6	10000	41.1141	93.6213	-1034	QKA	1.7	-2	7.6	1	1.1	0	0.219	-2	1.527	-1	6.990	1	1699	48	1.8
46568.5	10000	41.1141	93.6205	-1035	QKA	1.7	-2	8.0	1	1.1	0	0.208	-2	1.564	-1	7.536	1	1709	43	1.8
46568.4	10000	41.1141	93.6197	-1036	QKA	1.6	-2	7.9	1	1.1	0	0.207	-2	1.545	-1	7.459	1	1690	55	1.8
46568.3	10000	41.1141	93.6189	-1036	QKA	1.4	-2	7.7	1	1.1	0	0.189	-2	1.392	-2	7.362	1	1677	43	1.8
46568.2	10000	41.1141	93.6180	-1037	QKA	1.5	-2	7.6	1	1.1	0	0.197	-2	1.511	-1	7.668	1	1649	49	1.8
46568.1	10000	41.1141	93.6172	-1038	QKA	1.7	-2	7.5	1	1.1	0	0.222	-2	1.665	-1	7.506	1	1639	42	1.8
46568.0	10000	41.1141	93.6164	-1039	QKA	1.3	-2	7.8	1	1.1	0	0.173	-2	1.306	-2	7.570	1	1639	55	1.8
46567.9	10000	41.1141	93.6155	-1039	QKA	1.6	-2	7.8	1	1.1	0	0.234	-2	1.617	-1	6.926	1	1613	49	1.8
46567.8	10000	41.1141	93.6147	-1039	QKA	1.6	-2	6.8	1	1.1	0	0.248	-1	1.566	-1	6.327	0	1591	50	1.8
46567.7	10000	41.1141	93.6139	-1038	QKA	1.7	-1	6.6	1	1.0	0	0.254	-1	1.823	-1	7.182	1	1568	40	1.8
46567.6	10000	41.1141	93.6131	-1040	QKA	1.8	-1	6.4	1	0.9	0	0.281	-1	1.982	-1	7.042	1	1548	53	1.8
46567.5	10000	41.1141	93.6122	-1041	QKA	1.7	-1	6.3	1	0.9	-1	0.266	-1	1.931	-1	7.250	1	1534	41	1.8
46567.4	10000	41.1141	93.6114	-1042	QKA	1.6	-2	6.2	1	0.9	-2	0.252	-1	1.836	-1	7.301	1	1507	46	1.8
46567.3	10000	41.1141	93.6106	-1044	QKA	1.6	-2	6.6	1	0.8	-2	0.259	-1	1.876	-1	7.255	1	1506	58	1.8
46567.2	10000	41.1141	93.6097	-1045	QKA	1.5	-2	6.7	1	0.8	-2	0.225	-2	1.820	-1	8.081	2	1512	45	1.8
46567.1	10000	41.1140	93.6089	-1045	QKA	1.6	-2	6.7	1	0.8	-2	0.242	-1	1.981	-1	8.183	2	1537	53	1.8
46567.0	10000	41.1140	93.6081	-1047	QKA	1.7	-1	7.3	1	0.9	-2	0.257	-1	2.071	0	8.071	2	1586	44	1.8
46566.9	10000	41.1140	93.6072	-1049	QKA	1.7	-1	7.6	1	0.8	-2	0.232	-2	1.988	-1	8.554	2	1605	46	1.8
46566.8	10000	41.1140	93.6064	-1050	QKA	1.9	-1	7.6	1	0.8	-2	0.251	-1	2.239	0	8.933	3	1640	36	1.8

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46566.7	10000	41.1140	93.6056	-1052	QKA	2.0	-1	7.7	1	0.8	-2	0.259	-1	2.435	0	9.408	3	1668	41	1.8
46566.6	10000	41.1140	93.6048	-1053	QKA	2.1	-1	8.0	1	0.9	-2	0.267	-1	2.452	0	9.169	3	1671	38	1.7
46566.5	10000	41.1140	93.6039	-1055	QKA	2.0	-1	8.1	1	0.9	-1	0.246	-1	2.240	0	9.100	3	1699	52	1.7
46566.4	10000	41.1140	93.6031	-1057	QKA	1.7	-1	8.2	1	0.9	-1	0.210	-2	1.857	-1	8.833	3	1694	52	1.7
46566.3	10000	41.1140	93.6023	-1059	QKA	1.7	-2	7.7	1	0.9	-1	0.217	-2	1.753	-1	8.093	2	1675	40	1.7
46566.2	10000	41.1140	93.6014	-1061	QKA	1.9	-1	7.3	0	1.0	-1	0.258	-1	1.973	-1	7.643	1	1671	50	1.7
46566.1	10000	41.1140	93.6006	-1063	QKA	1.8	-1	7.1	0	1.0	-1	0.255	-1	1.839	-1	7.220	1	1660	43	1.7
46566.0	10000	41.1140	93.5998	-1066	QKA	1.8	-1	7.2	0	1.0	-1	0.256	-1	1.872	-1	7.313	1	1649	48	1.7
46565.9	10000	41.1140	93.5990	-1069	QKA	1.9	-1	6.8	0	1.0	-1	0.274	-1	1.889	-1	6.893	0	1635	42	1.7
46565.8	10000	41.1140	93.5981	-1071	QKA	1.9	-1	6.5	-1	1.0	-1	0.294	-1	1.999	-1	6.792	0	1614	54	1.7
46565.7	10000	41.1140	93.5973	-1074	QKA	2.1	-1	6.9	0	0.9	-1	0.304	0	2.265	0	7.441	1	1622	45	1.7
46565.6	10000	41.1140	93.5965	-1076	QKA	2.3	0	6.8	0	0.9	-1	0.334	0	2.446	0	7.322	1	1634	45	1.7
46565.5	10000	41.1139	93.5956	-1079	QKA	2.4	0	7.4	0	0.9	-1	0.320	0	2.519	1	7.877	1	1670	39	1.7
46565.4	10000	41.1139	93.5948	-1081	QKA	2.5	0	7.4	0	1.0	-1	0.335	0	2.561	1	7.649	1	1695	54	1.7
46565.3	10000	41.1139	93.5940	-1083	QKA	2.5	0	7.2	0	1.0	-1	0.339	0	2.512	1	7.404	1	1714	44	1.6
46565.2	10000	41.1139	93.5931	-1085	QKA	2.5	0	7.6	1	1.0	-1	0.336	0	2.624	1	7.807	1	1739	44	1.6
46565.1	10000	41.1139	93.5923	-1087	QKA	2.6	0	7.6	1	1.0	0	0.347	0	2.606	1	7.514	1	1764	43	1.6
46565.0	10000	41.1139	93.5915	-1089	QKA	2.8	1	7.3	0	1.0	0	0.382	1	2.663	1	6.969	0	1770	45	1.6
46564.9	10000	41.1139	93.5907	-1091	QKA	2.7	1	7.8	1	1.1	0	0.350	0	2.540	1	7.263	1	1796	36	1.6
46564.8	10000	41.1139	93.5898	-1093	QKA	2.8	1	7.5	0	1.1	0	0.370	0	2.526	1	6.837	0	1806	46	1.6
46564.7	10000	41.1139	93.5890	-1094	QKA	2.7	1	8.0	1	1.1	0	0.335	0	2.348	0	7.001	0	1826	41	1.6
46564.6	10000	41.1139	93.5882	-1096	QKA	2.7	1	8.4	2	1.2	1	0.321	0	2.225	0	6.942	0	1858	36	1.6
46564.5	10000	41.1139	93.5873	-1097	QKA	2.6	0	8.3	2	1.2	1	0.314	0	2.110	0	6.726	0	1876	47	1.6
46564.4	10000	41.1139	93.5865	-1098	QKA	2.6	0	8.4	2	1.3	2	0.306	-1	1.982	-1	6.485	0	1893	47	1.6
46564.3	10000	41.1139	93.5857	-1099	QKA	2.6	0	8.8	2	1.3	2	0.291	-1	1.988	-1	6.821	0	1917	47	1.6
46564.2	10000	41.1139	93.5849	-1099	QKA	2.5	0	8.5	2	1.3	2	0.297	-1	1.890	-1	6.357	0	1925	47	1.5
46564.1	10000	41.1139	93.5840	-1100	QKA	2.5	0	8.5	2	1.4	2	0.291	-1	1.822	-1	6.268	-1	1940	52	1.5
46564.0	10000	41.1139	93.5832	-1100	QKA	2.6	0	8.8	2	1.3	2	0.329	-1	1.988	-1	6.051	-1	1954	52	1.5
46563.9	10000	41.1139	93.5824	-1100	QKA	2.8	0	8.7	2	1.3	2	0.366	-1	2.192	0	5.990	-1	1939	44	1.5
46563.8	10000	41.1138	93.5815	-1100	QKA	2.9	0	8.7	2	1.3	2	0.362	-1	2.240	0	6.189	-1	1953	48	1.5
46563.7	10000	41.1138	93.5807	-1100	QKA	2.8	0	8.7	2	1.3	2	0.352	-1	2.232	0	6.343	0	1952	42	1.5
46563.6	10000	41.1138	93.5799	-1100	QKA	2.6	0	7.7	2	1.3	2	0.346	-1	2.102	0	6.072	-1	1935	37	1.5
46563.5	10000	41.1138	93.5790	-1099	QKA	2.7	0	7.8	2	1.2	1	0.339	-1	2.172	0	6.416	0	1903	47	1.5
46563.4	10000	41.1138	93.5782	-1098	QKA	2.7	0	7.9	1	1.1	1	0.347	-1	2.420	0	6.985	1	1875	47	1.5
46563.3	10000	41.1138	93.5774	-1097	QKA	2.5	0	7.8	1	1.1	0	0.309	-1	2.226	0	7.213	1	1826	40	1.5
46563.2	10000	41.1138	93.5766	-1096	QKA	2.3	0	7.8	1	1.1	0	0.284	-1	2.141	0	7.547	1	1803	40	1.4
46563.1	10000	41.1138	93.5757	-1095	QKA	2.4	0	7.8	1	1.1	0	0.312	-1	2.400	0	7.700	1	1759	48	1.4
46563.0	10000	41.1138	93.5749	-1093	QKA	2.6	0	7.7	1	1.1	0	0.348	-1	2.667	1	7.662	1	1705	36	1.4
46562.9	10000	41.1138	93.5741	-1091	QKA	2.6	0	7.7	1	1.0	0	0.362	-1	2.799	1	7.731	1	1673	46	1.4
46562.8	10000	41.1138	93.5732	-1089	QKA	2.6	0	7.7	1	0.9	-1	0.357	-1	2.878	1	8.065	2	1655	41	1.4
46562.7	10000	41.1138	93.5724	-1087	QKA	2.4	0	7.6	1	0.9	-1	0.348	-1	2.568	1	7.377	1	1623	42	1.4
46562.6	10000	41.1138	93.5716	-1085	QKA	2.4	0	6.6	1	0.9	-2	0.371	-1	2.714	1	7.320	1	1599	46	1.4
46562.5	10000	41.1138	93.5708	-1083	QKA	2.3	0	6.6	0	0.9	-1	0.374	-1	2.554	1	6.831	0	1574	40	1.4
46562.4	10000	41.1138	93.5699	-1081	QKA	2.1	-1	6.5	0	0.9	-1	0.356	-1	2.348	1	6.588	0	1566	35	1.4
46562.3	10000	41.1138	93.5691	-1078	QKA	2.1	-1	6.6	0	0.9	-1	0.326	-1	2.301	1	7.054	1	1592	46	1.4
46562.2	10000	41.1138	93.5683	-1075	QKA	2.0	-1	6.6	0	1.0	-1	0.290	-1	2.160	0	7.442	1	1594	47	1.4
46562.1	10000	41.1138	93.5674	-1073	QKA	2.1	-1	6.5	0	1.0	-1	0.326	-1	2.233	0	6.846	0	1602	48	1.4
46562.0	10000	41.1138	93.5666	-1071	QKA	2.2	-1	6.7	0	1.0	-1	0.311	-1	2.166	0	6.957	0	1599	46	1.4
46561.9	10000	41.1137	93.5658	-1069	QKA	2.3	-1	6.9	0	1.0	-1	0.312	-1	2.088	0	6.686	0	1613	48	1.4
46561.8	10000	41.1137	93.5649	-1066	QKA	2.2	-1	6.8	0	1.0	-1	0.347	-1	2.265	0	6.521	0	1622	41	1.3
46561.7	10000	41.1137	93.5641	-1064	QKA	2.3	-1	7.0	0	1.0	-1	0.318	-1	2.221	-1	6.992	0	1618	41	1.3
46561.6	10000	41.1137	93.5633	-1062	QKA	2.3	-1	6.9	0	1.0	-1	0.335	0	2.332	0	6.965	0	1628	37	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46561.5	10000	41.1137	93.5625	-1060	QKA	2.4	0	6.7	-1	1.0	-1	0.355	0	2.462	0	6.945	0	1648	36	1.3
46561.4	10000	41.1137	93.5616	-1059	QKA	2.4	0	6.9	0	1.0	-1	0.355	0	2.502	0	7.050	0	1681	45	1.3
46561.3	10000	41.1137	93.5608	-1057	QKA	2.7	1	7.2	0	1.0	0	0.375	1	2.618	1	6.985	0	1735	55	1.3
46561.2	10000	41.1137	93.5600	-1055	QKA	2.7	1	7.4	0	1.0	-1	0.370	1	2.790	1	7.532	1	1764	47	1.3
46561.1	10000	41.1137	93.5591	-1054	QKA	2.8	1	7.8	1	1.0	0	0.355	0	2.729	1	7.691	1	1804	44	1.3
46561.0	10000	41.1137	93.5583	-1052	QKA	2.9	1	7.8	1	1.1	0	0.371	0	2.645	1	7.129	1	1828	47	1.3
46560.9	10000	41.1137	93.5575	-1052	QKA	2.8	1	7.8	1	1.1	0	0.359	0	2.453	0	6.839	0	1842	44	1.3
46560.8	10000	41.1137	93.5567	-1050	QKA	2.9	1	8.0	1	1.2	1	0.364	0	2.458	0	6.760	0	1852	37	1.3
46560.7	10000	41.1137	93.5558	-1050	QKA	2.8	1	8.1	1	1.2	1	0.341	0	2.297	0	6.727	0	1844	37	1.3
46560.6	10000	41.1137	93.5550	-1050	QKA	2.4	0	8.1	1	1.1	0	0.301	-1	2.115	0	7.036	0	1818	52	1.3
46560.5	10000	41.1137	93.5542	-1049	QKA	2.4	0	8.1	1	1.2	1	0.290	-1	2.043	0	7.044	0	1812	51	1.3
46560.4	10000	41.1137	93.5533	-1049	QKA	2.2	0	8.0	1	1.2	1	0.279	-1	1.903	-1	6.821	0	1794	36	1.3
46560.3	10000	41.1137	93.5525	-1049	QKA	2.4	0	8.2	1	1.2	1	0.287	-1	1.985	-1	6.906	0	1799	41	1.3
46560.2	10000	41.1137	93.5517	-1050	QKA	2.3	0	7.9	1	1.2	1	0.291	-1	1.921	-1	6.599	0	1793	39	1.3
46560.1	10000	41.1136	93.5508	-1050	QKA	2.2	-1	8.0	1	1.2	1	0.269	-1	1.739	-1	6.471	0	1804	46	1.3
46560.0	10000	41.1136	93.5500	-1051	QKA	2.2	0	8.0	1	1.2	1	0.275	-1	1.755	-1	6.387	0	1810	45	1.3
46559.9	10000	41.1136	93.5492	-1051	QKA	2.3	0	7.9	1	1.3	1	0.295	-1	1.856	-1	6.288	-1	1824	47	1.3
46559.8	10000	41.1136	93.5484	-1052	QKA	2.3	0	8.0	1	1.3	1	0.292	-1	1.862	-1	6.379	0	1830	43	1.3
46559.7	10000	41.1136	93.5475	-1052	QKA	2.3	0	8.0	1	1.2	1	0.288	-1	1.917	-1	6.666	0	1833	44	1.3
46559.6	10000	41.1136	93.5467	-1052	QKA	2.2	-1	7.3	0	1.1	0	0.295	-1	1.907	-1	6.454	0	1813	43	1.3
46559.5	10000	41.1136	93.5459	-1053	QKA	2.1	-1	7.4	0	1.1	0	0.284	-1	1.954	-1	6.878	0	1776	50	1.3
46559.4	10000	41.1136	93.5450	-1054	QKA	2.3	0	7.1	0	1.1	0	0.321	0	2.130	0	6.645	0	1729	52	1.3
46559.3	10000	41.1136	93.5442	-1055	QKA	2.2	0	6.7	-1	1.0	-1	0.326	0	2.203	0	6.747	0	1688	41	1.3
46559.2	10000	41.1136	93.5434	-1056	QKA	2.1	-1	6.4	-1	1.0	-1	0.328	0	2.174	0	6.630	0	1646	42	1.3
46559.1	10000	41.1136	93.5426	-1057	QKA	2.2	0	6.3	-1	1.0	-1	0.348	0	2.224	0	6.394	0	1622	46	1.3
46559.0	10000	41.1136	93.5417	-1058	QKA	2.4	0	6.2	-1	1.0	-1	0.383	1	2.405	0	6.283	-1	1590	50	1.3
46558.9	10000	41.1136	93.5409	-1059	QKA	2.1	-1	6.5	-1	1.0	-1	0.325	0	2.192	0	6.753	0	1567	44	1.3
46558.8	10000	41.1136	93.5401	-1061	QKA	2.1	-1	6.8	0	1.0	-1	0.302	-1	2.142	0	7.099	1	1570	43	1.3
46558.7	10000	41.1136	93.5392	-1062	QKA	1.9	-1	7.0	0	0.9	-1	0.267	-1	1.979	-1	7.408	1	1567	46	1.3
46558.6	10000	41.1135	93.5384	-1064	QKA	2.0	-1	7.2	0	0.9	-1	0.273	-1	2.096	0	7.691	1	1567	31	1.3
46558.5	10000	41.1135	93.5376	-1065	QKA	1.9	-1	7.4	0	0.9	-1	0.264	-1	2.103	0	7.963	2	1578	36	1.3
46558.4	10000	41.1135	93.5367	-1066	QKA	2.0	-1	7.4	0	0.9	-1	0.270	-1	2.162	0	8.002	2	1583	49	1.3
46558.3	10000	41.1135	93.5359	-1068	QKA	1.8	-1	7.5	0	0.9	-1	0.240	-1	1.898	-1	7.915	2	1584	45	1.3
46558.2	10000	41.1136	93.5350	-1069	QKA	2.0	-1	7.4	0	1.0	-1	0.275	-1	2.114	0	7.697	1	1585	48	1.3
46558.1	10000	41.1135	93.5342	-1069	QKA	2.1	-1	6.9	0	0.9	-1	0.302	-1	2.252	0	7.462	1	1569	41	1.3
46558.0	10000	41.1136	93.5334	-1070	QKA	2.1	-1	6.7	-1	0.9	-1	0.313	0	2.303	0	7.358	1	1564	48	1.3
46557.9	10000	41.1136	93.5325	-1071	QKA	1.9	-1	6.8	0	0.9	-1	0.285	-1	2.056	0	7.207	1	1553	44	1.3
46557.8	10000	41.1136	93.5317	-1071	QKA	1.7	-1	6.6	-1	1.0	-1	0.259	-1	1.740	-1	6.726	0	1540	43	1.3
46557.7	10000	41.1136	93.5308	-1072	QKA	1.6	-2	6.4	-1	1.0	-1	0.246	-1	1.608	-1	6.528	0	1527	47	1.3
46557.6	10000	41.1136	93.5300	-1072	QKA	1.6	-2	6.4	-1	0.9	-1	0.257	-1	1.740	-1	6.770	0	1523	50	1.3
46557.5	10000	41.1136	93.5292	-1072	QKA	1.6	-2	6.4	-1	0.9	-1	0.246	-1	1.673	-1	6.788	0	1534	39	1.3
46557.4	10000	41.1136	93.5283	-1073	QKA	1.6	-2	6.5	-1	1.0	-1	0.238	-1	1.558	-1	6.553	0	1567	40	1.3
46557.3	10000	41.1136	93.5275	-1072	QKA	1.9	-1	6.4	-1	1.0	0	0.290	-1	1.819	-1	6.276	-1	1603	48	1.3
46557.2	10000	41.1136	93.5266	-1072	QKA	1.6	-2	6.6	-1	1.1	0	0.235	-1	1.470	-2	6.262	-1	1631	48	1.3
46557.1	10000	41.1136	93.5258	-1072	QKA	1.8	-1	6.8	0	1.1	0	0.263	-1	1.649	-1	6.260	-1	1676	58	1.3
46557.0	10000	41.1136	93.5249	-1072	QKA	1.7	-1	7.2	0	1.1	0	0.241	-1	1.540	-1	6.395	0	1706	30	1.3
46556.9	10000	41.1136	93.5241	-1071	QKA	1.8	-1	7.6	1	1.3	1	0.242	-1	1.474	-2	6.086	-1	1763	43	1.3
46556.8	10000	41.1136	93.5233	-1071	QKA	1.9	-1	7.6	1	1.3	1	0.248	-1	1.465	-2	5.915	-1	1793	36	1.3
46556.7	10000	41.1136	93.5224	-1071	QKA	2.1	-1	7.7	1	1.3	1	0.266	-1	1.581	-1	5.938	-1	1794	35	1.3
46556.6	10000	41.1136	93.5216	-1071	QKA	2.0	-1	8.3	1	1.3	1	0.243	-1	1.534	-1	6.312	0	1799	65	1.3
46556.5	10000	41.1136	93.5207	-1071	QKA	2.3	0	8.1	1	1.3	1	0.286	-1	1.827	-1	6.388	0	1795	56	1.3
46556.4	10000	41.1136	93.5199	-1070	QKA	2.3	0	8.0	1	1.3	1	0.292	-1	1.860	-1	6.379	0	1769	44	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46556.3	10000	41.1136	93.5190	-1070	QKA	2.4	0	7.5	0	1.2	1	0.324	0	1.995	-1	6.150	-1	1732	45	1.3
46556.2	10000	41.1136	93.5182	-1070	QKA	2.2	0	7.2	0	1.1	0	0.306	0	1.923	-1	6.293	0	1679	45	1.3
46556.1	10000	41.1136	93.5174	-1069	QKA	2.1	-1	7.5	0	1.1	0	0.277	-1	1.806	-1	6.511	0	1651	37	1.3
46556.0	10000	41.1136	93.5165	-1069	QKA	2.0	-1	7.4	0	1.1	0	0.267	-1	1.768	-1	6.635	0	1625	36	1.3
46555.9	10000	41.1136	93.5157	-1069	QKA	1.8	-1	6.8	0	1.1	0	0.270	-1	1.712	-1	6.337	0	1593	40	1.3
46555.8	10000	41.1136	93.5148	-1069	QKA	1.6	-2	6.9	0	1.1	0	0.235	-1	1.459	-2	6.208	-1	1570	33	1.3
46555.7	10000	41.1136	93.5140	-1069	QKA	1.6	-2	6.9	0	1.1	0	0.233	-2	1.516	-1	6.501	0	1561	48	1.3
46555.6	10000	41.1136	93.5132	-1068	QKA	1.7	-2	6.8	0	1.1	0	0.246	-1	1.559	-1	6.329	0	1563	48	1.3
46555.5	10000	41.1136	93.5123	-1068	QKA	1.8	-1	6.9	0	1.1	0	0.262	-1	1.721	-1	6.559	0	1571	34	1.3
46555.4	10000	41.1136	93.5115	-1068	QKA	1.9	-1	6.5	-1	1.1	0	0.292	-1	1.804	-1	6.176	-1	1582	43	1.3
46555.3	10000	41.1136	93.5106	-1066	QKA	1.9	-1	6.5	-1	1.0	0	0.285	-1	1.783	-1	6.254	-1	1589	38	1.3
46555.2	10000	41.1136	93.5098	-1066	QKA	1.8	-1	6.6	-1	1.0	-1	0.274	-1	1.797	-1	6.562	0	1562	37	1.3
46555.1	10000	41.1136	93.5089	-1065	QKA	1.9	-1	6.3	-1	0.9	-1	0.301	-1	2.051	0	6.805	0	1548	47	1.3
46555.0	10000	41.1136	93.5081	-1065	QKA	2.1	-1	6.2	-1	0.9	-1	0.333	0	2.281	0	6.852	0	1551	34	1.3
46554.9	10000	41.1136	93.5073	-1065	QKA	2.0	-1	6.6	-1	0.9	-1	0.301	-1	2.177	0	7.226	1	1569	34	1.3
46554.8	10000	41.1136	93.5064	-1064	QKA	2.0	-1	6.6	-1	0.9	-1	0.303	0	2.141	0	7.056	0	1581	47	1.3
46554.7	10000	41.1136	93.5056	-1063	QKA	2.0	-1	6.9	0	0.9	-1	0.288	-1	2.147	0	7.456	1	1571	51	1.3
46554.6	10000	41.1136	93.5047	-1063	QKA	2.0	-1	6.8	0	1.0	-1	0.298	-1	2.106	0	7.071	0	1563	50	1.3
46554.5	10000	41.1136	93.5039	-1062	QKA	2.1	-1	6.9	0	1.0	-1	0.303	0	2.109	0	6.952	0	1589	40	1.3
46554.4	10000	41.1136	93.5031	-1061	QKA	2.2	0	7.2	0	1.0	-1	0.306	0	2.193	0	7.156	1	1612	50	1.3
46554.3	10000	41.1136	93.5022	-1061	QKA	2.0	-1	7.3	0	1.0	0	0.272	-1	1.932	-1	7.098	1	1606	39	1.3
46554.2	10000	41.1136	93.5014	-1060	QKA	2.1	-1	7.5	0	1.0	0	0.286	-1	2.080	0	7.285	1	1595	44	1.3
46554.1	10000	41.1136	93.5005	-1060	QKA	2.1	-1	7.1	0	1.0	-1	0.300	-1	2.134	0	7.121	1	1576	33	1.3
46554.0	10000	41.1136	93.4997	-1059	QKA	2.3	0	7.0	0	1.0	-1	0.333	0	2.337	0	7.023	0	1574	39	1.3
46553.9	10000	41.1136	93.4988	-1058	QKA	2.4	0	6.9	0	0.9	-1	0.347	0	2.544	1	7.341	1	1581	45	1.3
46553.8	10000	41.1136	93.4980	-1058	QKA	2.3	0	7.1	0	1.0	-1	0.320	0	2.298	0	7.187	1	1589	54	1.3
46553.7	10000	41.1136	93.4971	-1057	QKA	2.3	0	7.0	0	1.0	-1	0.321	0	2.268	0	7.067	0	1588	52	1.3
46553.6	10000	41.1136	93.4963	-1056	QKA	2.3	0	7.3	0	1.0	-1	0.308	0	2.313	0	7.514	1	1589	50	1.2
46553.5	10000	41.1136	93.4955	-1056	QKA	2.2	-1	6.9	0	0.9	-1	0.311	0	2.283	0	7.341	1	1574	51	1.2
46553.4	10000	41.1136	93.4946	-1056	QKA	2.3	0	6.8	0	0.9	-1	0.338	0	2.431	0	7.186	1	1574	53	1.2
46553.3	10000	41.1136	93.4938	-1056	QKA	2.1	-1	6.6	-1	0.9	-1	0.323	0	2.300	0	7.115	1	1571	41	1.2
46553.2	10000	41.1136	93.4929	-1056	QKA	2.1	-1	6.9	0	0.9	-1	0.299	-1	2.266	0	7.582	1	1565	49	1.2
46553.1	10000	41.1136	93.4921	-1056	QKA	2.3	0	6.7	-1	0.9	-2	0.337	0	2.633	1	7.815	1	1561	50	1.2
46553.0	10000	41.1136	93.4913	-1055	QKA	2.4	0	6.8	0	0.9	-1	0.353	0	2.742	1	7.757	1	1560	52	1.2
46552.9	10000	41.1136	93.4904	-1055	QKA	2.6	0	6.3	-1	0.9	-1	0.416	1	2.958	1	7.104	1	1561	50	1.2
46552.8	10000	41.1136	93.4896	-1055	QKA	2.7	1	6.4	-1	0.9	-1	0.425	1	2.899	1	6.816	0	1575	45	1.2
46552.7	10000	41.1136	93.4887	-1054	QKA	2.4	0	6.3	-1	0.9	-1	0.390	1	2.575	1	6.599	0	1583	55	1.2
46552.6	10000	41.1136	93.4879	-1054	QKA	2.6	0	6.7	-1	1.0	-1	0.383	1	2.607	1	6.812	0	1598	43	1.2
46552.5	10000	41.1136	93.4870	-1055	QKA	2.7	1	6.4	-1	1.0	0	0.417	1	2.601	1	6.244	-1	1632	46	1.2
46552.4	10000	41.1137	93.4862	-1055	QKA	2.6	0	6.6	-1	1.1	0	0.390	1	2.368	0	6.072	-1	1661	36	1.2
46552.3	10000	41.1137	93.4854	-1055	QKA	2.4	0	6.8	0	1.2	1	0.346	0	2.039	0	5.896	-1	1692	47	1.2
46552.2	10000	41.1137	93.4845	-1055	QKA	2.1	-1	7.1	0	1.2	1	0.292	-1	1.704	-1	5.829	-1	1731	41	1.2
46552.1	10000	41.1137	93.4837	-1055	QKA	2.1	-1	7.3	0	1.2	1	0.282	-1	1.698	-1	6.017	-1	1766	41	1.2
46552.0	10000	41.1137	93.4828	-1055	QKA	2.3	0	8.2	1	1.2	1	0.277	-1	1.875	-1	6.768	0	1768	43	1.2
46551.9	10000	41.1137	93.4820	-1055	QKA	2.2	-1	7.9	1	1.2	1	0.281	-1	1.874	-1	6.659	0	1751	43	1.2
46551.8	10000	41.1137	93.4811	-1055	QKA	2.1	-1	8.0	1	1.2	1	0.268	-1	1.809	-1	6.753	0	1733	31	1.1
46551.7	10000	41.1137	93.4803	-1055	QKA	2.3	0	8.1	1	1.2	1	0.280	-1	1.963	-1	7.019	0	1726	36	1.1
46551.6	10000	41.1137	93.4795	-1056	QKA	2.4	0	8.3	1	1.1	1	0.297	-1	2.198	0	7.406	1	1735	43	1.1
46551.5	10000	41.1137	93.4786	-1055	QKA	2.4	0	8.4	2	1.1	1	0.292	-1	2.217	0	7.579	1	1717	36	1.1
46551.4	10000	41.1137	93.4778	-1056	QKA	2.2	0	8.6	2	1.1	1	0.262	-1	2.068	0	7.885	1	1704	47	1.1
46551.3	10000	41.1137	93.4769	-1056	QKA	2.2	0	8.4	2	1.1	1	0.262	-1	2.062	0	7.883	1	1710	51	1.1
46551.2	10000	41.1137	93.4761	-1056	QKA	2.2	-1	8.8	2	1.1	0	0.244	-1	1.938	-1	7.933	2	1726	49	1.1

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46551.1	10000	41.1137	93.4753	-1057	QKA	2.5	0	8.6	2	1.1	1	0.294	-1	2.217	0	7.530	1	17[illegible]	39	1.1
46551.0	10000	41.1137	93.4744	-1057	QKA	2.6	0	8.3	2	1.1	1	0.308	0	2.248	0	7.303	1	17[illegible]	51	1.1
46550.9	10000	41.1137	93.4736	-1058	QKA	2.6	0	7.9	1	1.1	0	0.327	0	2.270	0	6.946	0	1[illegible]	41	1.1
46550.8	10000	41.1137	93.4727	-1058	QKA	2.8	1	7.7	1	1.2	1	0.364	0	2.385	0	6.547	0	1[illegible]87	46	1.1
46550.7	10000	41.1137	93.4719	-1059	QKA	3.0	1	7.2	1	1.2	1	0.416	1	2.477	0	5.949	-1	1803	41	1.1
46550.6	10000	41.1137	93.4710	-1059	QKA	3.0	1	7.3	1	1.2	1	0.405	1	2.430	0	5.994	-1	1827	50	1.1
46550.5	10000	41.1137	93.4702	-1060	QKA	3.0	1	7.2	1	1.2	1	0.417	1	2.463	0	5.914	-1	1841	42	1.1
46550.4	10000	41.1137	93.4694	-1060	QKA	2.7	1	7.8	1	1.2	1	0.346	0	2.213	0	6.398	0	1856	53	1.1
46550.3	10000	41.1137	93.4685	-1061	QKA	2.5	0	8.2	1	1.2	1	0.304	0	2.018	0	6.633	0	1865	47	1.1
46550.2	10000	41.1137	93.4677	-1061	QKA	2.4	0	8.5	2	1.3	1	0.286	-1	1.894	-1	6.618	0	1865	43	1.1
46550.1	10000	41.1137	93.4668	-1061	QKA	2.4	0	8.4	2	1.3	1	0.288	-1	1.934	-1	6.710	0	1862	53	1.1
46550.0	10000	41.1137	93.4660	-1062	QKA	2.5	0	8.6	2	1.2	1	0.286	-1	2.020	0	7.060	0	1850	59	1.1
46549.9	10000	41.1137	93.4651	-1063	QKA	2.4	0	8.4	2	1.2	1	0.285	-1	1.979	-1	6.933	0	1830	47	1.1
46549.8	10000	41.1137	93.4643	-1064	QKA	2.6	0	8.2	1	1.2	1	0.321	0	2.262	0	7.053	0	1818	45	1.1
46549.7	10000	41.1137	93.4635	-1064	QKA	2.5	0	7.5	1	1.1	0	0.338	0	2.211	0	6.548	0	1794	44	1.1
46549.6	10000	41.1137	93.4626	-1065	QKA	2.7	0	6.9	1	1.1	0	0.390	1	2.453	0	6.294	0	1759	44	1.1
46549.5	10000	41.1137	93.4618	-1066	QKA	2.6	0	6.5	-1	1.0	0	0.399	1	2.493	0	6.251	-1	1732	46	1.1
46549.4	10000	41.1137	93.4609	-1066	QKA	2.5	0	6.8	-1	1.1	0	0.366	0	2.376	0	6.487	0	1714	44	1.1
46549.3	10000	41.1137	93.4601	-1067	QKA	2.3	0	6.8	-1	1.0	0	0.336	0	2.173	0	6.459	0	1696	43	1.1
46549.2	10000	41.1137	93.4592	-1068	QKA	2.3	0	6.7	-1	1.1	0	0.349	0	2.211	0	6.337	0	1689	62	1.1
46549.1	10000	41.1137	93.4584	-1068	QKA	2.2	0	7.1	0	1.1	0	0.308	0	2.038	0	6.608	0	1686	37	1.0
46549.0	10000	41.1137	93.4576	-1069	QKA	2.5	0	7.9	1	1.1	0	0.310	0	2.332	0	7.522	1	1678	46	1.0
46548.9	10000	41.1137	93.4567	-1070	QKA	2.3	0	7.9	1	1.0	0	0.297	-1	2.249	0	7.564	1	1682	39	1.0
46548.8	10000	41.1137	93.4559	-1070	QKA	2.4	0	8.0	1	1.0	0	0.302	-1	2.335	0	7.720	1	1699	48	1.0
46548.7	10000	41.1137	93.4550	-1072	QKA	2.4	0	8.3	2	1.0	-1	0.291	-1	2.433	0	8.371	2	1697	34	1.0
46548.6	10000	41.1137	93.4542	-1073	QKA	2.4	0	8.6	2	1.0	-1	0.282	-1	2.437	0	8.627	2	1697	45	1.0
46548.5	10000	41.1137	93.4534	-1073	QKA	2.4	0	8.5	2	1.0	-1	0.281	-1	2.423	0	8.631	2	1693	39	1.0
46548.4	10000	41.1137	93.4525	-1074	QKA	2.2	0	8.4	2	1.0	-1	0.262	-1	2.243	0	8.576	2	1688	44	1.0
46548.3	10000	41.1137	93.4517	-1076	QKA	2.0	-1	7.9	2	1.0	-1	0.257	-1	2.037	0	7.925	2	1695	50	1.0
46548.2	10000	41.1137	93.4508	-1076	QKA	2.3	0	8.4	2	1.0	-1	0.274	-1	2.277	0	8.315	2	1701	54	1.0
46548.1	10000	41.1137	93.4500	-1078	QKA	2.5	0	8.5	2	1.0	-1	0.293	-1	2.618	0	8.923	3	1688	34	1.0
46548.0	10000	41.1137	93.4491	-1078	QKA	2.4	0	8.2	2	1.0	-1	0.298	-1	2.474	0	8.291	2	1687	48	1.0
46547.9	10000	41.1137	93.4483	-1079	QKA	2.5	0	7.6	1	1.0	-1	0.333	0	2.639	0	7.915	2	1677	42	1.0
46547.8	10000	41.1137	93.4474	-1079	QKA	2.6	0	7.5	1	1.0	-1	0.345	0	2.688	0	7.787	1	1661	44	1.0
46547.7	10000	41.1137	93.4466	-1080	QKA	2.7	1	7.2	1	1.0	-1	0.376	0	2.937	0	7.823	1	1638	39	1.0
46547.6	10000	41.1137	93.4458	-1081	QKA	2.6	0	7.2	1	1.0	-1	0.367	0	2.968	0	8.077	2	1599	52	1.0
46547.5	10000	41.1137	93.4449	-1082	QKA	2.4	0	6.9	0	0.9	-1	0.350	0	2.736	0	7.808	1	1573	47	1.0
46547.4	10000	41.1137	93.4441	-1084	QKA	2.3	0	6.3	-1	0.9	-1	0.372	0	2.590	0	6.971	1	1561	44	1.0
46547.3	10000	41.1137	93.4432	-1084	QKA	2.4	0	6.3	-1	0.9	-1	0.389	0	2.691	0	6.917	1	1542	48	1.0
46547.2	10000	41.1137	93.4424	-1085	QKA	2.3	0	6.6	-1	0.9	-1	0.353	0	2.567	0	7.262	1	1546	42	1.0
46547.1	10000	41.1137	93.4416	-1086	QKA	2.4	0	6.7	-1	0.9	-1	0.362	0	2.566	0	7.083	1	1577	38	1.0
46547.0	10000	41.1137	93.4407	-1087	QKA	2.4	0	6.7	-1	1.0	0	0.359	0	2.313	0	6.450	0	1617	41	1.0
46546.9	10000	41.1137	93.4399	-1087	QKA	2.4	0	7.2	0	1.0	0	0.340	0	2.377	0	6.999	0	1662	50	1.0
46546.8	10000	41.1137	93.4390	-1088	QKA	2.4	0	7.4	1	1.1	0	0.322	0	2.269	0	7.040	0	1683	42	1.0
46546.7	10000	41.1137	93.4382	-1089	QKA	2.3	0	7.6	1	1.1	0	0.297	-1	2.123	0	7.139	1	1688	36	1.0
46546.6	10000	41.1137	93.4373	-1089	QKA	2.5	0	7.4	1	1.0	0	0.333	0	2.353	0	7.066	1	1686	41	1.0
46546.5	10000	41.1137	93.4365	-1089	QKA	2.4	0	7.3	1	1.0	0	0.323	0	2.288	0	7.086	1	1696	53	1.0
46546.4	10000	41.1137	93.4357	-1090	QKA	2.1	-1	7.4	1	1.0	0	0.284	-1	2.023	0	7.126	1	1687	48	1.0
46546.3	10000	41.1137	93.4348	-1090	QKA	2.0	-1	7.6	1	1.0	0	0.267	-1	2.047	0	7.671	1	1674	34	1.0
46546.2	10000	41.1137	93.4340	-1090	QKA	2.0	-1	7.1	1	1.0	-1	0.278	-1	1.952	-1	7.032	1	1665	43	1.0
46546.1	10000	41.1137	93.4331	-1089	QKA	2.2	0	6.9	0	1.0	-1	0.320	0	2.215	0	6.920	0	1661	38	1.0
46546.0	10000	41.1137	93.4323	-1089	QKA	2.1	-1	6.8	0	1.0	-1	0.314	0	2.194	0	6.980	0	1659	43	1.0

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46545.9	10000	41.1137	93.4315	-1088	QKA	2.0	-1	7.1	0	1.0	0	0.283	-1	1.986	-1	7.015	0	1678	49	1.0
46545.8	10000	41.1138	93.4306	-1088	QKA	2.0	-1	7.0	0	1.1	0	0.289	-1	1.919	-1	6.649	0	1681	48	1.0
46545.7	10000	41.1137	93.4298	-1087	QKA	2.3	0	6.9	0	1.0	0	0.334	0	2.276	0	6.804	0	1688	46	1.0
46545.6	10000	41.1137	93.4289	-1086	QKA	2.4	0	7.0	0	1.1	0	0.348	0	2.212	0	6.353	0	1719	52	1.0
46545.5	10000	41.1137	93.4281	-1084	QKA	2.5	0	7.2	0	1.1	0	0.343	0	2.186	0	6.378	0	1725	47	1.0
46545.4	10000	41.1138	93.4272	-1083	QKA	2.5	0	7.2	0	1.1	0	0.351	0	2.231	0	6.358	0	1739	50	1.0
46545.3	10000	41.1138	93.4264	-1081	QKA	2.7	1	7.2	0	1.1	0	0.371	0	2.366	0	6.378	0	1749	39	1.0
46545.2	10000	41.1137	93.4256	-1080	QKA	2.9	1	7.5	0	1.1	0	0.393	1	2.669	1	6.793	0	1769	51	1.0
46545.1	10000	41.1138	93.4247	-1078	QKA	3.1	1	8.0	1	1.1	0	0.388	1	2.809	1	7.247	1	1784	41	1.0
46545.0	10000	41.1138	93.4239	-1076	QKA	3.1	1	8.0	1	1.1	0	0.381	1	2.699	1	7.077	0	1786	41	1.0
46544.9	10000	41.1138	93.4230	-1075	QKA	3.0	1	7.7	1	1.1	0	0.389	1	2.844	1	7.309	1	1760	47	1.1
46544.8	10000	41.1138	93.4222	-1073	QKA	3.1	1	7.3	0	1.0	0	0.428	1	3.050	2	7.135	1	1752	43	1.1
46544.7	10000	41.1138	93.4213	-1071	QKA	2.8	1	7.4	0	1.1	0	0.378	1	2.654	1	7.029	0	1754	49	1.1
46544.6	10000	41.1138	93.4205	-1069	QKA	2.8	1	7.9	1	1.1	0	0.352	0	2.587	1	7.342	1	1772	37	1.1
46544.5	10000	41.1138	93.4196	-1069	QKA	2.4	0	7.5	0	1.1	0	0.327	0	2.194	0	6.707	0	1764	41	1.1
46544.4	10000	41.1138	93.4188	-1067	QKA	2.5	0	7.0	0	1.1	0	0.360	0	2.280	0	6.339	0	1753	41	1.1
46544.3	10000	41.1138	93.4179	-1065	QKA	2.4	0	7.1	0	1.1	0	0.342	0	2.191	0	6.416	0	1745	41	1.1
46544.2	10000	41.1138	93.4171	-1064	QKA	2.4	0	7.6	1	1.1	0	0.318	0	2.161	0	6.800	0	1734	55	1.1
46544.1	10000	41.1138	93.4162	-1062	QKA	2.3	0	7.9	1	1.2	1	0.290	-1	1.954	-1	6.731	0	1736	40	1.1
46544.0	10000	41.1138	93.4153	-1061	QKA	2.2	0	7.7	1	1.2	1	0.289	-1	1.933	-1	6.689	0	1717	35	1.1
46543.9	10000	41.1138	93.4145	-1059	QKA	2.1	-1	7.3	0	1.1	0	0.290	-1	1.857	-1	6.408	0	1696	52	1.1
46543.8	10000	41.1138	93.4136	-1058	QKA	2.4	0	7.6	1	1.1	0	0.318	0	2.204	0	6.922	0	1691	42	1.1
46543.7	10000	41.1138	93.4128	-1056	QKA	2.4	0	7.8	1	1.1	0	0.304	0	2.141	0	7.053	0	1694	41	1.1
46543.6	10000	41.1138	93.4119	-1053	QKA	2.5	0	7.8	1	1.1	0	0.316	0	2.221	0	7.019	0	1709	45	1.1
46543.5	10000	41.1138	93.4110	-1052	QKA	2.5	0	7.7	1	1.2	1	0.322	0	2.145	0	6.655	0	1739	47	1.1
46543.4	10000	41.1138	93.4102	-1049	QKA	2.7	1	7.9	1	1.1	0	0.336	0	2.365	0	7.031	0	1761	46	1.1
46543.3	10000	41.1138	93.4093	-1047	QKA	2.7	1	8.2	1	1.1	0	0.334	0	2.397	0	7.169	1	1787	45	1.1
46543.2	10000	41.1138	93.4084	-1046	QKA	2.8	1	8.4	2	1.2	1	0.331	0	2.362	0	7.135	1	1803	47	1.1
46543.1	10000	41.1138	93.4076	-1044	QKA	2.6	1	8.5	2	1.2	1	0.310	0	2.189	0	7.053	0	1814	51	1.1
46543.0	10000	41.1138	93.4067	-1042	QKA	2.7	1	8.5	2	1.2	1	0.313	0	2.309	0	7.373	1	1824	39	1.1
46542.9	10000	41.1138	93.4059	-1041	QKA	2.5	0	8.6	2	1.1	0	0.293	-1	2.249	0	7.673	1	1808	34	1.1
46542.8	10000	41.1138	93.4050	-1039	QKA	2.6	1	8.5	2	1.1	0	0.305	-1	2.304	0	7.618	1	1785	43	1.1
46542.7	10000	41.1138	93.4041	-1037	QKA	2.3	0	8.2	1	1.1	0	0.281	-1	2.083	0	7.420	1	1751	37	1.1
46542.6	10000	41.1138	93.4033	-1035	QKA	2.5	1	8.2	1	1.1	0	0.302	-1	2.289	0	7.590	1	1722	41	1.1
46542.5	10000	41.1138	93.4024	-1032	QKA	2.5	1	7.6	1	1.0	0	0.327	0	2.434	0	7.456	1	1691	55	1.1
46542.4	10000	41.1138	93.4016	-1029	QKA	2.5	0	7.3	0	1.0	-1	0.350	0	2.555	1	7.311	1	1668	50	1.1
46542.3	10000	41.1138	93.4007	-1027	QKA	2.6	-1	6.7	-1	1.0	0	0.383	1	2.516	1	6.576	0	1636	47	1.2
46542.2	10000	41.1138	93.3999	-1024	QKA	2.5	-1	6.6	-1	1.0	0	0.380	1	2.430	0	6.401	0	1633	46	1.2
46542.1	10000	41.1138	93.3990	-1020	QKA	2.5	-1	6.5	-1	1.0	0	0.391	1	2.487	0	6.365	0	1648	45	1.2
46542.0	10000	41.1138	93.3981	-1017	QKA	2.5	-1	6.4	-1	1.0	0	0.394	1	2.447	0	6.205	-1	1666	50	1.2
46541.9	10000	41.1138	93.3973	-1013	QKA	2.3	-1	6.7	-1	1.1	0	0.346	0	2.127	0	6.140	-1	1689	42	1.2
46541.8	10000	41.1138	93.3964	-1008	QKA	2.3	0	7.0	0	1.1	0	0.326	0	2.050	0	6.283	-1	1716	44	1.2
46541.7	10000	41.1138	93.3956	-1003	QKA	2.2	0	7.2	0	1.2	0	0.306	0	1.873	-1	6.123	-1	1723	44	1.2
46541.6	10000	41.1138	93.3947	-999	QKA	2.1	-1	7.5	0	1.2	1	0.286	-1	1.819	-1	6.356	0	1731	44	1.2
46541.5	10000	41.1138	93.3938	-994	QKA	2.4	0	7.3	0	1.2	1	0.328	0	2.072	0	6.323	0	1730	49	1.2
46541.4	10000	41.1138	93.3930	-989	QKA	2.3	0	7.1	0	1.1	1	0.319	0	2.040	0	6.398	0	1706	40	1.2
46541.3	10000	41.1138	93.3921	-984	QKA	2.5	0	7.0	0	1.1	1	0.351	0	2.238	0	6.371	0	1685	48	1.2
46541.2	10000	41.1138	93.3913	-978	QKA	2.5	0	6.9	0	1.1	0	0.358	0	2.390	0	6.680	0	1661	44	1.2
46541.1	10000	41.1138	93.3904	-973	QKA	2.6	0	6.9	0	1.1	0	0.374	0	2.510	0	6.718	0	1647	56	1.2
46541.0	10000	41.1138	93.3895	-968	QKA	2.6	-1	6.8	-1	1.0	-1	0.380	0	2.620	1	6.887	0	1637	47	1.2
46540.9	10000	41.1138	93.3887	-963	QKA	2.4	-1	6.6	-1	1.0	0	0.367	0	2.347	0	6.397	0	1635	51	1.2
46540.8	10000	41.1138	93.3878	-958	QKA	2.1	-1	6.6	-1	1.0	0	0.314	0	2.035	0	6.473	0	1608	36	1.2

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46540.7	10000	41.1138	93.3870	-954	QKA	2.1	-1	6.4	-1	1.0	0	0.333	0	2.080	0	6.237	-1	1579	54	1.2
46540.6	10000	41.1138	93.3861	-951	QKA	2.1	-1	6.6	-1	1.0	-1	0.313	0	2.069	0	6.621	0	1580	38	1.2
46540.5	10000	41.1138	93.3852	-948	QKA	2.2	0	6.2	-1	1.0	-1	0.358	0	2.238	0	6.260	-1	1573	47	1.2
46540.4	10000	41.1138	93.3844	-946	QKA	2.1	-1	6.1	-1	0.9	-1	0.351	0	2.249	0	6.416	0	1563	50	1.3
46540.3	10000	41.1139	93.3835	-944	QKA	2.1	-1	6.2	-1	1.0	-1	0.342	0	2.159	0	6.310	0	1584	41	1.3
46540.2	10000	41.1139	93.3827	-942	QKA	2.2	0	6.6	-1	0.9	-1	0.334	0	2.335	0	6.991	0	1596	37	1.3
46540.1	10000	41.1139	93.3818	-940	QKA	2.4	0	6.9	0	1.0	-1	0.354	0	2.484	0	7.026	0	1635	42	1.3
46540.0	10000	41.1139	93.3809	-939	QKA	2.6	0	7.2	0	1.0	0	0.358	0	2.478	0	6.913	0	1688	39	1.3
46539.9	10000	41.1139	93.3801	-939	QKA	2.4	0	7.3	0	1.1	0	0.324	0	2.221	0	6.850	0	1696	48	1.3
46539.8	10000	41.1139	93.3792	-940	QKA	2.2	0	7.7	1	1.0	0	0.284	-1	2.097	0	7.373	1	1693	48	1.3
46539.7	10000	41.1139	93.3784	-941	QKA	1.8	-1	7.9	1	1.1	0	0.233	-2	1.705	-1	7.311	1	1678	49	1.3
46539.6	10000	41.1139	93.3775	-941	QKA	1.7	-1	8.1	1	1.1	0	0.215	-2	1.652	-1	7.688	1	1628	39	1.3
46539.5	10000	41.1139	93.3766	-942	QKA	1.8	-1	7.5	1	1.0	0	0.233	-2	1.692	-1	7.249	1	1595	50	1.3
46539.4	10000	41.1139	93.3758	-943	QKA	1.7	-1	7.1	0	1.0	0	0.242	-1	1.667	-1	6.888	0	1564	41	1.3
46539.3	10000	41.1139	93.3749	-944	QKA	1.8	-1	7.2	0	0.9	-1	0.245	-1	1.856	-1	7.575	1	1528	47	1.3
46539.2	10000	41.1139	93.3741	-945	QKA	2.1	-1	6.9	0	0.9	-1	0.300	-1	2.259	0	7.534	1	1520	49	1.3
46539.1	10000	41.1139	93.3732	-948	QKA	2.2	0	6.6	-1	0.9	-1	0.325	0	2.327	0	7.154	1	1543	40	1.3
46539.0	10000	41.1139	93.3723	-950	QKA	2.4	0	6.7	-1	0.9	-1	0.359	0	2.516	1	7.006	0	1569	50	1.3
46538.9	10000	41.1139	93.3715	-951	QKA	2.5	0	6.4	-1	0.9	-1	0.387	1	2.711	1	6.996	0	1601	47	1.3
46538.8	10000	41.1139	93.3706	-954	QKA	2.3	0	6.7	-1	0.9	-1	0.348	0	2.573	1	7.385	1	1605	50	1.3
46538.7	10000	41.1139	93.3698	-956	QKA	2.4	0	7.0	0	0.9	-1	0.335	0	2.619	1	7.810	1	1614	51	1.3
46538.6	10000	41.1139	93.3689	-958	QKA	2.0	-1	7.3	0	1.0	-1	0.268	-1	2.047	0	7.630	1	1611	45	1.4
46538.5	10000	41.1139	93.3680	-961	QKA	1.8	-1	7.1	0	1.0	-1	0.259	-1	1.841	-1	7.119	1	1606	55	1.4
46538.4	10000	41.1139	93.3672	-964	QKA	1.8	-1	7.1	0	1.0	0	0.258	-1	1.797	-1	6.972	0	1587	40	1.4
46538.3	10000	41.1139	93.3663	-968	QKA	1.6	-2	6.9	0	1.0	-1	0.235	-1	1.653	-1	7.050	0	1563	46	1.4
46538.2	10000	41.1139	93.3655	-971	QKA	1.6	-2	7.1	0	1.0	-1	0.231	-2	1.683	-1	7.285	1	1539	41	1.4
46538.1	10000	41.1139	93.3646	-975	QKA	1.6	-2	7.2	0	1.0	-1	0.225	-2	1.715	-1	7.627	1	1543	47	1.4
46538.0	10000	41.1139	93.3637	-979	QKA	1.5	-2	7.0	0	0.9	-1	0.215	-2	1.619	-1	7.539	1	1542	40	1.4
46537.9	10000	41.1139	93.3629	-983	QKA	1.8	-1	6.9	0	0.9	-1	0.268	-1	2.003	0	7.478	1	1561	40	1.4
46537.8	10000	41.1139	93.3620	-987	QKA	1.7	-1	6.9	0	0.9	-1	0.247	-1	1.906	-1	7.712	1	1565	50	1.4
46537.7	10000	41.1139	93.3612	-990	QKA	1.6	-2	7.1	0	0.9	-1	0.233	-2	1.749	-1	7.511	1	1574	44	1.4
46537.6	10000	41.1139	93.3603	-994	QKA	1.7	-1	7.0	0	1.0	-1	0.244	-1	1.787	-1	7.310	1	1585	45	1.4
46537.5	10000	41.1139	93.3594	-997	QKA	1.6	-2	6.9	0	1.0	-1	0.230	-2	1.617	-1	7.031	0	1617	46	1.4
46537.4	10000	41.1139	93.3586	-1001	QKA	1.8	-1	6.9	0	1.0	-1	0.253	-1	1.779	-1	7.020	0	1637	51	1.4
46537.3	10000	41.1139	93.3577	-1006	QKA	2.0	-1	7.2	0	1.0	-1	0.276	-1	1.991	-1	7.214	1	1656	44	1.4
46537.2	10000	41.1139	93.3569	-1009	QKA	2.2	0	7.4	0	1.0	-1	0.301	-1	2.299	0	7.635	1	1673	37	1.4
46537.1	10000	41.1139	93.3560	-1014	QKA	2.3	0	7.5	0	1.0	-1	0.307	0	2.404	0	7.819	1	1680	46	1.4
46537.0	10000	41.1139	93.3551	-1018	QKA	2.6	0	7.2	0	0.9	-1	0.359	0	2.844	1	7.922	2	1674	42	1.4
46536.9	10000	41.1139	93.3543	-1021	QKA	2.8	1	7.3	0	0.9	-1	0.390	1	3.145	2	8.054	2	1674	49	1.4
46536.8	10000	41.1139	93.3534	-1025	QKA	2.8	1	7.3	0	0.9	-1	0.390	1	3.056	2	7.841	1	1651	48	1.4
46536.7	10000	41.1139	93.3526	-1030	QKA	2.8	1	6.9	0	0.9	-1	0.403	1	3.034	2	7.530	1	1621	53	1.4
46536.6	10000	41.1139	93.3517	-1034	QKA	2.7	1	6.3	-1	0.9	-1	0.424	1	2.987	2	7.050	1	1581	46	1.4
46536.5	10000	41.1139	93.3508	-1038	QKA	2.2	0	6.1	-1	0.9	-1	0.364	0	2.467	1	6.778	0	1550	42	1.4
46536.4	10000	41.1139	93.3500	-1042	QKA	2.0	-1	5.6	-2	0.9	-1	0.361	0	2.244	0	6.216	-1	1506	54	1.4
46536.3	10000	41.1139	93.3491	-1046	QKA	1.9	-1	5.7	-2	0.9	-1	0.331	0	2.102	0	6.346	0	1472	48	1.4
46536.2	10000	41.1139	93.3483	-1049	QKA	1.7	-1	5.8	-2	0.9	-1	0.297	-1	1.917	-1	6.461	0	1457	44	1.4
46536.1	10000	41.1139	93.3474	-1052	QKA	1.8	-1	5.5	-2	0.9	-2	0.325	0	2.091	0	6.440	0	1446	45	1.4
46536.0	10000	41.1139	93.3465	-1056	QKA	1.8	-1	5.7	-2	0.9	-2	0.319	0	2.126	0	6.663	0	1432	46	1.4
46535.9	10000	41.1139	93.3457	-1059	QKA	2.1	-1	5.7	-2	0.9	-2	0.362	1	2.385	1	6.588	0	1444	33	1.4
46535.8	10000	41.1139	93.3448	-1062	QKA	2.2	0	5.3	-2	0.9	-2	0.413	1	2.517	1	6.099	-1	1449	42	1.4
46535.7	10000	41.1139	93.3440	-1065	QKA	2.5	0	5.6	-2	0.9	-2	0.446	2	2.988	1	6.699	0	1468	44	1.4
46535.6	10000	41.1139	93.3431	-1067	QKA	2.5	0	5.5	-2	0.9	-2	0.445	2	2.887	1	6.485	0	1490	40	1.4

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46535.5	10000	41.1139	93.3423	-1069	QKA	2.5	0	5.4	-2	0.9	-2	0.454	2	2.855	1	6.291	0	1501	42	1.4
46535.4	10000	41.1139	93.3414	-1071	QKA	2.6	0	5.7	-2	0.8	-2	0.454	2	3.154	1	6.939	0	1518	61	1.4
46535.3	10000	41.1139	93.3405	-1072	QKA	2.5	0	5.7	-2	0.8	-2	0.432	1	2.948	1	6.826	0	1549	53	1.4
46535.2	10000	41.1139	93.3397	-1073	QKA	2.2	0	6.1	-1	0.9	-1	0.362	0	2.446	0	6.752	0	1583	48	1.4
46535.1	10000	41.1139	93.3388	-1074	QKA	2.3	0	6.5	-1	0.9	-1	0.353	0	2.438	0	6.911	0	1599	44	1.4
46535.0	10000	41.1139	93.3380	-1074	QKA	2.2	0	6.7	-1	1.0	-1	0.327	0	2.236	0	6.828	0	1633	39	1.4
46534.9	10000	41.1139	93.3371	-1076	QKA	2.1	-1	6.9	0	1.0	-1	0.304	0	2.097	0	6.892	0	1649	46	1.4
46534.8	10000	41.1139	93.3362	-1077	QKA	2.1	-1	6.9	0	1.0	0	0.301	-1	1.995	-1	6.626	0	1661	44	1.4
46534.7	10000	41.1139	93.3354	-1078	QKA	1.9	-1	7.3	0	1.1	0	0.266	-1	1.766	-1	6.642	0	1674	42	1.4
46534.6	10000	41.1139	93.3345	-1079	QKA	2.1	-1	7.4	0	1.1	0	0.283	-1	1.866	-1	6.604	0	1687	53	1.4
46534.5	10000	41.1140	93.3336	-1080	QKA	2.1	-1	7.2	0	1.1	0	0.289	-1	1.972	-1	6.829	0	1676	50	1.4
46534.4	10000	41.1140	93.3328	-1080	QKA	2.1	-1	7.4	0	1.1	0	0.277	-1	1.942	-1	7.003	0	1687	40	1.4
46534.3	10000	41.1140	93.3319	-1081	QKA	2.2	0	7.5	0	1.0	0	0.292	-1	2.102	0	7.204	1	1690	43	1.4
46534.2	10000	41.1140	93.3311	-1082	QK	2.2	-1	7.5	0	1.0	-1	0.289	-1	2.110	0	7.298	1	1700	65	1.4
46534.1	10000	41.1140	93.3302	-1081	QK	2.4	0	7.1	0	1.0	-1	0.312	-1	2.449	0	7.837	2	1704	41	1.4
46534.0	10000	41.1140	93.3293	-1081	QK	2.3	0	7.1	0	1.0	-1	0.331	0	2.367	0	7.146	1	1713	50	1.4
46533.9	10000	41.1140	93.3285	-1081	QK	2.6	0	7.7	1	1.0	-1	0.333	0	2.599	1	7.801	2	1730	47	1.4
46533.8	10000	41.1140	93.3276	-1080	QK	2.8	1	7.9	1	1.0	-1	0.355	0	2.872	1	8.101	2	1742	41	1.4
46533.7	10000	41.1140	93.3268	-1080	QK	2.8	1	7.9	1	0.9	-1	0.351	0	2.938	1	8.375	3	1736	55	1.4
46533.6	10000	41.1140	93.3259	-1078	QK	2.5	0	7.9	1	0.9	-2	0.324	0	2.770	1	8.543	3	1739	45	1.4
46533.5	10000	41.1140	93.3251	-1077	QK	2.7	0	7.9	1	0.9	-2	0.347	0	3.082	2	8.891	3	1746	50	1.4
46533.4	10000	41.1140	93.3242	-1075	QK	2.5	0	8.2	1	0.9	-2	0.308	-1	2.736	1	8.879	3	1754	50	1.3
46533.3	10000	41.1140	93.3233	-1073	QK	2.8	0	8.4	2	0.9	-2	0.336	0	3.224	2	9.603	4	1747	49	1.3
46533.2	10000	41.1140	93.3225	-1070	QK	2.5	0	7.9	1	0.9	-2	0.314	-1	2.899	1	9.229	4	1729	36	1.3
46533.1	10000	41.1140	93.3216	-1068	QK	2.4	0	7.6	1	0.9	-2	0.321	0	2.724	1	8.481	3	1729	53	1.3
46533.0	10000	41.1140	93.3208	-1065	QK	2.4	0	7.8	1	0.9	-2	0.311	-1	2.654	1	8.532	3	1721	55	1.3
46532.9	10000	41.1140	93.3199	-1062	QK	2.2	-1	7.6	1	1.0	-1	0.297	-1	2.276	1	7.672	2	1714	48	1.3
46532.8	10000	41.1140	93.3190	-1059	QK	2.5	0	7.7	1	1.0	-1	0.320	0	2.383	1	7.449	1	1734	53	1.3
46532.7	10000	41.1140	93.3182	-1056	QK	2.4	0	7.5	1	1.0	-1	0.322	0	2.350	1	7.293	1	1761	43	1.3
46532.6	10000	41.1140	93.3173	-1053	QK	2.3	-1	7.5	1	1.1	-1	0.305	-1	2.136	1	7.003	1	1793	48	1.3
46532.5	10000	41.1140	93.3165	-1049	QK	2.3	0	7.7	1	1.1	-1	0.298	-1	2.083	1	6.992	1	1810	31	1.3
46532.4	10000	41.1140	93.3156	-1046	QK	2.0	-1	8.0	1	1.1	-1	0.245	-1	1.740	-1	7.118	1	1822	50	1.3
46532.3	10000	41.1140	93.3147	-1042	QK	2.2	-1	7.7	1	1.1	-1	0.290	-1	1.973	-1	6.799	0	1854	38	1.3
46532.2	10000	41.1140	93.3139	-1040	QK	2.3	-1	8.1	1	1.2	-1	0.281	-1	1.953	-1	6.948	1	1849	50	1.3
46532.1	10000	41.1140	93.3130	-1039	QK	2.1	-1	8.0	1	1.2	-1	0.262	-1	1.825	-1	6.976	1	1823	36	1.3
46532.0	10000	41.1140	93.3121	-1038	QK	2.1	-1	7.7	1	1.1	-1	0.275	-1	1.849	-1	6.733	0	1791	52	1.3
46531.9	10000	41.1140	93.3113	-1036	QK	2.0	-1	7.7	1	1.1	-1	0.261	-1	1.828	-1	7.004	1	1753	47	1.3
46531.8	10000	41.1140	93.3104	-1035	QK	2.1	-1	7.6	1	1.1	-1	0.277	-1	1.981	-1	7.154	1	1717	42	1.3
46531.7	10000	41.1140	93.3096	-1035	QK	2.1	-1	7.1	1	1.0	-1	0.301	-1	2.140	0	7.115	1	1684	43	1.3
46531.6	10000	41.1140	93.3087	-1034	QK	1.9	-1	7.1	0	1.0	-1	0.267	-1	1.935	-1	7.245	1	1640	40	1.3
46531.5	10000	41.1140	93.3079	-1035	QK	2.0	-1	6.8	-1	0.9	-2	0.289	-1	2.163	0	7.475	1	1616	57	1.3
46531.4	10000	41.1140	93.3070	-1036	QK	2.1	-1	6.6	-1	0.9	-2	0.314	-1	2.368	0	7.543	2	1592	44	1.3
46531.3	10000	41.1140	93.3061	-1037	QK	2.0	-1	7.0	0	0.8	-2	0.281	-1	2.367	0	8.409	3	1578	59	1.3
46531.2	10000	41.1140	93.3053	-1039	QK	2.1	-1	7.1	0	0.8	-2	0.304	-1	2.601	1	8.563	3	1574	38	1.3
46531.1	10000	41.1140	93.3044	-1041	QK	2.1	-1	6.8	-1	0.8	-2	0.314	-1	2.574	1	8.188	3	1578	42	1.3
46531.0	10000	41.1140	93.3036	-1043	QK	2.3	0	7.5	0	0.8	-2	0.308	-1	2.749	1	8.924	3	1576	43	1.3
46530.9	10000	41.1140	93.3027	-1046	QK	2.4	0	7.2	0	0.9	-2	0.338	0	2.834	1	8.394	3	1580	39	1.3
46530.8	10000	41.1140	93.3018	-1048	QK	2.6	0	7.0	0	0.9	-2	0.375	0	2.952	1	7.877	3	1580	38	1.3
46530.7	10000	41.1140	93.3010	-1051	QK	2.4	0	6.9	0	0.9	-2	0.351	0	2.569	1	7.327	2	1584	45	1.3
46530.6	10000	41.1140	93.3001	-1054	QK	2.4	-1	6.7	-1	1.0	-1	0.357	0	2.470	1	6.922	1	1576	45	1.3
46530.5	10000	41.1140	93.2993	-1057	QK	2.1	-1	6.7	-1	1.0	-1	0.313	-1	2.091	0	6.681	0	1566	49	1.3
46530.4	10000	41.1140	93.2984	-1060	QK	2.1	-1	6.8	-1	1.0	-1	0.310	-1	2.064	0	6.668	0	1555	44	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46530.3	10000	41.1140	93.2975	-1063	QK	2.0	-1	6.4	-1	1.1	0	0.309	-1	1.838	-1	5.946	-1	1549	52	1.3
46530.2	10000	41.1140	93.2967	-1066	QK	1.8	-1	6.5	-1	1.0	-1	0.281	-1	1.794	-1	6.380	0	1538	33	1.3
46530.1	10000	41.1140	93.2958	-1069	QK	1.8	-1	6.8	-1	1.0	-1	0.270	-1	1.780	-1	6.597	0	1543	46	1.3
46530.0	10000	41.1140	93.2950	-1072	QK	1.7	-2	6.6	-1	1.0	-1	0.261	-1	1.762	-1	6.745	0	1537	43	1.3
46529.9	10000	41.1140	93.2941	-1074	QK	2.0	-1	6.8	-1	1.0	-1	0.295	-1	2.055	0	6.973	1	1555	52	1.3
46529.8	10000	41.1140	93.2932	-1077	QK	2.1	-1	6.7	-1	1.0	-1	0.320	0	2.191	0	6.849	1	1570	52	1.3
46529.7	10000	41.1140	93.2924	-1080	QK	2.2	-1	6.6	-1	1.0	-1	0.334	0	2.108	0	6.318	0	1613	46	1.3
46529.6	10000	41.1140	93.2915	-1083	QK	2.1	-1	6.9	0	1.0	-1	0.302	-1	2.008	-1	6.656	0	1648	35	1.3
46529.5	10000	41.1140	93.2907	-1084	QK	2.1	-1	7.3	0	1.1	0	0.284	-1	1.879	-1	6.613	0	1685	39	1.3
46529.4	10000	41.1140	93.2898	-1087	QK	2.0	-1	7.3	0	1.1	0	0.279	-1	1.788	-1	6.406	0	1723	37	1.3
46529.3	10000	41.1140	93.2889	-1088	QK	2.2	-1	7.7	1	1.2	1	0.280	-1	1.782	-1	6.363	0	1762	44	1.3
46529.2	10000	41.1140	93.2881	-1090	QK	2.1	-1	7.7	1	1.3	1	0.273	-1	1.663	-1	6.098	-1	1790	48	1.3
46529.1	10000	41.1140	93.2872	-1092	QK	2.2	-1	7.6	1	1.3	2	0.286	-1	1.652	-1	5.776	-1	1818	36	1.3
46529.0	10000	41.1140	93.2864	-1094	QK	2.1	-1	7.8	1	1.4	2	0.275	-1	1.586	-1	5.767	-1	1824	58	1.3
46528.9	10000	41.1140	93.2855	-1096	QK	2.4	0	7.8	1	1.3	2	0.312	-1	1.850	-1	5.935	-1	1840	46	1.3
46528.8	10000	41.1140	93.2847	-1098	QK	2.6	0	7.4	0	1.3	2	0.355	0	1.971	-1	5.543	-1	1839	37	1.3
46528.7	10000	41.1141	93.2839	-1100	QK	2.6	0	7.5	0	1.3	1	0.342	0	2.017	-1	5.903	-1	1817	55	1.3
46528.6	10000	41.1141	93.2830	-1101	QK	2.6	0	7.6	0	1.2	1	0.345	0	2.129	0	6.179	0	1808	52	1.3
46528.5	10000	41.1141	93.2822	-1104	QK	2.7	0	7.4	0	1.2	1	0.368	0	2.278	0	6.188	0	1776	51	1.3
46528.4	10000	41.1141	93.2813	-1106	QK	2.6	0	7.3	0	1.1	0	0.358	0	2.318	0	6.468	0	1750	39	1.3
46528.3	10000	41.1141	93.2805	-1107	QK	2.6	0	7.7	1	1.0	-1	0.342	0	2.540	1	7.432	1	1727	42	1.3
46528.2	10000	41.1141	93.2797	-1109	QK	2.4	0	7.7	1	1.0	-1	0.311	-1	2.330	1	7.484	1	1682	32	1.3
46528.1	10000	41.1141	93.2788	-1111	QK	2.2	-1	7.9	1	1.0	-1	0.282	-1	2.329	3	8.267	3	1647	44	1.3
46528.0	10000	41.1141	93.2780	-1113	QK	2.2	-1	7.8	1	1.0	-1	0.283	-1	2.245	2	7.925	2	1626	49	1.3
46527.9	10000	41.1141	93.2771	-1115	QK	2.2	-1	7.3	0	1.0	-1	0.301	-1	2.270	1	7.530	1	1601	43	1.3
46527.8	10000	41.1141	93.2763	-1117	QK	2.2	-1	7.3	0	1.0	-1	0.300	-1	2.245	0	7.475	1	1584	36	1.3
46527.7	10000	41.1141	93.2755	-1120	QK	2.4	0	7.3	0	0.9	-2	0.325	0	2.582	1	7.945	2	1583	43	1.3
46527.6	10000	41.1142	93.2746	-1122	QK	2.4	0	6.9	0	0.9	-2	0.344	0	2.643	1	7.675	2	1574	36	1.3
46527.5	10000	41.1142	93.2738	-1124	QK	2.3	0	7.1	0	0.9	-2	0.326	0	2.626	1	8.055	2	1585	53	1.3
46527.4	10000	41.1142	93.2729	-1125	QK	2.3	0	7.1	0	0.9	-2	0.327	0	2.534	1	7.759	2	1597	49	1.3
46527.3	10000	41.1142	93.2721	-1127	QK	2.3	0	7.3	0	0.9	-2	0.312	-1	2.587	1	8.281	3	1603	49	1.3
46527.2	10000	41.1142	93.2713	-1128	QK	2.3	0	7.8	0	0.9	-2	0.292	-1	2.590	1	8.866	3	1611	38	1.3
46527.1	10000	41.1142	93.2704	-1130	QK	2.3	0	7.9	1	0.9	-2	0.292	-1	2.706	1	9.261	4	1616	37	1.3
46527.0	10000	41.1142	93.2696	-1132	QK	2.2	-1	7.9	1	0.9	-2	0.278	-1	2.493	1	8.977	4	1610	43	1.3
46526.9	10000	41.1142	93.2687	-1133	QK	2.1	-1	8.0	1	0.9	-2	0.259	-1	2.393	0	9.243	4	1605	40	1.3
46526.8	10000	41.1142	93.2679	-1134	QK	2.4	-1	7.8	1	0.9	-2	0.302	-1	2.650	1	8.769	3	1605	50	1.3
46526.7	10000	41.1142	93.2671	-1136	QK	2.4	-1	7.8	1	0.9	-2	0.311	-1	2.641	1	8.484	3	1629	48	1.3
46526.6	10000	41.1142	93.2662	-1137	QK	2.5	-1	7.9	1	1.0	-1	0.310	-1	2.560	1	8.258	3	1667	55	1.3
46526.5	10000	41.1142	93.2654	-1137	QK	2.3	-1	8.1	1	1.0	-1	0.291	-1	2.300	0	7.896	2	1691	51	1.3
46526.4	10000	41.1142	93.2645	-1139	QK	2.3	-1	8.5	1	1.0	-1	0.279	-1	2.170	0	7.764	2	1733	43	1.3
46526.3	10000	41.1143	93.2637	-1140	QK	2.2	-1	8.1	1	1.1	-1	0.263	-1	2.137	0	8.115	2	1764	32	1.3
46526.2	10000	41.1143	93.2629	-1141	QK	2.4	-1	8.0	1	1.1	-1	0.297	-1	2.186	1	7.372	2	1786	49	1.3
46526.1	10000	41.1143	93.2620	-1142	QK	2.5	-1	8.2	1	1.1	-1	0.317	0	2.328	1	7.338	2	1805	51	1.3
46526.0	10000	41.1143	93.2612	-1142	QK	2.4	-1	8.0	1	1.1	-1	0.295	-1	2.293	1	7.772	2	1805	44	1.3
46525.9	10000	41.1143	93.2603	-1142	QK	2.2	-1	8.0	1	1.1	-1	0.273	-1	2.163	1	7.922	2	1813	51	1.3
46525.8	10000	41.1143	93.2595	-1143	QK	2.4	-1	8.0	1	1.1	-1	0.288	-1	2.128	1	7.385	2	1818	35	1.3
46525.7	10000	41.1143	93.2587	-1144	QK	2.4	-1	8.0	1	1.1	-1	0.288	-1	2.182	1	7.590	2	1817	37	1.3
46525.6	10000	41.1143	93.2578	-1144	QK	2.4	-1	8.0	1	1.1	-1	0.293	-1	2.140	1	7.297	2	1814	47	1.3
46525.5	10000	41.1143	93.2570	-1144	QK	2.4	-1	8.0	1	1.1	-1	0.266	-1	2.146	1	8.074	2	1818	37	1.3
46525.4	10000	41.1143	93.2561	-1144	QK	2.1	-2	8.0	1	1.2	-1	0.238	-2	1.836	-1	7.716	2	1821	40	1.3
46525.3	10000	41.1143	93.2553	-1143	QK	2.3	-1	8.0	1	1.2	-1	0.277	-1	2.008	-1	7.245	1	1829	41	1.3
46525.2	10000	41.1143	93.2545	-1142	QK	2.6	0	8.3	2	1.2	0	0.316	0	2.281	0	7.228	1	1833	45	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46525.1	10000	41.1143	93.2536	-1142	QK	2.7	0	8.3	1	1.1	0	0.327	0	2.506	1	7.676	2	1835	42	1.3
46525.0	10000	41.1144	93.2528	-1141	QK	2.7	0	8.3	1	1.1	0	0.320	0	2.485	0	7.759	2	1824	46	1.3
46524.9	10000	41.1144	93.2519	-1139	QK	2.5	0	7.9	1	1.1	0	0.319	0	2.339	0	7.325	1	1814	43	1.3
46524.8	10000	41.1144	93.2511	-1138	QK	2.6	0	7.3	0	1.1	0	0.357	0	2.380	0	6.668	0	1799	44	1.3
46524.7	10000	41.1144	93.2503	-1137	QK	2.6	0	7.4	0	1.1	0	0.347	0	2.320	0	6.685	0	1787	50	1.3
46524.6	10000	41.1144	93.2494	-1136	QK	2.3	0	7.7	1	1.1	0	0.298	-1	2.064	0	6.928	1	1762	37	1.3
46524.5	10000	41.1144	93.2486	-1134	QK	2.4	0	7.4	0	1.1	0	0.323	0	2.162	0	6.692	0	1737	54	1.3
46524.4	10000	41.1144	93.2477	-1132	QK	2.3	-1	7.7	1	1.2	0	0.297	-1	1.933	-1	6.520	0	1731	43	1.3
46524.3	10000	41.1144	93.2469	-1130	QK	2.2	-1	7.5	0	1.2	1	0.294	-1	1.822	-1	6.192	0	1743	45	1.3
46524.2	10000	41.1144	93.2461	-1128	QK	2.4	0	7.9	1	1.2	1	0.307	-1	2.012	-1	6.551	0	1745	39	1.3
46524.1	10000	41.1144	93.2452	-1127	QK	2.3	-1	8.1	1	1.2	1	0.282	-1	1.889	-1	6.703	0	1753	37	1.3
46524.0	10000	41.1144	93.2444	-1125	QK	2.3	0	8.1	1	1.2	1	0.288	-1	1.960	-1	6.795	0	1767	43	1.3
46523.9	10000	41.1144	93.2435	-1123	QK	2.4	0	7.9	1	1.2	1	0.306	-1	1.957	-1	6.406	0	1786	52	1.3
46523.8	10000	41.1144	93.2427	-1120	QK	2.2	-1	8.0	1	1.2	1	0.275	-1	1.752	-1	6.368	0	1801	45	1.3
46523.7	10000	41.1145	93.2419	-1118	QK	2.4	0	8.1	1	1.2	0	0.294	-1	2.049	0	6.979	1	1797	45	1.3
46523.6	10000	41.1145	93.2410	-1115	QK	2.5	0	8.1	1	1.1	0	0.304	-1	2.219	0	7.306	1	1795	40	1.3
46523.5	10000	41.1145	93.2402	-1114	QK	2.3	0	8.1	1	1.1	0	0.290	-1	2.067	0	7.117	1	1803	49	1.3
46523.4	10000	41.1145	93.2393	-1111	QK	2.3	0	8.0	1	1.1	0	0.293	-1	2.082	0	7.116	1	1808	50	1.3
46523.3	10000	41.1145	93.2385	-1108	QK	2.4	0	8.0	1	1.1	0	0.306	-1	2.151	0	7.020	1	1815	36	1.3
46523.2	10000	41.1145	93.2377	-1107	QK	2.5	0	8.4	2	1.1	0	0.296	-1	2.235	0	7.549	2	1824	40	1.3
46523.1	10000	41.1145	93.2368	-1106	QK	2.5	0	8.4	2	1.1	0	0.295	-1	2.197	0	7.437	1	1837	55	1.3
46523.0	10000	41.1145	93.2360	-1104	QK	2.6	0	8.3	1	1.2	1	0.316	0	2.199	0	6.960	1	1852	44	1.3
46522.9	10000	41.1145	93.2351	-1103	QK	2.3	0	8.0	1	1.2	1	0.291	-1	1.962	-1	6.748	0	1832	48	1.3
46522.8	10000	41.1145	93.2343	-1102	QK	2.3	0	7.8	1	1.1	0	0.296	-1	2.026	-1	6.833	0	1796	59	1.3
46522.7	10000	41.1145	93.2335	-1102	QK	2.4	0	7.7	1	1.1	0	0.312	-1	2.190	0	7.014	1	1772	43	1.3
46522.6	10000	41.1145	93.2326	-1102	QK	2.5	0	7.6	1	1.1	0	0.322	-1	2.281	0	7.077	1	1720	38	1.3
46522.5	10000	41.1146	93.2318	-1102	QK	2.5	0	7.6	1	1.0	0	0.330	0	2.436	1	7.378	1	1682	40	1.3
46522.4	10000	41.1146	93.2309	-1102	QK	2.6	0	7.4	1	0.9	0	0.348	0	2.749	2	7.898	2	1640	38	1.3
46522.3	10000	41.1146	93.2301	-1102	QK	2.5	0	7.3	1	0.9	0	0.345	0	2.660	2	7.708	2	1630	45	1.3
46522.2	10000	41.1146	93.2293	-1102	QK	2.7	0	7.2	1	0.9	0	0.376	0	2.936	2	7.805	2	1643	46	1.3
46522.1	10000	41.1146	93.2284	-1101	QK	2.9	0	7.2	1	0.9	0	0.403	0	3.076	2	7.631	2	1679	55	1.3
46522.0	10000	41.1146	93.2276	-1101	QK	2.9	0	7.1	1	0.9	0	0.403	0	2.954	1	7.332	1	1693	46	1.3
46521.9	10000	41.1146	93.2267	-1100	QK	3.0	0	7.0	1	1.0	0	0.430	0	3.138	2	7.304	1	1710	36	1.3
46521.8	10000	41.1146	93.2259	-1102	QK	3.1	0	6.8	1	1.0	0	0.464	0	3.205	2	6.909	1	1700	36	1.3
46521.7	10000	41.1146	93.2251	-1104	QK	3.0	0	6.5	1	1.0	0	0.467	0	3.035	2	6.504	1	1686	34	1.3
46521.6	10000	41.1146	93.2242	-1106	QK	2.7	0	6.3	1	0.9	0	0.427	0	2.899	2	6.792	1	1637	42	1.3
46521.5	10000	41.1146	93.2234	-1106	QK	2.6	0	6.0	1	0.9	0	0.438	0	2.811	2	6.416	1	1592	56	1.3
46521.4	10000	41.1146	93.2225	-1107	QK	2.4	0	6.1	1	0.9	0	0.398	0	2.675	2	6.730	1	1553	39	1.3
46521.3	10000	41.1147	93.2217	-1109	QK	2.3	0	6.3	1	0.9	0	0.364	0	2.557	2	7.018	1	1533	44	1.3
46521.2	10000	41.1147	93.2209	-1110	QK	2.0	-1	6.4	1	0.9	0	0.315	-1	2.376	2	7.536	1	1516	43	1.3
46521.1	10000	41.1147	93.2200	-1111	QK	1.8	-1	6.8	1	0.8	0	0.268	-1	2.128	2	7.938	1	1514	51	1.3
46521.0	10000	41.1147	93.2192	-1112	QK	1.7	-2	6.5	1	0.8	0	0.263	-1	2.155	2	8.180	1	1505	48	1.3
46520.9	10000	41.1147	93.2183	-1112	QK	1.8	-1	6.6	1	0.8	0	0.281	-1	2.232	2	7.938	1	1527	48	1.3
46520.8	10000	41.1147	93.2175	-1113	QK	1.9	-1	6.8	1	0.8	0	0.280	-1	2.250	2	8.042	1	1557	42	1.3
46520.7	10000	41.1147	93.2167	-1113	QK	2.0	-1	7.2	2	0.8	0	0.285	-1	2.264	2	7.956	1	1584	36	1.3
46520.6	10000	41.1147	93.2158	-1114	QK	2.2	-1	7.2	2	0.9	0	0.312	-1	2.495	2	8.007	1	1600	36	1.3
46520.5	10000	41.1147	93.2150	-1114	QK	2.3	-1	7.6	2	1.0	0	0.320	-1	2.405	2	7.503	1	1622	45	1.3
46520.4	10000	41.1147	93.2141	-1115	QK	2.4	0	7.9	2	1.1	0	0.341	-1	2.288	2	6.701	1	1649	42	1.3
46520.3	10000	41.1147	93.2133	-1116	QK	2.2	-1	7.0	2	1.1	0	0.318	-1	2.001	1	6.294	0	1689	40	1.3
46520.2	10000	41.1147	93.2125	-1116	QK	2.4	0	7.0	2	1.2	0	0.339	-1	2.094	0	6.179	0	1718	46	1.3
46520.1	10000	41.1147	93.2116	-1117	QK	2.5	0	7.0	2	1.2	0	0.362	0	2.185	0	6.028	-1	1726	48	1.3
46520.0	10000	41.1148	93.2108	-1117	QK	2.5	0	6.7	2	1.1	0	0.364	0	2.189	0	6.021	-1	1730	52	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46519.9	10000	41.1148	93.2099	-1117	QK	2.5	0	6.8	-1	1.2	1	0.359	0	2.078	0	5.785	-1	1760	46	1.3
46519.8	10000	41.1148	93.2091	-1118	QK	2.6	0	6.7	-1	1.2	1	0.387	0	2.179	0	5.631	-1	1780	55	1.3
46519.7	10000	41.1148	93.2083	-1118	QK	2.6	0	7.1	0	1.2	1	0.367	0	2.236	0	6.090	-1	1792	35	1.3
46519.6	10000	41.1148	93.2074	-1118	QK	2.7	0	7.5	0	1.2	1	0.358	0	2.315	0	6.460	0	1806	43	1.3
46519.5	10000	41.1148	93.2066	-1119	QK	2.8	0	8.0	1	1.2	1	0.351	0	2.401	0	6.838	1	1819	47	1.3
46519.4	10000	41.1148	93.2057	-1119	QK	2.5	0	8.4	2	1.2	1	0.303	-1	2.195	0	7.247	1	1832	43	1.3
46519.3	10000	41.1148	93.2049	-1119	QK	2.5	0	8.6	2	1.2	1	0.297	-1	2.111	0	7.098	1	1851	49	1.3
46519.2	10000	41.1148	93.2041	-1120	QK	2.4	0	8.7	2	1.2	1	0.280	-1	2.050	0	7.311	1	1840	52	1.3
46519.1	10000	41.1148	93.2032	-1120	QK	2.3	0	8.8	2	1.2	1	0.261	-1	1.863	-1	7.141	1	1853	47	1.3
46519.0	10000	41.1148	93.2024	-1120	QK	2.3	0	8.7	2	1.2	1	0.264	-1	1.866	-1	7.058	1	1865	50	1.3
46518.9	10000	41.1148	93.2015	-1120	QK	2.3	0	8.6	2	1.3	1	0.267	-1	1.871	-1	7.013	1	1862	44	1.3
46518.8	10000	41.1148	93.2007	-1120	QK	2.1	0	8.2	1	1.3	1	0.259	-1	1.690	-1	6.529	0	1856	45	1.3
46518.7	10000	41.1148	93.1999	-1120	QK	2.6	0	7.9	1	1.2	1	0.325	0	2.026	-1	6.230	0	1863	34	1.3
46518.6	10000	41.1148	93.1990	-1119	QK	2.5	0	7.7	1	1.2	1	0.322	0	2.010	-1	6.251	0	1860	33	1.3
46518.5	10000	41.1149	93.1982	-1120	QK	2.5	0	7.6	1	1.2	1	0.327	0	2.023	-1	6.180	0	1871	50	1.3
46518.4	10000	41.1149	93.1973	-1119	QK	2.4	0	7.5	1	1.2	1	0.318	0	2.014	-1	6.326	0	1861	47	1.3
46518.3	10000	41.1149	93.1965	-1119	QK	2.4	0	7.2	1	1.2	1	0.332	0	2.005	-1	6.044	-1	1847	40	1.3
46518.2	10000	41.1149	93.1956	-1119	QK	2.7	0	7.3	0	1.2	1	0.365	0	2.286	0	6.263	0	1837	49	1.3
46518.1	10000	41.1149	93.1948	-1120	QK	2.7	0	7.4	0	1.1	1	0.361	0	2.373	0	6.575	0	1825	51	1.3
46518.0	10000	41.1149	93.1940	-1120	QK	2.3	0	7.5	0	1.1	1	0.305	-1	2.127	0	6.971	1	1822	59	1.3
46517.9	10000	41.1149	93.1931	-1120	QK	2.4	0	7.3	0	1.1	1	0.335	0	2.143	0	6.396	0	1815	36	1.3
46517.8	10000	41.1149	93.1923	-1121	QK	2.4	0	7.2	0	1.1	1	0.333	0	2.127	0	6.392	0	1810	44	1.3
46517.7	10000	41.1149	93.1915	-1121	QK	2.7	0	7.1	0	1.1	1	0.374	0	2.345	0	6.263	0	1812	53	1.3
46517.6	10000	41.1149	93.1906	-1121	QK	2.8	0	7.0	0	1.1	1	0.394	0	2.400	0	6.084	-1	1802	52	1.3
46517.5	10000	41.1149	93.1898	-1121	QK	2.5	0	7.0	0	1.2	1	0.351	0	2.081	0	5.922	-1	1793	44	1.3
46517.4	10000	41.1149	93.1889	-1121	QK	2.5	0	7.0	1	1.2	1	0.358	0	2.118	0	5.919	-1	1806	36	1.3
46517.3	10000	41.1149	93.1881	-1121	QK	2.7	0	7.1	1	1.2	1	0.375	0	2.130	0	5.684	-1	1810	50	1.3
46517.2	10000	41.1149	93.1873	-1121	QK	2.5	0	7.3	1	1.2	1	0.338	-1	1.985	-1	5.873	-1	1799	49	1.3
46517.1	10000	41.1150	93.1864	-1121	QK	2.5	0	7.1	1	1.3	1	0.348	-1	1.903	-1	5.463	-1	1792	33	1.3
46517.0	10000	41.1150	93.1856	-1121	QK	2.2	0	7.2	1	1.3	1	0.312	-1	1.768	-1	5.660	-1	1759	36	1.3
46516.9	10000	41.1150	93.1847	-1122	QK	2.3	0	7.3	1	1.2	1	0.321	-1	1.870	-1	5.820	-1	1756	33	1.3
46516.8	10000	41.1150	93.1839	-1123	QK	2.5	0	7.2	1	1.3	1	0.339	-1	1.984	-1	5.860	-1	1773	44	1.3
46516.7	10000	41.1150	93.1831	-1123	QK	2.5	0	7.3	1	1.3	1	0.338	-1	1.958	-1	5.791	-1	1780	43	1.3
46516.6	10000	41.1150	93.1822	-1123	QK	2.1	0	7.1	1	1.3	1	0.298	-1	1.680	-1	5.632	-1	1779	34	1.3
46516.5	10000	41.1150	93.1814	-1123	QK	2.2	0	7.2	1	1.2	1	0.310	-1	1.826	-1	5.891	-1	1800	52	1.3
46516.4	10000	41.1150	93.1805	-1123	QK	2.5	0	7.6	1	1.2	1	0.334	0	2.128	0	6.369	0	1819	42	1.3
46516.3	10000	41.1150	93.1797	-1123	QK	2.7	0	7.8	1	1.2	1	0.350	0	2.208	0	6.312	0	1849	51	1.3
46516.2	10000	41.1150	93.1788	-1124	QK	2.6	0	7.8	1	1.2	1	0.330	0	2.102	0	6.373	0	1859	43	1.3
46516.1	10000	41.1150	93.1780	-1124	QK	2.5	0	7.6	1	1.2	1	0.332	0	2.035	0	6.135	0	1842	48	1.3
46516.0	10000	41.1150	93.1772	-1124	QK	2.4	0	7.4	1	1.2	1	0.329	0	2.028	-1	6.166	0	1807	55	1.3
46515.9	10000	41.1150	93.1763	-1124	QK	2.6	0	7.7	1	1.2	1	0.332	0	2.190	0	6.588	0	1777	37	1.3
46515.8	10000	41.1151	93.1755	-1124	QK	2.4	0	7.5	1	1.1	1	0.318	0	2.160	0	6.794	0	1734	35	1.3
46515.7	10000	41.1151	93.1747	-1124	QK	2.2	0	7.5	1	1.1	1	0.296	0	2.068	0	6.984	1	1702	44	1.3
46515.6	10000	41.1151	93.1738	-1124	QK	2.2	0	7.1	0	1.1	1	0.312	-1	2.262	0	7.249	1	1649	37	1.3
46515.5	10000	41.1151	93.1730	-1122	QK	2.4	0	7.3	0	0.9	1	0.321	-1	2.506	1	7.799	2	1616	43	1.3
46515.4	10000	41.1151	93.1721	-1124	QK	2.3	0	7.3	0	0.9	1	0.312	-1	2.563	1	8.210	2	1588	43	1.3
46515.3	10000	41.1151	93.1713	-1124	QK	2.2	-1	7.3	0	0.8	1	0.319	-1	2.675	1	8.389	2	1555	45	1.3
46515.2	10000	41.1151	93.1705	-1124	QK	2.2	-1	6.8	0	0.8	1	0.323	-1	2.580	1	7.989	2	1542	50	1.3
46515.1	10000	41.1151	93.1696	-1124	QK	2.2	-1	7.0	0	0.8	1	0.317	-1	2.610	1	8.246	2	1537	57	1.3
46515.0	10000	41.1151	93.1688	-1124	QK	1.8	-2	7.0	0	0.8	1	0.300	-1	2.518	1	8.394	2	1509	49	1.3
46514.9	10000	41.1151	93.1679	-1125	QK	1.5	-2	7.2	0	0.8	1	0.245	-2	2.050	1	8.353	2	1507	49	1.3
46514.8	10000	41.1151	93.1671	-1125	QK	1.5	-2	6.7	-1	0.9	1	0.225	-2	1.755	-1	7.799	2	1488	46	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46514.7	10000	41.1151	93.1662	-1125	QK	1.8	-2	6.9	0	0.9	-2	0.257	-1	1.957	-1	7.625	2	1482	57	1.3
46514.6	10000	41.1151	93.1654	-1124	QK	1.7	-2	7.0	0	0.9	-2	0.240	-2	1.909	-1	7.943	2	1484	43	1.3
46514.5	10000	41.1152	93.1646	-1121	QK	1.8	-2	7.0	0	0.8	-2	0.254	-1	2.110	0	8.294	3	1477	48	1.3
46514.4	10000	41.1152	93.1637	-1114	QK	1.9	-1	6.8	-1	0.9	-2	0.274	-1	2.162	0	7.904	2	1471	60	1.3
46514.3	10000	41.1152	93.1629	-1117	QK	1.8	-1	6.0	-2	0.8	-2	0.303	-1	2.207	0	7.276	1	1452	52	1.3
46514.2	10000	41.1152	93.1620	-1120	QK	1.9	-1	5.8	-2	0.8	-2	0.330	0	2.261	0	6.847	1	1446	44	1.3
46514.1	10000	41.1152	93.1612	-1121	QK	2.1	-1	5.8	-2	0.9	-2	0.359	0	2.446	0	6.813	0	1438	38	1.3
46514.0	10000	41.1152	93.1604	-1120	QK	1.8	-1	5.5	-2	0.8	-2	0.330	0	2.195	0	6.656	0	1432	49	1.3
46513.9	10000	41.1152	93.1596	-1119	QK	1.9	-1	5.3	-3	0.8	-2	0.353	0	2.250	0	6.376	0	1429	46	1.3
46513.8	10000	41.1152	93.1588	-1118	QK	1.9	-1	5.4	-3	0.8	-3	0.359	0	2.386	0	6.643	0	1416	39	1.3
46513.7	10000	41.1152	93.1579	-1116	QK	1.9	-1	5.4	-3	0.8	-3	0.354	0	2.409	0	6.806	0	1409	38	1.3
46513.6	10000	41.1152	93.1571	-1115	QK	2.1	-1	6.0	-2	0.8	-3	0.347	0	2.539	1	7.315	1	1443	44	1.3
46513.5	10000	41.1152	93.1563	-1114	QK	1.9	-1	6.4	-1	0.8	-2	0.304	-1	2.283	0	7.509	1	1488	44	1.3
46513.4	10000	41.1152	93.1555	-1112	QK	1.8	-1	6.6	-1	0.9	-2	0.273	-1	1.942	-1	7.101	1	1554	49	1.3
46513.3	10000	41.1152	93.1546	-1110	QK	2.0	-1	6.8	-1	1.0	-1	0.291	-1	2.048	0	7.040	1	1592	39	1.3
46513.2	10000	41.1152	93.1538	-1107	QK	2.0	-1	6.9	0	1.0	-1	0.286	-1	1.931	-1	6.756	0	1628	47	1.3
46513.1	10000	41.1152	93.1530	-1105	QK	2.0	-1	7.1	0	1.1	0	0.277	-1	1.836	-1	6.633	0	1649	36	1.3
46513.0	10000	41.1152	93.1522	-1106	QK	1.9	-1	7.2	0	1.1	0	0.268	-1	1.743	-1	6.505	0	1665	58	1.3
46512.9	10000	41.1152	93.1514	-1106	QK	1.9	-1	7.0	0	1.1	0	0.277	-1	1.758	-1	6.339	0	1655	46	1.3
46512.8	10000	41.1152	93.1505	-1105	QK	2.2	-1	7.0	0	1.1	0	0.313	-1	2.045	0	6.538	0	1639	57	1.3
46512.7	10000	41.1152	93.1497	-1104	QK	2.4	0	7.1	0	1.0	-1	0.343	0	2.437	0	7.099	1	1622	48	1.3
46512.6	10000	41.1152	93.1489	-1103	QK	2.3	0	7.2	0	1.0	-1	0.325	0	2.427	0	7.461	1	1615	46	1.3
46512.5	10000	41.1152	93.1481	-1102	QK	2.3	-1	7.2	0	1.0	-1	0.315	-1	2.330	0	7.406	1	1609	33	1.3
46512.4	10000	41.1152	93.1472	-1101	QK	2.2	-1	7.2	0	1.0	-1	0.303	-1	2.235	0	7.372	1	1612	41	1.3
46512.3	10000	41.1152	93.1464	-1101	QK	2.4	0	7.1	0	1.0	-1	0.334	0	2.480	0	7.435	1	1626	40	1.3
46512.2	10000	41.1153	93.1456	-1101	QK	2.2	-1	7.2	0	1.0	-1	0.307	-1	2.196	0	7.164	1	1661	45	1.3
46512.1	10000	41.1153	93.1448	-1101	QK	2.0	-1	7.2	0	1.0	-1	0.288	-1	2.028	0	7.040	1	1683	49	1.3
46512.0	10000	41.1153	93.1440	-1100	QK	2.0	-1	7.4	0	1.0	-1	0.275	-1	1.944	-1	7.065	1	1695	49	1.3
46511.9	10000	41.1153	93.1431	-1100	QK	2.2	-1	7.5	0	1.0	-1	0.296	-1	2.155	0	7.270	1	1709	47	1.3
46511.8	10000	41.1153	93.1423	-1099	QK	2.3	-1	7.8	0	1.0	-1	0.290	-1	2.215	0	7.631	2	1741	51	1.3
46511.7	10000	41.1153	93.1415	-1100	QK	2.6	0	7.9	1	1.0	-1	0.322	0	2.443	0	7.586	2	1782	51	1.3
46511.6	10000	41.1153	93.1407	-1101	QK	2.5	0	8.1	1	1.0	-1	0.309	0	2.380	0	7.705	2	1805	45	1.3
46511.5	10000	41.1153	93.1399	-1101	QK	2.6	0	8.1	1	1.0	-1	0.318	0	2.522	0	7.931	2	1813	46	1.3
46511.4	10000	41.1153	93.1390	-1102	QK	2.7	0	8.1	1	1.0	-1	0.323	0	2.553	0	7.912	2	1829	41	1.3
46511.3	10000	41.1153	93.1382	-1103	QK	2.5	0	8.0	1	1.0	-1	0.311	0	2.343	0	7.524	2	1829	60	1.3
46511.2	10000	41.1153	93.1374	-1104	QK	2.5	0	8.0	1	1.0	-1	0.310	0	2.207	0	7.110	1	1824	46	1.3
46511.1	10000	41.1153	93.1366	-1104	QK	2.5	0	7.8	1	1.0	-1	0.323	0	2.232	0	6.908	1	1795	40	1.3
46511.0	10000	41.1153	93.1358	-1106	QK	2.4	0	7.5	1	1.0	-1	0.319	0	2.244	0	7.039	1	1759	49	1.3
46510.9	10000	41.1153	93.1349	-1106	QK	2.2	-1	7.4	0	1.0	-1	0.299	-1	2.088	0	6.994	1	1721	46	1.3
46510.8	10000	41.1153	93.1341	-1108	QK	2.1	-1	7.6	0	1.0	-1	0.273	-1	1.944	-1	7.114	1	1677	41	1.3
46510.7	10000	41.1153	93.1333	-1109	QK	2.2	-1	7.5	0	1.0	-1	0.290	-1	2.087	0	7.185	1	1635	50	1.3
46510.6	10000	41.1153	93.1325	-1110	QK	2.2	-1	7.3	0	1.0	-1	0.290	-1	2.201	0	7.598	2	1605	38	1.3
46510.5	10000	41.1153	93.1317	-1111	QK	2.0	-1	7.0	0	0.9	-2	0.290	-1	2.182	0	7.534	2	1576	46	1.3
46510.4	10000	41.1153	93.1308	-1111	QK	1.9	-1	7.1	0	0.9	-2	0.297	-1	2.337	0	7.871	2	1554	34	1.3
46510.3	10000	41.1153	93.1300	-1112	QK	2.2	-1	7.2	0	0.9	-2	0.270	-1	2.184	0	8.098	2	1528	53	1.3
46510.2	10000	41.1153	93.1292	-1113	QK	2.2	-1	7.2	0	0.9	-2	0.309	-1	2.567	0	8.298	2	1525	46	1.3
46510.1	10000	41.1153	93.1284	-1113	QK	2.2	-1	7.2	0	0.9	-2	0.323	-1	2.595	0	8.025	2	1526	49	1.3
46510.0	10000	41.1153	93.1275	-1114	QK	2.1	-1	7.2	0	0.9	-2	0.313	-1	2.631	0	8.393	3	1529	37	1.3
46509.9	10000	41.1154	93.1267	-1115	QK	2.1	-1	7.2	0	0.9	-2	0.309	-1	2.554	0	8.266	3	1511	34	1.3
46509.8	10000	41.1154	93.1259	-1115	QK	1.9	-1	7.2	0	0.8	-2	0.298	-1	2.676	0	8.967	4	1508	50	1.3
46509.7	10000	41.1154	93.1251	-1115	QK	1.9	-1	7.2	0	0.8	-2	0.265	-1	2.375	0	8.972	4	1504	44	1.3
46509.6	10000	41.1154	93.1243	-1115	QK	1.9	-1	7.3	0	0.8	-2	0.256	-1	2.230	0	8.713	3	1512	42	1.3

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46509.5	10000	41.1154	93.1234	-1115	QK	1.7	-2	7.1	0	0.8	-2	0.236	-2	2.014	-1	8.543	3	1504	43	1.4
46509.4	10000	41.1154	93.1226	-1115	QK	2.0	-1	7.2	0	0.8	-3	0.275	-1	2.458	0	8.930	3	1509	41	1.4
46509.3	10000	41.1154	93.1218	-1115	QK	1.9	-1	7.2	0	0.8	-3	0.261	-1	2.308	0	8.853	3	1522	43	1.4
46509.2	10000	41.1154	93.1210	-1115	QK	1.9	-1	7.4	0	0.8	-2	0.251	-1	2.214	0	8.831	3	1559	39	1.4
46509.1	10000	41.1154	93.1201	-1115	QK	1.9	-1	7.4	0	0.9	-2	0.261	-1	2.205	0	8.431	3	1596	37	1.4
46509.0	10000	41.1154	93.1193	-1115	QK	2.1	-1	7.6	1	0.9	-2	0.281	-1	2.364	0	8.400	3	1645	53	1.4
46508.9	10000	41.1154	93.1185	-1115	QK	2.2	-1	7.6	1	0.9	-2	0.292	-1	2.461	0	8.413	3	1669	52	1.4
46508.8	10000	41.1154	93.1177	-1115	QK	2.2	-1	7.8	1	0.9	-2	0.276	-1	2.322	0	8.404	3	1705	45	1.4
46508.7	10000	41.1154	93.1169	-1115	QK	2.0	-1	7.9	1	1.0	-1	0.259	-1	2.104	0	8.141	2	1734	51	1.4
46508.6	10000	41.1154	93.1160	-1114	QK	2.1	-1	7.9	1	1.0	-1	0.270	-1	2.216	0	8.199	2	1724	50	1.4
46508.5	10000	41.1154	93.1152	-1114	QK	2.3	0	7.3	0	1.0	-1	0.314	-1	2.382	0	7.581	2	1719	36	1.4
46508.4	10000	41.1154	93.1144	-1112	QK	2.1	-1	7.3	0	1.0	-1	0.293	-1	2.160	0	7.378	1	1699	33	1.4
46508.3	10000	41.1154	93.1136	-1109	QK	2.4	0	6.9	0	1.0	-1	0.342	0	2.436	0	7.119	1	1676	43	1.4
46508.2	10000	41.1154	93.1128	-1109	QK	2.4	0	6.4	-1	1.0	-1	0.383	0	2.416	0	6.312	0	1667	45	1.4
46508.1	10000	41.1154	93.1119	-1109	QK	2.5	0	6.0	-2	1.0	-1	0.407	1	2.366	0	5.812	-1	1655	47	1.4
46508.0	10000	41.1154	93.1111	-1109	QK	2.4	0	6.1	-2	1.0	-1	0.387	0	2.296	0	5.933	-1	1624	60	1.4
46507.9	10000	41.1154	93.1103	-1110	QK	2.3	-1	5.9	-2	1.1	0	0.385	0	2.045	0	5.314	-2	1621	52	1.4
46507.8	10000	41.1154	93.1095	-1109	QK	2.1	-1	6.2	-1	1.1	0	0.341	0	1.956	-1	5.745	-1	1600	52	1.4
46507.7	10000	41.1154	93.1087	-1110	QK	1.9	-1	6.1	-1	1.1	0	0.303	-1	1.713	-1	5.655	-1	1597	37	1.4
46507.6	10000	41.1154	93.1078	-1109	QK	1.6	-2	6.0	-2	1.0	-1	0.261	-1	1.511	-2	5.795	-1	1568	43	1.4
46507.5	10000	41.1154	93.1070	-1109	QK	1.4	-2	6.5	-1	1.0	-1	0.221	-2	1.445	-2	6.535	0	1567	43	1.4
46507.4	10000	41.1154	93.1062	-1110	QK	1.5	-2	6.5	-1	1.0	-1	0.224	-2	1.522	-2	6.793	0	1562	55	1.4
46507.3	10000	41.1155	93.1054	-1111	QK	1.7	-2	6.6	-1	1.0	-1	0.249	-1	1.676	-1	6.732	0	1579	35	1.4
46507.2	10000	41.1155	93.1046	-1113	QK	1.7	-2	6.8	-1	0.9	-2	0.257	-1	1.870	-1	7.281	1	1593	50	1.4
46507.1	10000	41.1155	93.1037	-1114	QK	1.9	-1	6.8	-1	1.0	-1	0.287	-1	2.015	-1	7.022	1	1613	39	1.4
46507.0	10000	41.1155	93.1029	-1116	QK	2.2	-1	6.5	-1	0.9	-2	0.347	0	2.402	0	6.930	1	1610	40	1.4
46506.9	10000	41.1155	93.1021	-1118	QK	2.1	-1	6.6	-1	1.0	-1	0.331	0	2.174	0	6.570	1	1615	38	1.4
46506.8	10000	41.1155	93.1013	-1121	QK	2.3	-1	6.6	-1	1.0	-1	0.385	0	2.431	0	6.313	1	1606	48	1.4
46506.7	10000	41.1155	93.1004	-1123	QK	2.7	-1	6.6	-1	1.0	-1	0.491	0	2.849	0	5.799	1	1595	39	1.4
46506.6	10000	41.1155	93.0996	-1126	QK	2.6	-1	6.5	-1	1.0	-1	0.479	0	2.859	0	5.976	1	1571	49	1.4
46506.5	10000	41.1155	93.0988	-1129	QK	2.7	-1	6.5	-1	1.0	-1	0.510	0	2.870	0	5.633	1	1551	50	1.4
46506.4	10000	41.1155	93.0980	-1133	QK	2.6	-1	6.5	-1	1.0	-1	0.496	0	2.921	0	5.890	1	1530	47	1.4
46506.3	10000	41.1155	93.0972	-1136	QK	2.7	-1	6.6	-1	1.0	-1	0.484	0	3.212	0	6.639	1	1531	54	1.5
46506.2	10000	41.1155	93.0963	-1140	QK	2.9	-1	6.6	-1	1.0	-1	0.478	0	3.370	0	7.043	1	1549	50	1.5
46506.1	10000	41.1155	93.0955	-1144	QK	2.8	-1	6.4	-1	1.0	-1	0.441	0	3.186	0	7.222	1	1569	53	1.5
46506.0	10000	41.1155	93.0947	-1148	QK	2.5	-1	6.8	-1	1.0	-1	0.363	0	2.890	0	7.972	1	1585	49	1.5
46505.9	10000	41.1155	93.0939	-1152	QK	2.7	-1	6.9	-1	1.0	-1	0.392	0	3.178	0	8.104	2	1592	40	1.5
46505.8	10000	41.1155	93.0930	-1155	QK	2.8	-1	7.1	-1	1.0	-1	0.392	0	3.224	0	8.235	2	1618	31	1.5
46505.7	10000	41.1155	93.0922	-1160	QK	2.8	-1	7.2	-1	1.0	-1	0.389	0	3.172	0	8.163	2	1643	26	1.5
46505.6	10000	41.1155	93.0914	-1164	QK	2.8	-1	7.3	-1	1.0	-1	0.385	0	3.050	0	7.932	2	1674	46	1.5
46505.5	10000	41.1155	93.0906	-1169	QK	2.8	-1	7.4	-1	1.0	-1	0.358	0	2.893	0	8.090	3	1688	41	1.5
46505.4	10000	41.1155	93.0898	-1174	QK	2.8	-1	7.2	-1	1.0	-1	0.386	0	3.212	0	8.324	3	1675	44	1.5
46505.3	10000	41.1155	93.0889	-1178	QK	2.8	-1	7.2	-1	1.0	-1	0.392	0	3.192	0	8.137	2	1657	61	1.5
46505.2	10000	41.1155	93.0881	-1183	QK	2.8	-1	6.6	-1	1.0	-1	0.373	0	2.839	0	7.617	2	1646	53	1.5
46505.1	10000	41.1155	93.0873	-1187	QK	2.6	-1	6.5	-1	1.0	-1	0.402	0	3.219	0	8.002	3	1603	49	1.5
46505.0	10000	41.1155	93.0865	-1191	QK	2.7	-1	6.8	-1	0.9	-2	0.406	0	3.475	0	8.552	3	1571	50	1.5
46504.9	10000	41.1155	93.0857	-1195	QK	2.4	-1	6.8	-1	0.9	-2	0.344	0	3.106	0	8.031	3	1552	55	1.5
46504.8	10000	41.1155	93.0848	-1200	QK	2.2	-1	6.7	-1	0.9	-2	0.329	0	3.077	0	8.078	3	1536	34	1.5
46504.7	10000	41.1156	93.0840	-1204	QK	2.2	-1	6.8	-1	0.9	-2	0.324	0	3.077	0	8.022	3	1546	40	1.5
46504.6	10000	41.1156	93.0832	-1208	QK	2.2	-1	6.8	-1	0.9	-2	0.325	0	3.077	0	8.091	3	1547	55	1.5
46504.5	10000	41.1156	93.0824	-1212	QK	2.1	-1	6.9	0	0.9	-2	0.297	-1	2.237	0	7.530	2	1565	41	1.5
46504.4	10000	41.1156	93.0816	-1216	QK															

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46504.3	10000	41.1156	93.0807	-1220	QK	1.9	-1	7.0	0	0.9	-1	0.270	-1	1.999	-1	7.402	1	1557	35	1.5
46504.2	10000	41.1156	93.0799	-1225	QK	1.8	-2	6.6	-1	0.9	-1	0.268	-1	1.862	-1	6.950	1	1522	40	1.5
46504.1	10000	41.1156	93.0791	-1230	QK	1.6	-2	6.5	-1	0.9	-2	0.244	-1	1.788	-1	7.336	1	1481	32	1.5
46504.0	10000	41.1156	93.0783	-1233	QK	1.6	-2	6.1	-2	0.9	-2	0.271	-1	1.921	-1	7.101	1	1440	30	1.5
46503.9	10000	41.1156	93.0775	-1237	QK	1.8	-2	5.6	-2	0.8	-3	0.315	0	2.129	0	6.755	0	1404	43	1.5
46503.8	10000	41.1156	93.0766	-1241	QK	1.6	-2	5.9	-2	0.8	-3	0.265	-1	1.984	-1	7.497	1	1384	35	1.5
46503.7	10000	41.1156	93.0758	-1245	QK	1.5	-2	5.5	-2	0.8	-3	0.277	-1	1.961	-1	7.067	1	1365	42	1.5
46503.6	10000	41.1156	93.0750	-1249	QK	1.5	-2	5.2	-3	0.8	-3	0.292	-1	1.973	-1	6.748	0	1368	53	1.5
46503.5	10000	41.1156	93.0742	-1252	QK	1.8	-2	5.4	-3	0.8	-3	0.331	0	2.259	0	6.815	0	1376	49	1.5
46503.4	10000	41.1156	93.0733	-1254	QK	1.8	-1	5.5	-2	0.8	-3	0.331	0	2.296	0	6.942	1	1418	48	1.5
46503.3	10000	41.1156	93.0725	-1257	QK	1.8	-1	5.5	-2	0.8	-2	0.326	0	2.153	0	6.606	0	1450	49	1.5
46503.2	10000	41.1156	93.0717	-1260	QK	1.8	-2	5.9	-2	0.8	-2	0.302	-1	2.110	0	6.994	1	1476	43	1.5
46503.1	10000	41.1156	93.0709	-1262	QK	1.7	-2	5.9	-2	0.9	-2	0.282	-1	1.938	-1	6.882	1	1481	48	1.5
46503.0	10000	41.1156	93.0701	-1265	QK	1.7	-2	6.1	-2	0.9	-2	0.278	-1	1.981	-1	7.118	1	1486	41	1.5
46502.9	10000	41.1156	93.0692	-1267	QK	1.7	-2	6.0	-2	0.9	-2	0.281	-1	1.965	-1	7.004	1	1495	49	1.5
46502.8	10000	41.1156	93.0684	-1267	QK	1.8	-1	5.9	-2	0.9	-2	0.304	-1	2.085	0	6.866	1	1502	41	1.6
46502.7	10000	41.1156	93.0676	-1268	QK	1.8	-1	5.8	-2	0.9	-2	0.315	0	2.094	0	6.646	0	1485	49	1.6
46502.6	10000	41.1156	93.0668	-1270	QK	2.1	-1	5.8	-2	0.8	-3	0.360	0	2.523	1	7.013	1	1468	38	1.6
46502.5	10000	41.1156	93.0659	-1272	QK	2.2	-1	5.4	-2	0.8	-3	0.402	1	2.685	1	6.680	0	1472	38	1.6
46502.4	10000	41.1156	93.0651	-1273	QK	2.4	0	5.5	-2	0.8	-3	0.442	1	2.958	1	6.697	0	1487	32	1.6
46502.3	10000	41.1156	93.0643	-1275	QK	2.3	-1	5.8	-2	0.9	-2	0.385	0	2.621	1	6.804	0	1496	38	1.6
46502.2	10000	41.1156	93.0635	-1275	QK	2.2	-1	6.1	-1	0.8	-2	0.357	0	2.594	1	7.267	1	1515	42	1.6
46502.1	10000	41.1157	93.0627	-1276	QK	2.2	-1	6.6	-1	0.9	-2	0.331	0	2.564	1	7.753	2	1538	47	1.6
46502.0	10000	41.1157	93.0618	-1277	QK	2.0	-1	6.8	-1	0.9	-2	0.299	-1	2.328	0	7.797	2	1558	52	1.6
46501.9	10000	41.1157	93.0610	-1278	QK	1.8	-1	7.1	0	0.9	-2	0.255	-1	1.989	-1	7.805	2	1576	46	1.6
46501.8	10000	41.1157	93.0602	-1279	QK	1.8	-1	7.5	0	0.9	-2	0.241	-2	1.930	-1	7.992	2	1592	43	1.6
46501.7	10000	41.1157	93.0594	-1280	QK	1.9	-1	7.5	0	1.0	-1	0.256	-1	1.971	-1	7.708	2	1621	49	1.6
46501.6	10000	41.1157	93.0586	-1281	QK	2.1	-1	7.4	-1	1.0	-1	0.278	-1	2.112	-1	7.603	2	1650	48	1.6
46501.5	10000	41.1157	93.0577	-1282	QK	2.2	-1	7.5	-1	1.0	-1	0.298	-1	2.188	-1	7.339	1	1662	59	1.6
46501.4	10000	41.1157	93.0569	-1282	QK	2.1	-1	7.3	-1	1.0	-1	0.287	-1	2.059	-1	7.184	1	1658	40	1.6
46501.3	10000	41.1157	93.0561	-1283	QK	2.5	-1	7.1	0	1.0	-1	0.349	0	2.418	0	6.923	1	1655	50	1.6
46501.2	10000	41.1157	93.0553	-1284	QK	2.4	-1	7.4	-1	1.0	-1	0.323	-1	2.380	-1	7.363	1	1666	58	1.6
46501.1	10000	41.1157	93.0545	-1284	QK	2.7	0	7.3	-1	1.0	-1	0.371	0	2.720	0	7.333	1	1656	39	1.6
46501.0	10000	41.1157	93.0536	-1283	QK	2.4	0	7.4	-1	1.0	-1	0.321	-1	2.455	-1	7.648	2	1625	45	1.6
46500.9	10000	41.1157	93.0528	-1283	QK	2.3	-1	7.5	-1	1.0	-1	0.305	-1	2.368	-1	7.771	2	1607	41	1.6
46500.8	10000	41.1157	93.0520	-1283	QK	2.3	-1	7.2	-2	0.9	-1	0.312	-1	2.420	-1	7.751	2	1589	39	1.6
46500.7	10000	41.1157	93.0512	-1283	QK	2.4	0	7.0	-2	0.9	-1	0.346	0	2.665	0	7.694	2	1580	45	1.6
46500.6	10000	41.1157	93.0504	-1282	QK	2.0	-1	7.2	-2	0.9	-1	0.280	-1	2.278	-1	8.146	2	1566	45	1.5
46500.5	10000	41.1157	93.0495	-1278	QK	2.1	-1	6.8	-2	0.9	-1	0.310	-1	2.295	-1	7.415	2	1555	49	1.5
46500.4	10000	41.1157	93.0487	-1274	QK	1.8	-2	7.4	-2	0.9	-2	0.237	-2	1.912	-1	8.071	2	1558	47	1.5
46500.3	10000	41.1157	93.0479	-1274	QK	1.8	-1	7.1	-2	0.9	-1	0.256	-1	2.016	-1	7.888	2	1554	48	1.5
46500.2	10000	41.1157	93.0471	-1275	QK	1.9	-1	6.7	-2	0.9	-1	0.287	-1	2.223	-1	7.743	2	1548	45	1.5
46500.1	10000	41.1157	93.0462	-1273	QK	1.8	-1	6.9	-2	0.8	-1	0.265	-1	2.175	-1	8.212	2	1540	43	1.5
46500.0	10000	41.1157	93.0454	-1271	QK	1.9	-1	6.9	-2	0.8	-1	0.271	-1	2.209	-1	8.163	2	1537	40	1.5
46499.9	10000	41.1157	93.0446	-1269	QK	1.9	-1	6.7	-2	0.8	-1	0.289	-1	2.308	-1	7.986	2	1534	51	1.5
46499.8	10000	41.1157	93.0438	-1266	QK	2.1	-1	6.8	-2	0.9	-1	0.303	-1	2.570	-1	8.490	3	1530	39	1.5
46499.7	10000	41.1157	93.0430	-1264	QK	2.0	-1	6.6	-2	0.9	-1	0.311	-1	2.482	-1	7.977	2	1553	46	1.5
46499.6	10000	41.1157	93.0421	-1261	QK	2.2	-1	6.8	-2	0.9	-1	0.317	-1	2.382	-1	7.505	2	1593	27	1.5
46499.5	10000	41.1157	93.0413	-1257	QK	1.9	-1	7.4	-1	1.0	-1	0.263	-1	2.035	-1	7.732	2	1619	42	1.5
46499.4	10000	41.1157	93.0405	-1254	QK	2.0	-1	7.2	-1	1.0	-1	0.284	-1	2.075	-1	7.298	2	1636	52	1.5
46499.3	10000	41.1157	93.0397	-1249	QK	2.0	-1	7.3	-1	1.0	-1	0.267	-1	2.014	-1	7.546	2	1653	41	1.5
46499.2	10000	41.1158	93.0388	-1247	QK	2.6	0	7.8	1	1.0	-1	0.334	0	2.710	-1	8.106	2	1666	41	1.5

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46499.1	10000	41.1158	93.0380	-1244	QK	2.5	0	7.8	1	0.9	-1	0.321	0	2.646	1	8.233	2	1683	40	1.5
46499.0	10000	41.1158	93.0372	-1240	QK	2.5	0	7.6	0	1.0	-1	0.335	0	2.644	1	7.898	2	1671	55	1.5
46498.9	10000	41.1158	93.0364	-1236	QK	2.4	0	7.8	1	0.9	-2	0.313	-1	2.692	1	8.605	3	1650	38	1.5
46498.8	10000	41.1158	93.0356	-1232	QK	2.6	0	7.7	1	0.9	-2	0.339	0	2.974	1	8.772	3	1632	49	1.5
46498.7	10000	41.1158	93.0347	-1228	QK	2.5	0	7.7	1	0.9	-2	0.324	0	2.835	1	8.742	3	1622	48	1.5
46498.6	10000	41.1158	93.0339	-1222	QK	2.4	0	7.9	1	0.9	-2	0.309	-1	2.711	1	8.780	3	1626	41	1.5
46498.5	10000	41.1158	93.0331	-1218	QK	2.0	-1	7.7	1	0.9	-1	0.256	-1	2.101	0	8.199	2	1655	46	1.5
46498.4	10000	41.1158	93.0323	-1212	QK	2.0	-1	7.5	0	1.0	-1	0.263	-1	1.999	-1	7.587	2	1682	54	1.5
46498.3	10000	41.1158	93.0315	-1206	QK	2.2	-1	7.6	0	1.0	-1	0.285	-1	2.178	0	7.636	2	1713	40	1.5
46498.2	10000	41.1158	93.0306	-1200	QK	2.5	0	7.3	0	1.0	-1	0.341	0	2.505	1	7.348	1	1747	55	1.5
46498.1	10000	41.1158	93.0298	-1193	QK	2.6	0	7.3	0	1.0	-1	0.352	0	2.565	1	7.296	1	1775	49	1.5
46498.0	10000	41.1158	93.0289	-1186	QK	2.6	0	7.6	0	1.0	-1	0.341	0	2.548	1	7.469	1	1818	39	1.4
46497.9	10000	41.1157	93.0280	-1180	QK	2.7	0	7.3	0	1.0	-1	0.372	0	2.668	1	7.168	1	1845	40	1.4
46497.8	10000	41.1157	93.0271	-1174	QK	3.0	1	7.5	0	1.0	-1	0.408	1	3.076	2	7.539	2	1852	42	1.4
46497.7	10000	41.1157	93.0263	-1166	QK	3.2	1	7.7	1	1.0	-1	0.414	1	3.197	2	7.720	2	1856	40	1.4
46497.6	10000	41.1157	93.0254	-1158	QK	3.0	1	7.6	1	1.0	-1	0.401	1	2.937	1	7.330	1	1864	54	1.4
46497.5	10000	41.1157	93.0245	-1149	QK	2.9	1	8.1	1	1.0	-1	0.359	0	2.806	1	7.821	2	1901	24	1.4
46497.4	10000	41.1157	93.0237	-1141	QK	3.0	1	8.2	1	1.1	0	0.363	0	2.619	1	7.207	1	1922	40	1.4
46497.3	10000	41.1156	93.0228	-1133	QK	2.9	1	8.0	1	1.1	0	0.369	0	2.616	1	7.093	1	1912	45	1.4
46497.2	10000	41.1156	93.0219	-1124	QK	3.0	1	7.9	1	1.2	0	0.381	0	2.584	1	6.786	1	1907	39	1.4
46497.1	10000	41.1156	93.0210	-1114	QK	2.7	0	7.8	1	1.2	1	0.350	0	2.268	0	6.483	0	1894	48	1.4
46497.0	10000	41.1156	93.0202	-1103	QK	2.6	0	8.0	1	1.2	1	0.318	0	2.141	0	6.733	0	1871	47	1.4
46496.9	10000	41.1156	93.0193	-1091	QK	2.6	0	8.5	2	1.2	0	0.298	-1	2.178	0	7.296	1	1869	47	1.4
46496.8	10000	41.1156	93.0184	-1080	QK	2.5	0	8.0	1	1.2	1	0.315	0	2.041	0	6.476	0	1833	55	1.4
46496.7	10000	41.1156	93.0175	-1067	QK	2.4	0	8.2	1	1.2	1	0.292	-1	1.989	-1	6.803	0	1820	42	1.4
46496.6	10000	41.1155	93.0167	-1054	QK	2.4	0	8.2	1	1.2	1	0.286	-1	1.901	-1	6.654	0	1812	47	1.4
46496.5	10000	41.1155	93.0158	-1039	QK	2.1	-1	8.2	1	1.2	1	0.250	-1	1.680	-1	6.719	0	1798	44	1.4
46496.4	10000	41.1155	93.0149	-1028	QK	2.3	-1	8.1	1	1.2	1	0.265	-1	1.748	-1	6.585	0	1797	43	1.4
46496.3	10000	41.1155	93.0141	-1015	QK	2.2	-1	7.8	1	1.2	1	0.291	-1	1.833	-1	6.296	0	1798	60	1.4
46496.2	10000	41.1155	93.0132	-1001	QK	2.1	-1	7.5	1	1.2	1	0.296	-1	1.765	-1	5.964	-1	1781	39	1.3
46496.1	10000	41.1155	93.0123	-987	QK	2.0	-1	7.5	1	1.2	1	0.279	-1	1.750	-1	6.272	0	1757	38	1.3
46496.0	10000	41.1154	93.0114	-972	QK	2.0	-1	7.1	0	1.2	1	0.287	-1	1.693	-1	5.905	-1	1746	55	1.3
46495.9	10000	41.1154	93.0106	-957	QK	2.0	-1	6.9	0	1.2	1	0.291	-1	1.734	-1	5.955	-1	1739	38	1.3
46495.8	10000	41.1154	93.0097	-949	QK	2.3	-1	6.9	0	1.2	1	0.334	0	1.977	-1	5.915	-1	1731	43	1.3
46495.7	10000	41.1154	93.0088	-939	QK	2.1	-1	7.2	1	1.2	1	0.291	-1	1.735	-1	5.963	-1	1735	46	1.3
46495.6	10000	41.1154	93.0079	-929	QK	2.0	-1	7.1	1	1.2	1	0.285	-1	1.677	-1	5.875	-1	1749	46	1.3
46495.5	10000	41.1154	93.0071	-919	QK	2.1	-1	7.3	1	1.2	1	0.287	-1	1.748	-1	6.099	-1	1784	42	1.3
46495.4	10000	41.1154	93.0062	-911	QK	2.2	-1	7.4	1	1.2	1	0.296	-1	1.802	-1	6.093	-1	1830	53	1.3
46495.3	10000	41.1153	93.0053	-903	QK	2.5	0	7.6	1	1.2	1	0.329	0	2.101	0	6.393	0	1884	38	1.3
46495.2	10000	41.1153	93.0044	-897	QK	2.8	0	7.8	1	1.2	1	0.356	0	2.245	0	6.304	0	1915	49	1.3
46495.1	10000	41.1153	93.0036	-892	QK	2.7	0	8.1	1	1.2	1	0.333	0	2.192	0	6.575	0	1950	42	1.3
46495.0	10000	41.1153	93.0027	-888	QK	3.0	0	8.0	1	1.2	1	0.371	0	2.456	0	6.619	0	1952	38	1.3
46494.9	10000	41.1153	93.0018	-885	QK	2.9	0	7.9	1	1.2	1	0.370	0	2.394	0	6.478	0	1940	47	1.3
46494.8	10000	41.1152	93.0009	-884	QK	2.9	0	7.8	1	1.2	1	0.374	0	2.340	0	6.259	0	1907	33	1.3
46494.7	10000	41.1152	93.0001	-884	QK	2.9	0	7.6	1	1.2	1	0.369	0	2.319	0	6.291	0	1872	52	1.3
46494.6	10000	41.1152	92.9992	-886	QK	2.6	0	7.6	1	1.2	1	0.345	0	2.134	0	6.180	0	1832	47	1.3
46494.5	10000	41.1152	92.9983	-888	QK	2.6	0	7.5	1	1.2	1	0.344	0	2.140	0	6.225	0	1821	44	1.2
46494.4	10000	41.1152	92.9975	-893	QK	2.5	0	7.4	1	1.2	1	0.344	0	2.068	0	6.006	-1	1800	42	1.2
46494.3	10000	41.1152	92.9966	-897	QK	2.5	0	7.3	1	1.2	1	0.330	-1	1.974	-1	5.979	-1	1801	32	1.2
46494.2	10000	41.1152	92.9957	-902	QK	2.6	0	7.3	1	1.2	1	0.349	0	2.092	0	5.991	-1	1809	49	1.2
46494.1	10000	41.1151	92.9948	-908	QK	2.4	0	7.6	1	1.2	1	0.322	0	2.048	0	6.367	0	1824	38	1.2
46494.0	10000	41.1151	92.9940	-915	QK	2.6	0	7.5	0	1.2	1	0.341	0	2.089	0	6.118	-1	1846	46	1.2

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46493.9	10000	41.1151	92.9931	-922	QK	2.5	0	7.6	1	1.2	1	0.327	0	2.047	0	6.262	0	1848	49	1.2
46493.8	10000	41.1151	92.9922	-930	QK	2.6	0	7.4	0	1.2	1	0.348	0	2.102	0	6.047	-1	1847	55	1.2
46493.7	10000	41.1151	92.9913	-937	QK	2.7	0	7.5	0	1.2	1	0.358	0	2.175	0	6.081	-1	1858	50	1.2
46493.6	10000	41.1151	92.9905	-944	QK	2.6	0	7.8	1	1.2	1	0.332	0	2.141	0	6.451	0	1868	48	1.2
46493.5	10000	41.1151	92.9896	-953	QK	2.5	0	8.1	1	1.2	1	0.305	-1	2.078	0	6.807	0	1860	36	1.2
46493.4	10000	41.1150	92.9887	-963	QK	2.7	0	8.1	1	1.2	1	0.338	0	2.304	0	6.812	0	1851	52	1.2
46493.3	10000	41.1150	92.9878	-974	QK	2.7	0	8.0	1	1.2	0	0.341	0	2.356	0	6.910	1	1846	41	1.2
46493.2	10000	41.1150	92.9870	-984	QK	2.7	0	7.8	1	1.2	0	0.349	0	2.325	0	6.664	0	1851	43	1.2
46493.1	10000	41.1150	92.9861	-993	QK	2.8	1	8.2	1	1.1	0	0.345	0	2.529	1	7.340	1	1863	47	1.2
46493.0	10000	41.1150	92.9852	-1002	QK	3.0	1	8.4	2	1.1	0	0.353	0	2.655	1	7.515	1	1870	44	1.2
46492.9	10000	41.1150	92.9843	-1011	QK	2.9	1	8.1	1	1.1	0	0.355	0	2.605	1	7.346	1	1856	58	1.1
46492.8	10000	41.1150	92.9835	-1021	QK	3.0	1	8.0	1	1.1	0	0.380	0	2.719	1	7.150	1	1864	38	1.1
46492.7	10000	41.1149	92.9826	-1030	QK	2.9	1	7.8	1	1.2	0	0.372	0	2.523	1	6.782	0	1873	46	1.1
46492.6	10000	41.1149	92.9817	-1039	QK	2.8	1	8.0	1	1.2	0	0.350	0	2.431	0	6.938	1	1877	28	1.1
46492.5	10000	41.1149	92.9809	-1048	QK	2.7	1	8.3	1	1.2	1	0.330	0	2.322	0	7.033	1	1870	43	1.1
46492.4	10000	41.1149	92.9800	-1056	QK	2.6	1	8.3	1	1.2	1	0.309	-1	2.095	0	6.787	0	1858	43	1.1
46492.3	10000	41.1149	92.9791	-1064	QK	2.4	2	8.5	2	1.2	1	0.286	-1	1.972	-1	6.907	1	1861	40	1.1
46492.2	10000	41.1148	92.9782	-1072	QK	2.5	2	8.6	2	1.2	1	0.296	-1	2.105	0	7.104	1	1860	28	1.1
46492.1	10000	41.1148	92.9774	-1080	QK	2.6	2	8.9	2	1.2	1	0.298	-1	2.214	0	7.433	1	1849	41	1.1
46492.0	10000	41.1148	92.9765	-1086	QK	2.7	2	8.7	2	1.2	1	0.310	-1	2.309	0	7.453	1	1838	32	1.1
46491.9	10000	41.1148	92.9756	-1092	QK	2.7	2	8.6	2	1.2	1	0.317	0	2.303	0	7.255	1	1837	55	1.1
46491.8	10000	41.1148	92.9747	-1098	QK	2.8	2	8.4	2	1.2	1	0.339	0	2.433	0	7.172	1	1843	45	1.1
46491.7	10000	41.1148	92.9739	-1103	QK	2.8	2	8.7	2	1.2	0	0.322	0	2.390	0	7.419	1	1855	35	1.1
46491.6	10000	41.1148	92.9730	-1109	QK	2.7	2	8.4	2	1.2	0	0.324	0	2.339	0	7.228	1	1845	45	1.1
46491.5	10000	41.1147	92.9721	-1114	QK	2.8	2	8.4	2	1.2	1	0.338	0	2.374	0	7.029	1	1864	40	1.1
46491.4	10000	41.1147	92.9713	-1118	QK	2.5	2	8.3	2	1.2	1	0.295	-1	1.966	-1	6.658	0	1888	56	1.1
46491.3	10000	41.1147	92.9704	-1123	QK	2.3	2	8.5	2	1.3	1	0.276	-1	1.832	-1	6.642	0	1900	39	1.1
46491.2	10000	41.1147	92.9695	-1126	QK	2.3	1	8.6	2	1.3	1	0.262	-1	1.764	-1	6.743	0	1910	46	1.1
46491.1	10000	41.1147	92.9686	-1130	QK	2.2	1	8.9	2	1.3	1	0.243	-1	1.656	-1	6.806	0	1920	39	1.1
46491.0	10000	41.1147	92.9678	-1133	QK	2.4	1	8.4	2	1.3	1	0.280	-1	1.839	-1	6.577	0	1912	34	1.1
46490.9	10000	41.1146	92.9669	-1136	QK	2.4	1	8.5	2	1.3	1	0.285	-1	1.959	-1	6.873	1	1914	44	1.1
46490.8	10000	41.1146	92.9660	-1139	QK	2.3	1	8.3	2	1.2	1	0.279	-1	1.889	-1	6.771	0	1895	46	1.1
46490.7	10000	41.1146	92.9651	-1142	QK	2.3	1	8.3	2	1.2	1	0.275	-1	1.898	-1	6.907	1	1869	44	1.1
46490.6	10000	41.1146	92.9643	-1146	QK	2.2	1	8.4	2	1.2	1	0.264	-1	1.921	-1	7.269	1	1846	47	1.1
46490.5	10000	41.1146	92.9634	-1149	QK	2.3	1	8.4	2	1.1	1	0.275	-1	2.005	-1	7.292	1	1815	45	1.1
46490.4	10000	41.1146	92.9625	-1152	QK	2.6	2	8.5	2	1.1	1	0.308	-1	2.350	0	7.622	2	1788	40	1.1
46490.3	10000	41.1146	92.9616	-1156	QK	2.2	1	8.6	2	1.1	1	0.261	-1	2.061	0	7.882	2	1768	39	1.1
46490.2	10000	41.1145	92.9608	-1158	QK	2.1	1	8.4	2	1.1	1	0.249	-1	1.976	-1	7.923	2	1756	25	1.1
46490.1	10000	41.1145	92.9599	-1161	QK	2.0	1	8.9	2	1.1	1	0.226	-2	1.818	-1	8.032	2	1742	41	1.1
46490.0	10000	41.1145	92.9590	-1164	QK	2.0	1	8.7	2	1.1	1	0.228	-2	1.857	-1	8.156	2	1715	39	1.1
46489.9	10000	41.1145	92.9581	-1167	QK	1.9	1	8.3	2	1.1	1	0.229	-2	1.738	-1	7.597	2	1702	44	1.1
46489.8	10000	41.1145	92.9573	-1170	QK	1.6	2	8.1	2	1.1	1	0.204	-2	1.508	-2	7.400	1	1680	55	1.1
46489.7	10000	41.1145	92.9564	-1173	QK	1.4	2	8.0	2	1.1	1	0.177	-2	1.288	-2	7.291	1	1652	36	1.1
46489.6	10000	41.1144	92.9555	-1176	QK	1.4	2	7.6	2	1.1	1	0.189	-2	1.283	-2	6.797	0	1614	47	1.1
46489.5	10000	41.1144	92.9547	-1179	QK	1.6	2	7.6	2	1.1	1	0.226	-2	1.444	-2	6.389	0	1588	38	1.1
46489.4	10000	41.1144	92.9538	-1181	QK	1.5	2	7.6	2	1.1	0	0.235	-2	1.387	-2	5.899	-1	1573	41	1.1
46489.3	10000	41.1144	92.9529	-1184	QK	1.6	2	7.6	2	1.1	0	0.258	-1	1.437	-2	5.581	-1	1562	41	1.1
46489.2	10000	41.1144	92.9520	-1186	QK	1.8	1	7.6	2	1.1	0	0.276	-1	1.639	-1	5.942	-1	1559	41	1.1
46489.1	10000	41.1144	92.9512	-1188	QK	2.0	1	7.7	2	1.1	0	0.292	-1	1.869	-1	6.407	0	1563	44	1.1
46489.0	10000	41.1143	92.9503	-1190	QK	1.9	1	7.5	2	1.1	0	0.302	-1	1.914	-1	6.347	0	1562	47	1.1
46488.9	10000	41.1143	92.9494	-1193	QK	2.0	1	7.6	2	1.1	0	0.309	-1	2.071	0	6.711	0	1576	45	1.1
46488.8	10000	41.1143	92.9485	-1194	QK	2.2	1	6.8	1	0.9	-2	0.322	0	2.341	0	7.277	1	1559	42	1.1

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46488.7	10000	41.1143	92.9477	-1196	QK	2.4	0	6.9	0	0.9	-2	0.342	0	2.660	1	7.769	2	1541	47	1.1
46488.6	10000	41.1143	92.9468	-1198	QK	2.4	0	6.9	0	0.9	-2	0.347	0	2.823	1	8.125	2	1524	42	1.1
46488.5	10000	41.1143	92.9459	-1200	QK	2.3	0	6.7	-1	0.8	-3	0.343	0	2.799	1	8.155	2	1485	42	1.1
46488.4	10000	41.1143	92.9451	-1200	QK	2.2	-1	7.0	0	0.8	-2	0.322	0	2.700	1	8.392	3	1457	42	1.1
46488.3	10000	41.1142	92.9442	-1201	QK	2.2	-1	7.0	0	0.8	-3	0.315	0	2.697	1	8.559	3	1435	48	1.1
46488.2	10000	41.1142	92.9433	-1200	QK	2.3	0	7.0	0	0.8	-2	0.331	0	2.761	1	8.343	3	1412	62	1.1
46488.1	10000	41.1142	92.9424	-1199	QK	2.1	-1	6.7	-1	0.9	-2	0.320	0	2.505	1	7.829	2	1423	49	1.1
46488.0	10000	41.1142	92.9416	-1197	QK	2.0	-1	6.6	-1	0.9	-2	0.306	-1	2.381	0	7.788	2	1435	40	1.1
46487.9	10000	41.1142	92.9407	-1193	QK	2.0	-1	6.9	0	0.9	-2	0.294	-1	2.301	0	7.827	2	1476	40	1.1
46487.8	10000	41.1142	92.9398	-1191	QK	2.3	0	6.8	-1	0.9	-2	0.336	0	2.516	1	7.490	1	1534	53	1.1
46487.7	10000	41.1141	92.9389	-1186	QK	2.5	0	6.6	-1	0.9	-2	0.378	0	2.724	1	7.213	1	1580	50	1.1
46487.6	10000	41.1141	92.9381	-1181	QK	2.6	0	6.7	-1	1.0	-1	0.388	1	2.666	1	6.870	1	1633	46	1.1
46487.5	10000	41.1141	92.9372	-1176	QK	2.6	0	6.9	0	1.0	-1	0.371	0	2.541	1	6.855	1	1686	50	1.1
46487.4	10000	41.1141	92.9363	-1169	QK	2.5	0	7.3	0	1.1	-1	0.339	0	2.338	0	6.903	1	1714	43	1.1
46487.3	10000	41.1141	92.9354	-1163	QK	2.6	0	7.5	0	1.0	-1	0.351	0	2.538	1	7.241	1	1741	46	1.1
46487.2	10000	41.1141	92.9346	-1155	QK	2.8	1	7.7	1	1.0	-1	0.369	0	2.808	1	7.604	2	1739	50	1.1
46487.1	10000	41.1140	92.9337	-1147	QK	2.7	0	8.2	1	1.0	-1	0.334	0	2.704	1	8.086	2	1734	48	1.1
46487.0	10000	41.1140	92.9328	-1138	QK	2.8	1	8.2	1	1.0	-1	0.341	0	2.811	1	8.250	3	1727	34	1.1
46486.9	10000	41.1140	92.9319	-1129	QK	3.0	1	8.3	1	1.0	-1	0.358	0	3.001	2	8.383	3	1731	47	1.1
46486.8	10000	41.1140	92.9311	-1120	QK	2.8	0	8.0	1	0.9	-2	0.344	0	2.954	1	8.579	3	1716	36	1.1
46486.7	10000	41.1140	92.9302	-1110	QK	2.8	0	8.1	1	1.0	-1	0.342	0	2.899	1	8.482	3	1710	44	1.1
46486.6	10000	41.1140	92.9293	-1101	QK	2.7	0	8.1	1	0.9	-2	0.335	0	2.912	1	8.701	3	1698	62	1.1
46486.5	10000	41.1139	92.9285	-1090	QK	2.7	0	8.2	1	1.0	-1	0.326	0	2.782	1	8.536	3	1701	39	1.1
46486.4	10000	41.1139	92.9276	-1080	QK	2.8	0	8.0	1	0.9	-1	0.350	0	2.943	1	8.409	3	1711	41	1.1
46486.3	10000	41.1139	92.9267	-1069	QK	2.7	0	8.0	1	1.0	-1	0.332	0	2.738	1	8.243	3	1725	52	1.1
46486.2	10000	41.1139	92.9258	-1058	QK	2.3	-1	7.9	1	1.0	-1	0.285	-1	2.328	0	8.162	2	1728	46	1.1
46486.1	10000	41.1139	92.9250	-1047	QK	2.6	0	8.4	2	1.1	-1	0.306	-1	2.438	0	7.971	2	1757	35	1.1
46486.0	10000	41.1139	92.9241	-1036	QK	2.4	0	8.2	1	1.0	-1	0.293	-1	2.327	0	7.941	2	1770	57	1.1
46485.9	10000	41.1139	92.9232	-1025	QK	2.2	-1	8.2	1	1.1	-1	0.264	-1	1.889	-1	7.164	1	1801	53	1.1
46485.8	10000	41.1138	92.9223	-1015	QK	2.3	0	8.1	1	1.2	-1	0.289	-1	2.027	-1	7.018	1	1822	37	1.1
46485.7	10000	41.1138	92.9215	-1004	QK	2.2	-1	8.2	1	1.2	-1	0.264	-1	1.806	-1	6.843	1	1832	52	1.1
46485.6	10000	41.1138	92.9206	-993	QK	2.2	-1	8.2	1	1.2	-1	0.274	-1	1.868	-1	6.819	0	1841	61	1.1
46485.5	10000	41.1138	92.9197	-983	QK	2.2	-1	8.3	2	1.2	-1	0.265	-1	1.821	-1	6.868	1	1841	40	1.1
46485.4	10000	41.1138	92.9188	-972	QK	2.2	-1	7.8	1	1.1	-1	0.280	-1	1.949	-1	6.960	1	1821	36	1.2
46485.3	10000	41.1137	92.9180	-962	QK	2.2	-1	7.8	1	1.2	-1	0.285	-1	1.917	-1	6.722	0	1822	45	1.2
46485.2	10000	41.1137	92.9171	-952	QK	2.6	0	7.8	1	1.2	0	0.335	0	2.266	0	6.771	0	1813	47	1.2
46485.1	10000	41.1137	92.9162	-942	QK	2.5	0	7.2	0	1.1	0	0.342	0	2.193	0	6.418	0	1815	47	1.2
46485.0	10000	41.1137	92.9153	-933	QK	2.7	0	7.2	0	1.1	0	0.376	0	2.396	0	6.379	0	1827	50	1.2
46484.9	10000	41.1137	92.9145	-923	QK	2.7	0	7.4	0	1.1	0	0.370	0	2.430	0	6.570	0	1829	47	1.2
46484.8	10000	41.1137	92.9136	-914	QK	3.0	1	7.3	0	1.2	1	0.412	1	2.545	1	6.178	0	1848	42	1.2
46484.7	10000	41.1137	92.9127	-905	QK	2.9	1	7.6	1	1.2	0	0.379	0	2.334	0	6.166	0	1871	46	1.2
46484.6	10000	41.1136	92.9118	-897	QK	3.0	1	7.6	1	1.2	1	0.394	1	2.491	1	6.315	0	1865	36	1.2
46484.5	10000	41.1136	92.9110	-889	QK	3.1	1	7.5	0	1.2	1	0.416	1	2.626	1	6.319	0	1856	53	1.2
46484.4	10000	41.1136	92.9101	-881	QK	3.2	1	7.8	1	1.2	1	0.407	1	2.719	1	6.682	0	1853	48	1.2
46484.3	10000	41.1136	92.9092	-874	QK	2.9	1	7.7	1	1.2	0	0.376	0	2.486	0	6.619	0	1832	36	1.2
46484.2	10000	41.1136	92.9084	-867	QK	2.6	0	7.7	1	1.2	0	0.338	0	2.250	0	6.659	0	1828	49	1.2
46484.1	10000	41.1135	92.9075	-861	QK	2.7	0	7.6	1	1.1	0	0.350	0	2.378	0	6.789	0	1810	45	1.2
46484.0	10000	41.1135	92.9066	-856	QK	2.8	1	7.4	1	1.1	0	0.373	0	2.432	0	6.514	0	1811	44	1.2
46483.9	10000	41.1135	92.9057	-850	QK	2.6	0	7.6	1	1.2	0	0.346	0	2.250	0	6.498	0	1832	39	1.2
46483.8	10000	41.1135	92.9049	-846	QK	2.4	0	8.0	1	1.3	0	0.299	-1	1.994	-1	6.665	0	1850	40	1.2
46483.7	10000	41.1135	92.9040	-843	QK	2.2	-1	8.1	1	1.3	0	0.269	-1	1.747	-1	6.482	0	1860	41	1.2
46483.6	10000	41.1135	92.9032	-841	QK	2.3	0	8.2	1	1.3	1	0.285	-1	1.809	-1	6.347	0	1875	42	1.2

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46483.5	10000	41.1135	92.9024	-839	QK	2.6	0	7.8	1	1.3	2	0.332	0	1.930	-1	5.816	-1	1879	47	1.2
46483.4	10000	41.1135	92.9015	-837	QK	2.6	0	8.1	1	1.3	2	0.325	0	2.009	-1	6.176	0	1883	45	1.2
46483.3	10000	41.1135	92.9007	-836	QK	2.4	0	8.1	1	1.3	1	0.302	-1	1.926	-1	6.377	0	1856	60	1.2
46483.2	10000	41.1135	92.8999	-835	QK	2.3	0	8.1	1	1.2	1	0.284	-1	1.875	-1	6.600	0	1834	44	1.2
46483.1	10000	41.1136	92.8990	-835	QK	2.5	0	7.9	1	1.2	1	0.321	0	2.146	0	6.691	0	1812	63	1.2
46483.0	10000	41.1136	92.8982	-835	QK	2.7	0	7.7	1	1.2	0	0.355	0	2.367	0	6.673	0	1781	46	1.2
46482.9	10000	41.1136	92.8973	-837	QK	2.8	0	7.7	1	1.1	0	0.361	0	2.522	1	6.997	1	1757	55	1.2
46482.8	10000	41.1136	92.8965	-838	QK	2.6	0	7.6	1	1.1	0	0.340	0	2.362	0	6.958	1	1735	51	1.2
46482.7	10000	41.1136	92.8957	-840	QK	2.3	0	7.4	0	1.1	0	0.310	-1	2.053	0	6.633	0	1702	50	1.2
46482.6	10000	41.1136	92.8948	-843	QK	2.4	0	7.3	0	1.1	0	0.331	0	2.123	0	6.419	0	1698	53	1.2
46482.5	10000	41.1136	92.8940	-846	QK	2.8	1	7.0	0	1.2	0	0.399	1	2.406	0	6.024	-1	1690	50	1.2
46482.4	10000	41.1136	92.8932	-851	QK	2.5	0	6.9	0	1.2	0	0.357	0	2.135	0	5.971	-1	1685	49	1.2
46482.3	10000	41.1136	92.8923	-855	QK	2.2	-1	6.9	0	1.2	0	0.317	0	1.907	-1	6.020	-1	1679	39	1.2
46482.2	10000	41.1136	92.8915	-858	QK	2.1	-1	7.2	0	1.2	0	0.297	-1	1.840	-1	6.201	0	1676	37	1.2
46482.1	10000	41.1136	92.8907	-863	QK	2.2	-1	7.0	0	1.0	-1	0.307	-1	2.061	0	6.725	0	1672	49	1.2
46482.0	10000	41.1136	92.8898	-869	QK	2.2	-1	6.8	-1	1.0	-1	0.324	0	2.126	0	6.552	0	1672	35	1.2
46481.9	10000	41.1136	92.8890	-875	QK	2.2	-1	6.9	0	1.0	-1	0.314	-1	2.167	0	6.891	1	1652	53	1.2
46481.8	10000	41.1136	92.8881	-881	QK	2.0	-1	6.8	-1	1.0	-1	0.298	-1	2.056	0	6.909	1	1644	54	1.2
46481.7	10000	41.1136	92.8873	-887	QK	1.9	-1	6.5	-1	1.0	-1	0.290	-1	1.958	-1	6.756	0	1620	42	1.2
46481.6	10000	41.1137	92.8865	-893	QK	2.2	-1	6.3	-1	0.9	-1	0.350	0	2.316	0	6.625	0	1616	36	1.2
46481.5	10000	41.1137	92.8856	-900	QK	2.2	-1	5.9	-2	1.0	-1	0.364	0	2.216	0	6.086	-1	1601	47	1.2
46481.4	10000	41.1137	92.8848	-907	QK	2.1	-1	6.4	-1	1.0	-1	0.323	0	2.076	0	6.436	0	1605	54	1.2
46481.3	10000	41.1137	92.8840	-914	QK	2.1	-1	6.6	-1	1.0	-1	0.319	0	2.086	0	6.531	0	1621	42	1.2
46481.2	10000	41.1137	92.8831	-921	QK	2.1	-1	6.7	-1	1.1	0	0.318	0	1.978	-1	6.224	0	1654	32	1.2
46481.1	10000	41.1137	92.8823	-927	QK	2.2	-1	7.2	0	1.1	-1	0.302	-1	2.078	0	6.884	1	1673	46	1.2
46481.0	10000	41.1137	92.8815	-934	QK	2.5	0	7.3	0	1.1	0	0.337	0	2.248	0	6.675	0	1707	47	1.2
46480.9	10000	41.1137	92.8806	-940	QK	2.4	0	7.2	0	1.1	0	0.338	0	2.121	0	6.281	0	1742	66	1.2
46480.8	10000	41.1137	92.8798	-946	QK	2.7	0	7.7	1	1.1	0	0.348	0	2.336	0	6.719	0	1785	50	1.2
46480.7	10000	41.1137	92.8789	-952	QK	2.8	1	7.5	0	1.2	0	0.378	0	2.419	0	6.403	0	1797	32	1.2
46480.6	10000	41.1137	92.8781	-958	QK	2.7	0	7.7	1	1.2	0	0.350	0	2.336	0	6.670	0	1798	42	1.2
46480.5	10000	41.1137	92.8773	-963	QK	2.7	0	7.8	1	1.1	0	0.349	0	2.423	1	6.936	0	1801	52	1.2
46480.4	10000	41.1137	92.8764	-968	QK	2.4	0	7.7	1	1.2	0	0.318	0	2.087	0	6.570	0	1796	33	1.1
46480.3	10000	41.1137	92.8756	-974	QK	2.4	0	7.7	1	1.2	0	0.319	0	2.099	0	6.571	0	1789	46	1.1
46480.2	10000	41.1138	92.8748	-980	QK	2.4	0	7.9	1	1.2	0	0.305	-1	2.091	0	6.861	0	1777	42	1.1
46480.1	10000	41.1138	92.8739	-984	QK	2.2	-1	7.5	0	1.2	0	0.297	-1	1.921	-1	6.463	0	1758	45	1.1
46480.0	10000	41.1138	92.8731	-989	QK	2.2	-1	7.7	1	1.2	0	0.287	-1	1.869	-1	6.512	0	1776	50	1.1
46479.9	10000	41.1138	92.8723	-993	QK	2.5	0	7.7	1	1.2	0	0.330	0	2.196	0	6.659	0	1797	33	1.1
46479.8	10000	41.1138	92.8714	-996	QK	2.4	0	7.9	1	1.2	0	0.305	-1	2.028	-1	6.653	0	1812	57	1.1
46479.7	10000	41.1138	92.8706	-999	QK	2.6	0	7.5	0	1.2	0	0.344	0	2.120	0	6.161	0	1829	39	1.1
46479.6	10000	41.1138	92.8697	-1001	QK	2.5	0	7.7	1	1.3	0	0.324	0	1.966	-1	6.074	-1	1836	49	1.1
46479.5	10000	41.1138	92.8689	-1003	QK	2.4	0	8.0	1	1.3	0	0.304	-1	1.944	-1	6.404	0	1828	42	1.1
46479.4	10000	41.1138	92.8681	-1005	QK	2.5	0	8.0	1	1.3	0	0.314	-1	1.951	-1	6.214	0	1835	52	1.1
46479.3	10000	41.1138	92.8672	-1007	QK	2.4	0	7.6	1	1.3	0	0.313	-1	1.853	-1	5.920	-1	1815	53	1.1
46479.2	10000	41.1138	92.8664	-1008	QK	2.4	0	7.2	1	1.3	0	0.332	-1	1.857	-1	5.587	-1	1783	38	1.1
46479.1	10000	41.1138	92.8656	-1010	QK	2.7	0	7.0	1	1.3	0	0.380	0	2.112	0	5.552	-1	1751	49	1.1
46479.0	10000	41.1138	92.8647	-1009	QK	2.7	0	7.2	1	1.2	0	0.366	0	2.176	0	5.942	-1	1738	48	1.1
46478.9	10000	41.1138	92.8639	-1009	QK	2.7	0	7.1	1	1.2	0	0.376	0	2.293	0	6.099	-1	1737	48	1.1
46478.8	10000	41.1139	92.8631	-1010	QK	2.6	0	7.3	1	1.2	0	0.353	0	2.146	0	6.081	-1	1747	53	1.1
46478.7	10000	41.1139	92.8622	-1011	QK	2.5	0	7.5	1	1.2	0	0.331	0	2.144	0	6.468	0	1751	36	1.1
46478.6	10000	41.1139	92.8614	-1011	QK	2.7	0	7.6	1	1.2	0	0.359	0	2.408	0	6.706	0	1759	36	1.1
46478.5	10000	41.1139	92.8605	-1011	QK	2.6	0	8.1	1	1.2	0	0.322	0	2.208	0	6.866	0	1791	39	1.1
46478.4	10000	41.1139	92.8597	-1010	QK	2.7	0	7.9	1	1.2	0	0.339	0	2.276	0	6.706	0	1798	50	1.0

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46478.3	10000	41.1139	92.8589	-1010	QK	2.8	1	7.5	0	1.1	0	0.375	0	2.479	0	6.607	0	1785	42	1.0
46478.2	10000	41.1139	92.8580	-1009	QK	2.8	1	7.8	1	1.1	0	0.355	0	2.437	0	6.866	1	1778	44	1.0
46478.1	10000	41.1139	92.8572	-1007	QK	2.9	1	7.5	0	1.1	0	0.393	1	2.625	1	6.679	0	1762	45	1.0
46478.0	10000	41.1139	92.8564	-1006	QK	2.8	1	7.4	0	1.1	0	0.385	0	2.610	1	6.788	0	1736	44	1.0
46477.9	10000	41.1139	92.8555	-1005	QK	2.7	0	7.1	0	1.1	0	0.383	0	2.401	0	6.273	0	1718	47	1.0
46477.8	10000	41.1139	92.8547	-1004	QK	2.5	0	6.7	-1	1.1	0	0.375	0	2.316	0	6.172	0	1678	45	1.0
46477.7	10000	41.1139	92.8539	-1002	QK	2.2	-1	6.8	-1	1.1	0	0.324	0	2.075	0	6.394	0	1650	49	1.0
46477.6	10000	41.1139	92.8530	-1001	QK	2.3	0	7.1	0	1.1	0	0.323	0	2.155	0	6.675	0	1642	55	1.0
46477.5	10000	41.1139	92.8522	-999	QK	2.3	-1	6.6	-1	1.1	0	0.340	0	2.081	0	6.121	-1	1637	33	1.0
46477.4	10000	41.1139	92.8513	-997	QK	2.3	0	6.5	-1	1.1	0	0.355	0	2.161	0	6.087	-1	1630	53	1.0
46477.3	10000	41.1140	92.8505	-995	QK	2.4	0	6.4	-1	1.1	0	0.375	0	2.194	0	5.851	-1	1643	37	1.0
46477.2	10000	41.1140	92.8497	-994	QK	2.4	0	6.8	-1	1.0	-1	0.351	0	2.360	0	6.721	0	1632	48	1.0
46477.1	10000	41.1140	92.8488	-992	QK	2.6	0	6.8	-1	1.0	-1	0.375	0	2.487	0	6.636	0	1617	38	1.0
46477.0	10000	41.1140	92.8480	-990	QK	2.5	0	6.5	-1	1.0	-1	0.380	0	2.383	0	6.271	0	1604	54	1.0
46476.9	10000	41.1140	92.8472	-989	QK	2.3	0	6.0	-2	1.0	-1	0.384	0	2.320	0	6.040	-1	1547	39	1.0
46476.8	10000	41.1140	92.8463	-988	QK	2.2	-1	5.6	-2	0.9	-2	0.400	1	2.563	1	6.401	0	1429	53	1.0
46476.7	10000	41.1140	92.8455	-987	QK	1.9	-1	5.1	-3	0.8	-3	0.377	0	2.475	0	6.557	0	1292	47	1.0
46476.6	10000	41.1140	92.8447	-985	QK	1.8	-1	4.6	-4	0.7	-4	0.398	1	2.720	1	6.835	0	1149	49	1.0
46476.5	10000	41.1140	92.8438	-983	QK	1.8	-1	4.1	-4	0.6	-4	0.436	1	2.903	1	6.660	0	1056	47	1.0
46476.4	10000	41.1140	92.8430	-981	QK	1.4	-2	3.7	-5	0.6	-5	0.386	1	2.607	1	6.754	0	1025	37	1.0
46476.3	10000	41.1140	92.8421	-980	QK	1.9	-1	4.1	-4	0.5	-5	0.465	2	3.515	3	7.560	2	1063	47	1.0
46476.2	10000	41.1140	92.8413	-979	QK	2.2	-1	4.6	-4	0.6	-5	0.472	2	3.875	3	8.210	2	1141	59	1.0
46476.1	10000	41.1140	92.8405	-978	QK	2.2	-1	5.2	-3	0.7	-3	0.426	1	3.085	2	7.243	1	1296	45	1.0
46476.0	10000	41.1140	92.8396	-976	QK	2.3	0	5.8	-2	0.9	-2	0.395	1	2.715	1	6.872	1	1474	56	1.0
46475.9	10000	41.1140	92.8388	-975	QK	2.4	0	6.7	-1	0.9	-2	0.360	1	2.574	1	7.154	1	1632	42	0.9
46475.8	10000	41.1140	92.8380	-973	QK	2.5	0	7.3	0	1.1	0	0.349	0	2.375	1	6.815	0	1742	48	0.9
46475.7	10000	41.1141	92.8371	-972	QK	2.9	0	7.7	1	1.1	0	0.376	1	2.657	1	7.060	1	1802	48	0.9
46475.6	10000	41.1141	92.8363	-971	QK	2.7	0	7.8	1	1.1	0	0.345	0	2.440	1	7.075	1	1792	46	0.9
46475.5	10000	41.1141	92.8354	-970	QK	2.3	-1	7.5	0	1.2	0	0.305	-1	1.986	-1	6.516	0	1788	50	0.9
46475.4	10000	41.1141	92.8346	-969	QK	2.5	0	7.4	0	1.1	0	0.338	0	2.222	0	6.577	1	1783	49	0.9
46475.3	10000	41.1141	92.8338	-968	QK	2.7	0	7.7	1	1.1	0	0.349	0	2.396	1	6.868	1	1779	43	0.9
46475.2	10000	41.1141	92.8329	-967	QK	2.6	0	8.0	1	1.2	0	0.320	0	2.208	1	6.907	1	1772	48	0.9
46475.1	10000	41.1141	92.8321	-966	QK	2.4	0	8.2	1	1.2	0	0.297	-1	2.111	1	7.117	1	1776	44	0.9
46475.0	10000	41.1141	92.8313	-965	QK	2.3	0	8.5	1	1.2	0	0.271	-1	1.919	-1	7.076	1	1781	41	0.9
46474.9	10000	41.1141	92.8304	-964	QK	2.2	-1	8.5	1	1.3	0	0.260	-1	1.734	-1	6.668	0	1807	65	0.9
46474.8	10000	41.1141	92.8296	-963	QK	2.2	-1	8.8	1	1.3	1	0.251	-1	1.693	-1	6.740	1	1832	32	0.9
46474.7	10000	41.1141	92.8288	-962	QK	2.2	-1	9.0	1	1.3	1	0.248	-1	1.727	-1	6.974	1	1816	52	0.9
46474.6	10000	41.1141	92.8279	-960	QK	2.1	-1	8.9	1	1.3	1	0.238	-2	1.646	-1	6.929	1	1813	45	0.9
46474.5	10000	41.1141	92.8271	-959	QK	2.5	0	8.3	1	1.3	1	0.300	-1	1.935	-1	6.445	0	1810	41	0.9
46474.4	10000	41.1141	92.8262	-959	QK	2.7	0	7.8	1	1.3	1	0.341	0	2.125	0	6.233	0	1797	43	0.9
46474.3	10000	41.1141	92.8254	-958	QK	2.8	0	7.6	1	1.2	1	0.367	0	2.349	0	6.396	0	1783	37	0.9
46474.2	10000	41.1142	92.8246	-957	QK	2.9	0	7.5	1	1.1	0	0.394	1	2.667	1	6.773	0	1770	48	0.9
46474.1	10000	41.1142	92.8237	-957	QK	2.9	0	7.6	1	1.1	0	0.383	1	2.857	1	7.450	1	1756	42	0.9
46474.0	10000	41.1142	92.8229	-956	QK	3.0	0	7.7	1	1.1	0	0.388	1	2.815	1	7.246	1	1790	38	0.9
46473.9	10000	41.1142	92.8221	-955	QK	3.0	0	7.5	1	1.1	0	0.405	1	2.879	1	7.116	1	1797	44	0.9
46473.8	10000	41.1142	92.8212	-954	QK	2.9	0	7.5	1	1.1	0	0.339	0	2.442	1	7.201	0	1795	44	0.9
46473.7	10000	41.1142	92.8204	-952	QK	2.5	0	7.7	1	1.1	0	0.323	0	2.256	0	6.990	0	1813	44	0.9
46473.6	10000	41.1142	92.8196	-951	QK	2.5	0	7.6	1	1.1	0	0.332	0	2.196	0	6.610	0	1819	63	0.9
46473.5	10000	41.1142	92.8187	-951	QK	2.5	0	7.5	1	1.2	0	0.340	0	2.135	0	6.279	0	1824	52	0.9
46473.4	10000	41.1142	92.8179	-950	QK	2.7	0	7.6	1	1.2	0	0.360	0	2.212	0	6.151	0	1835	61	0.9
46473.3	10000	41.1142	92.8170	-949	QK	2.7	0	7.7	1	1.3	0	0.353	0	2.189	0	6.191	0	1838	47	0.9
46473.2	10000	41.1142	92.8162	-949	QK	2.9	1	7.7	1	1.3	1	0.377	0	2.265	0	6.012	-1	1848	48	0.9

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46473.1	10000	41.1142	92.8154	-948	QK	3.2	1	7.8	1	1.3	1	0.404	1	2.484	0	6.150	0	1863	48	0.9
46473.0	10000	41.1142	92.8145	-947	QK	3.1	1	7.9	1	1.3	1	0.393	1	2.466	0	6.276	0	1861	33	0.9
46472.9	10000	41.1142	92.8137	-947	QK	3.0	1	8.0	1	1.3	1	0.371	0	2.318	0	6.253	0	1870	32	0.9
46472.8	10000	41.1142	92.8129	-947	QK	2.9	1	8.2	1	1.3	1	0.355	0	2.329	0	6.555	0	1875	47	0.9
46472.7	10000	41.1142	92.8120	-946	QK	2.9	1	7.8	1	1.2	1	0.371	0	2.388	0	6.444	0	1855	40	0.9
46472.6	10000	41.1143	92.8112	-946	QK	2.9	1	7.8	1	1.2	0	0.370	0	2.454	0	6.634	0	1825	50	0.9
46472.5	10000	41.1143	92.8104	-944	QK	2.7	0	7.7	1	1.2	0	0.355	0	2.312	0	6.521	0	1808	56	1.0
46472.4	10000	41.1143	92.8095	-941	QK	2.6	0	7.6	1	1.2	1	0.346	0	2.209	0	6.387	0	1806	49	1.0
46472.3	10000	41.1143	92.8087	-938	QK	2.6	0	7.2	0	1.2	0	0.358	0	2.242	0	6.260	0	1794	47	1.0
46472.2	10000	41.1142	92.8078	-940	QK	2.6	0	7.1	0	1.1	0	0.367	0	2.391	0	6.507	0	1778	56	1.0
46472.1	10000	41.1142	92.8070	-943	QK	2.3	0	7.4	0	1.1	0	0.315	-1	2.173	0	6.902	1	1763	36	1.0
46472.0	10000	41.1142	92.8062	-943	QK	2.2	-1	7.6	1	1.1	0	0.295	-1	2.072	0	7.031	1	1761	38	1.0
46471.9	10000	41.1142	92.8053	-943	QK	2.1	-1	7.6	1	1.1	0	0.277	-1	1.943	-1	7.024	1	1773	38	1.0
46471.8	10000	41.1142	92.8045	-942	QK	2.1	-1	7.9	1	1.1	0	0.261	-1	1.876	-1	7.188	1	1768	53	1.0
46471.7	10000	41.1142	92.8037	-942	QK	2.1	-1	7.8	1	1.1	0	0.265	-1	1.849	-1	6.990	1	1775	37	1.0
46471.6	10000	41.1142	92.8028	-942	QK	2.2	-1	7.8	1	1.1	0	0.278	-1	1.942	-1	6.982	1	1781	43	1.0
46471.5	10000	41.1142	92.8020	-942	QK	2.3	-1	7.7	1	1.2	0	0.293	-1	1.939	-1	6.613	0	1786	40	1.0
46471.4	10000	41.1141	92.8012	-941	QK	2.4	0	6.9	0	1.2	0	0.341	0	2.029	-1	5.945	-1	1786	38	1.0
46471.3	10000	41.1141	92.8003	-939	QK	2.6	0	7.2	0	1.2	1	0.363	0	2.089	0	5.760	-1	1812	36	1.0
46471.2	10000	41.1141	92.7995	-938	QK	2.7	0	7.0	0	1.2	1	0.380	0	2.164	0	5.688	-1	1815	43	1.0
46471.1	10000	41.1141	92.7987	-938	QK	2.8	1	7.5	0	1.2	1	0.367	0	2.297	0	6.254	0	1835	36	1.0
46471.0	10000	41.1141	92.7978	-941	QK	3.0	1	7.7	1	1.2	1	0.385	0	2.470	0	6.411	0	1838	46	1.0
46470.9	10000	41.1141	92.7970	-943	QK	2.8	1	7.9	1	1.2	1	0.356	0	2.314	0	6.493	0	1841	62	1.0
46470.8	10000	41.1141	92.7961	-944	QK	2.8	1	8.0	1	1.2	1	0.348	0	2.245	0	6.444	0	1861	37	1.0
46470.7	10000	41.1140	92.7953	-945	QK	2.9	1	8.6	2	1.3	1	0.343	0	2.307	0	6.718	0	1887	45	1.0
46470.6	10000	41.1140	92.7945	-945	QK	2.8	1	8.2	1	1.2	1	0.338	0	2.252	0	6.659	0	1873	38	1.0
46470.5	10000	41.1140	92.7936	-946	QK	2.7	0	8.4	2	1.3	1	0.322	0	2.130	0	6.608	0	1873	43	1.0
46470.4	10000	41.1140	92.7928	-947	QK	2.6	0	7.6	1	1.3	1	0.336	0	1.980	-1	5.897	-1	1869	51	1.0
46470.3	10000	41.1140	92.7920	-947	QK	2.6	0	8.2	1	1.3	2	0.312	-1	1.949	-1	6.252	0	1875	41	1.0
46470.2	10000	41.1140	92.7911	-948	QK	2.6	0	8.3	1	1.3	2	0.313	-1	1.975	-1	6.304	0	1881	53	1.0
46470.1	10000	41.1140	92.7903	-948	QK	2.5	0	8.6	2	1.3	1	0.291	-1	1.948	-1	6.695	0	1874	44	1.0
46470.0	10000	41.1139	92.7895	-949	QK	2.4	0	8.3	1	1.3	1	0.284	-1	1.847	-1	6.493	0	1849	44	1.0
46469.9	10000	41.1139	92.7886	-951	QK	2.3	-1	8.7	2	1.3	1	0.258	-1	1.763	-1	6.830	0	1851	43	1.0
46469.8	10000	41.1139	92.7878	-952	QK	2.2	-1	8.5	2	1.3	1	0.259	-1	1.726	-1	6.652	0	1840	58	1.0
46469.7	10000	41.1139	92.7870	-953	QK	2.2	-1	9.0	2	1.3	1	0.246	-1	1.714	-1	6.977	1	1832	39	1.0
46469.6	10000	41.1139	92.7861	-954	QK	1.8	-1	8.4	2	1.3	1	0.216	-2	1.403	-2	6.481	0	1800	45	1.0
46469.5	10000	41.1139	92.7853	-955	QK	1.9	-1	8.2	2	1.3	1	0.236	-2	1.452	-2	6.151	0	1780	61	1.0
46469.4	10000	41.1139	92.7845	-956	QK	2.2	-1	8.0	2	1.3	1	0.275	-1	1.673	-1	6.085	-1	1752	46	1.0
46469.3	10000	41.1139	92.7836	-957	QK	2.2	-1	8.0	1	1.3	1	0.276	-1	1.738	-1	6.308	0	1735	47	1.0
46469.2	10000	41.1138	92.7828	-959	QK	2.3	0	7.5	1	1.3	1	0.310	-1	1.861	-1	5.996	-1	1699	49	1.0
46469.1	10000	41.1138	92.7819	-960	QK	2.6	0	7.4	1	1.2	1	0.350	0	2.182	0	6.228	0	1690	46	1.0
46469.0	10000	41.1138	92.7811	-961	QK	2.8	1	6.9	0	1.1	1	0.408	1	2.470	0	6.054	-1	1671	47	1.0
46468.9	10000	41.1138	92.7803	-963	QK	3.0	1	6.8	0	1.1	1	0.443	1	2.747	1	6.202	0	1667	41	1.0
46468.8	10000	41.1138	92.7794	-964	QK	2.9	1	6.5	-1	1.0	1	0.450	1	2.871	1	6.384	0	1648	35	1.0
46468.7	10000	41.1138	92.7786	-965	QK	2.7	1	6.9	-1	1.0	1	0.397	1	2.754	1	6.941	1	1640	45	1.0
46468.6	10000	41.1138	92.7778	-966	QK	3.0	1	7.2	-1	1.0	1	0.414	1	2.904	1	7.022	1	1662	56	0.9
46468.5	10000	41.1138	92.7769	-967	QK	3.1	1	7.3	-1	1.0	1	0.423	1	3.035	2	7.179	1	1689	39	0.9
46468.4	10000	41.1137	92.7761	-968	QK	2.8	1	7.3	-1	1.1	0	0.380	0	2.592	1	6.815	0	1692	49	0.9
46468.3	10000	41.1137	92.7753	-969	QK	2.6	1	7.5	-1	1.1	0	0.350	0	2.489	1	7.112	1	1700	48	0.9
46468.2	10000	41.1137	92.7744	-970	QK	2.7	1	7.5	-1	1.0	0	0.355	0	2.571	1	7.243	1	1713	34	0.9
46468.1	10000	41.1137	92.7736	-971	QK	2.7	1	8.0	-1	1.1	0	0.337	0	2.592	1	7.697	2	1739	53	0.9
46468.0	10000	41.1137	92.7728	-972	QK	2.6	0	7.4	0	1.1	0	0.349	0	2.419	0	6.929	1	1759	43	0.9

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46467.9	10000	41.1137	92.7719	-973	QK	2.7	0	7.4	0	1.1	0	0.361	0	2.504	1	6.945	1	1750	42	0.9
46467.8	10000	41.1137	92.7711	-974	QK	2.6	0	7.1	0	1.1	-1	0.358	0	2.435	1	6.796	0	1749	43	0.9
46467.7	10000	41.1136	92.7702	-975	QK	2.8	1	7.4	0	1.0	-1	0.381	0	2.812	1	7.385	1	1750	35	0.9
46467.6	10000	41.1136	92.7694	-977	QK	2.8	1	7.6	1	1.0	-1	0.373	0	2.805	1	7.511	1	1758	49	0.9
46467.5	10000	41.1136	92.7686	-978	QK	2.8	1	7.7	1	1.0	-1	0.360	0	2.696	1	7.486	1	1741	42	0.9
46467.4	10000	41.1136	92.7677	-978	QK	2.7	0	7.5	0	1.1	0	0.361	0	2.514	1	6.964	1	1754	55	0.9
46467.3	10000	41.1136	92.7669	-980	QK	2.8	1	7.9	1	1.1	0	0.351	0	2.525	1	7.190	1	1766	44	0.9
46467.2	10000	41.1136	92.7661	-980	QK	2.4	0	7.6	1	1.1	0	0.311	-1	2.087	0	6.707	0	1764	42	0.9
46467.1	10000	41.1136	92.7652	-981	QK	2.5	0	8.2	1	1.2	0	0.306	-1	2.166	0	7.081	1	1771	45	0.9
46467.0	10000	41.1135	92.7644	-982	QK	2.5	1	8.2	1	1.2	0	0.307	-1	2.109	0	6.879	1	1783	46	0.9
46466.9	10000	41.1135	92.7635	-982	QK	2.8	1	8.2	1	1.2	1	0.342	0	2.347	0	6.862	1	1799	35	0.9
46466.8	10000	41.1135	92.7627	-982	QK	2.9	1	8.1	1	1.2	1	0.361	0	2.425	0	6.720	0	1830	42	0.9
46466.7	10000	41.1135	92.7619	-983	QK	3.1	1	8.2	1	1.2	1	0.384	0	2.644	1	6.878	1	1833	48	0.9
46466.6	10000	41.1135	92.7610	-984	QK	3.2	1	8.0	1	1.2	1	0.402	0	2.797	1	6.951	1	1836	47	0.9
46466.5	10000	41.1135	92.7602	-984	QK	3.4	2	8.2	1	1.1	1	0.421	1	3.065	2	7.280	1	1846	49	0.9
46466.4	10000	41.1135	92.7594	-984	QK	3.4	2	8.1	1	1.1	1	0.414	1	3.014	2	7.286	1	1866	36	0.9
46466.3	10000	41.1134	92.7585	-984	QK	3.2	1	8.4	2	1.1	1	0.382	0	2.832	1	7.411	1	1884	42	0.9
46466.2	10000	41.1134	92.7577	-984	QK	3.0	1	8.2	1	1.1	1	0.363	0	2.602	1	7.162	1	1870	53	0.8
46466.1	10000	41.1134	92.7569	-984	QK	2.9	1	8.3	1	1.1	1	0.360	0	2.589	1	7.198	1	1864	47	0.8
46466.0	10000	41.1134	92.7560	-985	QK	2.9	1	8.3	1	1.1	1	0.345	0	2.598	1	7.537	1	1844	48	0.8
46465.9	10000	41.1134	92.7552	-985	QK	3.0	1	8.8	2	1.1	1	0.340	0	2.656	1	7.805	2	1824	52	0.8
46465.8	10000	41.1134	92.7544	-985	QK	2.9	1	8.6	2	1.1	1	0.339	0	2.576	1	7.597	2	1796	42	0.8
46465.7	10000	41.1134	92.7535	-985	QK	2.8	1	8.1	1	1.1	1	0.349	0	2.580	1	7.392	1	1754	44	0.8
46465.6	10000	41.1134	92.7527	-984	QK	2.7	1	7.8	1	1.1	1	0.351	0	2.451	1	6.982	1	1720	59	0.8
46465.5	10000	41.1133	92.7518	-981	QK	2.7	0	8.0	1	1.1	1	0.331	0	2.316	0	6.999	1	1721	38	0.8
46465.4	10000	41.1133	92.7510	-980	QK	2.5	0	8.1	1	1.1	1	0.312	-1	2.276	0	7.284	1	1712	42	0.8
46465.3	10000	41.1133	92.7502	-983	QK	2.5	1	8.2	1	1.2	1	0.300	-1	2.106	0	7.023	1	1711	47	0.8
46465.2	10000	41.1133	92.7493	-983	QK	2.4	1	7.7	1	1.2	1	0.309	-1	2.014	-1	6.516	0	1720	43	0.8
46465.1	10000	41.1133	92.7485	-982	QK	2.4	1	7.7	1	1.2	1	0.317	0	2.071	0	6.533	1	1738	40	0.8
46465.0	10000	41.1133	92.7477	-981	QK	2.6	1	7.9	1	1.2	1	0.334	0	2.153	0	6.448	1	1753	43	0.8
46464.9	10000	41.1133	92.7468	-980	QK	2.7	1	8.0	1	1.2	1	0.337	0	2.342	1	6.954	1	1752	48	0.8
46464.8	10000	41.1133	92.7460	-979	QK	2.6	1	7.7	1	1.1	1	0.338	0	2.362	1	6.987	1	1755	43	0.8
46464.7	10000	41.1132	92.7452	-978	QK	2.7	1	7.9	1	1.1	1	0.339	0	2.421	1	7.149	1	1748	35	0.8
46464.6	10000	41.1132	92.7443	-977	QK	2.7	1	7.8	1	1.1	1	0.347	0	2.447	1	7.049	1	1754	38	0.8
46464.5	10000	41.1132	92.7435	-976	QK	2.6	1	7.9	1	1.1	1	0.333	0	2.469	1	7.420	1	1746	41	0.8
46464.4	10000	41.1132	92.7427	-974	QK	2.6	1	8.3	1	1.1	1	0.320	0	2.455	1	7.661	2	1749	37	0.8
46464.3	10000	41.1132	92.7418	-974	QK	2.5	1	8.4	2	1.1	1	0.296	-1	2.337	1	7.888	2	1757	43	0.8
46464.2	10000	41.1132	92.7410	-973	QK	2.5	1	8.2	1	1.1	1	0.304	-1	2.207	1	7.266	1	1767	42	0.8
46464.1	10000	41.1132	92.7401	-973	QK	2.7	1	7.9	1	1.2	1	0.340	0	2.327	1	6.842	1	1760	29	0.8
46464.0	10000	41.1132	92.7393	-973	QK	2.9	1	7.7	1	1.1	1	0.398	1	2.517	1	6.328	1	1744	62	0.8
46463.9	10000	41.1131	92.7385	-973	QK	2.8	1	7.5	1	1.1	1	0.393	1	2.623	1	6.670	1	1727	35	0.8
46463.8	10000	41.1131	92.7376	-972	QK	2.8	1	7.1	1	1.1	1	0.399	1	2.551	1	6.395	1	1734	39	0.8
46463.7	10000	41.1131	92.7368	-972	QK	2.7	1	7.0	1	1.1	1	0.387	1	2.434	1	6.294	1	1741	38	0.8
46463.6	10000	41.1131	92.7360	-971	QK	2.6	1	6.9	1	1.1	1	0.380	1	2.330	1	6.126	1	1745	38	0.8
46463.5	10000	41.1131	92.7351	-971	QK	2.6	1	7.1	1	1.1	1	0.370	1	2.380	1	6.439	1	1762	39	0.8
46463.4	10000	41.1131	92.7343	-970	QK	2.4	1	7.7	1	1.1	1	0.306	-1	2.190	1	7.155	1	1775	35	0.8
46463.3	10000	41.1130	92.7335	-970	QK	2.2	1	7.8	1	1.1	1	0.249	-1	1.899	-1	7.640	1	1799	42	0.8
46463.2	10000	41.1130	92.7326	-969	QK	2.0	1	8.0	1	1.1	2	0.228	-2	1.678	-1	7.350	1	1817	54	0.8
46463.1	10000	41.1130	92.7318	-968	QK	1.9	1	8.1	1	1.1	2	0.235	-2	1.807	-1	7.674	1	1810	41	0.8
46463.0	10000	41.1130	92.7310	-968	QK	2.4	1	8.8	1	1.1	2	0.269	-1	2.099	-1	7.809	1	1805	49	0.8
46462.9	10000	41.1130	92.7301	-968	QK	2.6	1	8.8	1	1.1	2	0.288	-1	2.210	0	7.663	1	1805	50	0.8
46462.8	10000	41.1130	92.7293	-968	QK	2.5	1	8.9	1	1.2	2	0.278	-1	2.048	0	7.376	1	1794	49	0.8

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46462.7	10000	41.1130	92.7285	-968	QK	2.6	0	8.6	2	1.2	1	0.308	-1	2.218	0	7.214	1	1789	43	0.8
46462.6	10000	41.1130	92.7276	-967	QK	2.8	0	8.0	1	1.2	1	0.343	0	2.248	0	6.549	0	1799	52	0.8
46462.5	10000	41.1129	92.7268	-967	QK	3.0	1	7.8	1	1.2	1	0.391	1	2.463	0	6.297	0	1804	45	0.8
46462.4	10000	41.1129	92.7259	-967	QK	2.9	1	7.4	0	1.3	1	0.393	1	2.261	0	5.759	-1	1799	43	0.8
46462.3	10000	41.1129	92.7251	-966	QK	2.6	0	7.7	0	1.3	1	0.340	0	2.018	-1	5.927	-1	1799	43	0.8
46462.2	10000	41.1129	92.7243	-964	QK	2.6	0	7.6	0	1.3	1	0.344	0	2.008	-1	5.833	-1	1787	49	0.8
46462.1	10000	41.1129	92.7234	-962	QK	2.5	0	7.6	1	1.2	1	0.332	0	2.020	-1	6.082	-1	1778	54	0.8
46462.0	10000	41.1129	92.7226	-965	QK	2.4	0	7.2	0	1.3	1	0.337	0	1.902	-1	5.642	-1	1779	43	0.8
46461.9	10000	41.1129	92.7218	-966	QK	2.3	0	7.7	0	1.2	1	0.296	-1	1.835	-1	6.205	0	1783	51	0.8
46461.8	10000	41.1128	92.7209	-965	QK	2.3	-1	7.9	1	1.3	1	0.286	-1	1.804	-1	6.318	0	1794	48	0.8
46461.7	10000	41.1128	92.7201	-964	QK	2.3	0	8.1	1	1.2	1	0.286	-1	1.866	-1	6.517	0	1808	33	0.8
46461.6	10000	41.1128	92.7193	-964	QK	2.5	0	8.0	1	1.2	1	0.312	-1	2.005	-1	6.421	0	1812	41	0.8
46461.5	10000	41.1128	92.7184	-963	QK	2.4	0	8.5	2	1.2	1	0.287	-1	1.972	-1	6.875	1	1816	50	0.8
46461.4	10000	41.1128	92.7176	-961	QK	2.6	0	8.6	2	1.2	1	0.300	-1	2.183	0	7.276	1	1806	39	0.8
46461.3	10000	41.1128	92.7168	-961	QK	2.8	1	8.4	2	1.1	1	0.330	0	2.520	1	7.630	2	1778	54	0.8
46461.2	10000	41.1128	92.7159	-960	QK	3.1	1	8.0	1	1.1	0	0.385	0	2.889	1	7.504	1	1744	46	0.8
46461.1	10000	41.1127	92.7151	-959	QK	3.1	1	8.0	1	1.0	-1	0.381	0	3.050	2	8.002	2	1710	37	0.8
46461.0	10000	41.1127	92.7142	-959	QK	3.0	1	8.3	1	1.0	-1	0.363	0	3.085	2	8.502	3	1706	43	0.8
46460.9	10000	41.1127	92.7134	-958	QK	2.7	0	8.1	1	1.0	-1	0.339	0	2.767	1	8.173	2	1697	34	0.8
46460.8	10000	41.1127	92.7126	-956	QK	2.7	0	7.5	0	1.0	-1	0.360	0	2.732	1	7.595	2	1702	53	0.8
46460.7	10000	41.1127	92.7117	-954	QK	2.8	1	7.2	0	1.1	-1	0.388	1	2.644	1	6.807	0	1708	36	0.8
46460.6	10000	41.1127	92.7109	-952	QK	2.8	1	7.9	1	1.1	0	0.356	0	2.602	1	7.305	1	1736	45	0.8
46460.5	10000	41.1127	92.7101	-950	QK	2.7	0	7.9	1	1.1	0	0.345	0	2.497	0	7.233	1	1753	37	0.8
46460.4	10000	41.1127	92.7092	-948	QK	2.8	0	7.8	1	1.1	0	0.353	0	2.485	0	7.033	1	1777	45	0.8
46460.3	10000	41.1126	92.7084	-946	QK	2.9	1	7.7	1	1.1	0	0.382	1	2.640	1	6.915	1	1795	41	0.8
46460.2	10000	41.1126	92.7076	-944	QK	3.4	2	7.6	1	1.1	0	0.445	1	3.146	2	7.072	1	1786	58	0.8
46460.1	10000	41.1126	92.7067	-942	QK	2.8	1	7.7	1	1.1	0	0.491	1	3.668	2	7.476	1	1780	55	0.8
46460.0	10000	41.1126	92.7059	-940	QK	2.8	1	7.8	1	1.1	0	0.494	1	3.698	2	7.493	1	1793	48	0.8
46459.9	10000	41.1126	92.7050	-938	QK	2.6	1	7.5	1	1.1	0	0.479	1	3.380	2	7.063	1	1772	46	0.9
46459.8	10000	41.1126	92.7042	-935	QK	3.3	2	7.8	1	1.1	0	0.427	1	3.152	2	7.375	1	1761	39	0.9
46459.7	10000	41.1126	92.7034	-932	QK	3.3	2	7.9	1	1.1	0	0.417	1	3.186	2	7.632	2	1763	48	0.9
46459.6	10000	41.1125	92.7025	-928	QK	3.4	2	7.8	1	1.1	0	0.428	1	3.205	2	7.482	1	1742	55	0.9
46459.5	10000	41.1125	92.7017	-925	QK	3.1	2	8.0	1	1.1	0	0.384	1	2.832	2	7.368	1	1754	45	0.9
46459.4	10000	41.1125	92.7009	-922	QK	2.7	1	8.0	1	1.1	0	0.333	1	2.466	2	7.401	1	1743	58	0.9
46459.3	10000	41.1125	92.7000	-921	QK	2.3	0	8.2	1	1.1	0	0.279	1	1.997	1	7.167	1	1740	46	0.9
46459.2	10000	41.1126	92.6992	-919	QK	2.3	0	8.1	1	1.1	0	0.286	1	1.922	1	6.715	1	1750	37	0.9
46459.1	10000	41.1126	92.6983	-916	QK	2.6	0	8.8	2	1.2	1	0.316	1	2.114	1	6.694	0	1760	44	0.9
46459.0	10000	41.1126	92.6975	-912	QK	2.4	0	8.0	1	1.1	0	0.296	1	1.871	1	6.331	0	1764	57	0.9
46458.9	10000	41.1126	92.6967	-909	QK	2.3	0	7.7	1	1.1	0	0.298	1	1.740	1	5.835	-1	1771	51	0.9
46458.8	10000	41.1126	92.6958	-906	QK	2.4	0	7.7	1	1.1	0	0.331	1	1.831	1	5.540	-1	1769	40	0.9
46458.7	10000	41.1126	92.6950	-903	QK	2.5	0	7.7	1	1.1	0	0.343	1	1.908	1	5.562	-1	1770	45	0.9
46458.6	10000	41.1126	92.6942	-900	QK	2.9	1	7.7	1	1.1	0	0.397	1	2.310	1	5.821	-1	1775	50	0.9
46458.5	10000	41.1127	92.6933	-896	QK	3.1	1	7.6	1	1.1	0	0.425	1	2.604	1	6.133	0	1774	53	0.9
46458.4	10000	41.1127	92.6925	-893	QK	3.4	1	7.7	1	1.1	0	0.442	1	2.764	1	6.257	0	1775	39	0.9
46458.3	10000	41.1127	92.6916	-890	QK	3.4	1	7.7	1	1.1	0	0.491	1	3.102	2	6.312	1	1760	40	0.9
46458.2	10000	41.1127	92.6908	-888	QK	3.1	1	7.7	1	1.1	0	0.461	1	3.311	2	7.177	1	1752	37	0.9
46458.1	10000	41.1127	92.6900	-885	QK	3.4	1	7.7	1	1.1	0	0.393	1	3.102	2	7.898	1	1734	42	0.9
46458.0	10000	41.1127	92.6891	-882	QK	3.2	1	7.7	1	1.1	0	0.413	1	3.243	2	7.857	2	1723	40	0.9
46457.9	10000	41.1127	92.6883	-880	QK	3.1	1	7.7	1	1.1	0	0.406	1	3.280	2	8.086	2	1692	51	0.9
46457.8	10000	41.1127	92.6874	-877	QK	2.9	1	7.6	1	1.0	0	0.379	1	3.071	2	8.094	2	1699	44	0.9
46457.7	10000	41.1127	92.6866	-876	QK	2.6	1	7.5	1	1.0	0	0.356	1	2.555	2	7.168	2	1693	48	0.9
46457.6	10000	41.1127	92.6858	-875	QK	2.4	1	7.2	1	1.0	-1	0.339	0	2.461	2	7.256	1	1691	38	0.9

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46457.5	10000	41.1128	92.6849	-873	QK	2.4	0	7.0	0	1.0	-1	0.342	0	2.411	0	7.053	1	1688	46	0.9
46457.4	10000	41.1128	92.6841	-872	QK	2.4	0	6.9	0	1.0	-1	0.342	0	2.270	0	6.643	0	1702	52	0.9
46457.3	10000	41.1128	92.6832	-872	QK	2.0	-1	7.1	0	1.1	0	0.278	-1	1.803	-1	6.487	0	1730	37	0.9
46457.2	10000	41.1128	92.6824	-871	QK	1.8	-2	7.7	1	1.1	0	0.230	-2	1.540	-2	6.697	0	1767	40	0.9
46457.1	10000	41.1128	92.6816	-871	QK	1.8	-2	7.6	1	1.2	0	0.233	-2	1.514	-2	6.489	0	1768	50	0.9
46457.0	10000	41.1128	92.6807	-871	QK	1.9	-1	7.6	1	1.2	0	0.250	-1	1.643	-1	6.586	0	1787	45	0.9
46456.9	10000	41.1128	92.6799	-872	QK	1.9	-1	7.5	0	1.2	0	0.253	-1	1.633	-1	6.445	0	1789	51	0.9
46456.8	10000	41.1128	92.6790	-872	QK	1.9	-1	7.6	1	1.2	1	0.249	-1	1.551	-2	6.222	0	1798	36	0.9
46456.7	10000	41.1129	92.6782	-873	QK	2.3	0	7.6	1	1.2	1	0.298	-1	1.898	-1	6.370	0	1802	43	0.9
46456.6	10000	41.1129	92.6774	-873	QK	2.4	0	7.4	0	1.2	1	0.330	0	2.093	0	6.340	0	1798	35	0.9
46456.5	10000	41.1129	92.6765	-874	QK	2.8	1	6.8	-1	1.2	0	0.414	1	2.441	0	5.891	-1	1795	36	0.9
46456.4	10000	41.1129	92.6757	-874	QK	2.8	1	7.0	0	1.1	0	0.407	1	2.477	0	6.084	-1	1798	59	0.9
46456.3	10000	41.1129	92.6749	-874	QK	2.8	1	7.2	0	1.2	0	0.386	0	2.383	0	6.177	0	1796	35	0.9
46456.2	10000	41.1129	92.6740	-874	QK	2.8	1	7.5	0	1.2	0	0.370	0	2.390	0	6.454	0	1809	62	0.9
46456.1	10000	41.1129	92.6732	-873	QK	2.6	0	7.7	1	1.1	0	0.343	0	2.311	0	6.746	0	1813	38	0.9
46456.0	10000	41.1129	92.6723	-873	QK	2.5	0	7.9	1	1.2	1	0.312	-1	2.053	0	6.589	0	1825	38	0.9
46455.9	10000	41.1129	92.6715	-872	QK	2.4	0	8.0	1	1.2	1	0.304	-1	2.006	-1	6.600	0	1830	38	0.9
46455.8	10000	41.1130	92.6707	-870	QK	2.1	-1	8.0	1	1.2	1	0.259	-1	1.695	-1	6.552	0	1824	47	0.9
46455.7	10000	41.1130	92.6698	-869	QK	2.3	-1	7.8	1	1.2	1	0.288	-1	1.864	-1	6.465	0	1823	38	0.9
46455.6	10000	41.1130	92.6690	-867	QK	2.3	0	7.8	1	1.2	0	0.293	-1	1.958	-1	6.691	0	1815	50	0.9
46455.5	10000	41.1130	92.6681	-865	QK	2.4	0	7.4	0	1.1	0	0.328	0	2.133	0	6.502	0	1809	41	0.9
46455.4	10000	41.1130	92.6673	-863	QK	2.5	0	7.0	0	1.1	0	0.359	0	2.225	0	6.191	0	1806	54	0.9
46455.3	10000	41.1130	92.6665	-861	QK	2.6	0	7.1	0	1.1	0	0.368	0	2.412	0	6.549	0	1799	54	0.9
46455.2	10000	41.1130	92.6656	-858	QK	2.6	0	6.9	0	1.1	0	0.374	0	2.333	0	6.236	0	1789	49	0.9
46455.1	10000	41.1130	92.6648	-855	QK	2.9	1	7.0	0	1.1	0	0.409	1	2.550	1	6.228	0	1786	48	0.9
46455.0	10000	41.1130	92.6639	-852	QK	2.4	0	7.4	0	1.1	0	0.322	0	2.136	0	6.636	0	1778	39	0.9
46454.9	10000	41.1131	92.6631	-848	QK	2.3	-1	7.5	1	1.1	0	0.300	-1	2.013	-1	6.720	0	1764	45	0.9
46454.8	10000	41.1131	92.6623	-845	QK	2.0	-1	7.9	1	1.1	0	0.259	-1	1.795	-1	6.933	1	1753	49	0.9
46454.7	10000	41.1131	92.6614	-841	QK	2.0	-1	7.9	1	1.1	0	0.252	-1	1.737	-1	6.897	1	1740	39	0.9
46454.6	10000	41.1131	92.6606	-837	QK	1.7	-2	7.6	1	1.1	0	0.228	-2	1.513	-2	6.646	0	1721	50	0.9
46454.5	10000	41.1131	92.6597	-833	QK	1.8	-1	7.7	1	1.1	0	0.237	-2	1.664	-1	7.031	1	1705	42	0.9
46454.4	10000	41.1131	92.6589	-829	QK	1.7	-2	8.0	1	1.1	0	0.214	-2	1.564	-1	7.303	1	1716	45	0.9
46454.3	10000	41.1131	92.6581	-824	QK	2.1	-1	7.6	1	1.1	0	0.272	-1	1.825	-1	6.697	0	1720	59	0.9
46454.2	10000	41.1131	92.6572	-819	QK	2.3	-1	7.4	1	1.2	0	0.304	-1	1.958	-1	6.448	0	1742	36	0.9
46454.1	10000	41.1132	92.6564	-814	QK	2.3	0	7.2	1	1.2	0	0.327	-1	1.991	-1	6.096	-1	1753	39	0.9
46454.0	10000	41.1132	92.6555	-808	QK	2.6	0	7.7	1	1.2	1	0.335	0	2.285	0	6.832	0	1765	50	0.9
46453.9	10000	41.1132	92.6547	-804	QK	2.7	0	7.8	1	1.2	1	0.345	0	2.307	0	6.693	0	1783	55	0.9
46453.8	10000	41.1132	92.6539	-798	QK	2.7	0	7.9	1	1.2	1	0.336	0	2.297	0	6.834	0	1793	41	0.9
46453.7	10000	41.1132	92.6530	-792	QK	2.6	0	7.9	1	1.1	0	0.328	0	2.286	0	6.979	1	1779	45	0.9
46453.6	10000	41.1132	92.6522	-786	QK	2.5	0	7.7	1	1.1	0	0.325	0	2.364	0	7.273	1	1776	45	0.9
46453.5	10000	41.1132	92.6514	-780	QK	2.7	0	7.9	1	1.1	0	0.337	0	2.475	0	7.352	1	1776	50	0.9
46453.4	10000	41.1132	92.6505	-773	QK	2.7	0	7.8	1	1.1	0	0.349	0	2.491	0	7.136	1	1770	43	0.9
46453.3	10000	41.1132	92.6497	-766	QK	2.7	0	7.1	1	1.1	0	0.387	1	2.386	0	6.162	0	1766	39	0.9
46453.2	10000	41.1133	92.6488	-759	QK	3.0	1	7.1	1	1.2	1	0.425	1	2.742	1	6.453	0	1759	57	0.9
46453.1	10000	41.1133	92.6480	-753	QK	2.1	-1	7.1	1	1.2	1	0.437	1	2.657	1	6.073	-1	1776	47	0.9
46453.0	10000	41.1133	92.6471	-748	QK	2.1	-1	7.1	1	1.2	1	0.439	1	2.578	1	5.873	-1	1775	52	0.8
46452.9	10000	41.1133	92.6463	-741	QK	2.2	-1	7.0	1	1.3	1	0.451	1	2.558	1	5.669	-1	1789	50	0.8
46452.8	10000	41.1133	92.6455	-734	QK	2.1	-1	7.4	1	1.3	1	0.434	1	2.402	0	5.534	-1	1788	25	0.8
46452.7	10000	41.1133	92.6446	-727	QK	2.0	-1	7.0	1	1.3	1	0.401	1	2.356	0	5.869	-1	1795	40	0.8
46452.6	10000	41.1133	92.6438	-720	QK	2.0	-1	7.4	1	1.2	1	0.375	0	2.420	0	6.444	0	1789	38	0.8
46452.5	10000	41.1133	92.6429	-713	QK	2.9	1	8.0	1	1.2	1	0.388	1	2.401	0	6.184	0	1794	40	0.8
46452.4	10000	41.1133	92.6421	-706	QK	3.0	1	7.3	0	1.2	0	0.416	1	2.608	1	6.270	0	1769	49	0.8

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46452.3	10000	41.1134	92.6413	-698	QK	3.1	1	7.1	0	1.1	0	0.439	1	2.836	1	6.461	0	1739	46	0.8
46452.2	10000	41.1134	92.6404	-691	QK	3.0	1	7.1	0	1.0	-1	0.424	1	2.898	1	6.839	1	1690	45	0.8
46452.1	10000	41.1134	92.6396	-683	QK	3.0	1	7.3	0	1.0	-1	0.414	1	3.019	2	7.297	1	1651	49	0.8
46452.0	10000	41.1134	92.6387	-673	QK	3.0	1	7.3	0	1.0	-1	0.408	1	3.060	2	7.495	1	1637	45	0.8
46451.9	10000	41.1134	92.6379	-658	QK	2.7	0	7.1	0	1.0	-1	0.381	0	2.684	1	7.052	1	1621	46	0.8
46451.8	10000	41.1134	92.6371	-649	QK	2.6	0	7.4	0	1.0	-1	0.352	0	2.517	1	7.146	1	1622	43	0.8
46451.7	10000	41.1134	92.6362	-652	QK	2.3	0	7.5	0	1.0	-1	0.304	-1	2.215	0	7.288	1	1610	46	0.8
46451.6	10000	41.1134	92.6354	-648	QK	2.1	-1	7.8	1	1.1	0	0.267	-1	1.935	-1	7.241	1	1635	38	0.8
46451.5	10000	41.1134	92.6346	-641	QK	1.9	-1	7.7	1	1.1	0	0.242	-2	1.683	-1	6.952	1	1645	46	0.8
46451.4	10000	41.1134	92.6337	-635	QK	2.0	-1	7.5	1	1.1	0	0.270	-1	1.819	-1	6.736	0	1655	53	0.8
46451.3	10000	41.1135	92.6329	-628	QK	2.2	-1	7.4	1	1.1	0	0.299	-1	2.001	-1	6.687	0	1647	36	0.8
46451.2	10000	41.1135	92.6320	-622	QK	2.5	0	7.4	1	1.1	0	0.333	0	2.243	0	6.735	0	1657	33	0.8
46451.1	10000	41.1135	92.6312	-616	QK	2.3	0	7.1	1	1.1	0	0.320	0	2.065	0	6.448	0	1637	47	0.8
46451.0	10000	41.1135	92.6304	-611	QK	2.3	0	7.4	1	1.1	0	0.318	0	2.080	0	6.542	0	1634	36	0.8
46450.9	10000	41.1135	92.6295	-606	QK	2.5	0	7.3	1	1.1	0	0.350	0	2.313	0	6.610	0	1629	46	0.8
46450.8	10000	41.1135	92.6287	-602	QK	2.6	0	7.6	1	1.1	0	0.342	0	2.430	0	7.103	1	1623	47	0.8
46450.7	10000	41.1135	92.6278	-597	QK	2.4	0	7.7	1	1.1	0	0.312	-1	2.169	0	6.952	1	1613	25	0.8
46450.6	10000	41.1135	92.6270	-593	QK	2.3	0	7.7	1	1.1	0	0.304	-1	2.109	0	6.941	1	1601	36	0.8
46450.5	10000	41.1135	92.6262	-589	QK	2.3	0	7.6	1	1.1	0	0.307	-1	2.168	0	7.059	1	1587	50	0.8
46450.4	10000	41.1136	92.6253	-586	QK	2.5	0	7.5	1	1.0	-1	0.336	0	2.414	0	7.195	1	1569	48	0.8
46450.3	10000	41.1136	92.6245	-583	QK	2.5	0	7.5	1	1.0	-1	0.330	0	2.406	0	7.280	1	1576	48	0.8
46450.2	10000	41.1136	92.6236	-580	QK	2.5	0	7.4	1	1.0	-1	0.333	0	2.404	0	7.217	1	1580	44	0.8
46450.1	10000	41.1136	92.6228	-577	QK	2.6	0	7.3	1	1.0	-1	0.354	0	2.455	0	6.925	1	1590	39	0.8
46450.0	10000	41.1136	92.6220	-574	QK	2.5	0	7.1	1	1.0	-1	0.357	0	2.504	0	7.020	1	1595	51	0.8
46449.9	10000	41.1136	92.6211	-571	QK	2.2	-1	6.9	1	1.0	-1	0.320	0	2.128	0	6.655	1	1603	52	0.8
46449.8	10000	41.1136	92.6203	-569	QK	2.0	-1	7.0	1	1.0	-1	0.293	-1	1.955	-1	6.682	0	1608	54	0.8
46449.7	10000	41.1136	92.6194	-566	QK	1.9	-1	7.4	1	1.1	-1	0.254	-1	1.775	-1	7.003	1	1619	39	0.7
46449.6	10000	41.1137	92.6186	-564	QK	2.0	-1	7.3	1	1.1	-1	0.269	-1	1.833	-1	6.808	1	1616	50	0.7
46449.5	10000	41.1137	92.6178	-562	QK	2.1	-1	6.9	1	1.1	-1	0.304	-1	1.912	-1	6.290	1	1603	44	0.7
46449.4	10000	41.1137	92.6169	-560	QK	2.1	-1	6.9	1	1.1	-1	0.306	-1	1.957	-1	6.397	1	1587	52	0.7
46449.3	10000	41.1137	92.6161	-557	QK	2.2	0	7.1	1	1.1	0	0.310	0	2.082	0	6.725	1	1581	48	0.7
46449.2	10000	41.1137	92.6152	-553	QK	2.5	0	7.3	1	1.0	0	0.336	0	2.430	0	7.223	1	1581	47	0.7
46449.1	10000	41.1137	92.6144	-552	QK	2.6	0	7.5	1	1.0	0	0.342	0	2.537	0	7.411	1	1580	45	0.7
46449.0	10000	41.1137	92.6136	-549	QK	2.6	0	7.3	1	1.0	0	0.356	0	2.588	0	7.266	1	1574	41	0.7
46448.9	10000	41.1137	92.6127	-546	QK	2.8	0	7.3	1	1.0	0	0.382	0	2.870	0	7.519	1	1584	52	0.7
46448.8	10000	41.1137	92.6119	-543	QK	2.8	0	7.6	1	0.9	0	0.359	0	2.912	0	8.114	2	1587	49	0.7
46448.7	10000	41.1137	92.6111	-540	QK	2.8	0	7.5	1	0.9	-1	0.387	0	2.992	0	7.737	2	1598	38	0.7
46448.6	10000	41.1138	92.6102	-537	QK	2.8	0	6.7	1	1.0	-2	0.451	0	3.156	0	7.000	1	1617	45	0.7
46448.5	10000	41.1138	92.6094	-534	QK	2.7	0	6.4	1	1.0	-1	0.489	0	3.175	0	6.497	1	1619	45	0.7
46448.4	10000	41.1138	92.6085	-531	QK	2.7	0	6.1	1	1.0	-1	0.525	0	3.331	0	6.343	1	1611	50	0.7
46448.3	10000	41.1138	92.6077	-528	QK	2.7	0	6.2	1	1.0	-1	0.558	0	3.495	0	6.259	1	1640	48	0.7
46448.2	10000	41.1138	92.6069	-526	QK	2.7	0	6.3	1	1.0	-1	0.556	0	3.419	0	6.150	1	1652	44	0.7
46448.1	10000	41.1138	92.6060	-524	QK	2.7	0	6.6	1	1.0	-1	0.511	0	3.273	0	6.401	1	1660	39	0.7
46448.0	10000	41.1138	92.6052	-521	QK	2.7	0	6.9	1	1.1	-1	0.488	0	3.122	0	6.396	1	1687	50	0.7
46447.9	10000	41.1138	92.6043	-519	QK	2.7	0	7.2	1	1.1	-1	0.432	0	2.888	0	6.690	1	1690	37	0.7
46447.8	10000	41.1139	92.6035	-517	QK	2.7	0	7.4	1	1.1	0	0.412	0	2.967	0	7.195	1	1696	51	0.7
46447.7	10000	41.1139	92.6027	-515	QK	2.7	0	7.7	1	1.1	0	0.381	0	2.661	0	6.988	1	1730	34	0.7
46447.6	10000	41.1139	92.6018	-513	QK	2.9	0	7.7	1	1.1	0	0.378	0	2.600	0	6.883	1	1728	47	0.7
46447.5	10000	41.1139	92.6010	-511	QK	2.9	0	7.5	1	1.1	0	0.340	0	2.224	0	6.550	1	1734	34	0.7
46447.4	10000	41.1139	92.6001	-510	QK	2.7	0	7.3	1	1.2	0	0.378	0	2.361	0	6.237	1	1751	49	0.7
46447.3	10000	41.1139	92.5993	-508	QK	2.8	0	7.2	1	1.2	0	0.382	0	2.369	0	6.207	1	1756	47	0.7
46447.2	10000	41.1139	92.5985	-507	QK	2.7	0	7.5	1	1.2	0	0.365	0	2.327	0	6.380	0	1759	39	0.7

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46447.1	10000	41.1139	92.5976	-505	QK	2.8	0	7.4	0	1.2	0	0.374	0	2.357	0	6.300	0	1772	40	0.7
46447.0	10000	41.1139	92.5968	-504	QK	2.9	0	7.5	0	1.1	0	0.385	0	2.599	0	6.747	0	1767	50	0.7
46446.9	10000	41.1139	92.5959	-502	QK	2.9	1	7.5	0	1.1	-1	0.384	0	2.728	1	7.108	1	1762	52	0.7
46446.8	10000	41.1140	92.5951	-501	QK	2.9	1	7.5	0	1.0	-1	0.385	0	2.814	1	7.319	1	1738	45	0.7
46446.7	10000	41.1140	92.5943	-500	QK	2.8	1	7.4	0	1.1	0	0.373	0	2.573	1	6.890	1	1719	50	0.6
46446.6	10000	41.1140	92.5934	-499	QK	2.5	0	7.3	0	1.1	0	0.339	0	2.267	0	6.683	0	1694	57	0.6
46446.5	10000	41.1140	92.5926	-497	QK	2.5	0	6.9	0	1.2	0	0.367	0	2.199	0	5.999	-1	1671	46	0.6
46446.4	10000	41.1140	92.5918	-496	QK	2.3	0	7.1	0	1.1	0	0.332	0	2.048	0	6.161	0	1632	38	0.6
46446.3	10000	41.1140	92.5909	-495	QK	2.2	-1	7.0	0	1.2	0	0.316	0	1.889	-1	5.977	-1	1606	38	0.6
46446.2	10000	41.1140	92.5901	-494	QK	2.0	-1	6.8	-1	1.2	1	0.286	-1	1.638	-1	5.721	-1	1576	43	0.6
46446.1	10000	41.1140	92.5892	-493	QK	2.2	-1	6.9	0	1.2	0	0.324	0	1.931	-1	5.965	-1	1578	40	0.6
46446.0	10000	41.1140	92.5884	-492	QK	2.3	0	7.0	0	1.1	0	0.331	0	2.074	0	6.276	0	1593	51	0.6
46445.9	10000	41.1140	92.5876	-491	QK	2.7	0	6.9	0	1.1	0	0.383	0	2.331	0	6.079	-1	1604	51	0.6
46445.8	10000	41.1140	92.5868	-490	QK	2.7	0	6.9	0	1.1	0	0.399	1	2.489	0	6.240	0	1625	41	0.6
46445.7	10000	41.1140	92.5860	-489	QK	2.8	1	7.2	0	1.1	0	0.395	1	2.488	0	6.300	0	1644	41	0.6
46445.6	10000	41.1140	92.5852	-487	QK	3.1	1	7.0	0	1.1	0	0.441	1	2.769	1	6.283	0	1661	37	0.6
46445.5	10000	41.1140	92.5844	-486	QK	3.3	2	7.2	0	1.1	0	0.454	1	2.966	1	6.534	0	1676	53	0.6
46445.4	10000	41.1140	92.5836	-486	QK	2.9	1	7.2	0	1.1	0	0.406	1	2.590	1	6.379	0	1662	58	0.6
46445.3	10000	41.1140	92.5828	-485	QK	2.7	0	7.2	0	1.1	0	0.380	0	2.403	0	6.320	0	1626	52	0.6
46445.2	10000	41.1140	92.5820	-484	QK	2.7	0	7.1	0	1.0	-1	0.374	0	2.552	1	6.814	0	1619	44	0.6
46445.1	10000	41.1140	92.5812	-483	QK	2.6	0	7.2	0	1.0	-1	0.357	0	2.475	0	6.936	1	1605	41	0.6
46445.0	10000	41.1140	92.5804	-483	QK	2.5	0	7.0	0	1.1	0	0.351	0	2.276	0	6.481	0	1597	36	0.6
46444.9	10000	41.1140	92.5796	-482	QK	2.3	0	7.0	0	1.1	0	0.331	0	2.131	0	6.442	0	1564	41	0.6
46444.8	10000	41.1140	92.5788	-482	QK	2.2	-1	6.5	-1	1.0	-1	0.345	0	2.178	0	6.320	0	1500	34	0.6
46444.7	10000	41.1139	92.5780	-481	QK	2.3	0	5.7	-2	0.9	-2	0.406	1	2.478	0	6.100	-1	1409	38	0.6
46444.6	10000	41.1139	92.5772	-480	QK	2.4	0	5.1	-3	0.9	-2	0.476	2	2.764	1	5.806	-1	1322	39	0.6
46444.5	10000	41.1139	92.5764	-479	QAL	2.2	-1	4.9	-2	0.9	-2	0.441	2	2.439	1	5.536	-1	1241	46	0.6
46444.4	10000	41.1139	92.5756	-478	QAL	2.0	-1	5.0	-2	0.9	-2	0.404	1	2.317	1	5.732	-1	1209	31	0.6
46444.3	10000	41.1139	92.5748	-478	QAL	1.9	-1	4.4	-2	0.9	-2	0.426	2	2.190	1	5.135	-1	1196	37	0.6
46444.2	10000	41.1139	92.5740	-477	QAL	1.9	-1	4.5	-2	0.9	-2	0.414	1	2.079	1	5.021	-1	1195	44	0.6
46444.1	10000	41.1139	92.5732	-476	QAL	1.8	-1	4.6	-2	0.9	-2	0.385	1	1.886	-1	4.898	-2	1244	38	0.6
46444.0	10000	41.1139	92.5724	-476	QAL	1.8	-1	5.2	-1	1.0	-1	0.348	1	1.787	-1	5.141	-1	1314	46	0.6
46443.9	10000	41.1139	92.5716	-476	QAL	1.8	-1	5.5	-1	1.1	-1	0.333	1	1.713	-1	5.147	-1	1375	40	0.6
46443.8	10000	41.1139	92.5708	-475	QAL	1.9	-1	5.6	-1	1.0	-1	0.336	1	1.798	-1	5.356	-1	1389	44	0.6
46443.7	10000	41.1139	92.5700	-475	QAL	1.8	-1	5.3	-1	0.9	-1	0.334	1	1.871	-1	5.608	-1	1341	42	0.6
46443.6	10000	41.1139	92.5692	-475	QAL	1.8	-1	5.1	-1	0.9	-1	0.349	1	2.046	-1	5.862	0	1267	50	0.6
46443.5	10000	41.1139	92.5684	-475	QAL	1.7	-1	4.7	-2	0.8	-1	0.369	1	2.189	0	5.937	0	1192	38	0.6
46443.4	10000	41.1138	92.5676	-476	QAL	1.7	-1	4.4	-2	0.7	-2	0.371	1	2.355	0	6.339	0	1098	48	0.6
46443.3	10000	41.1138	92.5668	-476	QAL	1.6	-1	3.9	-2	0.6	-2	0.417	1	2.566	0	6.146	0	1037	39	0.6
46443.2	10000	41.1138	92.5660	-476	QAL	1.5	-2	3.8	-2	0.7	-2	0.401	1	2.397	0	5.982	0	1015	27	0.6
46443.1	10000	41.1138	92.5652	-476	QAL	1.5	-2	3.9	-2	0.7	-2	0.374	1	2.162	0	5.781	0	1029	36	0.6
46443.0	10000	41.1138	92.5644	-477	QAL	1.5	-2	4.1	-2	0.8	-2	0.373	1	1.897	-1	5.088	-1	1075	49	0.6
46442.9	10000	41.1138	92.5636	-476	QAL	1.6	-2	4.5	-2	0.8	-2	0.360	1	1.937	-1	5.387	-1	1132	41	0.6
46442.8	10000	41.1138	92.5628	-477	QAL	1.6	-2	4.4	-2	0.8	-2	0.365	1	1.713	-1	5.608	-1	1192	40	0.6
46442.7	10000	41.1138	92.5620	-477	QAL	1.6	-2	4.4	-2	0.8	-2	0.306	1	1.661	-1	5.434	-1	1263	40	0.6
46442.6	10000	41.1138	92.5612	-478	QAL	1.6	-2	4.3	-2	0.8	-2	0.276	1	1.581	-1	5.732	-1	1294	43	0.6
46442.5	10000	41.1138	92.5604	-479	QAL	1.7	-1	4.3	-2	0.8	-2	0.290	1	1.720	-1	5.930	0	1278	42	0.6
46442.4	10000	41.1138	92.5596	-480	QAL	1.6	-1	4.3	-2	0.8	-2	0.304	1	1.764	-1	5.810	0	1228	38	0.6
46442.3	10000	41.1138	92.5588	-480	QAL	1.8	-1	4.3	-2	0.8	-2	0.338	1	2.099	0	6.210	0	1196	45	0.6
46442.2	10000	41.1137	92.5580	-481	QAL	1.8	-1	4.3	-2	0.8	-2	0.350	1	2.150	0	6.142	0	1178	48	0.6
46442.1	10000	41.1137	92.5572	-482	QAL	1.8	-1	4.3	-2	0.8	-2	0.471	2	2.497	0	6.307	-1	1188	38	0.6
46442.0	10000	41.1137	92.5564	-483	QAL	2.0	-1	4.3	-2	0.8	-2	0.468	2	2.491	0	5.319	-1	1193	57	0.6

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46441.9	10000	41.1137	92.5556	-484	QAL	2.1	-1	3.9	-3	0.8	-2	0.547	2	2.607	1	4.769	-2	1225	45	0.6
46441.8	10000	41.1137	92.5548	-485	QAL	2.2	-1	4.3	-2	0.9	-2	0.504	1	2.539	0	5.034	-1	1272	42	0.6
46441.7	10000	41.1137	92.5540	-487	QAL	2.3	0	4.6	-2	0.9	-1	0.505	1	2.571	0	5.092	-1	1347	33	0.6
46441.6	10000	41.1137	92.5532	-489	QAL	2.4	0	4.7	-2	1.0	-1	0.522	2	2.526	0	4.840	-2	1407	35	0.6
46441.5	10000	41.1137	92.5524	-491	QAL	2.5	0	5.2	-1	1.0	0	0.492	1	2.468	0	5.013	-1	1458	42	0.6
46441.4	10000	41.1137	92.5516	-492	QAL	2.4	0	5.7	-1	1.0	0	0.415	0	2.341	0	5.637	-1	1487	46	0.6
46441.3	10000	41.1137	92.5508	-494	QAL	2.4	0	5.9	-1	1.0	0	0.410	0	2.329	0	5.675	-1	1509	29	0.6
46441.2	10000	41.1137	92.5500	-495	QAL	2.3	0	6.1	0	1.1	0	0.371	0	2.009	-1	5.414	-1	1538	36	0.6
46441.1	10000	41.1137	92.5492	-496	QAL	2.3	0	6.2	0	1.1	0	0.370	0	2.017	-1	5.453	-1	1563	42	0.6
46441.0	10000	41.1136	92.5484	-498	QAL	2.3	0	6.3	0	1.2	1	0.366	0	1.982	-1	5.421	-1	1573	43	0.6
46440.9	10000	41.1136	92.5476	-500	QAL	2.4	0	6.5	0	1.1	0	0.361	0	2.086	0	5.783	0	1578	41	0.6
46440.8	10000	41.1136	92.5468	-501	QAL	2.6	0	6.5	0	1.0	0	0.400	0	2.524	0	6.315	0	1583	40	0.6
46440.7	10000	41.1136	92.5460	-501	QAL	2.7	0	6.3	0	1.1	0	0.420	0	2.499	0	5.945	0	1602	48	0.6
46440.6	10000	41.1136	92.5452	-502	QAL	2.8	1	6.5	0	1.1	0	0.432	1	2.591	1	6.002	0	1620	39	0.6
46440.5	10000	41.1136	92.5444	-505	QAL	3.0	1	6.7	0	1.1	0	0.457	1	2.866	1	6.267	0	1637	46	0.6
46440.4	10000	41.1136	92.5436	-508	QAL	3.1	1	6.3	0	1.0	0	0.494	1	2.972	1	6.022	0	1646	31	0.6
46440.3	10000	41.1136	92.5428	-510	QAL	3.4	2	6.5	0	1.1	0	0.517	2	3.193	2	6.178	0	1675	39	0.7
46440.2	10000	41.1136	92.5420	-512	QAL	3.5	2	6.6	0	1.1	0	0.530	2	3.150	2	5.939	0	1687	36	0.7
46440.1	10000	41.1136	92.5412	-513	QAL	3.2	1	6.8	0	1.2	1	0.472	1	2.637	1	5.586	-1	1708	54	0.7
46440.0	10000	41.1136	92.5404	-516	QAL	3.2	1	7.2	1	1.3	1	0.448	1	2.602	1	5.811	0	1717	39	0.7
46439.9	10000	41.1136	92.5396	-518	QAL	3.1	1	7.4	1	1.3	1	0.420	1	2.447	0	5.819	0	1738	47	0.7
46439.8	10000	41.1135	92.5388	-519	QAL	3.1	1	7.6	1	1.3	1	0.413	1	2.476	0	5.995	0	1747	48	0.7
46439.7	10000	41.1135	92.5380	-521	QAL	3.1	1	7.8	1	1.3	1	0.394	1	2.362	0	5.996	0	1764	35	0.7
46439.6	10000	41.1135	92.5372	-523	QAL	2.9	1	7.5	1	1.3	1	0.387	1	2.283	0	5.893	0	1761	45	0.7
46439.5	10000	41.1135	92.5364	-525	QAL	2.7	0	7.2	1	1.3	1	0.370	1	2.119	0	5.722	-1	1773	49	0.7
46439.4	10000	41.1135	92.5356	-527	QAL	2.8	0	7.1	1	1.3	1	0.394	1	2.119	0	5.381	-1	1782	37	0.7
46439.3	10000	41.1135	92.5348	-529	QAL	2.7	0	7.0	1	1.3	1	0.382	1	2.035	0	5.328	-1	1793	46	0.7
46439.2	10000	41.1135	92.5340	-532	QAL	2.6	0	6.9	1	1.3	1	0.373	1	1.913	0	5.131	-1	1792	38	0.7
46439.1	10000	41.1135	92.5332	-534	QAL	2.4	0	7.0	1	1.3	1	0.337	1	1.811	-1	5.371	-1	1788	42	0.7
46439.0	10000	41.1135	92.5324	-536	QAL	2.3	0	7.6	1	1.3	1	0.304	1	1.697	-1	5.578	-1	1806	47	0.7
46438.9	10000	41.1135	92.5316	-538	QAL	2.2	0	7.7	1	1.3	1	0.288	1	1.673	-1	5.805	0	1816	56	0.8
46438.8	10000	41.1135	92.5308	-540	QAL	2.3	0	7.7	1	1.3	1	0.284	1	1.725	-1	6.077	0	1820	46	0.8
46438.7	10000	41.1135	92.5300	-542	QAL	2.3	0	7.8	1	1.3	1	0.269	1	1.759	-1	6.544	0	1809	43	0.8
46438.6	10000	41.1135	92.5293	-544	QK	2.4	0	7.8	1	1.3	1	0.287	1	1.874	-1	6.533	0	1804	47	0.8
46438.5	10000	41.1134	92.5284	-547	QK	2.6	0	8.0	1	1.3	1	0.330	1	2.140	0	6.487	0	1805	39	0.8
46438.4	10000	41.1134	92.5276	-549	QK	2.6	0	7.8	1	1.2	1	0.351	1	2.100	-1	5.990	-1	1813	47	0.8
46438.3	10000	41.1134	92.5269	-551	QK	2.6	0	7.7	1	1.2	1	0.430	1	2.553	-1	5.937	-1	1800	43	0.8
46438.2	10000	41.1134	92.5260	-553	QK	2.6	0	7.7	1	1.2	1	0.464	1	2.575	-1	5.551	-1	1808	40	0.8
46438.1	10000	41.1134	92.5253	-555	QK	2.6	0	7.7	1	1.3	1	0.448	1	2.394	-2	5.340	-2	1817	48	0.8
46438.0	10000	41.1134	92.5244	-558	QK	2.6	0	7.7	1	1.4	1	0.473	1	2.213	-3	4.681	-3	1822	46	0.8
46437.9	10000	41.1134	92.5237	-560	QK	2.6	0	7.6	1	1.4	1	0.431	1	2.018	-3	4.685	-3	1806	54	0.8
46437.8	10000	41.1134	92.5229	-562	QK	2.6	0	7.6	1	1.4	1	0.370	1	1.784	-2	4.817	-2	1792	44	0.8
46437.7	10000	41.1134	92.5220	-564	QK	2.6	0	7.6	1	1.4	1	0.357	1	1.832	-2	5.133	-2	1766	45	0.8
46437.6	10000	41.1134	92.5213	-566	QK	2.6	0	7.6	1	1.4	1	0.334	1	1.709	-2	5.125	-2	1730	60	0.8
46437.5	10000	41.1134	92.5204	-568	QK	2.6	0	7.6	1	1.3	1	0.329	1	1.784	-2	5.425	-2	1696	41	0.8
46437.4	10000	41.1133	92.5197	-571	QK	2.6	0	7.6	1	1.3	1	0.339	1	1.913	-1	5.640	-1	1657	30	0.9
46437.3	10000	41.1133	92.5189	-574	QK	2.6	0	7.7	1	1.3	1	0.307	1	2.125	1	6.930	2	1636	36	0.9
46437.2	10000	41.1133	92.5181	-576	QK	2.6	0	7.6	1	1.3	1	0.328	1	2.481	1	7.571	1	1630	46	0.9
46437.1	10000	41.1133	92.5173	-578	QK	2.6	0	7.6	1	1.3	1	0.342	1	2.444	1	7.151	1	1616	46	0.9
46437.0	10000	41.1133	92.5165	-580	QK	2.5	0	7.6	1	1.3	1	0.350	1	2.464	1	7.047	1	1620	49	0.9
46436.9	10000	41.1133	92.5157	-583	QK	2.5	0	7.6	1	1.3	1	0.351	1	2.405	1	6.860	1	1667	51	0.9
46436.8	10000	41.1133	92.5149	-585	QK	2.4	0	7.1	0	1.2	1	0.335	1	2.328	1	6.945	1	1679	37	0.9

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46436.7	10000	41.1133	92.5141	-587	QK	2.7	0	6.9	0	1.1	0	0.392	1	2.488	0	6.344	0	1711	51	0.9
46436.6	10000	41.1133	92.5133	-589	QK	2.8	1	6.7	-1	1.2	1	0.410	1	2.323	0	5.669	-1	1742	58	0.9
46436.5	10000	41.1133	92.5125	-591	QK	2.8	0	7.1	0	1.3	2	0.390	1	2.117	0	5.432	-1	1766	50	0.9
46436.4	10000	41.1133	92.5117	-593	QK	3.0	1	7.6	1	1.3	1	0.391	1	2.365	0	6.052	-1	1792	48	0.9
46436.3	11000	41.1133	92.5109	-595	QK	3.3	2	7.6	1	1.3	2	0.429	1	2.459	0	5.734	-1	1838	34	0.9
46436.2	11000	41.1133	92.5101	-597	QK	3.1	1	7.9	1	1.3	2	0.388	1	2.281	0	5.881	-1	1838	43	0.9
46436.1	11000	41.1132	92.5093	-599	QK	2.6	0	7.8	1	1.4	2	0.332	0	1.874	-1	5.653	-1	1865	47	0.9
46436.0	11000	41.1132	92.5085	-601	QK	2.2	-1	8.1	1	1.4	2	0.264	-1	1.531	-2	5.791	-1	1886	43	0.9
46435.9	11000	41.1132	92.5077	-603	QK	2.3	0	8.4	2	1.4	2	0.279	-1	1.685	-1	6.045	-1	1892	33	0.9
46435.8	11000	41.1132	92.5069	-604	QK	2.4	0	8.2	1	1.4	2	0.289	-1	1.729	-1	5.975	-1	1901	46	0.9
46435.7	11000	41.1132	92.5061	-606	QK	2.3	0	8.4	2	1.4	2	0.274	-1	1.624	-1	5.924	-1	1907	47	0.9
46435.6	11010	41.1132	92.5053	-608	QK	1.8	-1	8.6	2	1.4	2	0.000	-5	0.000	-5	6.256	0	1885	58	0.9
46435.5	11010	41.1132	92.5045	-610	QK	1.5	-2	8.4	2	1.3	2	0.000	-5	0.000	-5	6.254	0	1875	44	0.9
46435.4	11010	41.1132	92.5037	-612	QK	1.6	-2	8.9	2	1.4	3	0.000	-5	0.000	-5	6.260	0	1879	39	0.9
46425.3	10000	41.1137	92.5031	-589	QK	3.0	1	7.9	1	1.3	1	0.384	0	2.365	0	6.157	0	1922	29	0.9
46425.2	10000	41.1137	92.5022	-591	QK	3.2	1	7.8	1	1.3	1	0.414	1	2.521	1	6.097	-1	1928	63	0.9
46425.1	10000	41.1137	92.5014	-593	QK	3.3	2	7.8	1	1.3	1	0.419	1	2.614	1	6.242	0	1919	35	0.9
46425.0	10000	41.1137	92.5006	-595	QK	3.2	1	7.9	1	1.3	1	0.405	1	2.552	1	6.297	0	1915	49	0.9
46424.9	10000	41.1137	92.4998	-597	QK	3.2	1	7.9	1	1.3	2	0.398	1	2.367	0	5.947	-1	1908	44	0.9
46424.8	10000	41.1137	92.4990	-600	QK	2.8	1	7.8	1	1.3	1	0.364	0	2.111	0	5.800	-1	1895	41	0.9
46424.7	10000	41.1137	92.4982	-602	QK	2.8	1	7.9	1	1.3	1	0.354	0	2.195	0	6.192	0	1851	31	0.9
46424.6	10000	41.1137	92.4974	-604	QK	2.9	1	7.8	1	1.2	1	0.366	0	2.324	0	6.348	0	1817	53	0.9
46424.5	10000	41.1137	92.4966	-606	QK	2.8	1	8.1	1	1.2	0	0.352	0	2.470	0	7.009	1	1797	42	0.9
46424.4	10000	41.1137	92.4957	-608	QK	2.9	1	7.9	1	1.2	0	0.368	0	2.520	1	6.857	1	1781	53	0.9
46424.3	10000	41.1137	92.4949	-611	QK	2.8	1	8.1	1	1.1	0	0.352	0	2.491	0	7.078	1	1770	42	0.9
46424.2	10000	41.1137	92.4941	-613	QK	2.8	1	8.1	1	1.2	1	0.344	0	2.628	1	7.637	2	1754	48	0.9
46424.1	10000	41.1137	92.4933	-615	QK	2.9	1	8.2	1	1.1	0	0.353	0	2.792	1	7.904	2	1757	43	0.9
46424.0	10000	41.1137	92.4925	-618	QK	2.9	1	8.5	1	1.1	0	0.342	0	2.721	1	7.949	2	1776	40	1.0
46423.9	10000	41.1137	92.4917	-620	QK	2.9	1	8.8	1	1.1	0	0.332	0	2.838	1	8.541	3	1788	40	1.0
46423.8	10000	41.1137	92.4909	-623	QK	2.8	1	8.8	1	1.1	0	0.311	-1	2.516	1	8.088	2	1786	45	1.0
46423.7	10000	41.1137	92.4901	-625	QK	2.6	1	8.7	1	1.1	0	0.298	-1	2.364	1	7.928	2	1792	43	1.0
46423.6	10000	41.1137	92.4892	-628	QK	2.6	1	8.3	1	1.1	0	0.317	-1	2.424	1	7.653	2	1794	51	1.0
46423.5	10000	41.1137	92.4884	-630	QK	2.8	1	8.3	1	1.1	0	0.336	-1	2.525	1	7.516	2	1804	39	1.0
46423.4	10000	41.1137	92.4876	-633	QK	3.1	1	8.1	1	1.1	0	0.390	0	2.813	1	7.210	2	1806	44	1.0
46423.3	10000	41.1137	92.4868	-635	QK	3.0	1	7.8	1	1.1	0	0.385	0	2.690	1	6.980	2	1803	42	1.0
46423.2	10000	41.1137	92.4860	-637	QK	3.0	1	7.7	1	1.1	0	0.387	0	2.680	1	6.933	2	1794	42	1.0
46423.1	10000	41.1137	92.4852	-639	QK	2.9	1	7.5	0	1.1	0	0.383	0	2.578	1	6.731	1	1791	37	1.0
46423.0	10000	41.1137	92.4844	-640	QK	2.9	1	7.9	1	1.1	0	0.368	0	2.648	1	7.193	1	1789	43	1.0
46422.9	10000	41.1137	92.4835	-642	QK	2.8	1	8.0	1	1.1	0	0.349	0	2.556	1	7.324	1	1786	34	1.0
46422.8	10000	41.1137	92.4827	-644	QK	2.7	1	7.8	1	1.1	0	0.338	0	2.377	1	7.029	1	1792	51	1.0
46422.7	10000	41.1137	92.4819	-645	QK	2.4	1	8.1	1	1.1	0	0.295	-1	2.143	1	7.254	1	1793	45	1.0
46422.6	10000	41.1137	92.4811	-646	QK	2.7	1	7.9	1	1.1	0	0.339	0	2.365	1	6.971	1	1786	39	1.0
46422.5	10000	41.1137	92.4803	-648	QK	2.6	1	7.8	1	1.1	0	0.332	0	2.242	1	6.747	1	1784	45	1.0
46422.4	10000	41.1137	92.4795	-649	QK	2.7	1	7.7	1	1.1	0	0.343	0	2.286	1	6.673	1	1793	58	1.0
46422.3	10000	41.1137	92.4787	-650	QK	2.7	1	7.2	1	1.2	0	0.372	0	2.288	1	6.147	1	1790	34	1.0
46422.2	10000	41.1137	92.4778	-651	QK	3.0	1	7.7	1	1.2	0	0.438	0	2.463	1	5.626	0	1785	32	1.0
46422.1	10000	41.1137	92.4770	-652	QK	3.0	1	7.2	1	1.2	0	0.451	0	2.612	1	5.787	0	1789	38	1.0
46422.0	10000	41.1137	92.4762	-653	QK	3.0	1	7.5	1	1.1	0	0.465	0	2.856	1	6.145	0	1790	42	1.0
46421.9	10000	41.1137	92.4754	-654	QK	3.1	1	7.4	1	1.1	0	0.397	-1	2.655	1	6.681	0	1796	44	1.0
46421.8	10000	41.1137	92.4746	-655	QK	3.0	1	7.4	1	1.1	0	0.417	0	2.750	1	6.600	0	1804	45	1.1
46421.7	10000	41.1137	92.4738	-655	QK	3.1	1	7.6	1	1.1	0	0.409	0	2.638	1	6.451	0	1793	47	1.1
46421.6	10000	41.1137	92.4730	-656	QK							0.406		2.748	1	6.768	0	1805	45	1.1

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46421.5	10000	41.1137	92.4722	-657	QK	3.1	1	7.9	1	1.1	-1	0.385	0	2.893	1	7.510	1	1814	56	1.1
46421.4	10000	41.1137	92.4713	-658	QK	3.3	2	7.8	1	1.1	-1	0.419	1	3.101	2	7.402	1	1818	31	1.1
46421.3	10000	41.1137	92.4705	-659	QK	3.3	2	7.5	0	1.1	0	0.435	1	2.997	2	6.884	1	1824	42	1.1
46421.2	10000	41.1137	92.4697	-660	QK	3.5	2	7.6	1	1.1	0	0.454	1	3.074	2	6.774	0	1826	27	1.1
46421.1	10000	41.1137	92.4689	-662	QK	3.3	2	7.7	1	1.1	0	0.432	1	3.105	2	7.193	1	1814	36	1.1
46421.0	10000	41.1137	92.4681	-664	QK	3.4	2	7.7	1	1.1	-1	0.439	1	3.211	2	7.313	1	1800	50	1.1
46420.9	10000	41.1137	92.4673	-666	QK	3.1	1	7.6	1	1.1	0	0.409	1	2.896	1	7.089	1	1766	48	1.1
46420.8	10000	41.1137	92.4665	-668	QK	3.2	1	7.5	0	1.0	-1	0.429	1	3.138	2	7.306	1	1738	49	1.1
46420.7	10000	41.1137	92.4657	-672	QK	3.0	1	7.5	0	1.0	-1	0.393	1	2.904	1	7.392	1	1693	47	1.1
46420.6	10000	41.1137	92.4648	-675	QK	2.8	1	7.5	0	1.0	-1	0.379	0	2.859	1	7.550	2	1643	49	1.1
46420.5	10000	41.1137	92.4640	-680	QK	2.5	0	7.4	0	1.0	-1	0.339	0	2.571	1	7.588	2	1609	43	1.1
46420.4	10000	41.1137	92.4632	-685	QK	2.5	0	7.0	0	1.0	-1	0.358	0	2.528	1	7.070	1	1587	51	1.1
46420.3	10000	41.1137	92.4624	-690	QK	2.5	0	7.0	0	1.0	-1	0.364	0	2.618	1	7.185	1	1570	39	1.1
46420.2	10000	41.1137	92.4616	-695	QK	2.6	0	7.0	0	1.0	-1	0.368	0	2.702	1	7.335	1	1570	46	1.1
46420.1	10000	41.1137	92.4608	-702	QK	2.3	-1	7.0	0	1.0	-1	0.322	0	2.191	0	6.797	0	1580	29	1.1
46420.0	10000	41.1137	92.4600	-708	QK	2.2	-1	7.3	0	1.0	-1	0.304	-1	2.136	0	7.021	1	1602	47	1.1
46419.9	10000	41.1137	92.4591	-715	QK	2.2	-1	7.1	0	1.0	-1	0.315	-1	2.143	0	6.807	0	1633	45	1.1
46419.8	10000	41.1137	92.4583	-721	QK	2.5	0	6.8	-1	1.1	0	0.360	0	2.258	0	6.279	0	1652	41	1.1
46419.7	10000	41.1137	92.4575	-729	QK	2.5	0	7.0	0	1.1	0	0.353	0	2.161	0	6.119	-1	1680	44	1.1
46419.6	10000	41.1137	92.4567	-736	QK	2.2	-1	7.1	0	1.1	0	0.312	-1	1.935	-1	6.196	0	1693	39	1.1
46419.5	10000	41.1137	92.4559	-744	QK	2.2	-1	7.2	0	1.1	0	0.302	-1	1.924	-1	6.365	0	1700	47	1.1
46419.4	10000	41.1137	92.4551	-751	QK	2.2	-1	7.3	0	1.1	0	0.303	-1	1.957	-1	6.457	0	1705	46	1.1
46419.3	10000	41.1137	92.4543	-758	QK	2.4	0	6.9	0	1.1	0	0.345	0	2.187	0	6.331	0	1706	47	1.1
46419.2	10000	41.1137	92.4534	-765	QK	2.4	0	7.1	0	1.1	0	0.339	0	2.145	0	6.337	0	1700	53	1.1
46419.1	10000	41.1137	92.4526	-772	QK	2.2	-1	7.1	0	1.1	0	0.313	-1	1.986	-1	6.345	0	1698	45	1.1
46419.0	10000	41.1137	92.4518	-778	QK	2.1	-1	7.3	0	1.1	0	0.288	-1	1.911	-1	6.630	0	1690	55	1.1
46418.9	10000	41.1137	92.4510	-784	QK	2.3	0	7.0	0	1.1	0	0.327	0	2.088	0	6.393	0	1670	34	1.1
46418.8	10000	41.1137	92.4502	-790	QK	2.2	-1	6.8	-1	1.1	0	0.322	0	1.976	-1	6.135	0	1630	37	1.1
46418.7	10000	41.1137	92.4494	-796	QK	2.1	-1	6.4	-1	1.1	0	0.327	0	1.954	-1	5.973	-1	1561	49	1.1
46418.6	10000	41.1137	92.4486	-801	QK	1.8	-2	5.8	-2	1.1	0	0.307	-1	1.709	-1	5.559	-1	1477	46	1.1
46418.5	10000	41.1137	92.4478	-806	QK	1.5	-2	5.5	-2	1.0	0	0.292	-1	1.531	-2	5.244	-2	1400	49	1.1
46418.4	10000	41.1137	92.4469	-812	QK	1.7	-2	5.4	-2	1.0	0	0.355	-1	1.813	-1	5.105	-2	1326	46	1.1
46418.3	10000	41.1137	92.4461	-816	QK	1.7	-2	5.3	-2	1.0	0	0.420	-1	1.931	-1	4.602	-3	1240	51	1.1
46418.2	10000	41.1137	92.4453	-821	QK	1.6	-2	5.3	-2	1.0	0	0.439	-1	1.886	-1	4.298	-3	1183	41	1.1
46418.1	10000	41.1136	92.4445	-826	QK	1.7	-2	5.3	-2	1.0	0	0.509	-1	2.032	-1	3.994	-4	1146	45	1.1
46418.0	10000	41.1136	92.4437	-830	QK	1.6	-2	5.3	-2	1.0	0	0.501	-1	1.952	-1	3.898	-4	1133	48	1.1
46417.9	10000	41.1137	92.4429	-834	QK	1.7	-2	5.5	-2	1.0	0	0.520	-1	2.075	-1	3.993	-4	1158	45	1.1
46417.8	10000	41.1136	92.4421	-838	QK	2.0	-1	5.7	-1	1.0	0	0.528	-1	2.402	0	4.546	-3	1198	39	1.1
46417.7	10000	41.1136	92.4413	-842	QK	2.0	-1	6.1	-1	1.0	0	0.482	-1	2.347	0	4.867	-2	1273	42	1.1
46417.6	10000	41.1136	92.4404	-846	QK	2.1	-1	6.6	-1	1.0	0	0.467	-1	2.506	0	5.369	-2	1349	42	1.1
46417.5	10000	41.1136	92.4396	-850	QK	2.2	-1	6.9	-1	1.1	0	0.423	-1	2.281	0	5.387	-2	1438	51	1.1
46417.4	10000	41.1136	92.4387	-854	QK	2.1	-1	6.9	-1	1.1	0	0.344	-1	2.103	0	6.116	-1	1542	51	1.1
46417.3	10000	41.1136	92.4379	-857	QK	2.5	0	7.3	0	1.1	0	0.358	-1	2.292	0	6.400	0	1631	65	1.1
46417.2	10000	41.1136	92.4371	-861	QK	2.4	0	7.5	0	1.1	0	0.334	-1	2.140	0	6.405	0	1698	44	1.1
46417.1	10000	41.1135	92.4362	-865	QK	2.5	0	7.5	0	1.1	0	0.338	-1	2.069	0	6.126	-1	1738	42	1.1
46417.0	10000	41.1135	92.4354	-868	QK	2.4	0	7.7	0	1.1	0	0.321	-1	1.984	-1	6.186	0	1755	52	1.1
46416.9	10000	41.1135	92.4346	-871	QK	2.4	0	7.7	0	1.1	0	0.312	-1	1.921	-1	6.162	0	1758	49	1.1
46416.8	10000	41.1135	92.4337	-873	QK	2.3	-1	7.7	0	1.1	0	0.296	-1	1.995	-1	6.739	0	1750	47	1.1
46416.7	10000	41.1135	92.4329	-875	QK	2.6	0	7.4	0	1.1	0	0.354	0	2.353	0	6.639	0	1744	44	1.1
46416.6	10000	41.1134	92.4321	-878	QK	2.7	0	7.3	0	1.1	0	0.348	0	2.333	0	6.703	0	1747	53	1.1
46416.5	10000	41.1134	92.4312	-880	QK	2.7	0	7.1	0	1.1	0	0.381	0	2.574	0	6.760	0	1736	49	1.1
46416.4	10000	41.1134	92.4304	-882	QK	2.6	0	7.4	0	1.0	-1	0.351	0	2.552	1	7.265	1	1752	48	1.1

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46416.3	10000	41.1134	92.4295	-884	QK	2.7	0	7.9	1	1.0	-1	0.345	0	2.731	1	7.916	2	1746	44	1.1
46416.2	10000	41.1134	92.4287	-886	QK	2.7	0	7.9	1	1.0	-1	0.344	0	2.670	1	7.755	2	1761	46	1.1
46416.1	10000	41.1134	92.4279	-887	QK	3.0	1	8.0	1	1.0	-1	0.377	0	2.916	1	7.725	2	1773	57	1.1
46416.0	10000	41.1133	92.4270	-888	QK	2.5	0	8.0	1	1.0	-1	0.317	0	2.513	1	7.915	2	1776	46	1.1
46415.9	10000	41.1133	92.4262	-888	QK	2.6	0	8.3	1	1.0	-1	0.315	0	2.608	1	8.279	3	1776	46	1.1
46415.8	10000	41.1133	92.4254	-889	QK	2.4	0	8.7	2	1.0	-1	0.274	-1	2.412	0	8.800	3	1767	49	1.1
46415.7	10000	41.1133	92.4245	-889	QK	2.2	-1	8.8	2	1.0	-1	0.251	-1	2.151	0	8.570	3	1771	51	1.1
46415.6	10000	41.1133	92.4237	-888	QK	2.0	-1	8.2	1	1.0	-1	0.249	-1	1.949	-1	7.826	2	1764	53	1.1
46415.5	10000	41.1133	92.4228	-888	QK	2.3	-1	8.3	1	1.1	-1	0.273	-1	2.157	0	7.896	2	1773	49	1.1
46415.4	10000	41.1132	92.4220	-887	QK	2.0	-1	8.5	2	1.0	-1	0.235	-2	1.912	-1	8.137	2	1763	53	1.1
46415.3	10000	41.1132	92.4212	-886	QK	2.3	0	8.4	2	1.1	-1	0.280	-1	2.220	0	7.934	2	1762	61	1.1
46415.2	10000	41.1132	92.4203	-884	QK	2.1	-1	8.1	1	1.1	0	0.257	-1	1.870	-1	7.283	1	1758	45	1.1
46415.1	10000	41.1132	92.4195	-882	QK	2.4	0	8.1	1	1.1	0	0.295	-1	2.132	0	7.217	1	1787	39	1.1
46415.0	10000	41.1132	92.4187	-881	QK	2.8	1	7.6	1	1.1	0	0.369	0	2.621	1	7.105	1	1779	41	1.1
46414.9	10000	41.1131	92.4178	-878	QK	3.0	1	7.7	1	1.1	0	0.386	0	2.794	1	7.231	1	1796	42	1.1
46414.8	10000	41.1131	92.4170	-876	QK	2.7	0	7.8	1	1.1	0	0.346	0	2.471	0	7.138	1	1798	45	1.1
46414.7	10000	41.1131	92.4162	-873	QK	2.9	1	8.0	1	1.2	0	0.357	0	2.443	0	6.848	1	1812	35	1.1
46414.6	10000	41.1131	92.4153	-870	QK	2.7	0	7.7	1	1.2	1	0.353	0	2.258	0	6.387	0	1807	45	1.1
46414.5	10000	41.1131	92.4145	-867	QK	2.9	1	7.5	1	1.2	1	0.391	1	2.452	0	6.268	0	1805	28	1.1
46414.4	10000	41.1131	92.4136	-864	QK	2.7	0	7.6	1	1.2	1	0.351	0	2.136	0	6.077	-1	1789	49	1.1
46414.3	10000	41.1130	92.4128	-861	QK	2.3	0	7.6	1	1.2	1	0.309	-1	1.917	-1	6.209	0	1781	52	1.1
46414.2	10000	41.1130	92.4120	-857	QK	2.4	0	7.5	1	1.2	1	0.320	0	1.999	-1	6.255	0	1772	57	1.1
46414.1	10000	41.1130	92.4111	-853	QK	2.5	0	7.2	1	1.1	0	0.341	0	2.147	0	6.288	0	1742	41	1.1
46414.0	10000	41.1130	92.4103	-848	QK	2.3	-1	6.6	-1	1.1	0	0.342	0	1.995	-1	5.825	-1	1728	52	1.1
46413.9	10000	41.1130	92.4095	-845	QK	2.3	0	6.8	-1	1.2	0	0.343	0	1.999	-1	5.830	-1	1721	46	1.1
46413.8	10000	41.1130	92.4086	-844	QK	2.1	-1	7.1	0	1.2	1	0.304	-1	1.760	-1	5.790	-1	1728	48	1.1
46413.7	10000	41.1129	92.4078	-842	QK	2.1	-1	7.1	0	1.2	1	0.290	-1	1.790	-1	6.165	0	1722	54	1.1
46413.6	10000	41.1129	92.4069	-840	QK	2.2	-1	7.4	0	1.2	1	0.300	-1	1.921	-1	6.402	0	1719	47	1.1
46413.5	10000	41.1129	92.4061	-838	QK	2.3	0	7.5	0	1.2	1	0.308	-1	2.008	-1	6.524	0	1728	39	1.1
46413.4	10000	41.1129	92.4053	-836	QK	2.4	2	7.9	1	1.2	2	0.307	-1	1.950	-1	6.361	0	1755	48	1.1
46413.3	10000	41.1129	92.4044	-835	QK	2.2	1	7.5	1	1.2	2	0.258	-1	1.836	-1	7.127	1	1768	40	1.1
46413.2	10000	41.1128	92.4036	-833	QK	2.1	2	7.7	1	1.2	2	0.244	-1	1.818	-1	7.440	1	1778	42	1.1
46413.1	10000	41.1128	92.4028	-831	QK	2.2	2	7.5	1	1.2	2	0.264	-1	2.009	-1	7.601	2	1778	37	1.1
46413.0	10000	41.1128	92.4019	-830	QK	2.5	2	7.9	1	1.2	2	0.286	-1	2.153	0	7.542	2	1798	59	1.1
46412.9	10000	41.1128	92.4011	-829	QK	2.5	2	8.1	2	1.2	2	0.281	-1	2.142	0	7.613	2	1796	46	1.1
46412.8	10000	41.1128	92.4002	-827	QK	2.1	1	7.8	1	1.1	2	0.226	-2	1.764	-1	7.808	2	1795	49	1.1
46412.7	10000	41.1128	92.3994	-827	QK	2.1	1	8.3	2	1.1	1	0.244	-1	1.927	-1	7.904	2	1786	43	1.1
46412.6	10000	41.1127	92.3986	-826	QK	2.5	1	8.3	2	1.1	1	0.303	-1	2.232	0	7.373	1	1771	39	1.1
46412.5	10000	41.1127	92.3977	-825	QK	2.5	1	8.3	2	1.1	1	0.309	-1	2.229	0	7.224	1	1770	40	1.1
46412.4	10000	41.1127	92.3969	-824	QK	2.4	1	8.1	2	1.1	1	0.292	-1	2.234	0	7.656	2	1761	46	1.1
46412.3	10000	41.1127	92.3961	-824	QK	2.4	1	8.0	2	1.1	1	0.303	-1	2.261	0	7.455	1	1752	43	1.1
46412.2	10000	41.1127	92.3952	-823	QK	2.4	1	7.7	1	1.1	1	0.315	0	2.166	0	6.877	1	1755	42	1.1
46412.1	10000	41.1126	92.3944	-824	QK	2.8	1	7.4	1	1.1	1	0.384	0	2.592	1	6.742	1	1742	40	1.1
46412.0	10000	41.1126	92.3936	-824	QK	2.8	1	7.2	1	1.1	1	0.393	1	2.604	1	6.629	0	1735	52	1.1
46411.9	10000	41.1126	92.3927	-824	QK	2.8	1	7.5	1	1.1	1	0.360	0	2.580	1	7.168	1	1736	41	1.1
46411.8	10000	41.1126	92.3919	-824	QK	3.1	1	7.3	1	1.0	-1	0.369	0	2.637	1	7.139	1	1692	53	1.1
46411.7	10000	41.1126	92.3910	-824	QK	2.7	1	6.8	0	1.0	-1	0.420	1	2.946	1	7.007	1	1676	45	1.1
46411.6	10000	41.1126	92.3902	-824	QK	2.8	1	6.9	0	1.0	-1	0.397	0	2.568	1	6.476	0	1652	43	1.1
46411.5	10000	41.1125	92.3894	-825	QK	2.6	1	6.5	0	1.0	-1	0.408	0	2.709	1	6.637	0	1635	37	1.1
46411.4	10000	41.1125	92.3885	-826	QK	2.6	1	6.9	0	1.0	-1	0.400	0	2.554	1	6.340	0	1603	48	1.1
46411.3	10000	41.1125	92.3877	-826	QK	2.6	1	6.9	0	1.0	-1	0.385	0	2.658	1	6.909	1	1596	45	1.1
46411.2	10000	41.1125	92.3869	-827	QK	2.7	1	6.2	-1	0.9	-1	0.428	1	2.806	1	6.556	0	1588	50	1.1

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46411.1	10000	41.1125	92.3860	-828	QK	2.6	0	6.3	-1	1.0	-1	0.406	1	2.611	1	6.429	0	1609	49	1.1
46411.0	10000	41.1124	92.3852	-830	QK	2.4	0	6.2	-1	1.0	-1	0.394	1	2.433	0	6.181	0	1593	42	1.1
46410.9	10000	41.1124	92.3843	-831	QK	2.8	1	6.5	-1	1.0	-1	0.436	1	2.948	1	6.760	0	1602	44	1.1
46410.8	10000	41.1124	92.3835	-831	QK	2.5	0	6.7	-1	0.9	-1	0.377	0	2.688	1	7.130	1	1599	34	1.1
46410.7	10000	41.1124	92.3827	-832	QK	2.4	0	6.9	0	1.0	-1	0.350	0	2.455	0	7.018	1	1631	39	1.1
46410.6	10000	41.1124	92.3818	-833	QK	2.3	0	7.0	0	1.0	-1	0.334	0	2.319	0	6.936	1	1634	50	1.1
46410.5	10000	41.1124	92.3810	-834	QK	2.1	-1	7.1	0	1.1	-1	0.301	-1	2.022	-1	6.710	0	1622	44	1.1
46410.4	10000	41.1123	92.3802	-835	QK	2.1	-1	7.3	0	1.0	-1	0.291	-1	2.050	0	7.046	1	1627	38	1.1
46410.3	10000	41.1123	92.3793	-836	QK	1.7	-2	7.4	0	1.0	-1	0.236	-2	1.710	-1	7.239	1	1624	54	1.1
46410.2	10000	41.1123	92.3785	-837	QK	1.5	-2	7.3	0	1.1	0	0.209	-2	1.393	-2	6.674	0	1628	43	1.1
46410.1	10000	41.1123	92.3777	-838	QK	1.7	-2	7.1	0	1.1	0	0.239	-2	1.593	-1	6.659	0	1637	41	1.1
46410.0	10000	41.1123	92.3768	-839	QK	1.7	-2	7.0	0	1.1	0	0.238	-2	1.568	-1	6.585	0	1620	50	1.1
46409.9	10000	41.1123	92.3760	-840	QK	1.6	-2	7.3	0	1.1	-1	0.216	-2	1.505	-2	6.961	1	1609	49	1.1
46409.8	10000	41.1122	92.3751	-841	QK	1.6	-2	7.4	0	1.1	-1	0.218	-2	1.526	-2	7.000	1	1609	49	1.1
46409.7	10000	41.1122	92.3743	-842	QK	1.9	-1	7.3	0	1.0	-1	0.258	-1	1.784	-1	6.916	1	1590	58	1.1
46409.6	10000	41.1122	92.3735	-843	QK	2.3	0	7.3	0	1.0	-1	0.316	0	2.216	0	7.014	1	1576	45	1.1
46409.5	10000	41.1122	92.3726	-843	QK	2.3	0	7.3	0	1.0	-1	0.315	0	2.378	0	7.541	2	1547	38	1.1
46409.4	10000	41.1122	92.3718	-844	QK	2.3	-1	7.1	0	1.0	-1	0.322	0	2.384	0	7.402	1	1511	37	1.1
46409.3	10000	41.1122	92.3710	-844	QK	2.3	0	7.3	0	0.9	-2	0.313	-1	2.475	0	7.918	2	1493	41	1.1
46409.2	10000	41.1121	92.3701	-845	QK	2.4	0	6.5	-1	1.0	-1	0.364	0	2.477	0	6.814	0	1474	48	1.1
46409.1	10000	41.1121	92.3693	-845	QK	2.4	0	6.3	-1	0.9	-2	0.382	0	2.644	1	6.925	1	1468	35	1.1
46409.0	10000	41.1121	92.3684	-846	QAL	2.3	0	6.4	0	0.9	-1	0.352	0	2.485	0	7.058	1	1488	49	1.1
46408.9	10000	41.1121	92.3676	-847	QAL	2.4	0	6.2	0	0.9	-1	0.384	0	2.552	0	6.638	1	1525	39	1.0
46408.8	10000	41.1121	92.3668	-848	QAL	2.4	0	6.5	0	1.0	-1	0.376	0	2.525	0	6.708	1	1575	48	1.0
46408.7	10000	41.1120	92.3659	-848	QAL	2.2	0	7.0	0	1.0	0	0.318	-1	2.140	0	6.727	1	1635	40	1.0
46408.6	10000	41.1120	92.3651	-848	QAL	2.4	0	6.9	0	1.1	0	0.340	0	2.208	0	6.499	0	1668	46	1.0
46408.5	10000	41.1120	92.3643	-848	QAL	2.4	0	7.7	1	1.1	0	0.311	-1	2.241	0	7.195	1	1723	43	1.0
46408.4	10000	41.1120	92.3634	-848	QAL	2.6	1	8.2	1	1.2	1	0.315	-1	2.218	0	7.048	1	1765	56	1.0
46408.3	10000	41.1120	92.3626	-848	QAL	2.5	1	8.0	2	1.3	1	0.308	-1	2.031	-1	6.586	1	1784	35	1.0
46408.2	10000	41.1119	92.3618	-849	QAL	2.6	1	8.3	2	1.3	1	0.308	-1	2.024	-1	6.569	1	1807	46	1.0
46408.1	10000	41.1119	92.3609	-849	QAL	2.3	1	8.1	2	1.3	1	0.288	-1	1.850	-1	6.422	0	1802	43	1.0
46408.0	10000	41.1119	92.3601	-849	QK	2.5	0	8.0	1	1.2	1	0.312	-1	2.032	0	6.517	0	1786	40	1.0
46407.9	10000	41.1119	92.3592	-848	QK	2.6	1	8.0	1	1.2	1	0.325	0	2.156	0	6.633	0	1796	42	1.0
46407.8	10000	41.1119	92.3584	-847	QK	2.8	1	7.9	1	1.2	1	0.353	0	2.378	0	6.738	0	1786	39	1.0
46407.7	10000	41.1119	92.3576	-849	QK	2.9	1	7.6	1	1.1	0	0.382	0	2.655	1	6.953	1	1775	31	1.0
46407.6	10000	41.1118	92.3567	-851	QK	3.3	2	7.5	1	1.0	-1	0.442	1	3.315	2	7.495	1	1779	59	1.0
46407.5	10000	41.1118	92.3559	-852	QK	3.1	2	7.5	1	0.9	-1	0.410	1	3.262	2	7.953	2	1775	43	1.0
46407.4	10000	41.1118	92.3551	-852	QK	3.5	2	7.3	2	1.0	-1	0.486	2	3.587	3	7.385	1	1775	40	1.0
46407.3	10000	41.1118	92.3542	-853	QK	3.6	2	7.4	2	1.0	-1	0.486	2	3.453	3	7.110	1	1801	46	1.0
46407.2	10000	41.1118	92.3534	-853	QK	3.6	2	7.2	2	1.1	0	0.497	2	3.369	3	6.782	0	1801	34	1.0
46407.1	10000	41.1118	92.3525	-854	QK	3.3	2	7.3	2	1.1	0	0.456	2	3.123	2	6.843	1	1798	59	1.0
46407.0	10000	41.1117	92.3517	-855	QK	3.4	2	7.3	2	1.2	1	0.466	2	2.864	1	6.146	0	1803	50	1.0
46406.9	10000	41.1117	92.3509	-856	QK	3.0	1	7.3	2	1.2	1	0.418	1	2.583	1	6.175	0	1776	47	1.0
46406.8	10000	41.1117	92.3500	-857	QK	3.0	1	7.4	2	1.2	1	0.408	1	2.560	1	6.271	0	1762	50	1.0
46406.7	10000	41.1117	92.3492	-857	QK	2.9	1	7.7	2	1.2	1	0.371	0	2.453	1	6.607	0	1762	42	1.0
46406.6	10000	41.1117	92.3484	-857	QK	2.9	1	7.2	1	1.1	1	0.408	1	2.673	1	6.548	0	1741	39	1.0
46406.5	10000	41.1116	92.3475	-858	QK	3.0	1	7.1	1	1.1	1	0.420	1	2.722	1	6.486	0	1752	35	1.0
46406.4	10000	41.1116	92.3467	-858	QK	3.0	1	6.6	-1	1.1	1	0.446	1	2.596	1	5.825	-1	1755	45	1.0
46406.3	10000	41.1116	92.3459	-860	QK	2.9	1	6.6	-1	1.1	1	0.441	1	2.699	1	6.127	-1	1754	43	1.0
46406.2	10000	41.1116	92.3450	-861	QK	3.0	1	6.8	-1	1.1	1	0.435	1	2.714	1	6.239	0	1767	39	1.0
46406.1	10000	41.1116	92.3442	-862	QK	3.1	1	6.7	-1	1.1	1	0.463	2	2.712	1	5.860	-1	1778	49	1.0
46406.0	10000	41.1115	92.3433	-863	QK	3.0	1	6.4	-1	1.1	0	0.472	2	2.738	1	5.795	-1	1784	45	1.0

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46405.9	10000	41.1115	92.3425	-863	QK	2.9	1	6.7	-1	1.2	1	0.426	1	2.401	0	5.632	-1	1794	44	1.0
46405.8	10000	41.1115	92.3417	-863	QK	2.8	0	6.7	-1	1.2	1	0.414	1	2.235	0	5.403	-2	1780	41	1.0
46405.7	10000	41.1115	92.3408	-864	QK	2.7	0	6.9	0	1.3	1	0.394	1	2.154	0	5.467	-1	1779	40	1.0
46405.6	10000	41.1115	92.3400	-865	QK	2.5	0	7.3	0	1.2	1	0.337	0	1.971	-1	5.857	-1	1784	47	1.0
46405.5	10000	41.1115	92.3392	-866	QK	2.6	0	7.6	0	1.3	1	0.342	0	2.049	0	5.996	-1	1780	49	1.0
46405.4	10000	41.1114	92.3383	-867	QK	2.4	0	7.4	0	1.2	1	0.324	0	1.982	-1	6.117	-1	1761	55	1.0
46405.3	10000	41.1114	92.3375	-868	QK	2.3	0	7.5	0	1.2	1	0.307	-1	1.898	-1	6.174	0	1761	37	1.0
46405.2	10000	41.1114	92.3366	-869	QK	2.4	0	7.5	0	1.2	1	0.324	0	2.097	0	6.478	0	1757	44	1.0
46405.1	10000	41.1114	92.3358	-870	QK	2.2	-1	7.7	1	1.1	1	0.284	-1	1.928	-1	6.780	0	1772	41	1.0
46405.0	10000	41.1114	92.3350	-871	QK	2.1	-1	8.1	1	1.1	1	0.263	-1	1.946	-1	7.386	1	1780	40	1.0
46404.9	10000	41.1114	92.3341	-871	QK	2.3	0	7.9	1	1.1	1	0.295	-1	2.026	-1	6.873	1	1771	41	1.0
46404.8	10000	41.1113	92.3333	-872	QK	2.1	-1	7.8	1	1.2	1	0.276	-1	1.812	-1	6.561	0	1785	50	1.0
46404.7	10000	41.1113	92.3324	-873	QK	1.9	-1	8.4	2	1.2	1	0.231	-2	1.584	-1	6.863	1	1797	42	1.0
46404.6	10000	41.1113	92.3316	-874	QK	1.7	-2	8.5	2	1.3	1	0.201	-2	1.349	-2	6.723	0	1792	37	1.0
46404.5	10000	41.1113	92.3307	-875	QK	1.6	-2	8.5	2	1.3	1	0.190	-2	1.263	-2	6.655	0	1789	36	1.0
46404.4	10000	41.1113	92.3299	-875	QK	1.8	-1	8.5	2	1.3	1	0.211	-2	1.432	-2	6.803	0	1775	34	1.0
46404.3	10000	41.1113	92.3290	-876	QK	1.8	-1	8.2	1	1.3	1	0.220	-2	1.443	-2	6.554	0	1747	45	1.0
46404.2	10000	41.1113	92.3282	-877	QK	1.7	-2	8.0	1	1.2	1	0.217	-2	1.409	-2	6.505	0	1745	39	1.0
46404.1	10000	41.1113	92.3273	-878	QK	1.6	-2	8.0	1	1.2	1	0.206	-2	1.391	-2	6.765	0	1730	49	1.0
46404.0	10000	41.1113	92.3264	-879	QK	2.0	-1	7.8	1	1.2	0	0.255	-1	1.724	-1	6.750	0	1730	53	1.0
46403.9	10000	41.1113	92.3256	-880	QK	2.1	-1	7.6	1	1.1	0	0.278	-1	1.949	-1	7.018	1	1709	33	1.0
46403.8	10000	41.1113	92.3247	-880	QK	2.1	-1	7.4	0	1.0	-1	0.282	-1	2.007	-1	7.112	1	1710	62	1.0
46403.7	10000	41.1113	92.3239	-881	QK	2.0	-1	7.5	0	1.0	-1	0.272	-1	1.952	-1	7.185	1	1696	36	1.0
46403.6	10000	41.1113	92.3230	-882	QK	2.2	-1	7.5	0	1.1	0	0.290	-1	1.972	-1	6.795	0	1730	51	1.0
46403.5	10000	41.1113	92.3222	-883	QK	2.1	-1	7.9	1	1.1	0	0.271	-1	1.993	-1	7.356	1	1740	44	1.0
46403.4	10000	41.1113	92.3213	-883	QK	2.3	-1	7.5	0	1.1	0	0.299	-1	2.076	0	6.949	1	1752	38	1.0
46403.3	10000	41.1113	92.3205	-884	QK	2.3	-1	7.2	0	1.0	-1	0.313	-1	2.159	0	6.889	1	1749	37	1.0
46403.2	10000	41.1113	92.3196	-885	QK	2.6	0	7.4	0	1.1	-1	0.347	0	2.431	0	7.001	1	1783	32	1.0
46403.1	10000	41.1113	92.3188	-886	QK	2.5	0	7.8	1	1.1	0	0.324	0	2.358	0	7.273	1	1791	56	1.0
46403.0	10000	41.1113	92.3179	-886	QK	2.5	0	7.6	1	1.1	0	0.335	0	2.308	0	6.891	1	1804	34	1.0
46402.9	10000	41.1113	92.3170	-887	QK	2.6	0	7.5	0	1.1	0	0.342	0	2.383	0	6.966	1	1794	46	1.0
46402.8	10000	41.1113	92.3162	-887	QK	2.6	0	7.6	0	1.1	0	0.348	0	2.399	0	6.903	1	1799	39	1.0
46402.7	10000	41.1113	92.3153	-888	QK	2.7	0	7.7	1	1.1	-1	0.351	0	2.535	1	7.227	1	1797	47	1.0
46402.6	10000	41.1113	92.3145	-889	QK	2.7	0	8.0	1	1.1	0	0.343	0	2.518	1	7.348	1	1804	43	1.0
46402.5	10000	41.1113	92.3136	-890	QK	3.1	1	8.0	1	1.1	0	0.383	0	2.789	1	7.283	1	1783	47	1.0
46402.4	10000	41.1113	92.3128	-891	QK	3.1	1	7.7	1	1.1	0	0.402	1	2.780	1	6.915	1	1773	35	1.0
46402.3	10000	41.1113	92.3119	-892	QK	3.0	1	7.7	1	1.1	0	0.390	1	2.815	1	7.218	1	1761	42	1.0
46402.2	10000	41.1113	92.3111	-893	QK	2.9	1	7.8	1	1.1	-1	0.371	0	2.761	1	7.448	1	1758	43	1.0
46402.1	10000	41.1113	92.3102	-894	QK	2.9	1	7.4	1	1.1	0	0.397	1	2.668	1	6.719	1	1755	51	1.0
46402.0	10000	41.1113	92.3093	-894	QK	2.6	0	7.5	1	1.1	0	0.341	0	2.240	0	6.578	0	1749	42	1.0
46401.9	10000	41.1113	92.3085	-894	QK	2.6	0	7.4	1	1.2	0	0.346	0	2.208	0	6.384	0	1743	41	1.0
46401.8	10000	41.1113	92.3076	-895	QK	2.2	-1	7.4	1	1.2	-1	0.302	-1	1.883	-1	6.232	0	1751	38	1.0
46401.7	10000	41.1113	92.3068	-895	QK	2.3	0	7.4	1	1.2	-1	0.313	-1	1.951	-1	6.235	0	1760	44	1.0
46401.6	10000	41.1113	92.3059	-896	QK	2.4	0	7.2	1	1.2	0	0.334	0	2.045	0	6.118	-1	1758	44	1.0
46401.5	10000	41.1113	92.3051	-896	QK	2.5	0	7.3	1	1.2	0	0.348	0	2.154	0	6.188	0	1761	38	1.1
46401.4	10000	41.1113	92.3042	-896	QK	2.5	0	7.6	1	1.1	0	0.330	0	2.238	1	6.786	0	1760	53	1.1
46401.3	10000	41.1113	92.3033	-897	QK	2.9	1	7.5	1	1.1	0	0.385	0	2.614	1	6.790	0	1766	44	1.1
46401.2	10000	41.1113	92.3025	-898	QK	2.7	0	7.6	1	1.1	0	0.356	0	2.419	0	6.804	0	1765	42	1.1
46401.1	10000	41.1113	92.3016	-898	QK	2.7	0	7.5	1	1.1	0	0.359	0	2.441	0	6.791	0	1769	49	1.1
46401.0	10000	41.1113	92.3008	-899	QK	2.7	0	7.8	1	1.1	0	0.351	0	2.467	0	7.030	1	1765	44	1.1
46400.9	10000	41.1113	92.2999	-899	QK	3.0	1	7.8	1	1.1	0	0.381	0	2.639	1	6.917	1	1787	44	1.1
46400.8	10000	41.1113	92.2991	-900	QK	2.7	0	7.9	1	1.1	0	0.346	0	2.402	0	6.940	1	1779	45	1.1

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46400.7	10000	41.1113	92.2982	-899	QK	2.7	0	8.0	1	1.2	1	0.335	0	2.278	0	6.800	0	1774	45	1.1
46400.6	10000	41.1113	92.2974	-899	QK	2.5	0	8.0	1	1.2	1	0.318	0	2.070	0	6.511	0	1756	42	1.1
46400.5	10000	41.1113	92.2965	-899	QK	2.5	0	8.1	1	1.3	1	0.314	-1	1.993	-1	6.340	0	1748	44	1.1
46400.4	10000	41.1113	92.2957	-898	QK	2.5	0	8.0	1	1.3	1	0.305	-1	1.921	-1	6.302	0	1740	42	1.1
46400.3	10000	41.1113	92.2948	-898	QK	2.3	0	7.7	1	1.3	2	0.296	-1	1.743	-1	5.889	-1	1731	45	1.1
46400.2	10000	41.1113	92.2939	-898	QK	1.8	-1	8.0	1	1.3	1	0.225	-2	1.398	-2	6.227	0	1714	40	1.1
46400.1	10000	41.1113	92.2931	-900	QK	2.0	-1	7.8	1	1.3	1	0.257	-1	1.560	-1	6.064	-1	1722	61	1.1
46400.0	10000	41.1113	92.2922	-900	QK	2.1	-1	7.8	1	1.3	1	0.264	-1	1.631	-1	6.191	0	1729	41	1.1
46399.9	10000	41.1113	92.2914	-900	QK	2.2	-1	7.8	1	1.2	1	0.285	-1	1.841	-1	6.454	0	1738	54	1.1
46399.8	10000	41.1113	92.2905	-901	QK	2.2	-1	7.8	1	1.2	1	0.284	-1	1.859	-1	6.545	0	1742	47	1.1
46399.7	10000	41.1112	92.2897	-901	QK	2.3	-1	7.8	1	1.2	0	0.290	-1	1.932	-1	6.666	0	1741	52	1.1
46399.6	10000	41.1113	92.2888	-901	QK	2.4	0	8.1	1	1.1	0	0.304	-1	2.142	0	7.040	1	1743	38	1.1
46399.5	10000	41.1113	92.2879	-901	QK	2.7	0	8.0	1	1.2	0	0.342	0	2.366	0	6.924	1	1740	42	1.1
46399.4	10000	41.1112	92.2871	-900	QK	2.8	1	7.8	1	1.1	0	0.360	0	2.502	0	6.949	1	1729	36	1.1
46399.3	10000	41.1112	92.2862	-900	QK	2.6	0	7.5	0	1.1	0	0.350	0	2.336	0	6.673	0	1726	41	1.1
46399.2	10000	41.1112	92.2854	-899	QK	2.6	0	7.5	0	1.1	0	0.343	0	2.268	0	6.620	0	1721	46	1.1
46399.1	10000	41.1112	92.2845	-900	QK	2.7	0	7.3	0	1.1	0	0.368	0	2.488	0	6.755	0	1716	39	1.1
46399.0	10000	41.1112	92.2837	-900	QK	2.6	0	7.6	0	1.1	0	0.347	0	2.429	0	7.008	1	1722	52	1.0
46398.9	10000	41.1112	92.2828	-900	QK	2.4	0	7.7	1	1.1	0	0.318	0	2.219	0	6.989	1	1721	41	1.0
46398.8	10000	41.1112	92.2820	-900	QK	2.2	-1	7.8	1	1.1	0	0.279	-1	1.991	-1	7.125	1	1717	43	1.0
46398.7	10000	41.1112	92.2811	-899	QK	2.2	-1	7.9	1	1.1	0	0.277	-1	1.974	-1	7.139	1	1715	38	1.0
46398.6	10000	41.1112	92.2802	-899	QK	2.3	0	7.7	1	1.1	0	0.304	-1	2.134	0	7.016	1	1700	47	1.0
46398.5	10000	41.1112	92.2794	-899	QK	2.1	-1	7.9	1	1.1	0	0.271	-1	1.906	-1	7.028	1	1707	43	1.0
46398.4	10000	41.1112	92.2785	-899	QK	2.2	-1	7.5	0	1.1	0	0.288	-1	1.903	-1	6.613	0	1699	44	1.0
46398.3	10000	41.1112	92.2777	-899	QK	1.9	-1	7.4	0	1.1	0	0.262	-1	1.709	-1	6.529	0	1671	49	1.0
46398.2	10000	41.1112	92.2768	-899	QK	1.9	-1	7.4	0	1.1	0	0.258	-1	1.706	-1	6.601	0	1659	52	1.0
46398.1	10000	41.1112	92.2760	-898	QK	2.1	-1	7.1	0	1.1	0	0.301	-1	1.900	-1	6.321	0	1665	48	1.0
46398.0	10000	41.1112	92.2751	-897	QK	2.0	-1	7.4	0	1.1	0	0.277	-1	1.853	-1	6.690	0	1667	32	1.0
46397.9	10000	41.1112	92.2743	-897	QK	2.2	-1	8.1	1	1.1	0	0.267	-1	1.965	-1	7.347	1	1668	45	1.0
46397.8	10000	41.1112	92.2734	-896	QK	2.3	0	7.9	1	1.1	0	0.293	-1	2.190	0	7.479	1	1654	49	1.0
46397.7	10000	41.1112	92.2726	-895	QK	2.1	-1	8.5	1	1.1	0	0.241	-2	1.928	-1	7.996	2	1668	41	1.0
46397.6	10000	41.1112	92.2717	-894	QK	2.3	0	8.4	1	1.1	0	0.275	-1	2.181	0	7.931	2	1687	41	1.0
46397.5	10000	41.1112	92.2708	-894	QK	2.6	0	7.8	1	1.0	-1	0.326	0	2.533	1	7.768	2	1703	44	1.0
46397.4	10000	41.1112	92.2700	-893	QK	2.7	0	8.1	1	1.0	-1	0.327	0	2.757	1	8.438	3	1701	44	1.0
46397.3	10000	41.1112	92.2691	-893	QK	2.8	0	8.0	1	0.9	-2	0.344	-1	2.925	1	8.496	3	1692	43	1.0
46397.2	10000	41.1112	92.2683	-892	QK	2.7	0	7.3	1	1.0	-1	0.373	-1	2.778	1	7.447	1	1697	34	1.0
46397.1	10000	41.1112	92.2674	-891	QK	2.8	0	7.2	1	1.0	-1	0.385	-1	2.874	1	7.473	1	1715	60	1.0
46397.0	10000	41.1112	92.2666	-889	QK	3.0	1	7.6	1	1.0	-1	0.399	-1	3.132	2	7.856	1	1715	54	1.0
46396.9	10000	41.1112	92.2657	-889	QK	3.1	2	7.2	1	1.0	-1	0.456	-1	3.428	2	7.515	1	1717	41	1.0
46396.8	10000	41.1112	92.2648	-890	QK	3.1	1	7.4	1	1.0	-1	0.415	-1	3.106	2	7.490	1	1699	51	0.9
46396.7	10000	41.1112	92.2640	-890	QK	2.9	1	7.4	1	1.0	-1	0.387	-1	2.800	1	7.245	1	1696	38	0.9
46396.6	10000	41.1112	92.2631	-890	QK	3.0	1	7.3	1	1.0	-1	0.418	-1	2.792	1	6.687	1	1721	42	0.9
46396.5	10000	41.1112	92.2623	-890	QK	3.0	1	7.2	1	1.0	-1	0.423	-1	2.943	1	6.950	1	1717	35	0.9
46396.4	10000	41.1112	92.2614	-891	QK	3.0	1	7.3	1	1.0	-1	0.414	-1	2.897	1	7.002	1	1723	43	0.9
46396.3	10000	41.1112	92.2606	-892	QK	2.8	1	7.1	1	1.0	-1	0.393	-1	2.548	1	6.492	1	1711	55	0.9
46396.2	10000	41.1112	92.2597	-893	QK	2.6	1	7.4	1	1.1	-1	0.348	-1	2.249	0	6.472	1	1733	49	0.9
46396.1	10000	41.1112	92.2589	-893	QK	2.6	1	7.6	1	1.1	-1	0.341	-1	2.307	0	6.760	1	1744	52	0.9
46396.0	10000	41.1112	92.2580	-894	QK	2.7	1	7.2	1	1.1	-1	0.382	-1	2.416	0	6.323	1	1745	34	0.9
46395.9	10000	41.1112	92.2571	-895	QK	2.3	0	7.4	1	1.2	-1	0.305	-1	1.993	-1	6.540	1	1732	50	0.9
46395.8	10000	41.1112	92.2563	-895	QK	2.3	0	7.8	1	1.1	-1	0.296	-1	2.010	-1	6.782	1	1722	43	0.9
46395.7	10000	41.1112	92.2554	-896	QK	2.2	-1	7.8	1	1.1	-1	0.285	-1	1.941	-1	6.816	1	1717	38	0.9
46395.6	10000	41.1112	92.2546	-897	QK	2.4	0	7.2	0	1.1	0	0.338	0	2.191	0	6.482	0	1710	44	0.9

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46395.5	10000	41.1112	92.2537	-897	QK	2.5	0	7.2	0	1.1	0	0.341	0	2.180	0	6.402	0	1702	42	0.9
46395.4	10000	41.1112	92.2529	-897	QK	2.6	0	7.1	0	1.1	0	0.363	0	2.335	0	6.427	0	1701	46	0.9
46395.3	10000	41.1112	92.2520	-898	QK	2.7	0	7.3	0	1.1	0	0.369	0	2.467	0	6.681	0	1699	37	0.9
46395.2	10000	41.1112	92.2512	-898	QK	3.0	1	7.0	0	1.0	-1	0.423	1	2.816	1	6.659	0	1700	53	0.9
46395.1	10000	41.1112	92.2503	-896	QK	2.8	1	7.0	0	1.1	-1	0.401	1	2.665	1	6.644	0	1715	42	0.9
46395.0	10000	41.1112	92.2495	-898	QK	2.9	1	6.6	-1	1.0	-1	0.446	1	2.815	1	6.309	0	1706	45	0.9
46394.9	10000	41.1112	92.2486	-901	QK	3.0	1	7.1	0	1.0	-1	0.426	1	2.987	2	7.011	1	1705	37	0.8
46394.8	10000	41.1112	92.2477	-903	QK	2.9	1	7.3	0	1.0	-1	0.397	1	3.009	2	7.580	2	1713	35	0.8
46394.7	10000	41.1111	92.2469	-904	QK	2.9	1	7.4	0	0.9	-1	0.386	0	3.026	2	7.843	2	1715	38	0.8
46394.6	10000	41.1111	92.2460	-904	QK	2.8	1	7.4	0	0.9	-1	0.382	0	3.005	2	7.871	2	1720	40	0.8
46394.5	10000	41.1111	92.2452	-905	QK	2.6	0	7.8	1	1.0	-1	0.335	0	2.549	1	7.606	2	1726	39	0.8
46394.4	10000	41.1111	92.2443	-906	QK	2.6	0	7.7	1	1.0	-1	0.335	0	2.528	1	7.554	2	1726	44	0.8
46394.3	10000	41.1111	92.2435	-908	QK	2.5	0	7.8	1	1.0	-1	0.320	0	2.413	0	7.534	1	1732	44	0.8
46394.2	10000	41.1111	92.2426	-908	QK	2.4	0	7.9	1	1.1	0	0.303	-1	2.262	0	7.457	1	1733	33	0.8
46394.1	10000	41.1111	92.2417	-909	QK	2.6	0	8.0	1	1.1	0	0.328	0	2.383	0	7.273	1	1721	35	0.8
46394.0	10000	41.1111	92.2409	-909	QK	2.4	0	7.7	1	1.2	0	0.311	-1	2.071	0	6.666	0	1727	41	0.8
46393.9	10000	41.1111	92.2400	-910	QK	2.1	-1	7.8	1	1.2	0	0.269	-1	1.722	-1	6.396	0	1729	43	0.8
46393.8	10000	41.1111	92.2392	-912	QK	2.2	-1	7.5	0	1.2	0	0.294	-1	1.881	-1	6.408	0	1729	45	0.8
46393.7	10000	41.1111	92.2383	-911	QK	2.2	-1	7.7	1	1.2	0	0.285	-1	1.844	-1	6.463	0	1728	57	0.8
46393.6	10000	41.1111	92.2375	-912	QK	2.2	-1	7.7	1	1.2	0	0.286	-1	1.869	-1	6.541	0	1724	43	0.8
46393.5	10000	41.1111	92.2366	-914	QK	2.2	-1	7.3	0	1.2	0	0.309	-1	1.946	-1	6.304	0	1712	45	0.8
46393.4	10000	41.1111	92.2357	-916	QK	2.2	-1	7.0	0	1.2	0	0.313	-1	1.896	-1	6.057	-1	1717	53	0.8
46393.3	10000	41.1111	92.2349	-917	QK	2.6	0	7.0	0	1.1	0	0.364	0	2.267	0	6.233	0	1705	41	0.8
46393.2	10000	41.1111	92.2340	-919	QK	2.6	0	7.0	0	1.1	0	0.376	0	2.410	0	6.417	0	1688	43	0.8
46393.1	10000	41.1111	92.2332	-919	QK	2.8	1	7.1	0	1.1	0	0.393	1	2.497	0	6.354	0	1675	43	0.8
46393.0	10000	41.1111	92.2323	-920	QK	2.9	1	6.8	-1	1.1	0	0.427	1	2.655	1	6.213	0	1672	38	0.8
46392.9	10000	41.1111	92.2315	-921	QK	2.9	1	6.9	0	1.1	0	0.424	1	2.711	1	6.394	0	1667	44	0.8
46392.8	10000	41.1111	92.2306	-922	QK	2.8	1	7.0	0	1.1	0	0.405	1	2.554	1	6.303	0	1671	43	0.8
46392.7	10000	41.1111	92.2298	-922	QK	2.7	1	7.2	0	1.1	0	0.377	1	2.484	0	6.585	0	1669	51	0.8
46392.6	10000	41.1111	92.2289	-923	QK	2.8	1	7.3	0	1.1	0	0.377	1	2.551	1	6.762	0	1679	40	0.8
46392.5	10000	41.1111	92.2281	-924	QK	2.9	1	7.5	0	1.1	0	0.383	1	2.661	1	6.945	1	1700	40	0.8
46392.4	10000	41.1111	92.2272	-925	QK	2.7	1	7.5	0	1.1	0	0.358	1	2.506	1	7.004	1	1701	29	0.8
46392.3	10000	41.1111	92.2263	-926	QK	2.6	1	7.9	1	1.1	0	0.326	1	2.317	1	7.110	1	1706	57	0.8
46392.2	10000	41.1111	92.2255	-926	QK	2.5	1	7.9	1	1.1	-1	0.309	1	2.149	1	6.945	1	1705	52	0.8
46392.1	10000	41.1111	92.2246	-927	QK	2.4	1	7.8	1	1.1	-1	0.311	1	2.172	1	6.988	1	1705	45	0.8
46392.0	10000	41.1111	92.2238	-928	QK	2.8	1	7.6	1	1.1	0	0.361	1	2.471	1	6.848	1	1707	41	0.9
46391.9	10000	41.1111	92.2229	-929	QK	2.7	1	7.7	1	1.1	0	0.351	1	2.371	1	6.751	1	1708	42	0.9
46391.8	10000	41.1111	92.2221	-930	QK	2.6	1	7.7	1	1.1	0	0.332	1	2.295	1	6.910	1	1696	62	0.9
46391.7	10000	41.1111	92.2212	-930	QK	2.5	1	7.9	1	1.1	0	0.318	1	2.305	1	7.253	1	1681	46	0.9
46391.6	10000	41.1111	92.2204	-931	QK	2.6	1	7.6	1	1.0	0	0.348	1	2.546	1	7.325	1	1645	34	0.9
46391.5	10000	41.1111	92.2195	-932	QK	2.6	1	7.5	1	1.0	0	0.344	1	2.616	1	7.609	1	1628	41	0.9
46391.4	10000	41.1111	92.2186	-932	QK	2.5	1	7.5	1	1.0	0	0.340	1	2.628	1	7.727	1	1612	48	0.9
46391.3	10000	41.1111	92.2178	-933	QK	2.5	1	7.5	1	1.0	0	0.333	1	2.573	1	7.718	1	1604	46	0.9
46391.2	10000	41.1111	92.2169	-934	QK	2.4	1	7.1	1	1.0	0	0.342	1	2.551	1	7.452	1	1586	44	0.9
46391.1	10000	41.1111	92.2161	-935	QK	2.6	1	6.9	1	1.0	0	0.381	1	2.703	1	7.099	1	1578	40	0.9
46391.0	10000	41.1111	92.2152	-936	QK	2.9	1	6.5	1	1.0	0	0.464	2	3.003	2	6.477	1	1568	33	0.9
46390.9	10000	41.1111	92.2144	-937	QK	2.9	1	6.5	1	1.0	0	0.448	2	3.008	2	6.717	1	1577	37	0.9
46390.8	10000	41.1111	92.2135	-938	QK	3.0	1	6.6	1	1.0	0	0.494	2	3.040	2	6.149	1	1592	46	0.9
46390.7	10000	41.1111	92.2126	-939	QK	2.9	1	6.3	1	1.0	0	0.459	2	2.908	1	6.330	1	1588	42	0.9
46390.6	10000	41.1111	92.2118	-940	QK	2.7	1	6.7	1	1.0	0	0.402	2	2.774	1	6.895	1	1589	41	0.9
46390.5	10000	41.1111	92.2109	-941	QK	2.6	1	7.2	1	1.0	0	0.365	2	2.748	1	7.532	1	1579	37	0.9
46390.4	10000	41.1110	92.2101	-942	QK	2.4	1	7.2	0	0.9	-1	0.332	2	2.532	1	7.619	2	1564	47	0.9

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46390.3	10000	41.1110	92.2092	-942	QK	2.3	-1	7.4	0	1.0	-1	0.309	-1	2.349	0	7.614	2	1573	36	0.9
46390.2	10000	41.1111	92.2084	-943	QK	2.1	-1	7.0	0	1.0	-1	0.300	-1	2.106	0	7.024	1	1587	47	0.9
46390.1	10000	41.1110	92.2075	-944	QK	2.0	-1	7.4	0	1.0	-1	0.267	-1	1.988	-1	7.432	1	1583	43	0.9
46390.0	10000	41.1110	92.2067	-946	QK	2.1	-1	7.3	0	1.0	-1	0.295	-1	2.134	0	7.230	1	1604	36	0.9
46389.9	10000	41.1110	92.2058	-948	QK	2.0	-1	7.0	0	1.1	0	0.289	-1	1.912	-1	6.614	0	1603	41	0.9
46389.8	10000	41.1110	92.2049	-949	QK	1.9	-1	6.8	-1	1.1	0	0.280	-1	1.695	-1	6.055	-1	1622	43	1.0
46389.7	10000	41.1110	92.2041	-951	QK	2.1	-1	6.7	-1	1.2	0	0.317	0	1.851	-1	5.845	-1	1653	43	1.0
46389.6	10000	41.1110	92.2032	-951	QK	2.2	-1	7.3	0	1.2	1	0.301	-1	1.850	-1	6.148	0	1679	55	1.0
46389.5	10000	41.1109	92.2024	-953	QK	2.2	-1	7.4	0	1.2	0	0.292	-1	1.854	-1	6.355	0	1686	39	1.0
46389.4	10000	41.1109	92.2015	-954	QK	2.4	0	7.4	0	1.2	1	0.321	0	1.975	-1	6.160	0	1703	43	1.0
46389.3	10000	41.1109	92.2007	-955	QK	2.2	-1	7.5	0	1.2	1	0.298	-1	1.825	-1	6.129	-1	1710	36	1.0
46389.2	10000	41.1109	92.1998	-957	QK	2.2	-1	7.5	0	1.2	1	0.289	-1	1.823	-1	6.311	0	1725	39	1.0
46389.1	10000	41.1109	92.1989	-958	QK	2.4	0	7.4	0	1.2	1	0.317	0	1.968	-1	6.212	0	1739	41	1.0
46389.0	10000	41.1109	92.1981	-960	QK	2.3	0	7.8	1	1.2	1	0.297	-1	1.907	-1	6.430	0	1754	49	1.0
46388.9	10000	41.1108	92.1972	-962	QK	2.1	-1	7.5	0	1.2	1	0.281	-1	1.707	-1	6.068	-1	1758	64	1.0
46388.8	10000	41.1108	92.1964	-964	QK	2.3	-1	7.5	0	1.3	1	0.302	-1	1.812	-1	6.007	-1	1763	53	1.0
46388.7	10000	41.1108	92.1955	-966	QK	2.4	0	7.6	1	1.2	1	0.318	0	1.976	-1	6.206	0	1762	45	1.0
46388.6	10000	41.1108	92.1946	-968	QK	2.4	0	7.6	1	1.2	1	0.315	0	1.963	-1	6.223	0	1778	46	1.0
46388.5	10000	41.1108	92.1938	-970	QK	2.8	1	7.5	0	1.2	1	0.370	0	2.263	0	6.123	-1	1796	42	1.0
46388.4	10000	41.1108	92.1929	-971	QK	2.7	0	7.6	1	1.2	1	0.359	0	2.226	0	6.206	0	1797	43	1.0
46388.3	10000	41.1107	92.1921	-973	QK	2.7	0	7.4	0	1.2	1	0.368	0	2.276	0	6.179	0	1791	38	1.0
46388.2	10000	41.1107	92.1912	-976	QK	3.2	1	7.5	0	1.2	1	0.425	1	2.731	1	6.422	0	1788	39	1.0
46388.1	10000	41.1107	92.1904	-978	QK	3.0	1	7.6	0	1.2	1	0.401	1	2.603	1	6.491	0	1788	56	1.0
46388.0	10000	41.1107	92.1895	-980	QK	2.8	1	7.2	0	1.2	1	0.391	1	2.329	0	5.957	-1	1791	43	1.0
46387.9	10000	41.1107	92.1886	-982	QK	2.8	1	7.3	0	1.2	1	0.386	0	2.312	0	5.996	-1	1782	55	1.0
46387.8	10000	41.1107	92.1878	-984	QK	2.7	0	7.1	0	1.3	1	0.385	0	2.175	0	5.645	-1	1764	47	1.0
46387.7	10000	41.1106	92.1869	-987	QK	2.8	1	6.9	0	1.3	1	0.412	1	2.246	0	5.454	-1	1761	56	1.0
46387.6	10000	41.1106	92.1861	-990	QK	2.8	1	6.6	-1	1.2	1	0.429	1	2.293	0	5.344	-2	1739	36	1.0
46387.5	10000	41.1106	92.1852	-992	QK	2.5	1	6.5	-1	1.2	1	0.383	0	2.082	0	5.442	-1	1715	37	1.0
46387.4	10000	41.1106	92.1843	-995	QK	2.6	1	6.5	-1	1.2	1	0.400	1	2.217	0	5.540	-1	1695	44	1.0
46387.3	10000	41.1106	92.1835	-997	QK	2.5	1	6.7	-1	1.1	0	0.365	0	2.284	0	6.250	0	1659	35	1.0
46387.2	10000	41.1105	92.1826	-1000	QK	2.5	1	6.5	-1	1.2	0	0.382	0	2.383	0	6.236	0	1617	37	1.0
46387.1	10000	41.1105	92.1818	-1003	QK	2.2	0	6.6	-1	1.1	0	0.342	0	2.356	1	6.887	1	1576	50	1.0
46387.0	10000	41.1105	92.1809	-1004	QK	2.0	0	6.4	-1	1.1	0	0.317	0	2.302	1	7.259	1	1540	46	1.0
46386.9	10000	41.1105	92.1801	-1006	QK	2.1	0	6.8	-1	1.0	0	0.306	0	2.386	2	7.808	2	1535	37	1.0
46386.8	10000	41.1105	92.1792	-1008	QK	2.1	0	7.1	-1	0.9	0	0.300	0	2.434	2	8.118	2	1530	51	1.0
46386.7	10000	41.1105	92.1783	-1009	QK	2.1	0	6.8	-1	0.9	0	0.308	0	2.556	3	8.308	3	1513	38	1.0
46386.6	10000	41.1105	92.1775	-1011	QK	2.3	1	7.0	-1	0.9	0	0.335	0	2.831	3	8.452	3	1526	41	1.0
46386.5	10000	41.1104	92.1766	-1014	QK	2.5	1	6.9	0	0.9	0	0.371	1	3.115	3	8.402	3	1541	42	1.0
46386.4	10000	41.1104	92.1758	-1015	QK	2.6	1	7.0	0	0.9	0	0.375	1	3.310	3	8.828	3	1563	40	1.0
46386.3	10000	41.1104	92.1749	-1017	QK	2.7	1	7.6	0	0.9	0	0.351	1	3.094	3	8.805	3	1584	50	1.0
46386.2	10000	41.1104	92.1740	-1019	QK	2.6	1	7.6	0	0.9	0	0.342	1	2.890	2	8.457	3	1596	47	1.0
46386.1	10000	41.1104	92.1732	-1021	QK	2.7	1	7.5	0	0.9	0	0.355	1	2.853	2	8.046	2	1623	50	1.0
46386.0	10000	41.1103	92.1723	-1023	QK	2.7	1	7.8	1	0.9	0	0.329	1	2.609	2	7.938	2	1670	34	1.0
46385.9	10000	41.1103	92.1715	-1024	QK	2.5	1	7.7	1	0.9	0	0.319	1	2.318	2	7.259	1	1677	46	1.0
46385.8	10000	41.1103	92.1706	-1026	QK	2.4	1	7.8	1	1.1	0	0.294	1	2.154	1	7.325	1	1702	46	1.0
46385.7	10000	41.1103	92.1698	-1027	QK	2.4	1	8.2	1	1.2	0	0.294	1	2.009	-1	6.836	1	1709	47	1.0
46385.6	10000	41.1103	92.1689	-1027	QK	2.4	1	8.2	1	1.2	0	0.293	1	2.017	-1	6.892	1	1715	39	1.0
46385.5	10000	41.1103	92.1680	-1029	QK	2.3	1	7.9	1	1.2	0	0.289	1	1.930	-1	6.671	1	1723	38	1.0
46385.4	10000	41.1103	92.1672	-1033	QK	2.2	1	7.8	1	1.2	0	0.281	1	1.811	-1	6.436	0	1728	47	0.9
46385.3	10000	41.1102	92.1663	-1035	QK	2.3	1	7.2	1	1.2	0	0.315	1	1.938	-1	6.142	0	1715	40	0.9
46385.2	10000	41.1102	92.1655	-1037	QK	2.5	1	7.4	1	1.2	1	0.336	0	2.112	0	6.278	0	1728	45	0.9

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46385.1	10000	41.1102	92.1646	-1040	QK	2.5	0	7.4	0	1.2	1	0.343	0	2.096	0	6.103	-1	1729	54	0.9
46385.0	10000	41.1102	92.1637	-1041	QK	2.6	0	7.4	0	1.3	1	0.356	0	2.090	0	5.867	-1	1750	41	0.9
46384.9	10000	41.1102	92.1629	-1043	QK	2.6	0	7.1	0	1.2	1	0.364	0	2.080	0	5.723	-1	1757	33	0.9
46384.8	10000	41.1102	92.1620	-1045	QK	2.8	1	7.3	0	1.2	1	0.381	0	2.212	0	5.802	-1	1754	47	0.9
46384.7	10000	41.1101	92.1612	-1048	QK	2.9	1	7.3	0	1.2	1	0.390	1	2.296	0	5.881	-1	1744	44	0.9
46384.6	10000	41.1101	92.1603	-1050	QK	2.7	0	7.7	1	1.3	1	0.348	0	2.130	0	6.113	-1	1739	41	0.9
46384.5	10000	41.1101	92.1595	-1053	QK	2.7	0	7.7	1	1.2	1	0.349	0	2.204	0	6.322	0	1728	44	0.9
46384.4	10000	41.1101	92.1586	-1055	QK	2.5	0	7.6	1	1.2	0	0.327	0	2.128	0	6.518	0	1714	36	0.9
46384.3	10000	41.1101	92.1577	-1058	QK	2.4	0	8.0	1	1.1	0	0.297	-1	2.099	0	7.065	1	1709	51	0.9
46384.2	10000	41.1100	92.1569	-1061	QK	2.4	0	8.2	1	1.2	0	0.291	-1	2.054	0	7.053	1	1692	47	0.9
46384.1	10000	41.1100	92.1560	-1064	QK	2.5	0	7.9	1	1.1	0	0.315	0	2.215	0	7.025	1	1679	42	0.9
46384.0	10000	41.1100	92.1552	-1067	QK	2.6	0	7.9	1	1.1	0	0.325	0	2.319	0	7.147	1	1664	44	0.9
46383.9	10000	41.1100	92.1543	-1071	QK	2.6	0	7.9	1	1.1	0	0.334	0	2.354	0	7.057	1	1675	33	0.9
46383.8	10000	41.1100	92.1534	-1075	QK	2.3	-1	8.1	1	1.2	0	0.279	-1	1.928	-1	6.908	1	1691	36	0.8
46383.7	10000	41.1100	92.1526	-1079	QK	2.3	0	8.1	1	1.2	1	0.290	-1	1.894	-1	6.540	0	1705	42	0.8
46383.6	10000	41.1099	92.1517	-1083	QK	2.3	0	7.4	0	1.2	1	0.314	-1	1.943	-1	6.188	0	1697	49	0.8
46383.5	10000	41.1099	92.1509	-1088	QK	2.4	0	7.2	0	1.2	1	0.337	0	2.029	0	6.018	-1	1710	41	0.8
46383.4	10000	41.1099	92.1500	-1093	QK	2.3	0	7.3	0	1.2	1	0.316	0	1.899	-1	6.005	-1	1733	42	0.8
46383.3	10000	41.1099	92.1492	-1098	QK	2.1	-1	7.2	0	1.2	1	0.295	-1	1.821	-1	6.171	0	1740	46	0.8
46383.2	10000	41.1099	92.1483	-1103	QK	2.3	0	6.8	-1	1.2	0	0.339	0	1.996	-1	5.895	-1	1732	44	0.8
46383.1	10000	41.1098	92.1474	-1108	QK	2.4	0	6.7	-1	1.1	0	0.363	0	2.130	0	5.860	-1	1731	41	0.8
46383.0	10000	41.1098	92.1466	-1114	QK	2.6	0	6.7	-1	1.1	0	0.386	0	2.384	0	6.184	0	1718	42	0.8
46382.9	10000	41.1098	92.1457	-1120	QK	2.6	0	7.1	0	1.1	0	0.372	0	2.404	0	6.459	0	1714	37	0.8
46382.8	10000	41.1098	92.1449	-1126	QK	2.6	0	7.3	0	1.1	0	0.352	0	2.368	0	6.726	0	1706	43	0.8
46382.7	10000	41.1098	92.1440	-1132	QK	2.5	0	7.1	0	1.1	-1	0.345	0	2.321	0	6.734	0	1669	43	0.8
46382.6	10000	41.1098	92.1431	-1139	QK	2.8	1	6.8	-1	1.1	0	0.410	1	2.639	1	6.434	0	1676	38	0.8
46382.5	10000	41.1097	92.1423	-1146	QK	2.9	1	7.1	0	1.1	0	0.402	1	2.692	1	6.694	0	1660	40	0.8
46382.4	10000	41.1097	92.1414	-1153	QK	3.0	1	6.6	-1	1.0	-1	0.461	2	2.902	1	6.296	0	1638	34	0.7
46382.3	10000	41.1097	92.1406	-1160	QK	2.9	1	6.7	-1	1.1	-1	0.429	1	2.753	1	6.413	0	1627	41	0.7
46382.2	10000	41.1097	92.1397	-1168	QK	3.0	1	6.5	-1	1.1	-1	0.455	2	2.852	1	6.273	0	1603	45	0.7
46382.1	10000	41.1097	92.1389	-1175	QK	3.0	1	6.3	-1	1.1	-1	0.478	2	2.949	1	6.171	0	1585	41	0.7
46382.0	10000	41.1097	92.1380	-1183	QK	3.1	1	6.1	-2	1.1	-1	0.517	2	3.074	2	5.945	-1	1590	45	0.7
46381.9	10000	41.1096	92.1371	-1190	QK	2.8	1	6.5	-1	1.1	-1	0.434	1	2.684	1	6.190	0	1567	48	0.7
46381.8	10000	41.1096	92.1363	-1198	QK	2.7	1	6.3	-1	1.1	-1	0.424	1	2.587	1	6.097	-1	1552	45	0.7
46381.7	10000	41.1096	92.1354	-1206	QK	2.5	1	6.6	-1	1.1	-1	0.387	1	2.447	1	6.314	0	1552	33	0.7
46381.6	10000	41.1096	92.1346	-1213	QK	2.6	1	6.6	-1	1.1	-1	0.401	1	2.491	1	6.214	0	1555	45	0.7
46381.5	10000	41.1096	92.1337	-1220	QK	2.4	1	6.5	-1	1.1	-1	0.375	0	2.274	0	6.065	-1	1561	43	0.7
46381.4	10000	41.1096	92.1328	-1227	QK	2.4	1	6.5	-1	1.1	-1	0.365	0	2.205	0	6.045	-1	1558	52	0.7
46381.3	10000	41.1095	92.1320	-1235	QK	2.3	1	6.9	0	1.1	-1	0.335	0	2.144	0	6.404	0	1558	46	0.7
46381.2	10000	41.1095	92.1311	-1241	QK	2.3	1	6.7	-1	1.1	-1	0.347	0	2.173	0	6.265	0	1566	42	0.7
46381.1	10000	41.1095	92.1303	-1248	QK	2.4	1	7.0	0	1.1	-1	0.340	0	2.230	0	6.569	0	1583	53	0.7
46381.0	10000	41.1095	92.1294	-1255	QK	2.3	1	6.9	0	1.1	-1	0.336	0	2.146	0	6.390	0	1594	41	0.7
46380.9	10000	41.1095	92.1286	-1261	QK	2.3	0	7.1	0	1.1	-1	0.318	0	2.110	0	6.640	0	1601	48	0.7
46380.8	10000	41.1095	92.1277	-1268	QK	2.3	0	7.2	0	1.1	-1	0.347	0	2.353	0	6.786	0	1621	39	0.6
46380.7	10000	41.1094	92.1268	-1275	QK	2.2	0	7.2	0	1.1	-1	0.346	0	2.373	0	6.861	0	1618	52	0.6
46380.6	10000	41.1094	92.1260	-1281	QK	2.2	0	6.9	0	1.1	-1	0.326	0	2.129	0	6.525	0	1602	30	0.6
46380.5	10000	41.1094	92.1251	-1287	QK	2.4	0	7.0	0	1.1	-1	0.338	0	2.203	0	6.516	0	1595	44	0.6
46380.4	10000	41.1094	92.1243	-1293	QK	2.2	0	7.0	0	1.1	-1	0.317	0	1.987	-1	6.276	0	1595	42	0.6
46380.3	10000	41.1094	92.1234	-1299	QK	2.3	0	6.8	-1	1.1	-1	0.301	-1	2.085	0	6.928	0	1589	45	0.6
46380.2	10000	41.1093	92.1225	-1305	QK	2.3	0	6.7	-1	1.1	-1	0.332	0	2.124	0	6.389	0	1600	40	0.6
46380.1	10000	41.1093	92.1217	-1310	QK	2.2	0	6.7	-1	1.1	-1	0.327	0	2.052	0	6.279	0	1605	53	0.6
46380.0	10000	41.1093	92.1208	-1316	QK	2.5	0	6.9	0	1.1	0	0.360	0	2.161	0	5.999	-1	1654	40	0.6

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46379.9	10000	41.1093	92.1200	-1321	QK	2.7	0	7.0	0	1.2	1	0.388	1	2.246	0	5.786	-1	1701	31	0.6
46379.8	10000	41.1093	92.1191	-1326	QK	2.8	1	6.9	0	1.2	1	0.401	1	2.308	0	5.754	-1	1728	44	0.6
46379.7	10000	41.1093	92.1183	-1330	QK	3.0	1	7.1	0	1.2	1	0.424	1	2.425	0	5.725	-1	1751	50	0.6
46379.6	10000	41.1092	92.1174	-1335	QK	3.1	1	6.9	0	1.3	1	0.451	1	2.455	0	5.440	-1	1762	42	0.6
46379.5	10000	41.1092	92.1165	-1339	QK	3.2	1	7.1	0	1.2	1	0.459	1	2.601	1	5.670	-1	1756	42	0.6
46379.4	10000	41.1092	92.1157	-1343	QK	3.2	1	7.6	1	1.3	1	0.418	1	2.502	0	5.982	-1	1749	48	0.6
46379.3	10000	41.1092	92.1148	-1347	QK	2.9	1	7.6	1	1.2	1	0.377	0	2.343	0	6.221	0	1725	42	0.6
46379.2	10000	41.1092	92.1140	-1350	QK	2.9	1	7.8	1	1.2	1	0.373	0	2.422	0	6.502	0	1707	34	0.6
46379.1	10000	41.1092	92.1131	-1353	QK	2.5	0	8.0	1	1.2	1	0.318	0	2.139	0	6.717	0	1691	45	0.6
46379.0	10000	41.1091	92.1122	-1356	QK	2.4	0	8.1	1	1.2	0	0.297	-1	2.034	0	6.856	1	1674	52	0.6
46378.9	10000	41.1091	92.1114	-1359	QK	2.4	0	8.5	2	1.1	0	0.278	-1	2.099	0	7.548	2	1666	38	0.6
46378.8	10000	41.1091	92.1105	-1361	QK	2.3	0	8.2	1	1.1	0	0.280	-1	2.084	0	7.434	1	1657	43	0.6
46378.7	10000	41.1091	92.1097	-1363	QK	2.2	-1	7.8	1	1.1	-1	0.282	-1	2.095	0	7.439	1	1651	32	0.6
46378.6	10000	41.1091	92.1088	-1364	QK	2.4	0	7.7	1	1.0	-1	0.316	0	2.354	0	7.451	1	1640	50	0.6
46378.5	10000	41.1090	92.1080	-1366	QK	2.4	0	7.5	0	1.0	-1	0.317	0	2.389	0	7.535	1	1625	47	0.6
46378.4	10000	41.1090	92.1071	-1367	QK	2.6	0	6.8	-1	1.0	-1	0.381	0	2.662	1	6.985	1	1605	47	0.6
46378.3	10000	41.1090	92.1062	-1369	QK	2.8	1	6.6	-1	1.0	-1	0.434	1	2.910	1	6.709	0	1582	26	0.6
46378.2	10000	41.1090	92.1054	-1370	QK	3.0	1	6.0	-2	1.0	-1	0.490	2	2.983	2	6.084	-1	1548	41	0.6
46378.1	10000	41.1090	92.1045	-1372	QK	2.6	0	6.2	-1	1.0	-1	0.426	1	2.641	1	6.198	0	1534	49	0.6
46378.0	10000	41.1090	92.1037	-1372	QK	2.6	0	6.0	-2	1.0	-1	0.431	1	2.620	1	6.081	-1	1516	39	0.6
46377.9	10000	41.1089	92.1028	-1373	QK	2.7	0	5.8	-2	1.0	-1	0.465	2	2.696	1	5.797	-1	1516	47	0.6
46377.8	10000	41.1089	92.1019	-1373	QK	2.8	0	5.9	-2	1.0	-1	0.470	2	2.683	1	5.711	-1	1537	46	0.6
46377.7	10000	41.1089	92.1011	-1372	QK	2.7	0	6.7	-1	1.0	-1	0.406	1	2.579	1	6.357	0	1559	38	0.5
46377.6	10000	41.1089	92.1002	-1371	QK	2.7	0	6.8	-1	1.0	-1	0.391	1	2.599	1	6.642	0	1593	38	0.5
46377.5	10000	41.1089	92.0994	-1369	QK	2.6	0	6.8	-1	1.0	-1	0.384	0	2.532	1	6.587	0	1628	45	0.5
46377.4	10000	41.1089	92.0985	-1368	QK	2.8	1	6.8	-1	1.0	-1	0.422	1	2.762	1	6.550	0	1651	40	0.5
46377.3	10000	41.1088	92.0977	-1366	QK	3.1	1	7.0	-1	1.1	-1	0.444	1	2.850	1	6.417	0	1690	46	0.6
46377.2	10000	41.1088	92.0968	-1363	QK	3.0	1	7.4	0	1.1	1	0.398	1	2.694	1	6.766	0	1717	55	0.6
46377.1	10000	41.1088	92.0959	-1360	QK	2.8	1	7.5	0	1.1	1	0.374	1	2.576	1	6.892	1	1711	35	0.6
46377.0	10000	41.1088	92.0951	-1357	QK	2.8	1	7.5	0	1.1	1	0.368	1	2.439	1	6.620	0	1720	52	0.6
46376.9	10000	41.1088	92.0942	-1354	QK	2.5	1	7.3	0	1.1	2	0.339	0	2.094	0	6.176	0	1709	45	0.6
46376.8	10000	41.1087	92.0934	-1351	QK	2.7	1	7.4	0	1.1	2	0.359	0	2.262	0	6.301	0	1714	49	0.6
46376.7	10000	41.1087	92.0925	-1347	QK	2.8	1	7.3	0	1.1	2	0.381	0	2.332	0	6.127	-1	1717	41	0.6
46376.6	10000	41.1087	92.0916	-1343	QK	2.7	1	7.4	0	1.1	2	0.372	0	2.257	0	6.074	-1	1698	47	0.6
46376.5	10000	41.1087	92.0908	-1339	QK	2.7	1	7.5	0	1.1	2	0.372	0	2.280	0	6.125	-1	1682	45	0.6
46376.4	10000	41.1087	92.0899	-1334	QK	2.7	1	7.5	0	1.1	2	0.366	0	2.311	0	6.320	0	1689	45	0.6
46376.3	10000	41.1087	92.0891	-1330	QK	2.8	1	7.5	0	1.1	2	0.382	0	2.351	0	6.157	0	1690	45	0.6
46376.2	10000	41.1086	92.0882	-1324	QK	2.8	1	7.5	1	1.1	2	0.387	0	2.501	0	6.456	0	1686	42	0.6
46376.1	10000	41.1086	92.0874	-1319	QK	2.5	1	7.4	1	1.1	2	0.357	0	2.179	0	6.107	-1	1680	54	0.6
46376.0	10000	41.1086	92.0865	-1312	QK	2.3	1	7.3	1	1.1	2	0.316	0	1.989	0	6.285	0	1682	46	0.6
46375.9	10000	41.1086	92.0856	-1306	QK	2.4	1	7.3	1	1.1	2	0.329	0	2.109	-1	6.413	0	1684	43	0.6
46375.8	10000	41.1086	92.0848	-1299	QK	2.5	1	7.4	1	1.1	2	0.330	0	2.096	0	6.354	0	1681	46	0.6
46375.7	10000	41.1086	92.0839	-1291	QK	2.4	1	7.3	1	1.1	2	0.326	0	2.139	0	6.570	0	1660	44	0.6
46375.6	10000	41.1085	92.0831	-1280	QK	2.7	1	7.5	1	1.1	2	0.360	0	2.359	0	6.551	0	1662	43	0.6
46375.5	10000	41.1085	92.0822	-1269	QK	2.7	1	7.8	1	1.1	2	0.343	0	2.299	0	6.707	0	1668	39	0.6
46375.4	10000	41.1085	92.0813	-1263	QK	2.5	1	7.8	1	1.1	2	0.315	0	2.215	0	7.028	1	1665	41	0.6
46375.3	10000	41.1085	92.0805	-1257	QK	2.6	1	7.9	1	1.1	2	0.327	0	2.320	0	7.092	1	1660	45	0.6
46375.2	10000	41.1085	92.0796	-1248	QK	2.7	1	7.6	1	1.1	2	0.332	0	2.456	0	7.407	1	1656	53	0.6
46375.1	10000	41.1085	92.0788	-1238	QK	2.6	1	7.6	1	1.1	2	0.328	0	2.444	0	7.456	1	1665	57	0.6
46375.0	10000	41.1084	92.0779	-1227	QK	2.5	1	7.6	1	1.1	2	0.326	0	2.178	0	6.690	1	1674	45	0.6
46374.9	10000	41.1084	92.0771	-1216	QK	2.4	1	7.6	1	1.1	2	0.301	-1	2.136	0	7.100	1	1664	43	0.6
46374.8	10000	41.1084	92.0762	-1204	QK	2.5	1	8.0	1	1.1	2	0.316	0	2.241	0	7.104	1	1652	44	0.6

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46374.7	10000	41.1084	92.0753	-1191	QK	2.7	0	7.9	1	1.1	0	0.338	0	2.415	0	7.136	1	1640	46	0.6
46374.6	10000	41.1084	92.0745	-1179	QK	2.7	0	8.0	1	1.1	0	0.341	0	2.487	0	7.292	1	1646	45	0.6
46374.5	10000	41.1083	92.0736	-1167	QK	2.5	0	8.0	1	1.1	0	0.316	0	2.291	0	7.255	1	1665	55	0.6
46374.4	10000	41.1083	92.0728	-1154	QK	2.6	0	8.2	1	1.1	0	0.321	0	2.299	0	7.165	1	1672	38	0.6
46374.3	10000	41.1083	92.0719	-1142	QK	2.6	0	8.4	2	1.1	0	0.312	-1	2.373	0	7.612	2	1682	40	0.6
46374.2	10000	41.1083	92.0710	-1130	QK	2.6	0	8.4	2	1.1	0	0.308	-1	2.303	0	7.470	1	1689	32	0.6
46374.1	10000	41.1083	92.0702	-1118	QK	2.9	1	7.8	1	1.1	0	0.365	0	2.595	1	7.103	1	1694	45	0.6
46374.0	10000	41.1083	92.0693	-1107	QK	3.0	1	7.8	1	1.1	0	0.384	0	2.778	1	7.231	1	1705	42	0.6
46373.9	10000	41.1082	92.0685	-1096	QK	2.8	1	7.6	1	1.1	0	0.369	0	2.587	1	7.005	1	1688	47	0.6
46373.8	10000	41.1082	92.0676	-1085	QK	2.8	1	7.5	0	1.1	0	0.378	0	2.630	1	6.952	1	1656	49	0.6
46373.7	10000	41.1082	92.0668	-1076	QK	2.9	1	7.1	0	1.0	-1	0.406	1	2.852	1	7.017	1	1634	46	0.6
46373.6	10000	41.1082	92.0659	-1067	QK	3.0	1	6.8	-1	1.0	-1	0.438	1	3.091	2	7.062	1	1620	45	0.6
46373.5	10000	41.1082	92.0650	-1059	QK	2.9	1	6.8	-1	0.9	-2	0.430	1	3.222	2	7.493	1	1598	45	0.6
46373.4	10000	41.1081	92.0642	-1051	QK	2.6	1	7.4	0	1.0	-1	0.346	0	2.624	1	7.579	2	1610	42	0.6
46373.3	10000	41.1081	92.0633	-1044	QK	2.4	1	7.4	0	1.0	-1	0.320	0	2.441	0	7.622	2	1600	50	0.7
46373.2	10000	41.1081	92.0625	-1038	QK	2.4	1	7.7	1	1.0	-1	0.306	-1	2.347	0	7.674	2	1589	44	0.7
46373.1	10000	41.1081	92.0616	-1033	QK	2.4	1	7.6	1	1.0	-1	0.318	0	2.329	0	7.334	1	1604	42	0.7
46373.0	10000	41.1081	92.0608	-1029	QK	2.3	-1	8.3	1	1.1	0	0.274	-1	2.042	0	7.447	1	1621	46	0.7
46372.9	10000	41.1081	92.0600	-1025	QK	2.4	0	8.5	2	1.2	1	0.283	-1	2.039	0	7.195	1	1633	44	0.7
46372.8	10000	41.1082	92.0591	-1022	QK	2.4	0	8.0	1	1.2	1	0.297	-1	1.910	-1	6.419	0	1653	38	0.7
46372.7	10000	41.1082	92.0583	-1021	QK	2.5	0	7.9	1	1.2	1	0.313	-1	2.062	0	6.586	0	1648	47	0.7
46372.6	10000	41.1082	92.0574	-1019	QK	2.5	0	7.7	1	1.3	1	0.320	0	1.970	-1	6.161	0	1664	64	0.7
46372.5	10000	41.1082	92.0566	-1019	QK	2.4	0	7.6	0	1.3	1	0.323	0	1.955	-1	6.044	-1	1681	43	0.7
46372.4	10000	41.1082	92.0558	-1019	QK	2.2	-1	8.0	1	1.3	1	0.282	-1	1.782	-1	6.326	0	1687	43	0.7
46372.3	10000	41.1082	92.0549	-1019	QK	2.4	0	7.6	0	1.3	1	0.321	0	1.913	-1	5.958	-1	1685	39	0.7
46372.2	10000	41.1082	92.0541	-1019	QK	2.4	0	7.3	0	1.3	1	0.325	0	1.849	-1	5.690	-1	1680	42	0.7
46372.1	10000	41.1082	92.0533	-1020	QK	2.6	0	7.3	0	1.3	1	0.354	0	2.063	-1	5.832	-1	1670	41	0.7
46372.0	10000	41.1082	92.0524	-1021	QK	2.6	0	7.2	0	1.3	1	0.362	0	2.087	-1	5.759	-1	1667	73	0.7
46371.9	10000	41.1082	92.0516	-1021	QK	2.7	0	6.7	-1	1.2	1	0.398	0	2.157	-1	5.419	-2	1656	51	0.7
46371.8	10000	41.1082	92.0507	-1023	QK	2.8	-1	6.6	-1	1.2	1	0.421	0	2.283	-1	5.421	-2	1660	35	0.7
46371.7	10000	41.1082	92.0499	-1024	QK	2.8	-1	6.5	-1	1.2	1	0.474	0	2.499	-1	5.270	-2	1651	40	0.7
46371.6	10000	41.1082	92.0491	-1024	QK	2.9	-1	6.4	-1	1.2	1	0.444	0	2.353	-1	5.300	-2	1628	49	0.7
46371.5	10000	41.1082	92.0482	-1025	QK	2.8	-1	6.6	-1	1.2	1	0.435	0	2.463	-1	5.667	-1	1620	53	0.7
46371.4	10000	41.1082	92.0474	-1026	QK	2.6	-1	6.7	-1	1.2	1	0.393	0	2.249	-1	5.725	-1	1628	47	0.7
46371.3	10000	41.1082	92.0466	-1026	QK	2.5	-1	6.5	-1	1.2	1	0.388	0	2.120	-1	5.470	-1	1627	37	0.7
46371.2	10000	41.1082	92.0457	-1027	QK	2.4	-1	7.3	0	1.2	1	0.335	0	2.030	-1	6.068	-1	1642	35	0.7
46371.1	10000	41.1083	92.0449	-1027	QK	2.2	-1	7.4	0	1.2	1	0.304	0	1.883	-1	6.203	0	1638	42	0.7
46371.0	10000	41.1083	92.0440	-1027	QK	2.1	-1	7.0	0	1.2	1	0.299	0	1.757	-1	5.869	-1	1654	53	0.7
46370.9	10000	41.1083	92.0432	-1026	QK	2.3	-1	6.8	-1	1.2	1	0.341	0	1.898	-1	5.573	-1	1677	42	0.7
46370.8	10000	41.1083	92.0424	-1027	QK	2.1	-1	7.1	0	1.2	1	0.319	0	1.843	-1	5.780	-1	1691	40	0.7
46370.7	10000	41.1083	92.0415	-1026	QK	2.2	-1	7.1	0	1.2	1	0.304	0	1.749	-1	5.757	-1	1685	42	0.7
46370.6	10000	41.1083	92.0407	-1026	QK	2.3	-1	7.0	0	1.2	1	0.315	0	1.872	-1	5.945	-1	1680	51	0.8
46370.5	10000	41.1083	92.0398	-1025	QK	2.4	-1	6.5	-1	1.2	1	0.327	0	1.942	-1	5.934	-1	1665	52	0.8
46370.4	10000	41.1083	92.0390	-1024	QK	2.4	-1	7.0	0	1.2	1	0.372	0	2.028	-1	5.451	-1	1661	47	0.8
46370.3	10000	41.1083	92.0382	-1022	QK	2.2	-1	6.7	-1	1.2	1	0.354	0	1.941	-1	5.480	-1	1649	48	0.8
46370.2	10000	41.1083	92.0373	-1021	QK	2.2	-1	7.0	0	1.2	1	0.315	0	1.837	-1	5.828	-1	1645	45	0.8
46370.1	10000	41.1083	92.0365	-1019	QK	2.3	-1	6.8	-1	1.2	1	0.317	0	1.732	-1	5.456	-1	1645	39	0.8
46370.0	10000	41.1083	92.0356	-1018	QK	2.3	-1	7.0	0	1.2	1	0.321	0	1.778	-1	5.546	-1	1662	54	0.8
46369.9	10000	41.1083	92.0348	-1016	QK	2.4	-1	7.1	0	1.2	1	0.329	0	1.821	-1	5.539	-1	1662	56	0.8
46369.8	10000	41.1083	92.0340	-1014	QK	2.5	-1	6.9	-1	1.2	1	0.363	0	1.967	-1	5.413	-2	1685	42	0.8
46369.7	10000	41.1083	92.0331	-1013	QK	2.6	-1	7.1	0	1.3	1	0.370	0	2.062	0	5.576	-1	1710	45	0.8
46369.6	10000	41.1083	92.0323	-1010	QK	2.7	0	7.3	0	1.3	1	0.375	0	2.172	0	5.787	-1	1722	42	0.8

LINE 350 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
46369.5	10000	41.1083	92.0315	-1009	QK	2.8	1	7.2	0	1.2	1	0.395	1	2.362	0	5.975	-1	1717	62	0.8
46369.4	10000	41.1083	92.0306	-1007	QK	3.1	1	7.1	0	1.2	1	0.443	1	2.716	0	6.138	0	1718	39	0.8
46369.3	10000	41.1084	92.0298	-1005	QK	3.2	1	7.0	0	1.1	0	0.459	2	2.790	1	6.074	-1	1718	43	0.8
46369.2	10000	41.1084	92.0289	-1002	QK	3.1	1	7.0	0	1.1	0	0.434	1	2.668	1	6.148	0	1739	41	0.8
46369.1	10000	41.1084	92.0281	-999	QK	2.8	1	7.4	0	1.1	0	0.380	0	2.462	0	6.470	0	1729	54	0.8
46369.0	10000	41.1084	92.0273	-996	QK	2.7	0	7.8	1	1.2	0	0.344	0	2.324	0	6.764	0	1718	48	0.8
46368.9	10000	41.1084	92.0264	-993	QK	2.5	0	7.9	1	1.1	0	0.312	-1	2.224	0	7.123	1	1701	46	0.8
46368.8	10000	41.1084	92.0256	-990	QK	2.4	0	7.8	1	1.1	0	0.305	-1	2.085	0	6.828	0	1692	51	0.8
46368.7	10000	41.1084	92.0247	-987	QK	2.1	-1	8.1	1	1.2	1	0.259	-1	1.743	-1	6.732	0	1694	51	0.8
46368.6	10000	41.1084	92.0239	-983	QK	2.0	-1	7.9	1	1.2	0	0.250	-1	1.690	-1	6.759	0	1692	33	0.8
46368.5	10000	41.1084	92.0231	-980	QK	2.0	-1	8.1	1	1.2	1	0.252	-1	1.726	-1	6.860	1	1685	45	0.8
46368.4	10000	41.1084	92.0222	-975	QK	2.2	-1	8.0	1	1.2	1	0.281	-1	1.918	-1	6.829	0	1689	44	0.8
46368.3	10000	41.1084	92.0214	-970	QK	2.3	0	7.7	1	1.2	0	0.299	-1	1.975	-1	6.604	0	1689	52	0.8
46368.2	10000	41.1084	92.0206	-965	QK	2.3	0	7.5	0	1.2	0	0.310	-1	1.986	-1	6.398	0	1698	29	0.8
46368.1	10000	41.1084	92.0197	-961	QK	2.1	-1	7.7	1	1.2	0	0.270	-1	1.769	-1	6.553	0	1713	43	0.8
46368.0	10000	41.1084	92.0189	-956	QK	2.1	-1	8.0	1	1.1	0	0.258	-1	1.836	-1	7.122	1	1705	52	0.8
46367.9	10000	41.1084	92.0180	-952	QK	2.2	-1	8.2	1	1.2	0	0.262	-1	1.879	-1	7.162	1	1709	40	0.8
46367.8	10000	41.1084	92.0172	-947	QK	2.2	-1	8.3	1	1.1	0	0.270	-1	1.956	-1	7.238	1	1712	40	0.8
46367.7	10000	41.1084	92.0164	-942	QK	2.2	-1	8.3	1	1.2	0	0.266	-1	1.836	-1	6.888	1	1716	52	0.8
46367.6	10000	41.1084	92.0155	-938	QK	2.3	-1	8.4	1	1.2	0	0.268	-1	1.923	-1	7.180	1	1710	47	0.8
46367.5	10000	41.1084	92.0147	-933	QK	2.4	0	8.5	1	1.2	0	0.279	-1	2.006	-1	7.177	1	1723	42	0.8
46367.4	10000	41.1085	92.0139	-929	QK	2.6	0	8.6	1	1.2	0	0.301	-1	2.243	0	7.456	1	1724	55	0.8
46367.3	10000	41.1085	92.0130	-924	QK	2.6	0	8.2	1	1.2	0	0.320	0	2.241	0	7.008	1	1737	28	0.8
46367.2	10000	41.1085	92.0122	-919	QK	2.6	0	8.1	1	1.1	0	0.324	0	2.362	0	7.283	1	1730	49	0.8
46367.1	10000	41.1085	92.0113	-915	QK	2.5	0	8.1	1	1.1	0	0.302	-1	2.253	0	7.455	1	1713	48	0.8
46367.0	10000	41.1085	92.0105	-909	QK	2.3	0	7.9	1	1.1	-1	0.294	-1	2.208	0	7.506	1	1698	41	0.8
46366.9	10000	41.1085	92.0097	-905	QK	2.5	0	7.8	1	1.1	0	0.321	0	2.282	0	7.116	1	1682	49	0.8
46366.8	10000	41.1085	92.0088	-900	QK	2.4	0	7.4	0	1.1	0	0.328	0	2.259	0	6.898	1	1657	47	0.8
46366.7	10000	41.1085	92.0080	-895	QK	2.5	0	7.2	0	1.1	0	0.348	0	2.306	0	6.619	0	1664	50	0.8
46366.6	10000	41.1085	92.0071	-890	QK	2.6	0	7.1	0	1.1	0	0.361	0	2.349	0	6.513	0	1651	45	0.8
46366.5	10000	41.1085	92.0063	-885	QK	2.6	0	7.4	0	1.2	0	0.345	0	2.181	0	6.319	0	1658	56	0.8
46366.4	10000	41.1085	92.0055	-880	QK	2.5	0	7.5	0	1.2	1	0.340	0	2.119	0	6.241	0	1680	35	0.8
46366.3	10000	41.1085	92.0046	-875	QK	2.5	0	7.8	1	1.2	1	0.314	-1	2.045	0	6.518	0	1694	42	0.8
46366.2	10000	41.1085	92.0038	-870	QK	2.2	-1	8.2	1	1.2	1	0.266	-1	1.823	-1	6.848	1	1718	38	0.8
46366.1	10000	41.1085	92.0029	-865	QK	2.1	-1	8.7	2	1.2	1	0.242	-2	1.733	-1	7.149	1	1739	37	0.8

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47104.1	10000	41.0283	93.9994	-220	QKA	2.2	-1	6.4	-1	0.9	-1	0.339	0	2.301	0	6.785	0	1602	52	1.1
47104.2	10000	41.0283	93.9986	-223	QKA	2.3	0	6.3	-1	0.9	-1	0.359	0	2.472	0	6.880	0	1596	45	1.1
47104.3	10000	41.0283	93.9977	-225	QKA	2.3	0	6.2	-1	0.9	-1	0.373	1	2.539	1	6.814	0	1598	57	1.1
47104.4	10000	41.0283	93.9969	-227	QKA	2.2	0	6.2	-1	0.9	-1	0.363	0	2.490	0	6.863	0	1580	54	1.1
47104.5	10000	41.0283	93.9960	-229	QKA	2.3	0	5.8	-2	0.9	-1	0.396	1	2.493	0	6.302	0	1569	60	1.1
47104.6	10000	41.0283	93.9952	-231	QKA	2.3	0	6.0	-2	0.9	-1	0.377	1	2.465	0	6.533	0	1566	37	1.1
47104.7	10000	41.0283	93.9944	-233	QKA	2.3	0	6.0	-1	0.9	-1	0.382	1	2.486	0	6.512	0	1544	43	1.1
47104.8	10000	41.0283	93.9935	-235	QKA	2.4	0	6.1	-1	0.9	-1	0.401	1	2.633	1	6.565	0	1535	37	1.1
47104.9	10000	41.0283	93.9927	-237	QKA	2.3	0	6.3	-1	1.0	-1	0.358	0	2.327	0	6.501	0	1536	61	1.1
47105.0	10000	41.0283	93.9919	-240	QKA	2.3	0	6.7	-1	1.0	-1	0.336	0	2.259	0	6.714	0	1537	37	1.1
47105.1	10000	41.0283	93.9910	-242	QKA	2.2	0	6.9	0	1.0	0	0.323	0	2.121	0	6.560	0	1557	39	1.1
47105.2	10000	41.0283	93.9902	-244	QKA	2.4	0	7.0	0	1.0	0	0.339	0	2.338	0	6.903	0	1565	51	1.1
47105.3	10000	41.0283	93.9894	-247	QKA	2.3	0	6.7	-1	1.0	0	0.347	0	2.292	0	6.610	0	1562	34	1.1
47105.4	10000	41.0283	93.9885	-250	QKA	2.5	0	6.5	-1	1.0	0	0.376	1	2.397	0	6.373	0	1568	40	1.1
47105.5	10000	41.0283	93.9877	-254	QKA	2.3	0	6.9	0	1.0	0	0.335	0	2.231	0	6.669	0	1577	42	1.1
47105.6	10000	41.0283	93.9869	-257	QKA	2.4	0	6.8	0	1.0	-1	0.348	0	2.374	0	6.821	0	1566	36	1.1
47105.7	10000	41.0283	93.9861	-260	QKA	2.1	-1	6.6	-1	1.0	-1	0.321	0	2.200	0	6.849	0	1543	48	1.1
47105.8	10000	41.0283	93.9852	-263	QKA	2.2	0	6.6	-1	1.0	-1	0.341	0	2.338	0	6.858	0	1524	49	1.1
47105.9	10000	41.0283	93.9844	-265	QKA	1.8	-1	6.7	-1	1.0	-1	0.274	-1	1.890	-1	6.899	0	1499	55	1.1
47106.0	10000	41.0283	93.9836	-267	QKA	1.9	-1	6.6	-1	1.0	-1	0.290	-1	1.954	-1	6.731	0	1498	63	1.1
47106.1	10000	41.0283	93.9827	-270	QKA	1.9	-1	6.5	-1	1.0	-1	0.286	-1	1.909	-1	6.680	0	1497	55	1.1
47106.2	10000	41.0283	93.9819	-273	QKA	2.2	-1	6.1	-1	0.9	-1	0.356	0	2.288	0	6.431	0	1498	41	1.1
47106.3	10000	41.0283	93.9810	-275	QKA	2.1	-1	6.3	-1	1.0	-1	0.326	0	2.153	0	6.606	0	1518	44	1.1
47106.4	10000	41.0283	93.9802	-277	QKA	2.2	0	6.2	-1	0.9	-1	0.358	0	2.384	0	6.662	0	1540	40	1.1
47106.5	10000	41.0283	93.9794	-279	QKA	2.4	0	6.6	-1	0.9	-1	0.365	0	2.668	1	7.301	1	1554	48	1.1
47106.6	10000	41.0283	93.9785	-282	QKA	2.5	0	6.9	-1	0.9	-1	0.363	0	2.851	1	7.854	2	1578	40	1.2
47106.7	10000	41.0283	93.9777	-284	QKA	2.5	0	7.2	-1	0.8	-2	0.345	0	2.941	1	8.531	3	1594	45	1.2
47106.8	10000	41.0283	93.9769	-287	QKA	2.3	0	7.5	-2	0.8	-2	0.311	0	2.806	1	9.017	3	1608	40	1.2
47106.9	10000	41.0283	93.9760	-289	QKA	2.3	0	7.8	-1	0.9	-1	0.297	-1	2.617	1	8.808	3	1625	45	1.2
47107.0	10000	41.0282	93.9752	-291	QKA	2.3	0	7.3	-1	0.9	-1	0.320	0	2.550	1	7.968	2	1624	43	1.2
47107.1	10000	41.0282	93.9744	-293	QKA	2.5	0	7.4	-1	0.9	-1	0.337	0	2.715	1	8.065	2	1618	50	1.2
47107.2	10000	41.0282	93.9735	-295	QKA	2.2	0	6.9	-1	0.9	-1	0.315	0	2.327	1	7.384	2	1612	57	1.2
47107.3	10000	41.0282	93.9727	-297	QKA	2.3	0	6.9	-1	0.9	-1	0.340	0	2.565	1	7.534	2	1598	51	1.2
47107.4	10000	41.0282	93.9719	-299	QKA	2.3	0	6.5	-1	0.9	-1	0.354	0	2.469	1	6.971	2	1592	59	1.2
47107.5	10000	41.0282	93.9711	-301	QKA	2.5	0	6.5	-1	0.9	-1	0.386	1	2.673	1	6.919	2	1591	37	1.2
47107.6	10000	41.0282	93.9702	-303	QKA	2.4	0	6.3	-1	0.9	-1	0.385	1	2.616	1	6.803	2	1582	45	1.2
47107.7	10000	41.0282	93.9694	-305	QKA	2.6	0	6.5	-1	0.9	-1	0.406	1	2.979	1	7.339	2	1594	48	1.2
47107.8	10000	41.0282	93.9686	-307	QKA	2.6	0	6.6	-1	0.9	-1	0.391	1	2.858	1	7.317	2	1606	59	1.2
47107.9	10000	41.0282	93.9677	-309	QKA	2.8	0	7.1	-1	0.9	-1	0.391	1	3.133	2	8.009	3	1620	38	1.2
47108.0	10000	41.0282	93.9669	-311	QKA	2.7	0	6.9	-1	0.9	-1	0.393	1	3.018	2	7.680	2	1641	35	1.2
47108.1	10000	41.0282	93.9660	-312	QKA	2.7	0	7.7	-1	0.9	-1	0.359	1	3.108	2	8.668	3	1655	51	1.2
47108.2	10000	41.0282	93.9652	-314	QKA	2.6	0	7.6	-1	0.9	-1	0.342	0	2.930	2	8.572	3	1654	51	1.2
47108.3	10000	41.0282	93.9644	-316	QKA	2.6	0	7.9	-1	0.9	-1	0.330	0	2.948	2	8.930	3	1661	45	1.2
47108.4	10000	41.0282	93.9635	-318	QKA	2.5	0	7.8	-1	0.9	-1	0.327	0	2.801	2	8.557	3	1662	58	1.2
47108.5	10000	41.0282	93.9627	-320	QKA	2.6	0	7.9	-1	1.0	-1	0.329	0	2.757	2	8.384	3	1680	52	1.2
47108.6	10000	41.0282	93.9619	-321	QKA	2.6	0	7.6	-1	1.0	-1	0.344	0	2.744	2	7.983	3	1700	52	1.2
47108.7	10000	41.0282	93.9610	-323	QKA	2.5	0	7.3	-1	1.0	-1	0.318	0	2.529	2	7.960	3	1721	54	1.2
47108.8	10000	41.0282	93.9602	-325	QKA	2.6	0	7.3	-1	1.0	-1	0.357	0	2.561	2	7.182	3	1728	41	1.2
47108.9	10000	41.0282	93.9594	-326	QKA	2.7	0	7.3	-1	1.1	-1	0.364	0	2.453	2	6.743	2	1742	46	1.2
47109.0	10000	41.0282	93.9585	-328	QKA	2.8	0	7.3	-1	1.1	-1	0.371	0	2.439	2	6.580	2	1745	42	1.2
47109.1	10000	41.0282	93.9577	-329	QKA	2.8	0	7.2	-1	1.1	-1	0.393	0	2.536	2	6.458	2	1747	45	1.2
47109.2	10000	41.0282	93.9569	-330	QKA	2.8	1	6.9	0	1.1	-1	0.398	0	2.473	2	6.222	2	1732	54	1.2

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47109.3	10000	41.0282	93.9560	-332	QKA	2.7	1	6.7	-1	1.1	0	0.410	1	2.419	0	5.894	-1	1728	47	1.2
47109.4	10000	41.0282	93.9552	-333	QKA	2.8	1	6.6	-1	1.2	1	0.425	1	2.378	0	5.600	-1	1712	52	1.2
47109.5	10000	41.0282	93.9544	-334	QKA	2.7	1	6.6	-1	1.2	1	0.409	1	2.343	0	5.722	-1	1706	33	1.2
47109.6	10000	41.0281	93.9536	-336	QKA	2.8	1	6.8	0	1.1	0	0.408	1	2.447	0	5.998	-1	1720	53	1.2
47109.7	10000	41.0281	93.9527	-338	QKA	3.0	1	6.4	-1	1.1	0	0.462	2	2.588	1	5.600	-1	1732	48	1.2
47109.8	10000	41.0281	93.9519	-340	QKA	2.6	0	6.7	-1	1.1	0	0.392	1	2.326	0	5.934	-1	1736	40	1.2
47109.9	10000	41.0281	93.9510	-341	QKA	2.8	1	6.8	0	1.1	0	0.403	1	2.444	0	6.070	-1	1740	42	1.2
47110.0	10000	41.0281	93.9502	-343	QKA	2.8	1	7.1	0	1.1	0	0.396	1	2.502	1	6.321	0	1742	40	1.2
47110.1	10000	41.0281	93.9494	-344	QKA	3.0	1	7.2	0	1.1	0	0.417	1	2.803	1	6.723	0	1755	47	1.2
47110.2	10000	41.0281	93.9485	-345	QKA	3.0	1	7.4	0	1.0	0	0.402	1	2.823	1	7.018	0	1737	43	1.2
47110.3	10000	41.0281	93.9477	-347	QKA	3.0	1	7.2	0	1.0	-1	0.415	1	3.008	2	7.252	1	1704	38	1.2
47110.4	10000	41.0281	93.9469	-349	QKA	3.0	1	7.4	0	0.9	-1	0.407	1	3.178	2	7.802	1	1696	37	1.2
47110.5	10000	41.0281	93.9460	-349	QKA	3.1	1	7.4	0	0.9	-1	0.419	1	3.316	2	7.919	2	1676	53	1.2
47110.6	10000	41.0281	93.9452	-350	QKA	2.9	1	7.2	0	0.9	-1	0.406	1	3.205	2	7.894	1	1669	49	1.2
47110.7	10000	41.0281	93.9444	-351	QKA	2.9	1	7.2	0	0.9	-2	0.403	1	3.358	2	8.339	2	1634	52	1.2
47110.8	10000	41.0281	93.9435	-352	QKA	2.8	1	6.8	0	0.8	-2	0.402	1	3.259	2	8.105	2	1600	47	1.2
47110.9	10000	41.0281	93.9427	-354	QKA	2.8	1	6.6	-1	0.8	-2	0.418	1	3.236	2	7.737	1	1592	54	1.2
47111.0	10000	41.0281	93.9419	-357	QKA	2.6	1	6.3	-1	0.9	-1	0.417	1	2.951	1	7.072	0	1598	36	1.2
47111.1	10000	41.0281	93.9410	-359	QKA	2.3	0	6.6	-1	0.9	-1	0.353	0	2.549	1	7.216	1	1592	53	1.2
47111.2	10000	41.0281	93.9402	-361	QKA	2.4	0	6.5	-1	0.9	-1	0.374	0	2.600	1	6.944	0	1598	39	1.2
47111.3	10000	41.0281	93.9394	-363	QKA	2.4	0	6.6	-1	1.0	-1	0.359	0	2.417	0	6.733	0	1608	55	1.2
47111.4	10000	41.0281	93.9386	-365	QKA	2.4	0	6.9	0	1.0	0	0.342	0	2.316	0	6.780	0	1624	56	1.2
47111.5	10000	41.0281	93.9377	-367	QKA	2.3	0	6.9	0	1.0	0	0.340	0	2.283	0	6.716	0	1637	53	1.2
47111.6	10000	41.0281	93.9369	-368	QKA	2.5	0	7.1	0	1.0	0	0.347	0	2.406	0	6.927	0	1651	48	1.2
47111.7	10000	41.0281	93.9361	-370	QKA	2.6	0	7.1	0	1.0	-1	0.362	1	2.581	1	7.130	1	1643	51	1.2
47111.8	10000	41.0281	93.9352	-372	QKA	2.7	1	6.8	0	0.9	-1	0.392	1	2.834	1	7.232	1	1638	35	1.2
47111.9	10000	41.0280	93.9344	-374	QKA	2.5	0	7.1	0	0.9	-1	0.355	1	2.771	1	7.814	1	1641	53	1.2
47112.0	10000	41.0280	93.9335	-377	QKA	2.6	1	6.9	0	0.9	-2	0.374	1	3.161	2	8.461	2	1613	45	1.2
47112.1	10000	41.0280	93.9327	-379	QKA	2.6	1	6.7	0	0.8	-2	0.381	1	3.156	2	8.273	2	1616	48	1.2
47112.2	10000	41.0280	93.9319	-381	QKA	2.5	1	7.0	0	0.9	-2	0.355	1	2.847	1	8.021	2	1633	56	1.2
47112.3	10000	41.0280	93.9310	-383	QKA	2.3	1	7.0	0	0.9	-1	0.322	1	2.477	1	7.697	1	1633	41	1.2
47112.4	10000	41.0280	93.9302	-385	QKA	2.2	1	7.1	0	0.9	-1	0.311	1	2.341	1	7.532	1	1644	39	1.2
47112.5	10000	41.0280	93.9294	-387	QKA	2.1	1	7.5	0	1.0	-1	0.276	1	2.089	1	7.568	1	1638	42	1.2
47112.6	10000	41.0280	93.9285	-389	QKA	2.0	1	7.4	0	1.0	-1	0.275	1	2.065	1	7.502	1	1630	48	1.2
47112.7	10000	41.0280	93.9277	-391	QKA	1.9	1	7.5	0	1.1	-1	0.259	1	1.844	-1	7.131	1	1639	41	1.2
47112.8	10000	41.0280	93.9269	-392	QKA	2.1	1	7.3	0	1.1	-1	0.293	1	2.082	1	7.100	1	1632	40	1.2
47112.9	10000	41.0280	93.9260	-394	QKA	2.0	1	7.0	0	1.1	-1	0.291	1	2.148	1	7.370	1	1606	52	1.2
47113.0	10000	41.0280	93.9252	-394	QKA	2.0	1	6.8	0	1.1	-1	0.300	1	2.241	1	7.459	1	1597	50	1.2
47113.1	10000	41.0280	93.9244	-394	QKA	1.8	1	7.1	0	1.1	-1	0.260	1	1.995	-1	7.681	1	1598	58	1.2
47113.2	10000	41.0280	93.9236	-398	QKA	1.8	1	7.1	0	1.1	-1	0.258	1	1.930	-1	7.491	1	1614	54	1.2
47113.3	10000	41.0280	93.9227	-401	QKA	1.8	1	7.2	0	1.1	-1	0.252	1	1.817	-1	7.205	1	1642	49	1.2
47113.4	10000	41.0280	93.9219	-404	QKA	2.0	1	7.5	0	1.1	-1	0.269	1	1.931	-1	7.177	1	1677	55	1.2
47113.5	10000	41.0280	93.9211	-406	QKA	1.8	1	7.8	0	1.1	-2	0.229	1	1.655	-1	7.234	1	1697	35	1.2
47113.6	10000	41.0280	93.9202	-407	QKA	1.9	1	8.4	0	1.1	-2	0.228	1	1.751	-1	7.684	1	1725	48	1.2
47113.7	10000	41.0280	93.9194	-409	QKA	2.1	1	8.8	0	1.1	-1	0.236	1	1.926	-1	8.177	2	1732	54	1.2
47113.8	10000	41.0280	93.9185	-411	QKA	2.4	1	8.8	0	1.1	-1	0.272	1	2.271	1	8.350	2	1739	45	1.2
47113.9	10000	41.0280	93.9177	-413	QKA	2.4	1	8.8	0	1.1	-1	0.274	1	2.364	1	8.626	2	1734	45	1.2
47114.0	10000	41.0280	93.9169	-414	QKA	2.5	1	8.8	0	1.1	-2	0.303	1	2.735	1	9.013	3	1713	37	1.2
47114.1	10000	41.0280	93.9160	-416	QKA	2.6	1	8.8	0	1.1	-2	0.314	1	2.914	1	9.269	3	1682	50	1.2
47114.2	10000	41.0280	93.9152	-417	QKA	2.6	1	8.8	0	1.1	-2	0.320	1	2.903	1	9.070	3	1663	37	1.2
47114.3	10000	41.0280	93.9143	-418	QKA	2.7	1	8.8	0	1.1	-1	0.371	1	2.998	1	8.090	2	1642	54	1.2
47114.4	10000	41.0280	93.9135	-420	QKA	2.6	1	7.0	0	0.9	-1	0.372	0	2.773	1	7.450	1	1640	49	1.2

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47114.5	10000	41.0280	93.9126	-422	QKA	2.2	0	6.9	0	0.9	-1	0.313	0	2.318	0	7.401	1	1618	46	1.2
47114.6	10000	41.0280	93.9117	-422	QKA	2.2	0	6.9	0	1.0	-1	0.321	0	2.307	0	7.196	1	1600	44	1.2
47114.7	10000	41.0280	93.9109	-424	QKA	2.2	-1	6.8	0	1.0	-1	0.317	0	2.179	0	6.864	0	1593	29	1.2
47114.8	10000	41.0280	93.9100	-425	QKA	2.0	-1	6.8	0	1.0	-1	0.290	-1	2.026	0	6.986	0	1587	46	1.2
47114.9	10000	41.0281	93.9091	-426	QKA	1.9	-1	6.9	0	0.9	-1	0.276	-1	2.081	0	7.546	1	1583	36	1.2
47115.0	10000	41.0281	93.9083	-428	QKA	1.8	-1	7.1	0	0.8	-2	0.250	-1	2.094	0	8.390	2	1586	65	1.2
47115.1	10000	41.0281	93.9074	-429	QKA	1.6	-2	7.4	0	0.8	-2	0.215	-2	1.949	-1	9.071	3	1575	48	1.2
47115.2	10000	41.0281	93.9065	-430	QKA	1.9	-1	7.6	1	0.8	-2	0.258	-1	2.447	0	9.503	3	1568	58	1.2
47115.3	10000	41.0281	93.9057	-430	QKA	1.9	-1	7.6	1	0.8	-2	0.250	-1	2.368	0	9.481	3	1557	41	1.2
47115.4	10000	41.0281	93.9048	-430	QKA	1.8	-1	7.6	1	0.8	-2	0.234	-1	2.216	0	9.462	3	1541	47	1.2
47115.5	10000	41.0281	93.9039	-430	QKA	1.8	-1	7.4	1	0.8	-2	0.237	-1	2.202	0	9.300	3	1527	32	1.2
47115.6	10000	41.0281	93.9031	-430	QKA	2.1	-1	7.2	0	0.8	-2	0.287	-1	2.560	1	8.912	3	1529	43	1.2
47115.7	10000	41.0281	93.9022	-430	QKA	2.0	-1	7.2	0	0.9	-2	0.277	-1	2.318	0	8.377	2	1513	41	1.2
47115.8	10000	41.0281	93.9014	-430	QKA	1.9	-1	7.0	0	0.9	-2	0.278	-1	2.243	0	8.058	2	1515	46	1.2
47115.9	10000	41.0282	93.9005	-430	QKA	2.0	-1	6.8	0	0.9	-1	0.285	-1	2.179	0	7.634	1	1519	50	1.2
47116.0	10000	41.0282	93.8996	-429	QKA	2.1	-1	6.9	0	0.9	-1	0.312	0	2.355	0	7.555	1	1536	40	1.2
47116.1	10000	41.0282	93.8988	-429	QKA	2.2	0	7.0	0	0.9	-1	0.316	0	2.511	1	7.951	2	1559	55	1.2
47116.2	10000	41.0282	93.8979	-429	QKA	2.5	0	7.0	0	0.9	-1	0.353	0	2.758	1	7.817	1	1583	53	1.2
47116.3	10000	41.0282	93.8970	-428	QKA	2.3	0	7.1	0	0.9	-1	0.319	0	2.423	0	7.598	1	1592	49	1.2
47116.4	10000	41.0282	93.8962	-426	QKA	2.4	1	7.2	0	1.0	-1	0.337	0	2.520	1	7.475	1	1617	47	1.1
47116.5	10000	41.0282	93.8953	-423	QKA	2.8	1	7.0	0	1.0	-1	0.398	1	2.877	1	7.228	1	1644	40	1.1
47116.6	10000	41.0282	93.8944	-416	QKA	2.8	1	7.1	0	1.0	-1	0.395	1	2.813	1	7.120	1	1682	51	1.1
47116.7	10000	41.0283	93.8936	-415	QKA	2.8	1	7.2	0	1.0	-1	0.396	1	2.888	1	7.285	1	1692	58	1.1
47116.8	10000	41.0283	93.8927	-423	QKA	2.9	1	7.0	0	1.0	-1	0.418	1	2.924	1	6.995	0	1693	54	1.1
47116.9	10000	41.0283	93.8918	-425	QKA	2.8	1	7.4	0	1.0	-1	0.381	1	2.805	1	7.369	1	1707	50	1.1
47117.0	10000	41.0283	93.8910	-425	QKA	2.8	1	7.6	1	1.0	0	0.371	0	2.766	1	7.455	1	1709	44	1.1
47117.1	10000	41.0283	93.8901	-425	QKA	2.7	1	7.4	0	1.0	-1	0.362	0	2.670	1	7.378	1	1707	46	1.1
47117.2	10000	41.0283	93.8893	-424	QKA	2.5	1	7.6	1	1.0	-1	0.330	0	2.477	1	7.496	1	1702	45	1.1
47117.3	10000	41.0283	93.8884	-423	QKA	2.6	1	7.8	1	1.0	-1	0.333	0	2.627	1	7.893	1	1683	49	1.1
47117.4	10000	41.0283	93.8875	-422	QKA	2.4	1	8.0	1	1.0	-1	0.295	-1	2.397	1	8.112	2	1679	40	1.1
47117.5	10000	41.0283	93.8867	-420	QKA	2.2	1	8.0	1	1.0	-1	0.280	-1	2.205	1	7.874	1	1671	28	1.1
47117.6	10000	41.0284	93.8858	-417	QKA	2.3	1	7.8	1	1.0	-1	0.294	-1	2.284	1	7.755	1	1658	55	1.1
47117.7	10000	41.0284	93.8849	-412	QKA	2.3	1	7.7	1	1.0	-1	0.304	-1	2.337	1	7.700	1	1658	44	1.1
47117.8	10000	41.0284	93.8841	-412	QKA	2.8	1	7.8	1	1.0	-1	0.353	0	2.877	2	8.148	2	1652	47	1.1
47117.9	10000	41.0284	93.8832	-413	QKA	2.6	1	7.7	1	0.9	-1	0.338	0	2.759	2	8.163	2	1661	52	1.1
47118.0	10000	41.0284	93.8823	-413	QKA	2.6	1	7.4	1	1.0	-1	0.349	0	2.711	1	7.776	1	1670	43	1.1
47118.1	10000	41.0284	93.8815	-411	QKA	2.6	1	7.1	1	1.0	-1	0.364	0	2.630	1	7.232	1	1678	54	1.0
47118.2	10000	41.0284	93.8806	-409	QKA	3.1	1	7.6	1	1.0	-1	0.436	0	3.146	2	7.213	1	1707	53	1.0
47118.3	10000	41.0284	93.8797	-407	QKA	3.1	2	7.9	1	1.0	0	0.454	0	3.059	2	6.741	0	1726	44	1.0
47118.4	10000	41.0284	93.8789	-404	QKA	3.2	2	8.0	1	1.1	0	0.451	0	3.029	2	6.719	0	1743	49	1.0
47118.5	10000	41.0285	93.8780	-402	QKA	3.0	2	8.1	1	1.1	0	0.439	0	2.655	2	6.042	-1	1749	47	1.0
47118.6	10000	41.0285	93.8772	-399	QKA	3.1	2	8.2	1	1.2	0	0.457	0	2.706	2	5.923	-1	1755	45	1.0
47118.7	10000	41.0285	93.8763	-396	QKA	3.0	2	8.2	1	1.2	0	0.432	0	2.541	2	5.877	-1	1760	55	1.0
47118.8	10000	41.0285	93.8754	-394	QKA	3.3	2	8.2	1	1.2	0	0.459	0	2.687	2	5.857	-1	1784	47	1.0
47118.9	10000	41.0285	93.8746	-391	QKA	3.0	2	8.2	1	1.2	0	0.420	0	2.501	2	5.961	-1	1775	47	1.0
47119.0	10000	41.0285	93.8737	-388	QKA	2.9	2	8.1	1	1.1	0	0.414	0	2.492	2	6.013	-1	1760	37	1.0
47119.1	10000	41.0285	93.8728	-385	QKA	2.8	2	8.1	1	1.1	0	0.418	0	2.510	2	6.000	-1	1759	45	1.0
47119.2	10000	41.0285	93.8720	-383	QKA	2.9	2	8.1	1	1.1	0	0.393	0	2.448	2	6.230	-1	1768	56	1.0
47119.3	10000	41.0285	93.8711	-380	QKA	2.8	2	8.1	1	1.1	0	0.418	0	2.638	2	6.310	-1	1758	45	1.0
47119.4	10000	41.0285	93.8702	-378	QKA	2.8	2	8.1	1	1.1	0	0.376	0	2.609	2	6.935	0	1759	28	1.0
47119.5	10000	41.0286	93.8694	-375	QKA	2.8	2	8.1	1	1.1	0	0.381	0	2.581	2	6.779	0	1726	56	0.9
47119.6	10000	41.0286	93.8685	-373	QKA	2.4	2	7.5	0	1.1	0	0.320	0	2.184	2	6.822	0	1702	42	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47119.7	10000	41.0286	93.8676	-370	QKA	2.4	0	8.1	1	1.1	0	0.304	0	2.301	0	7.566	1	1695	56	0.9
47119.8	10000	41.0286	93.8668	-368	QKA	2.5	0	8.1	1	1.1	0	0.312	0	2.387	0	7.651	1	1669	42	0.9
47119.9	10000	41.0286	93.8659	-366	QKA	2.5	0	8.0	1	1.0	-1	0.315	0	2.559	1	8.132	2	1650	52	0.9
47120.0	10000	41.0286	93.8651	-364	QKA	2.4	0	8.1	1	1.0	-1	0.301	-1	2.440	0	8.118	2	1619	61	0.9
47120.1	10000	41.0286	93.8642	-362	QKA	2.4	0	7.2	0	1.0	-1	0.334	0	2.444	0	7.311	1	1600	47	0.9
47120.2	10000	41.0286	93.8633	-360	QKA	2.4	0	7.4	0	1.0	-1	0.323	0	2.454	0	7.604	1	1591	47	0.9
47120.3	10000	41.0286	93.8625	-359	QKA	2.7	1	7.2	0	1.0	-1	0.375	1	2.792	1	7.440	1	1605	32	0.9
47120.4	10000	41.0287	93.8616	-357	QKA	2.6	0	7.0	0	1.0	-1	0.364	0	2.663	1	7.318	1	1620	53	0.9
47120.5	10000	41.0287	93.8607	-355	QKA	2.6	0	7.0	0	1.0	-1	0.374	1	2.645	1	7.065	0	1649	44	0.9
47120.6	10000	41.0287	93.8599	-354	QKA	2.8	1	7.2	0	1.1	0	0.382	1	2.563	1	6.710	0	1670	41	0.9
47120.7	10000	41.0287	93.8590	-353	QKA	2.8	1	7.4	0	1.1	0	0.373	1	2.465	0	6.615	0	1703	27	0.9
47120.8	10000	41.0287	93.8581	-351	QKA	2.8	1	7.6	1	1.2	1	0.375	1	2.446	0	6.522	0	1729	49	0.9
47120.9	10000	41.0287	93.8573	-350	QKA	2.8	1	7.6	1	1.1	0	0.366	0	2.468	0	6.743	0	1731	51	0.9
47121.0	10000	41.0287	93.8564	-349	QKA	2.7	1	8.1	1	1.1	0	0.329	0	2.426	0	7.369	1	1722	45	0.9
47121.1	10000	41.0287	93.8555	-349	QKA	2.5	0	8.0	1	1.1	0	0.309	0	2.266	0	7.339	1	1700	53	0.9
47121.2	10000	41.0287	93.8547	-347	QKA	2.3	0	8.0	1	1.1	0	0.283	-1	2.050	0	7.253	1	1671	43	0.8
47121.3	10000	41.0287	93.8538	-347	QKA	2.2	0	7.9	1	1.0	0	0.282	-1	2.134	0	7.561	1	1655	41	0.8
47121.4	10000	41.0288	93.8530	-347	QKA	2.2	-1	7.8	1	1.0	-1	0.276	-1	2.174	0	7.855	1	1636	36	0.8
47121.5	10000	41.0288	93.8521	-347	QKA	2.2	0	7.6	1	0.9	-1	0.288	-1	2.347	0	8.137	2	1604	50	0.8
47121.6	10000	41.0288	93.8512	-347	QKA	2.4	0	7.8	1	1.0	-1	0.303	-1	2.485	0	8.200	2	1612	47	0.8
47121.7	10000	41.0288	93.8504	-347	QKA	2.2	0	7.6	1	1.0	-1	0.294	-1	2.295	0	7.814	1	1618	45	0.8
47121.8	10000	41.0288	93.8495	-346	QKA	2.5	0	8.0	1	1.0	0	0.312	0	2.394	0	7.668	1	1644	43	0.8
47121.9	10000	41.0288	93.8486	-346	QKA	2.5	0	8.1	1	1.0	-1	0.311	0	2.519	1	8.096	2	1673	52	0.8
47122.0	10000	41.0288	93.8478	-346	QKA	2.4	0	8.3	2	1.0	-1	0.291	-1	2.449	1	8.418	2	1687	49	0.8
47122.1	10000	41.0288	93.8469	-347	QKA	2.5	0	8.2	1	1.0	0	0.299	-1	2.380	0	7.969	2	1698	43	0.8
47122.2	10000	41.0288	93.8460	-348	QKA	2.5	0	8.3	2	1.1	0	0.302	-1	2.361	0	7.824	1	1707	54	0.8
47122.3	10000	41.0289	93.8452	-348	QKA	2.4	0	8.1	1	1.1	0	0.296	-1	2.267	0	7.657	1	1713	49	0.8
47122.4	10000	41.0289	93.8443	-347	QKA	2.7	0	8.0	1	1.1	0	0.337	0	2.527	1	7.488	1	1719	45	0.8
47122.5	10000	41.0289	93.8434	-347	QKA	2.7	0	7.8	1	1.1	0	0.369	0	2.653	1	7.186	1	1710	57	0.8
47122.6	10000	41.0289	93.8426	-348	QKA	2.8	0	7.7	1	1.1	0	0.368	0	2.800	1	7.606	1	1686	47	0.8
47122.7	10000	41.0289	93.8417	-349	QKA	3.0	1	7.8	1	1.1	0	0.383	0	3.070	1	8.019	2	1676	51	0.8
47122.8	10000	41.0289	93.8409	-351	QKA	2.9	1	7.8	1	1.0	0	0.376	0	3.379	1	8.987	3	1682	34	0.8
47122.9	10000	41.0289	93.8400	-352	QKA	2.9	1	8.0	1	0.9	0	0.350	0	3.391	1	9.689	4	1688	42	0.9
47123.0	10000	41.0289	93.8391	-354	QKA	3.1	1	8.3	2	0.9	0	0.369	0	3.613	1	9.798	4	1695	37	0.9
47123.1	10000	41.0289	93.8383	-355	QKA	3.3	1	8.4	2	0.8	0	0.389	0	4.037	1	10.384	5	1685	47	0.9
47123.2	10000	41.0290	93.8374	-357	QKA	3.3	1	8.5	2	0.8	0	0.389	0	3.990	1	10.254	5	1685	41	0.9
47123.3	10000	41.0290	93.8365	-358	QKA	3.1	1	7.7	2	0.9	0	0.402	0	3.795	1	9.452	4	1687	50	0.9
47123.4	10000	41.0290	93.8357	-360	QKA	3.1	1	7.8	2	0.9	0	0.398	0	3.363	1	8.458	3	1692	42	0.9
47123.5	10000	41.0290	93.8348	-362	QKA	3.0	1	7.7	2	0.9	0	0.402	0	3.019	1	7.509	3	1662	56	0.9
47123.6	10000	41.0290	93.8339	-363	QKA	2.9	1	7.7	2	0.9	0	0.427	0	3.301	1	7.724	3	1656	41	0.9
47123.7	10000	41.0290	93.8331	-364	QKA	2.9	1	7.7	2	1.0	0	0.422	0	3.179	1	7.532	3	1629	53	0.9
47123.8	10000	41.0290	93.8322	-366	QKA	2.9	1	7.7	2	1.0	0	0.372	0	2.671	1	7.182	3	1645	52	0.9
47123.9	10000	41.0290	93.8313	-367	QKA	2.9	1	7.7	2	1.0	0	0.317	0	2.317	1	7.317	3	1644	43	0.9
47124.0	10000	41.0290	93.8305	-368	QKA	2.9	1	7.7	2	1.0	0	0.314	0	2.281	1	7.259	3	1669	40	0.9
47124.1	10000	41.0290	93.8296	-370	QKA	2.9	1	7.7	2	1.0	0	0.328	0	2.196	1	6.704	3	1683	55	0.9
47124.2	10000	41.0291	93.8288	-373	QKA	2.9	1	7.7	2	1.0	0	0.340	0	2.286	1	6.722	3	1709	48	0.9
47124.3	10000	41.0291	93.8279	-374	QKA	2.9	1	7.7	2	1.0	0	0.333	0	2.113	1	6.338	3	1708	42	0.9
47124.4	10000	41.0291	93.8270	-376	QKA	2.9	1	7.7	2	1.0	0	0.331	0	2.143	1	6.464	3	1721	52	0.9
47124.5	10000	41.0291	93.8262	-378	QKA	2.9	1	7.7	2	1.0	0	0.350	0	2.221	1	6.339	3	1702	44	0.9
47124.6	10000	41.0291	93.8253	-381	QKA	2.9	1	7.7	2	1.0	0	0.344	0	2.213	1	6.434	3	1696	45	0.9
47124.7	10000	41.0291	93.8244	-383	QKA	2.9	1	7.7	2	1.0	0	0.342	0	2.249	1	6.574	3	1690	47	0.9
47124.8	10000	41.0291	93.8236	-385	QKA	2.9	1	7.7	2	1.0	0	0.330	0	2.323	1	7.041	3	1667	42	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47124.9	10000	41.0291	93.8227	-387	QKA	2.4	0	7.3	0	1.0	-1	0.331	0	2.477	0	7.483	1	1646	48	0.9
47125.0	10000	41.0291	93.8218	-389	QKA	2.4	0	7.6	1	1.0	-1	0.310	0	2.406	0	7.766	1	1642	44	0.9
47125.1	10000	41.0292	93.8210	-391	QKA	2.3	0	7.2	0	1.0	-1	0.322	0	2.327	0	7.234	1	1637	51	1.0
47125.2	10000	41.0292	93.8201	-393	QKA	2.3	0	7.5	0	1.0	-1	0.301	-1	2.253	0	7.473	1	1633	55	1.0
47125.3	10000	41.0292	93.8193	-395	QKA	2.3	0	7.1	0	1.0	0	0.323	0	2.265	0	7.016	0	1634	41	1.0
47125.4	10000	41.0292	93.8184	-396	QKA	2.4	0	6.9	0	1.0	-1	0.351	0	2.476	0	7.055	0	1621	44	1.0
47125.5	10000	41.0292	93.8175	-398	QKA	2.5	0	7.2	0	1.0	-1	0.348	0	2.562	1	7.355	1	1610	47	1.0
47125.6	10000	41.0292	93.8167	-399	QKA	2.4	0	6.7	-1	1.0	-1	0.357	0	2.487	0	6.958	0	1602	53	1.0
47125.7	10000	41.0292	93.8158	-400	QKA	2.5	0	6.7	-1	1.0	-1	0.378	1	2.554	1	6.758	0	1604	38	1.0
47125.8	10000	41.0292	93.8149	-401	QKA	2.2	0	7.1	0	1.0	-1	0.316	0	2.362	0	7.485	1	1590	41	1.0
47125.9	10000	41.0292	93.8141	-401	QKA	2.3	0	7.1	0	0.9	-1	0.325	0	2.460	0	7.575	1	1566	51	1.0
47126.0	10000	41.0292	93.8132	-401	QKA	2.6	0	7.3	0	0.9	-1	0.349	0	2.898	1	8.306	2	1538	46	1.0
47126.1	10000	41.0293	93.8123	-401	QKA	2.3	0	7.2	0	0.9	-2	0.327	0	2.736	1	8.355	2	1493	56	1.0
47126.2	10000	41.0293	93.8115	-401	QKA	2.3	0	6.6	-1	0.8	-2	0.352	0	2.762	1	7.840	1	1450	42	1.0
47126.3	10000	41.0293	93.8106	-401	QKA	2.3	0	6.5	-1	0.8	-2	0.346	0	2.900	1	8.394	2	1400	46	1.0
47126.4	10000	41.0293	93.8098	-401	QKA	2.2	0	6.5	-1	0.7	-3	0.340	0	3.123	2	9.184	3	1350	45	1.0
47126.5	10000	41.0293	93.8089	-400	QKA	2.3	0	6.2	-1	0.7	-3	0.375	1	3.360	2	8.970	3	1330	50	1.1
47126.6	10000	41.0293	93.8080	-400	QKA	2.3	0	5.9	-2	0.7	-3	0.384	1	3.102	2	8.071	2	1336	52	1.1
47126.7	10000	41.0293	93.8072	-399	QKA	2.0	-1	5.6	-2	0.8	-2	0.361	0	2.668	1	7.387	1	1334	36	1.1
47126.8	10000	41.0293	93.8063	-397	QKA	1.8	-1	5.5	-2	0.8	-2	0.332	0	2.268	0	6.828	0	1349	52	1.1
47126.9	10000	41.0293	93.8054	-397	QKA	1.6	-2	5.8	-2	0.8	-2	0.273	-1	1.890	-1	6.919	0	1363	50	1.1
47127.0	10000	41.0294	93.8046	-396	QKA	1.7	-1	5.9	-2	0.9	-1	0.292	-1	1.923	-1	6.581	0	1398	39	1.1
47127.1	10000	41.0294	93.8037	-394	QKA	1.8	-1	5.7	-2	1.0	-1	0.305	0	1.844	-1	6.040	-1	1427	41	1.1
47127.2	10000	41.0294	93.8028	-393	QKA	1.7	-2	5.7	-2	1.0	-1	0.289	-1	1.659	-1	5.747	-1	1446	52	1.1
47127.3	10000	41.0294	93.8020	-392	QKA	1.7	-1	5.7	-2	1.0	-1	0.301	-1	1.728	-1	5.742	-1	1466	48	1.1
47127.4	10000	41.0294	93.8011	-391	QKA	1.9	-1	5.7	-2	0.9	-1	0.325	0	1.979	-1	6.084	-1	1471	46	1.1
47127.5	10000	41.0294	93.8002	-389	QKA	2.2	0	5.6	-2	0.9	-1	0.396	1	2.382	0	6.013	-1	1484	45	1.1
47127.6	10000	41.0294	93.7994	-388	QKA	2.2	0	5.8	-2	0.9	-1	0.383	1	2.388	0	6.232	-1	1524	55	1.1
47127.7	10000	41.0294	93.7985	-387	QKA	2.0	-1	6.1	-1	0.9	-1	0.324	0	2.120	0	6.543	0	1546	53	1.2
47127.8	10000	41.0294	93.7977	-385	QKA	2.0	-1	6.3	-1	1.0	-1	0.323	0	2.128	0	6.583	0	1580	39	1.2
47127.9	10000	41.0294	93.7968	-385	QKA	2.2	-1	6.5	-1	1.0	-1	0.329	0	2.196	0	6.674	0	1615	42	1.2
47128.0	10000	41.0294	93.7959	-384	QKA	2.1	-1	7.1	0	1.0	0	0.296	-1	2.052	0	6.930	0	1638	58	1.2
47128.1	10000	41.0295	93.7951	-382	QKA	2.2	0	7.6	1	1.1	0	0.291	-1	2.056	0	7.059	0	1681	40	1.2
47128.2	10000	41.0295	93.7942	-381	QKA	2.0	-1	8.2	1	1.1	0	0.247	-1	1.798	-1	7.272	1	1706	58	1.2
47128.3	10000	41.0295	93.7933	-380	QKA	2.0	-1	8.1	1	1.2	1	0.251	-1	1.731	-1	6.902	0	1706	56	1.2
47128.4	10000	41.0295	93.7925	-380	QKA	2.2	0	7.9	1	1.2	1	0.282	-1	1.875	-1	6.654	0	1720	52	1.2
47128.5	10000	41.0295	93.7916	-380	QKA	2.1	-1	8.0	1	1.2	1	0.260	-1	1.782	-1	6.847	0	1720	45	1.2
47128.6	10000	41.0295	93.7907	-379	QKA	2.3	0	7.9	1	1.1	1	0.285	-1	1.970	-1	6.916	0	1715	39	1.2
47128.7	10000	41.0295	93.7899	-378	QKA	2.4	0	8.0	1	1.1	0	0.307	0	2.141	0	6.970	0	1724	52	1.2
47128.8	10000	41.0295	93.7890	-378	QKA	2.1	-1	7.3	0	1.1	0	0.281	-1	1.797	-1	6.394	0	1719	37	1.2
47128.9	10000	41.0295	93.7882	-378	QKA	2.0	-1	6.9	0	1.1	0	0.291	-1	1.790	-1	6.152	-1	1729	46	1.2
47129.0	10000	41.0295	93.7873	-377	QKA	2.1	-1	7.2	0	1.1	0	0.288	-1	1.901	-1	6.610	0	1733	44	1.2
47129.1	10000	41.0295	93.7865	-377	QKA	2.1	-1	7.8	1	1.1	0	0.273	-1	2.015	0	7.379	1	1750	51	1.2
47129.2	10000	41.0295	93.7856	-376	QKA	2.2	0	7.4	0	1.0	0	0.296	-1	2.116	0	7.155	1	1749	38	1.2
47129.3	10000	41.0295	93.7848	-375	QKA	2.0	-1	7.2	0	1.1	0	0.282	-1	1.927	-1	6.839	0	1753	39	1.3
47129.4	10000	41.0295	93.7839	-376	QKA	1.9	-1	7.3	0	1.1	0	0.268	-1	1.845	-1	6.890	0	1741	38	1.3
47129.5	10000	41.0295	93.7831	-377	QKA	2.2	0	7.6	1	1.1	0	0.291	-1	2.094	0	7.204	1	1743	42	1.3
47129.6	10000	41.0295	93.7822	-378	QKA	2.2	0	7.4	0	1.0	-1	0.297	-1	2.193	0	7.380	1	1730	47	1.3
47129.7	10000	41.0295	93.7814	-379	QKA	2.5	0	6.9	0	1.0	-1	0.358	0	2.526	1	7.061	0	1718	41	1.3
47129.8	10000	41.0295	93.7805	-378	QKA	2.5	0	6.1	-1	1.0	-1	0.412	1	2.520	1	6.112	-1	1691	36	1.3
47129.9	10000	41.0295	93.7797	-376	QKA	2.4	0	6.5	-1	1.0	0	0.375	1	2.387	0	6.362	0	1682	43	1.3
47130.0	10000	41.0295	93.7789	-374	CULTRL	2.4	999	6.0	999	0.9	999	0.403	999	2.584	999	6.411	999	1644	42	1.3

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47130.1	10000	41.0295	93.7780	-372	CULTRL	2.7	999	5.4	999	0.9	999	0.496	999	2.889	999	5.829	999	1628	52	1.3
47130.2	10000	41.0295	93.7772	-374	CULTRL	2.9	999	5.0	999	0.9	999	0.583	999	3.155	999	5.409	999	1601	33	1.3
47130.3	10000	41.0295	93.7763	-377	CULTRL	2.9	999	5.0	999	0.9	999	0.570	999	3.099	999	5.438	999	1595	57	1.3
47130.4	10000	41.0295	93.7755	-379	CULTRL	2.8	999	5.6	999	0.9	999	0.495	999	3.024	999	6.107	999	1596	58	1.3
47130.5	10000	41.0295	93.7746	-380	CULTRL	2.7	999	5.7	999	0.9	999	0.464	999	2.915	999	6.288	999	1585	45	1.3
47130.6	10000	41.0295	93.7738	-381	CULTRL	2.8	999	5.7	999	0.9	999	0.493	999	3.195	999	6.483	999	1561	53	1.3
47130.7	10000	41.0295	93.7729	-381	CULTRL	2.7	999	5.9	999	0.9	999	0.469	999	3.092	999	6.595	999	1554	59	1.3
47130.8	10000	41.0295	93.7721	-381	CULTRL	2.5	999	5.8	999	0.8	999	0.433	999	2.962	999	6.848	999	1533	45	1.3
47130.9	10000	41.0295	93.7713	-382	CULTRL	2.2	999	5.6	999	0.8	999	0.391	999	2.723	999	6.969	999	1526	50	1.3
47131.0	10000	41.0295	93.7704	-383	CULTRL	2.4	999	5.6	999	0.8	999	0.425	999	2.957	999	6.954	999	1512	58	1.3
47131.1	10000	41.0295	93.7696	-385	CULTRL	2.4	999	5.2	999	0.8	999	0.469	999	3.028	999	6.458	999	1491	48	1.3
47131.2	10000	41.0295	93.7687	-387	CULTRL	2.5	999	5.3	999	0.8	999	0.473	999	3.283	999	6.936	999	1487	56	1.3
47131.3	10000	41.0295	93.7679	-389	CULTRL	2.5	999	4.9	999	0.8	999	0.509	999	3.137	999	6.165	999	1489	49	1.3
47131.4	10000	41.0295	93.7670	-393	CULTRL	2.5	999	5.0	999	0.8	999	0.499	999	3.068	999	6.147	999	1495	51	1.3
47131.5	10000	41.0295	93.7662	-396	CULTRL	2.6	999	5.3	999	0.8	999	0.491	999	3.158	999	6.425	999	1507	37	1.3
47131.6	10000	41.0295	93.7654	-398	CULTRL	2.8	999	5.3	999	0.8	999	0.520	999	3.504	999	6.733	999	1504	55	1.3
47131.7	10000	41.0295	93.7645	-400	CULTRL	2.8	999	5.1	999	0.8	999	0.545	999	3.540	999	6.492	999	1509	49	1.3
47131.8	10000	41.0295	93.7637	-402	CULTRL	2.8	999	5.1	999	0.8	999	0.550	999	3.504	999	6.367	999	1503	59	1.3
47131.9	10000	41.0295	93.7628	-403	CULTRL	2.8	999	5.1	999	0.9	999	0.556	999	3.317	999	5.966	999	1513	40	1.3
47132.0	10000	41.0295	93.7620	-404	CULTRL	2.7	999	5.0	999	0.8	999	0.541	999	3.350	999	6.192	999	1510	39	1.3
47132.1	10000	41.0295	93.7611	-405	CULTRL	2.5	999	5.1	999	0.9	999	0.500	999	2.972	999	5.948	999	1526	47	1.3
47132.2	10000	41.0295	93.7603	-407	CULTRL	2.4	999	5.0	999	0.9	999	0.485	999	2.722	999	5.612	999	1532	56	1.4
47132.3	10000	41.0295	93.7594	-411	CULTRL	2.6	999	5.2	999	0.9	999	0.494	999	2.847	999	5.767	999	1539	48	1.4
47132.4	10000	41.0295	93.7586	-415	CULTRL	2.5	999	5.5	999	0.9	999	0.463	999	2.933	999	6.329	999	1529	51	1.4
47132.5	10000	41.0295	93.7578	-419	CULTRL	2.8	999	5.6	999	0.9	999	0.494	999	3.084	999	6.239	999	1554	50	1.4
47132.6	10000	41.0295	93.7569	-422	CULTRL	2.8	999	5.1	999	0.9	999	0.537	999	3.083	999	5.737	999	1543	43	1.4
47132.7	10000	41.0295	93.7561	-424	CULTRL	2.5	999	5.4	999	1.0	999	0.460	999	2.584	999	5.620	999	1557	43	1.4
47132.8	10000	41.0295	93.7552	-426	CULTRL	2.6	999	5.4	999	1.0	999	0.478	999	2.604	999	5.446	999	1554	39	1.4
47132.9	10000	41.0295	93.7544	-429	CULTRL	2.6	999	5.7	999	1.0	999	0.455	999	2.653	999	5.835	999	1557	40	1.4
47133.0	10000	41.0295	93.7535	-432	CULTRL	2.3	999	5.7	999	1.0	999	0.398	999	2.241	999	5.636	999	1565	61	1.4
47133.1	10000	41.0295	93.7527	-435	QKA	2.5	0	5.5	-2	1.0	0	0.458	2	2.445	0	5.339	-2	1581	47	1.4
47133.2	10000	41.0295	93.7518	-438	QKA	2.1	-1	5.5	-2	1.0	-1	0.391	1	2.169	0	5.551	-1	1572	47	1.4
47133.3	10000	41.0295	93.7510	-440	QKA	2.2	0	6.0	-1	1.0	-1	0.369	0	2.303	0	6.237	-1	1586	47	1.4
47133.4	10000	41.0295	93.7501	-442	QKA	2.4	0	6.2	-1	1.0	-1	0.382	1	2.492	0	6.518	0	1579	47	1.4
47133.5	10000	41.0295	93.7493	-442	QKA	2.4	0	6.1	-1	0.9	-1	0.398	1	2.755	1	6.921	0	1569	43	1.4
47133.6	10000	41.0295	93.7485	-445	QKA	2.6	0	6.3	-1	0.9	-1	0.407	1	2.890	1	7.110	1	1568	60	1.4
47133.7	10000	41.0295	93.7476	-450	QKA	2.6	0	6.4	-1	0.9	-1	0.408	1	2.934	1	7.199	1	1563	49	1.4
47133.8	10000	41.0295	93.7468	-453	QKA	2.4	0	6.5	-1	0.9	-1	0.368	0	2.617	1	7.117	1	1561	44	1.4
47133.9	10000	41.0294	93.7459	-453	QKA	2.5	0	6.6	-1	0.9	-1	0.378	1	2.840	1	7.516	1	1556	44	1.4
47134.0	10000	41.0294	93.7451	-450	QKA	2.2	0	6.6	-1	0.9	-1	0.341	0	2.422	0	7.107	1	1538	46	1.4
47134.1	10000	41.0295	93.7442	-450	QKA	2.3	0	6.9	0	1.0	-1	0.328	0	2.370	0	7.219	1	1547	53	1.4
47134.2	10000	41.0294	93.7434	-452	QKA	1.9	-1	7.2	0	1.0	-1	0.270	-1	1.996	-1	7.395	1	1546	42	1.4
47134.3	10000	41.0294	93.7425	-455	QKA	1.8	-1	7.1	0	1.0	-1	0.256	-1	1.873	-1	7.321	1	1545	41	1.4
47134.4	10000	41.0294	93.7417	-457	QKA	1.7	-1	7.2	0	1.0	-1	0.240	-1	1.768	-1	7.356	1	1552	39	1.4
47134.5	10000	41.0294	93.7408	-461	QKA	1.6	-2	7.3	0	1.0	-1	0.220	-2	1.640	-1	7.456	1	1545	42	1.4
47134.6	10000	41.0294	93.7400	-463	QKA	1.4	-2	7.3	0	1.0	-1	0.195	-2	1.447	-2	7.433	1	1542	45	1.4
47134.7	10000	41.0294	93.7392	-466	QKA	1.3	-2	7.5	0	0.9	-1	0.179	-2	1.402	-2	7.846	1	1547	40	1.4
47134.8	10000	41.0294	93.7383	-469	QKA	1.3	-2	7.2	0	0.9	-1	0.183	-2	1.453	-2	7.932	2	1566	48	1.4
47134.9	10000	41.0294	93.7375	-472	QKA	1.4	-2	7.3	0	0.9	-1	0.192	-2	1.532	-1	7.963	2	1579	37	1.4
47135.0	10000	41.0294	93.7366	-474	QKA	1.5	-2	7.3	0	0.9	-1	0.207	-2	1.657	-1	8.021	2	1573	34	1.4
47135.1	10000	41.0294	93.7358	-478	QKA	1.6	-2	6.9	0	0.9	-1	0.230	-2	1.792	-1	7.797	1	1559	47	1.4
47135.2	10000	41.0294	93.7349	-482	QKA	1.6	-2	6.9	0	0.9	-1	0.229	-2	1.771	-1	7.741	1	1565	48	1.4

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47135.3	10000	41.0294	93.7341	-485	QKA	1.8	-1	6.6	-1	1.0	-1	0.272	-1	1.888	-1	6.937	0	1568	42	1.4
47135.4	10000	41.0294	93.7332	-488	QKA	2.3	0	6.6	-1	0.9	-1	0.353	0	2.506	1	7.102	1	1585	49	1.4
47135.5	10000	41.0294	93.7324	-491	QKA	2.5	0	6.1	-1	0.9	-1	0.414	1	2.678	1	6.466	0	1572	37	1.4
47135.6	10000	41.0294	93.7316	-494	QKA	2.7	1	6.0	-2	0.9	-1	0.456	2	3.007	2	6.599	0	1561	41	1.4
47135.7	10000	41.0294	93.7307	-497	QKA	2.5	0	6.1	-1	0.9	-1	0.413	1	2.682	1	6.488	0	1560	55	1.4
47135.8	10000	41.0294	93.7299	-501	QKA	2.3	0	6.4	-1	1.0	-1	0.364	0	2.455	0	6.743	0	1576	42	1.4
47135.9	10000	41.0294	93.7290	-505	QKA	2.4	0	6.3	-1	1.0	-1	0.387	1	2.557	1	6.608	0	1568	48	1.4
47136.0	10000	41.0294	93.7282	-508	QKA	2.1	-1	6.3	-1	1.0	-1	0.335	0	2.228	0	6.651	0	1569	30	1.4
47136.1	10000	41.0294	93.7273	-511	QKA	1.6	-2	6.3	-1	1.0	-1	0.254	-1	1.688	-1	6.633	0	1555	40	1.4
47136.2	10000	41.0294	93.7265	-514	QKA	1.5	-2	6.8	0	0.9	-1	0.221	-2	1.628	-1	7.363	1	1538	39	1.4
47136.3	10000	41.0294	93.7256	-517	QKA	1.4	-2	6.6	-1	0.9	-1	0.212	-2	1.504	-1	7.100	1	1540	49	1.4
47136.4	10000	41.0294	93.7248	-520	QKA	1.5	-2	6.9	0	1.0	-1	0.220	-2	1.550	-1	7.057	0	1570	59	1.4
47136.5	10000	41.0294	93.7240	-523	QKA	1.7	-1	6.7	-1	0.9	-1	0.256	-1	1.804	-1	7.049	0	1584	41	1.4
47136.6	10000	41.0294	93.7231	-525	QKA	1.9	-1	6.9	0	1.0	-1	0.273	-1	1.991	-1	7.282	1	1620	46	1.4
47136.7	10000	41.0294	93.7223	-526	QKA	2.2	0	7.2	0	1.0	-1	0.300	-1	2.227	0	7.429	1	1666	44	1.4
47136.8	10000	41.0294	93.7214	-529	QKA	2.3	0	7.6	1	1.0	-1	0.299	-1	2.291	0	7.656	1	1688	50	1.4
47136.9	10000	41.0294	93.7206	-533	QKA	2.2	0	7.9	1	1.0	0	0.281	-1	2.173	0	7.719	1	1720	48	1.4
47137.0	10000	41.0294	93.7197	-535	QKA	2.3	0	8.0	1	1.0	0	0.285	-1	2.184	0	7.674	1	1751	36	1.4
47137.1	10000	41.0294	93.7189	-535	QKA	2.5	0	8.1	1	1.0	-1	0.310	0	2.581	1	8.335	2	1759	46	1.4
47137.2	10000	41.0294	93.7180	-522	QKA	2.4	0	8.2	1	1.0	-1	0.297	-1	2.426	0	8.176	2	1768	35	1.4
47137.3	10000	41.0294	93.7172	-525	QKA	2.2	0	8.0	1	1.1	0	0.275	-1	2.069	0	7.537	1	1764	50	1.4
47137.4	10000	41.0294	93.7164	-538	QKA	2.2	0	7.9	1	1.0	0	0.276	-1	2.114	0	7.656	1	1742	49	1.4
47137.5	10000	41.0294	93.7155	-540	QKA	2.0	-1	7.5	1	1.1	0	0.262	-1	1.814	-1	6.911	0	1748	44	1.4
47137.6	10000	41.0294	93.7147	-540	QKA	2.0	-1	7.1	0	1.1	0	0.286	-1	1.776	-1	6.212	-1	1748	49	1.4
47137.7	10000	41.0294	93.7138	-541	QKA	2.0	-1	7.0	0	1.1	1	0.281	-1	1.721	-1	6.134	-1	1744	42	1.4
47137.8	10000	41.0294	93.7130	-541	QKA	1.9	-1	6.6	-1	1.2	1	0.283	-1	1.532	-1	5.409	-2	1746	43	1.4
47137.9	10000	41.0294	93.7121	-541	QKA	2.0	-1	6.8	-1	1.3	1	0.288	-1	1.553	-1	5.398	-2	1739	51	1.4
47138.0	10000	41.0294	93.7113	-540	QKA	2.0	-1	6.9	-1	1.2	1	0.284	-1	1.619	-1	5.705	-1	1744	69	1.4
47138.1	10000	41.0294	93.7104	-541	QKA	1.9	-1	7.0	-1	1.2	1	0.280	-1	1.558	-1	5.570	-1	1746	51	1.4
47138.2	10000	41.0294	93.7096	-543	QKA	2.4	0	7.0	-1	1.2	1	0.347	0	1.994	-1	5.742	-1	1738	37	1.4
47138.3	10000	41.0294	93.7087	-543	QKA	2.4	0	7.2	-1	1.2	1	0.329	0	2.056	0	6.251	-1	1727	41	1.4
47138.4	10000	41.0294	93.7079	-544	QKA	2.6	0	7.3	-1	1.1	1	0.353	0	2.324	0	6.586	0	1722	42	1.4
47138.5	10000	41.0294	93.7071	-545	QKA	2.6	0	7.6	-1	1.1	1	0.342	0	2.380	0	6.969	0	1715	43	1.4
47138.6	10000	41.0294	93.7062	-547	QKA	2.7	1	7.7	-1	1.0	1	0.351	0	2.639	1	7.518	1	1705	47	1.4
47138.7	10000	41.0294	93.7054	-548	QKA	2.7	1	7.8	-1	1.0	1	0.342	0	2.710	1	7.921	2	1698	43	1.4
47138.8	10000	41.0294	93.7045	-550	QKA	2.6	0	8.0	-1	0.9	1	0.330	0	2.802	1	8.486	2	1689	71	1.4
47138.9	10000	41.0294	93.7037	-551	QKA	2.3	0	8.0	-1	0.9	1	0.288	-1	2.519	1	8.736	3	1686	53	1.4
47139.0	10000	41.0294	93.7028	-553	QKA	2.4	0	8.1	-1	1.0	1	0.298	-1	2.522	1	8.454	2	1697	55	1.4
47139.1	10000	41.0294	93.7020	-555	QKA	2.4	0	7.9	-1	1.0	1	0.297	-1	2.323	0	7.835	1	1705	50	1.4
47139.2	10000	41.0294	93.7011	-556	QKA	2.6	0	7.6	-1	1.0	1	0.340	0	2.508	1	7.367	1	1700	39	1.4
47139.3	10000	41.0294	93.7003	-558	QKA	2.5	0	7.5	-1	1.1	1	0.347	0	2.375	0	6.851	1	1700	49	1.4
47139.4	10000	41.0294	93.6994	-557	QKA	2.5	0	7.5	-1	1.1	1	0.335	0	2.244	0	6.694	0	1709	49	1.4
47139.5	10000	41.0294	93.6986	-560	QKA	2.5	0	7.6	-1	1.2	1	0.337	0	2.198	0	6.526	0	1739	49	1.4
47139.6	10000	41.0294	93.6978	-564	QKA	2.9	1	7.7	-1	1.2	1	0.376	0	2.444	0	6.502	0	1751	50	1.4
47139.7	10000	41.0294	93.6969	-566	QKA	2.9	1	7.3	-1	1.2	1	0.399	1	2.461	0	6.164	-1	1747	29	1.4
47139.8	10000	41.0293	93.6961	-568	QKA	2.8	1	7.4	-1	1.2	1	0.377	1	2.353	0	6.242	-1	1746	48	1.4
47139.9	10000	41.0293	93.6952	-570	QKA	2.5	0	8.0	-1	1.1	0	0.309	0	2.169	0	7.025	0	1742	49	1.4
47140.0	10000	41.0293	93.6944	-571	QKA	2.4	0	8.2	-1	1.1	-1	0.291	-1	2.109	0	7.254	0	1749	41	1.4
47140.1	10000	41.0293	93.6935	-574	QKA	2.3	0	8.1	-1	1.1	-1	0.280	-1	2.031	0	7.242	0	1734	55	1.4
47140.2	10000	41.0293	93.6927	-577	QKA	2.1	-1	7.8	-1	1.1	-1	0.274	-1	1.976	-1	7.197	0	1703	36	1.4
47140.3	10000	41.0293	93.6918	-580	QKA	1.8	-1	7.6	-1	1.1	-2	0.232	-2	1.591	-1	6.849	0	1697	40	1.4
47140.4	10000	41.0293	93.6910	-583	QKA	1.6	-2	7.7	-1	1.1	-2	0.214	-2	1.481	-2	6.933	0	1691	49	1.3

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47140.5	10000	41.0293	93.6902	-587	QKA	1.7	-1	7.6	1	1.1	0	0.223	-2	1.525	-1	6.848	0	1697	55	1.3
47140.6	10000	41.0293	93.6893	-591	QKA	1.7	-1	7.2	0	1.1	0	0.239	-1	1.520	-1	6.355	0	1701	41	1.3
47140.7	10000	41.0293	93.6885	-595	QKA	1.7	-2	7.2	0	1.2	1	0.230	-2	1.410	-2	6.124	-1	1718	44	1.3
47140.8	10000	41.0293	93.6876	-599	QKA	1.9	-1	7.1	0	1.2	1	0.268	-1	1.625	-1	6.059	-1	1716	56	1.3
47140.9	10000	41.0293	93.6868	-604	QKA	2.0	-1	7.3	0	1.2	1	0.278	-1	1.719	-1	6.184	-1	1737	48	1.3
47141.0	10000	41.0293	93.6859	-608	QKA	2.1	-1	7.5	0	1.1	1	0.280	-1	1.824	-1	6.508	0	1737	53	1.3
47141.1	10000	41.0293	93.6851	-613	QKA	2.2	0	7.6	1	1.1	0	0.286	-1	1.910	-1	6.668	0	1760	47	1.3
47141.2	10000	41.0293	93.6842	-617	QKA	2.2	-1	7.7	1	1.1	0	0.280	-1	1.882	-1	6.732	0	1753	40	1.2
47141.3	10000	41.0293	93.6834	-622	QKA	2.1	-1	7.5	0	1.2	1	0.274	-1	1.703	-1	6.219	-1	1757	48	1.2
47141.4	10000	41.0293	93.6826	-628	QKA	2.1	-1	7.5	0	1.2	1	0.286	-1	1.814	-1	6.354	0	1747	44	1.2
47141.5	10000	41.0293	93.6817	-634	QKA	2.2	-1	7.5	0	1.2	1	0.288	-1	1.771	-1	6.156	-1	1768	54	1.2
47141.6	10000	41.0293	93.6809	-639	QKA	2.3	0	7.4	0	1.2	1	0.307	0	1.839	-1	5.994	-1	1756	50	1.2
47141.7	10000	41.0293	93.6800	-644	QKA	2.2	0	7.2	0	1.2	1	0.299	-1	1.780	-1	5.951	-1	1747	53	1.2
47141.8	10000	41.0293	93.6792	-650	QKA	2.1	-1	7.5	0	1.2	1	0.280	-1	1.724	-1	6.165	-1	1725	40	1.2
47141.9	10000	41.0293	93.6783	-655	QKA	2.1	-1	7.9	1	1.2	1	0.264	-1	1.762	-1	6.668	0	1727	40	1.2
47142.0	10000	41.0293	93.6775	-660	QKA	2.2	0	8.1	1	1.1	0	0.271	-1	2.001	-1	7.395	1	1718	36	1.2
47142.1	10000	41.0293	93.6767	-664	QKA	2.2	0	8.3	2	1.1	0	0.269	-1	2.027	0	7.525	1	1726	43	1.2
47142.2	10000	41.0293	93.6758	-668	QKA	2.2	0	8.4	2	1.1	0	0.260	-1	1.979	-1	7.601	1	1716	44	1.2
47142.3	10000	41.0293	93.6750	-672	QKA	2.1	-1	8.3	2	1.1	0	0.259	-1	1.973	-1	7.631	1	1724	51	1.2
47142.4	10000	41.0293	93.6741	-676	QKA	2.2	0	8.3	2	1.2	1	0.265	-1	1.887	-1	7.118	1	1731	51	1.2
47142.5	10000	41.0293	93.6733	-680	QKA	2.3	0	8.2	1	1.1	0	0.286	-1	2.056	0	7.189	1	1751	44	1.2
47142.6	10000	41.0293	93.6724	-684	QKA	2.5	0	7.9	1	1.2	1	0.321	0	2.188	0	6.817	0	1763	40	1.2
47142.7	10000	41.0293	93.6716	-686	QKA	2.4	0	8.3	2	1.2	1	0.289	-1	2.045	0	7.077	0	1775	40	1.2
47142.8	10000	41.0293	93.6707	-687	QKA	2.4	0	8.2	1	1.1	0	0.290	-1	2.125	0	7.320	1	1762	41	1.2
47142.9	10000	41.0293	93.6699	-689	QKA	2.3	0	8.4	2	1.1	0	0.273	-1	2.090	0	7.658	1	1753	55	1.2
47143.0	10000	41.0293	93.6690	-690	QKA	2.3	0	8.5	2	1.1	0	0.271	-1	2.077	0	7.659	1	1763	42	1.2
47143.1	10000	41.0293	93.6682	-691	QKA	2.4	0	8.4	2	1.0	0	0.284	-1	2.346	0	8.266	2	1757	52	1.2
47143.2	10000	41.0293	93.6674	-691	QKA	2.2	0	8.5	2	1.0	0	0.264	-1	2.151	0	8.158	2	1742	32	1.2
47143.3	10000	41.0293	93.6665	-690	QKA	2.1	-1	8.5	2	1.0	0	0.250	-1	2.160	0	8.631	2	1715	46	1.2
47143.4	10000	41.0293	93.6657	-689	QKA	2.2	0	8.2	1	1.0	0	0.265	-1	2.235	0	8.435	2	1691	44	1.2
47143.5	10000	41.0293	93.6648	-687	QKA	2.1	-1	8.0	1	1.0	0	0.261	-1	2.129	0	8.152	2	1666	33	1.2
47143.6	10000	41.0293	93.6640	-685	QKA	2.2	0	8.0	1	1.0	0	0.278	-1	2.316	0	8.345	2	1649	32	1.2
47143.7	10000	41.0293	93.6631	-683	QKA	2.2	0	7.7	1	0.9	-1	0.283	-1	2.401	0	8.486	2	1624	41	1.2
47143.8	10000	41.0293	93.6623	-680	QKA	2.3	0	7.6	1	0.9	-1	0.300	-1	2.415	0	8.063	2	1605	45	1.2
47143.9	10000	41.0293	93.6614	-677	QKA	2.4	0	7.3	1	0.9	-1	0.323	0	2.657	1	8.221	2	1589	47	1.2
47144.0	10000	41.0293	93.6606	-674	QKA	2.3	0	7.4	0	0.9	-1	0.314	0	2.484	0	7.913	2	1592	49	1.2
47144.1	10000	41.0293	93.6597	-671	QKA	2.2	0	7.7	1	0.9	-1	0.288	-1	2.388	0	8.306	2	1581	45	1.2
47144.2	10000	41.0293	93.6589	-668	QKA	2.5	0	7.6	1	0.9	-1	0.322	0	2.701	1	8.379	2	1591	41	1.2
47144.3	10000	41.0293	93.6581	-665	QKA	2.3	0	7.3	0	0.9	-1	0.317	0	2.635	1	8.312	2	1586	43	1.2
47144.4	10000	41.0293	93.6572	-661	QKA	2.2	0	7.3	0	0.9	-2	0.307	0	2.584	1	8.424	2	1571	47	1.2
47144.5	10000	41.0292	93.6564	-657	QKA	2.2	0	7.5	0	0.9	-2	0.289	-1	2.487	0	8.595	2	1571	37	1.2
47144.6	10000	41.0292	93.6555	-653	QKA	2.0	-1	7.0	0	0.9	-1	0.286	-1	2.214	0	7.755	1	1545	40	1.2
47144.7	10000	41.0292	93.6547	-648	QKA	1.8	-1	6.5	-1	0.9	-1	0.278	-1	1.943	-1	6.998	0	1537	43	1.2
47144.8	10000	41.0292	93.6538	-642	QKA	2.0	-1	6.0	-2	1.0	-1	0.337	0	2.106	0	6.256	-1	1525	48	1.2
47144.9	10000	41.0292	93.6530	-633	QKA	1.6	-2	5.8	-2	1.0	-1	0.276	-1	1.609	-1	5.831	-1	1508	51	1.2
47145.0	10000	41.0292	93.6521	-625	QKA	1.5	-2	5.8	-2	1.0	0	0.263	-1	1.491	-2	5.676	-1	1497	48	1.2
47145.1	10000	41.0292	93.6512	-626	QKA	1.6	-2	6.3	-1	1.0	0	0.259	-1	1.556	-1	6.004	-1	1505	51	1.2
47145.2	10000	41.0292	93.6504	-627	QKA	1.5	-2	6.2	-1	1.0	0	0.247	-1	1.471	-2	5.954	-1	1505	54	1.2
47145.3	10000	41.0292	93.6495	-624	QKA	1.8	-1	6.4	-1	1.1	0	0.276	-1	1.651	-1	5.985	-1	1526	45	1.2
47145.4	10000	41.0292	93.6487	-619	QKA	1.8	-1	6.8	0	1.0	-1	0.272	-1	1.840	-1	6.761	0	1516	45	1.2
47145.5	10000	41.0292	93.6478	-614	QKA	1.9	-1	6.6	-1	1.0	-1	0.286	-1	1.931	-1	6.743	0	1530	48	1.2
47145.6	10000	41.0292	93.6469	-611	QKA	2.1	-1	6.7	-1	0.9	-1	0.318	0	2.296	0	7.215	1	1547	60	1.2

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47145.7	10000	41.0292	93.6461	-608	QKA	2.5	0	6.9	0	0.9	-1	0.357	0	2.691	1	7.529	1	1580	31	1.2
47145.8	10000	41.0292	93.6452	-606	QKA	2.4	0	6.9	0	0.9	-1	0.351	0	2.679	1	7.631	1	1589	46	1.2
47145.9	10000	41.0291	93.6444	-605	QKA	2.4	0	6.8	0	0.9	-1	0.345	0	2.665	1	7.719	1	1610	48	1.2
47146.0	10000	41.0291	93.6435	-603	QKA	2.2	0	7.1	0	0.9	-1	0.311	0	2.450	0	7.872	1	1624	54	1.2
47146.1	10000	41.0291	93.6426	-602	QKA	2.2	0	7.1	0	1.0	-1	0.312	0	2.204	0	7.070	0	1667	54	1.2
47146.2	10000	41.0291	93.6418	-602	QKA	2.1	-1	7.3	0	1.1	0	0.285	-1	1.960	-1	6.868	0	1688	43	1.2
47146.3	10000	41.0291	93.6409	-603	QKA	1.8	-1	7.0	0	1.1	0	0.259	-1	1.643	-1	6.331	0	1703	43	1.2
47146.4	10000	41.0291	93.6401	-604	QKA	1.8	-1	6.8	0	1.1	0	0.264	-1	1.576	-1	5.975	-1	1711	55	1.2
47146.5	10000	41.0291	93.6392	-605	QKA	1.9	-1	6.6	-1	1.1	0	0.280	-1	1.630	-1	5.824	-1	1731	53	1.2
47146.6	10000	41.0291	93.6384	-606	QKA	2.0	-1	6.8	0	1.1	0	0.296	-1	1.757	-1	5.939	-1	1731	46	1.2
47146.7	10000	41.0291	93.6375	-606	QKA	2.2	0	6.9	0	1.1	0	0.314	0	1.962	-1	6.242	-1	1746	60	1.2
47146.8	10000	41.0291	93.6366	-610	QKA	2.5	0	6.7	-1	1.0	0	0.374	1	2.465	0	6.585	0	1736	34	1.2
47146.9	10000	41.0291	93.6358	-616	QKA	2.7	1	6.9	0	0.9	-1	0.393	1	2.958	1	7.525	1	1740	45	1.2
47147.0	10000	41.0291	93.6349	-620	QKA	3.0	1	7.7	1	0.9	-2	0.382	1	3.397	2	8.888	3	1721	45	1.2
47147.1	10000	41.0291	93.6340	-624	QKA	2.9	1	7.9	1	0.9	-1	0.364	0	3.187	2	8.757	3	1716	29	1.2
47147.2	10000	41.0290	93.6332	-628	QKA	2.9	1	7.6	1	0.9	-1	0.386	1	3.214	2	8.330	2	1699	45	1.2
47147.3	10000	41.0290	93.6323	-632	QKA	3.1	1	7.3	0	0.9	-1	0.427	1	3.353	2	7.859	1	1701	49	1.2
47147.4	10000	41.0290	93.6315	-636	QKA	3.0	1	7.3	0	0.9	-1	0.411	1	3.240	2	7.893	1	1691	56	1.2
47147.5	10000	41.0290	93.6306	-639	QKA	2.9	1	7.7	1	1.0	-1	0.374	1	2.916	1	7.795	1	1692	47	1.2
47147.6	10000	41.0290	93.6298	-644	QKA	2.7	1	7.6	1	1.0	0	0.360	0	2.715	1	7.546	1	1674	42	1.3
47147.7	10000	41.0290	93.6289	-652	QKA	2.7	1	7.0	0	1.1	0	0.394	1	2.615	1	6.629	0	1680	43	1.3
47147.8	10000	41.0290	93.6280	-657	QKA	2.6	0	7.0	0	1.0	-1	0.365	0	2.624	1	7.195	1	1661	45	1.3
47147.9	10000	41.0290	93.6272	-661	QKA	2.4	0	7.3	0	1.0	-1	0.326	0	2.363	0	7.249	1	1667	58	1.3
47148.0	10000	41.0290	93.6263	-666	QKA	2.3	0	7.7	1	1.0	-1	0.297	-1	2.288	0	7.703	1	1667	47	1.3
47148.1	10000	41.0290	93.6255	-671	QKA	2.3	0	7.8	1	1.0	-1	0.296	-1	2.309	0	7.792	1	1664	38	1.3
47148.2	10000	41.0290	93.6246	-677	QKA	2.2	0	7.9	1	1.0	-1	0.279	-1	2.195	0	7.879	1	1660	35	1.3
47148.3	10000	41.0290	93.6237	-681	QKA	2.2	0	8.0	1	1.0	-1	0.280	-1	2.183	0	7.809	1	1681	52	1.3
47148.4	10000	41.0290	93.6229	-686	QKA	2.1	0	8.1	1	1.0	-1	0.258	-1	2.065	0	8.001	2	1699	51	1.3
47148.5	10000	41.0289	93.6220	-693	QKA	2.2	0	8.0	1	1.0	0	0.280	-1	2.142	1	7.646	2	1714	40	1.3
47148.6	10000	41.0289	93.6212	-699	QKA	2.3	0	8.2	1	1.0	0	0.281	-1	2.234	2	7.950	2	1727	48	1.3
47148.7	10000	41.0289	93.6203	-704	QKA	2.2	0	8.2	1	1.0	0	0.268	-1	2.130	2	7.934	2	1725	45	1.3
47148.8	10000	41.0289	93.6194	-709	QKA	2.0	-1	8.2	1	1.1	0	0.244	-1	1.908	1	7.821	1	1722	46	1.3
47148.9	10000	41.0289	93.6186	-714	QKA	2.1	-1	8.0	1	1.0	0	0.258	-1	1.968	1	7.630	1	1717	44	1.3
47149.0	10000	41.0289	93.6177	-718	QKA	2.0	-1	8.0	1	1.1	0	0.249	-1	1.903	1	7.639	1	1701	39	1.3
47149.1	10000	41.0289	93.6169	-722	QKA	2.1	-1	8.1	1	1.1	0	0.264	-1	2.027	1	7.678	1	1678	44	1.3
47149.2	10000	41.0289	93.6160	-727	QKA	2.3	0	8.3	2	1.1	0	0.272	-1	2.196	2	8.081	2	1665	52	1.3
47149.3	10000	41.0289	93.6151	-733	QKA	2.0	-1	7.7	1	1.0	0	0.258	-1	1.973	1	7.649	1	1621	50	1.3
47149.4	10000	41.0289	93.6143	-738	QKA	2.0	-1	7.3	0	1.0	-1	0.275	-1	2.080	1	7.553	1	1601	40	1.3
47149.5	10000	41.0289	93.6134	-743	QKA	2.1	-1	6.8	0	0.9	-1	0.317	0	2.280	1	7.181	1	1583	50	1.3
47149.6	10000	41.0289	93.6126	-747	QKA	2.1	-1	6.7	-1	0.9	-1	0.309	0	2.267	1	7.347	1	1561	47	1.3
47149.7	10000	41.0288	93.6117	-752	QKA	2.0	-1	6.4	-1	0.9	-1	0.316	0	2.224	1	7.032	0	1545	56	1.3
47149.8	10000	41.0288	93.6108	-756	QKA	1.9	-1	6.4	-1	0.9	-2	0.303	0	2.241	1	7.393	1	1537	38	1.3
47149.9	10000	41.0288	93.6100	-760	QKA	1.8	-1	6.1	-1	0.9	-1	0.290	-1	1.943	-1	6.710	0	1536	43	1.3
47150.0	10000	41.0288	93.6091	-765	QKA	1.9	-1	6.5	-1	0.9	-1	0.289	-1	1.994	-1	6.911	0	1541	47	1.3
47150.1	10000	41.0288	93.6083	-769	QKA	2.0	-1	6.4	-1	1.0	0	0.316	0	2.122	0	6.718	0	1539	38	1.3
47150.2	10000	41.0288	93.6074	-774	QKA	2.0	-1	6.5	-1	1.0	0	0.309	0	2.064	0	6.686	0	1542	45	1.3
47150.3	10000	41.0288	93.6066	-778	QKA	2.0	-1	6.7	-1	1.0	-1	0.300	-1	2.054	0	6.851	0	1557	49	1.3
47150.4	10000	41.0288	93.6057	-782	QKA	2.0	-1	6.7	-1	1.0	-1	0.297	-1	1.896	-1	6.388	0	1577	41	1.3
47150.5	10000	41.0288	93.6048	-785	QKA	1.9	-1	7.0	0	1.1	-1	0.278	-1	1.764	-1	6.355	0	1606	43	1.4
47150.6	10000	41.0288	93.6040	-789	QKA	1.8	-1	7.1	0	1.0	-1	0.256	-1	1.761	-1	6.892	0	1615	47	1.4
47150.7	10000	41.0288	93.6031	-792	QKA	1.9	-1	7.0	0	1.0	-1	0.267	-1	1.834	-1	6.870	0	1626	46	1.4
47150.8	10000	41.0288	93.6022	-795	QKA	1.7	-1	7.5	0	1.0	0	0.228	-2	1.641	-1	7.201	1	1646	46	1.4

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47150.9	10000	41.0287	93.6014	-799	QKA	1.8	-1	7.8	1	1.1	0	0.225	-2	1.632	-1	7.248	1	1683	40	1.4
47151.0	10000	41.0287	93.6005	-802	QKA	1.8	-1	7.7	1	1.1	0	0.236	-1	1.621	-1	6.870	0	1714	58	1.4
47151.1	10000	41.0287	93.5997	-806	QKA	2.1	-1	8.0	1	1.1	0	0.261	-1	1.886	-1	7.236	1	1730	34	1.4
47151.2	10000	41.0287	93.5988	-808	QKA	2.3	0	7.7	1	1.1	0	0.296	-1	2.055	0	6.942	0	1731	49	1.4
47151.3	10000	41.0287	93.5980	-811	QKA	2.5	0	7.9	1	1.2	1	0.312	0	2.124	0	6.814	0	1746	32	1.4
47151.4	10000	41.0287	93.5971	-814	QKA	2.3	0	8.0	1	1.2	1	0.285	-1	1.939	-1	6.800	0	1752	37	1.4
47151.5	10000	41.0287	93.5962	-816	QKA	2.2	0	7.8	1	1.1	1	0.283	-1	1.929	-1	6.809	0	1762	55	1.4
47151.6	10000	41.0287	93.5954	-818	QKA	2.3	0	7.6	1	1.1	0	0.308	0	2.084	0	6.756	0	1746	61	1.4
47151.7	10000	41.0287	93.5945	-820	QKA	2.8	1	7.7	1	1.1	0	0.357	0	2.545	1	7.125	1	1730	36	1.4
47151.8	10000	41.0287	93.5937	-822	QKA	2.4	0	7.3	0	1.0	0	0.329	0	2.359	0	7.177	1	1717	48	1.4
47151.9	10000	41.0287	93.5928	-824	QKA	2.4	0	7.2	0	1.0	0	0.339	0	2.388	0	7.052	0	1713	35	1.4
47152.0	10000	41.0287	93.5919	-826	QKA	2.5	0	6.9	0	1.0	0	0.364	0	2.445	0	6.712	0	1715	33	1.4
47152.1	10000	41.0286	93.5911	-827	QKA	2.7	1	6.8	0	1.1	0	0.390	1	2.510	1	6.440	0	1723	36	1.4
47152.2	10000	41.0286	93.5902	-829	QKA	2.6	1	6.7	-1	1.1	0	0.396	1	2.347	0	5.923	-1	1718	54	1.4
47152.3	10000	41.0286	93.5894	-831	QKA	2.4	0	6.8	0	1.1	0	0.352	0	2.133	0	6.062	-1	1725	54	1.4
47152.4	10000	41.0286	93.5885	-833	QKA	1.9	-1	6.7	-1	1.2	1	0.286	-1	1.642	-1	5.749	-1	1724	55	1.4
47152.5	10000	41.0286	93.5876	-835	QKA	2.2	0	7.0	0	1.2	1	0.308	0	1.853	-1	6.022	-1	1730	45	1.4
47152.6	10000	41.0286	93.5868	-836	QKA	2.1	-1	7.1	0	1.2	1	0.297	-1	1.826	-1	6.148	-1	1732	57	1.4
47152.7	10000	41.0286	93.5859	-837	QKA	2.1	-1	7.1	0	1.2	1	0.290	-1	1.765	-1	6.090	-1	1725	47	1.4
47152.8	10000	41.0286	93.5851	-837	QKA	2.2	0	7.0	0	1.1	0	0.309	0	1.934	-1	6.265	-1	1730	53	1.4
47152.9	10000	41.0286	93.5842	-839	QKA	2.2	0	7.3	0	1.1	0	0.308	0	2.075	0	6.731	0	1734	52	1.4
47153.0	10000	41.0286	93.5833	-841	QKA	2.3	0	7.2	0	1.1	0	0.322	0	2.146	0	6.673	0	1736	52	1.4
47153.1	10000	41.0286	93.5825	-843	QKA	2.3	0	7.3	0	1.0	0	0.312	0	2.193	0	7.022	0	1721	48	1.4
47153.2	10000	41.0286	93.5816	-846	QKA	2.4	0	7.0	0	1.1	0	0.344	0	2.232	0	6.484	0	1712	46	1.4
47153.3	10000	41.0285	93.5808	-846	QKA	2.3	0	6.8	0	1.1	0	0.344	0	2.191	0	6.364	0	1685	37	1.4
47153.4	10000	41.0285	93.5799	-848	QKA	2.3	0	6.9	0	1.0	0	0.337	0	2.230	0	6.624	0	1668	48	1.4
47153.5	10000	41.0285	93.5790	-850	QKA	2.3	0	6.9	0	1.1	0	0.330	0	2.131	0	6.466	0	1669	51	1.4
47153.6	10000	41.0285	93.5782	-851	QKA	2.3	0	6.8	0	1.0	0	0.330	0	2.153	0	6.531	0	1664	32	1.4
47153.7	10000	41.0285	93.5773	-853	QKA	2.3	0	6.9	0	1.0	0	0.334	0	2.213	0	6.632	0	1653	51	1.4
47153.8	10000	41.0285	93.5765	-854	QKA	2.2	0	7.1	0	1.0	0	0.315	0	2.148	0	6.813	0	1662	52	1.4
47153.9	10000	41.0285	93.5756	-855	QKA	2.0	-1	7.3	0	1.0	0	0.273	-1	1.920	-1	7.046	0	1658	42	1.4
47154.0	10000	41.0285	93.5748	-857	QKA	1.8	-1	7.6	1	1.0	0	0.242	-1	1.770	-1	7.315	1	1674	47	1.4
47154.1	10000	41.0285	93.5739	-858	QKA	1.7	-2	7.6	1	1.0	0	0.217	-2	1.581	-1	7.273	1	1676	45	1.4
47154.2	10000	41.0285	93.5730	-860	QKA	1.9	-1	7.5	1	1.0	0	0.248	-1	1.856	-1	7.476	1	1643	53	1.4
47154.3	10000	41.0285	93.5722	-862	QKA	1.8	-1	7.5	1	1.0	-1	0.237	-1	1.808	-1	7.633	1	1629	48	1.4
47154.4	10000	41.0285	93.5713	-864	QKA	1.7	-1	7.5	1	1.0	-1	0.232	-2	1.808	-1	7.797	1	1614	54	1.4
47154.5	10000	41.0284	93.5704	-866	QKA	1.7	-2	6.9	0	0.9	-1	0.240	-1	1.791	-1	7.449	1	1579	45	1.4
47154.6	10000	41.0284	93.5696	-868	QKA	1.6	-2	6.7	-1	0.9	-1	0.243	-1	1.781	-1	7.345	1	1559	39	1.4
47154.7	10000	41.0284	93.5687	-870	QKA	1.8	-1	6.6	-1	0.9	-1	0.279	-1	1.973	-1	7.083	1	1542	44	1.4
47154.8	10000	41.0284	93.5679	-873	QKA	1.9	-1	6.6	-1	0.9	-1	0.287	-1	2.053	0	7.160	1	1533	42	1.4
47154.9	10000	41.0284	93.5670	-875	QKA	1.7	-1	7.0	0	0.9	-1	0.249	-1	1.850	-1	7.439	1	1548	44	1.4
47155.0	10000	41.0284	93.5662	-878	QKA	1.8	-1	6.7	-1	1.0	-1	0.269	-1	1.905	-1	7.078	1	1557	57	1.4
47155.1	10000	41.0284	93.5653	-880	QKA	2.0	-1	6.5	-1	1.0	0	0.299	-1	1.901	-1	6.352	1	1591	38	1.4
47155.2	10000	41.0284	93.5644	-883	QKA	2.2	0	7.0	0	1.1	0	0.317	0	2.041	0	6.445	0	1646	37	1.4
47155.3	10000	41.0284	93.5636	-886	QKA	2.1	-1	7.0	0	1.1	0	0.302	-1	1.880	-1	6.218	0	1682	56	1.4
47155.4	10000	41.0284	93.5627	-889	QKA	2.2	-1	7.0	0	1.1	0	0.309	-1	1.890	-1	6.[illegible]	0	1718	37	1.4
47155.5	10000	41.0284	93.5619	-891	QKA	2.3	0	7.0	0	1.1	0	0.344	0	2.072	0	6.[illegible]	0	1749	44	1.4
47155.6	10000	41.0284	93.5610	-893	QKA	2.5	0	7.6	0	1.1	0	0.377	0	2.261	0	6.002	-1	1765	47	1.4
47155.7	10000	41.0283	93.5601	-896	QKA	2.6	0	7.2	0	1.1	0	0.373	0	2.320	0	6.222	-1	1787	43	1.4
47155.8	10000	41.0283	93.5593	-898	QKA	2.4	0	7.1	0	1.1	0	0.339	0	2.254	0	6.639	-1	1777	37	1.4
47155.9	10000	41.0283	93.5584	-900	QKA	2.4	0	7.1	0	1.0	0	0.341	0	2.357	0	6.923	-1	1748	55	1.4
47156.0	10000	41.0283	93.5576	-901	QKA	2.5	0	7.3	0	1.0	0	0.344	0	2.482	0	7.220	1	1726	39	1.4

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47156.1	10000	41.0283	93.5567	-903	QKA	2.6	0	7.4	0	0.9	-1	0.345	0	2.740	1	7.943	2	1686	36	1.4
47156.2	10000	41.0283	93.5558	-903	QKA	2.4	0	7.4	0	1.0	-1	0.322	0	2.478	0	7.702	1	1659	44	1.4
47156.3	10000	41.0283	93.5550	-905	QKA	2.1	-1	7.2	0	1.0	-1	0.292	-1	2.121	0	7.258	1	1639	52	1.4
47156.4	10000	41.0283	93.5541	-909	QKA	2.1	-1	7.2	0	1.0	-1	0.296	-1	2.166	0	7.307	1	1606	43	1.4
47156.5	10000	41.0283	93.5533	-911	QKA	2.2	0	7.0	0	0.9	-1	0.313	0	2.337	0	7.468	1	1576	37	1.4
47156.6	10000	41.0283	93.5524	-913	QKA	2.2	0	6.9	0	1.0	-1	0.326	0	2.321	0	7.111	1	1572	50	1.4
47156.7	10000	41.0283	93.5515	-914	QKA	2.2	0	6.7	-1	0.9	-1	0.334	0	2.397	0	7.182	1	1560	40	1.4
47156.8	10000	41.0283	93.5507	-915	QKA	2.2	0	6.6	-1	1.0	-1	0.326	0	2.199	0	6.747	0	1571	40	1.4
47156.9	10000	41.0282	93.5498	-917	QKA	2.4	0	6.8	0	1.0	-1	0.348	0	2.473	0	7.105	1	1569	49	1.3
47157.0	10000	41.0282	93.5490	-918	QKA	2.5	0	7.2	0	0.9	-1	0.348	0	2.767	1	7.955	2	1564	26	1.3
47157.1	10000	41.0282	93.5481	-919	QKA	2.4	0	6.9	0	0.9	-1	0.341	0	2.685	1	7.872	1	1546	52	1.3
47157.2	10000	41.0282	93.5472	-920	QKA	2.5	0	6.9	0	0.9	-1	0.366	0	2.851	1	7.786	1	1557	62	1.3
47157.3	10000	41.0282	93.5464	-922	QKA	2.4	0	6.8	0	0.9	-2	0.354	0	2.809	1	7.923	2	1543	40	1.3
47157.4	10000	41.0282	93.5455	-923	QKA	2.4	0	6.7	-1	0.9	-2	0.364	0	2.818	1	7.737	1	1531	34	1.3
47157.5	10000	41.0282	93.5447	-924	QKA	2.4	0	6.8	0	0.8	-2	0.358	0	2.968	1	8.294	2	1513	40	1.3
47157.6	10000	41.0282	93.5438	-924	QKA	2.3	0	6.6	-1	0.8	-2	0.354	0	2.769	1	7.811	1	1501	39	1.3
47157.7	10000	41.0282	93.5430	-925	QKA	2.0	-1	6.2	-1	0.9	-2	0.327	0	2.366	0	7.230	1	1498	49	1.3
47157.8	10000	41.0282	93.5421	-928	QKA	2.1	-1	5.9	-2	0.9	-1	0.357	0	2.314	0	6.484	0	1507	48	1.3
47157.9	10000	41.0282	93.5412	-930	QKA	2.0	-1	6.0	-1	0.9	-1	0.325	0	2.158	0	6.646	0	1495	48	1.3
47158.0	10000	41.0281	93.5404	-931	QKA	1.8	-1	6.0	-1	0.9	-1	0.300	-1	1.956	-1	6.527	0	1502	44	1.3
47158.1	10000	41.0281	93.5395	-933	QKA	2.2	-1	6.0	-2	0.9	-1	0.361	0	2.382	0	6.597	0	1519	48	1.3
47158.2	10000	41.0281	93.5387	-933	QKA	2.3	0	5.8	-2	0.9	-1	0.401	1	2.496	0	6.226	-1	1531	58	1.3
47158.3	10000	41.0281	93.5378	-934	QKA	2.2	0	5.8	-2	0.9	-1	0.381	1	2.389	0	6.262	-1	1545	38	1.3
47158.4	10000	41.0281	93.5369	-934	QKA	2.5	0	5.9	-2	0.9	-1	0.431	1	2.700	1	6.261	-1	1547	46	1.3
47158.5	10000	41.0281	93.5361	-932	QKA	2.5	0	6.3	-1	0.9	-1	0.392	1	2.744	1	6.992	0	1555	46	1.3
47158.6	10000	41.0281	93.5352	-932	QKA	2.6	0	6.2	-1	0.9	-1	0.425	1	2.936	1	6.903	0	1556	52	1.3
47158.7	10000	41.0281	93.5343	-933	QKA	2.7	0	6.3	-1	0.9	-1	0.424	1	2.978	1	7.020	0	1548	48	1.3
47158.8	10000	41.0281	93.5335	-931	QKA	2.4	0	6.8	-1	0.9	-1	0.350	1	2.630	1	7.516	1	1543	45	1.3
47158.9	10000	41.0281	93.5326	-931	QKA	2.1	-1	6.7	-1	0.9	-1	0.320	0	2.286	1	7.140	1	1538	56	1.3
47159.0	10000	41.0281	93.5318	-930	QKA	2.3	-1	6.8	-1	0.9	-1	0.333	0	2.380	1	7.141	1	1541	49	1.3
47159.1	10000	41.0281	93.5309	-928	QKA	2.2	-1	7.1	-1	0.9	-1	0.304	0	2.239	1	7.366	1	1555	43	1.3
47159.2	10000	41.0280	93.5301	-927	QKA	2.1	-1	7.1	-1	0.9	-1	0.299	-1	2.271	1	7.595	1	1561	48	1.3
47159.3	10000	41.0280	93.5292	-925	QKA	2.0	-1	7.0	-1	0.9	-1	0.287	-1	2.173	1	7.564	1	1569	43	1.3
47159.4	10000	41.0280	93.5283	-923	QKA	2.2	-1	7.0	-1	0.9	-1	0.316	0	2.380	1	7.522	1	1567	45	1.3
47159.5	10000	41.0280	93.5275	-920	QKA	2.3	0	6.4	-1	0.9	-1	0.358	0	2.590	1	7.236	1	1548	49	1.3
47159.6	10000	41.0280	93.5266	-918	QKA	2.3	0	6.9	0	0.9	-2	0.333	0	2.630	1	7.897	1	1545	38	1.3
47159.7	10000	41.0280	93.5258	-916	QKA	2.3	0	6.9	0	0.8	-2	0.337	0	2.748	1	8.147	2	1530	39	1.3
47159.8	10000	41.0280	93.5249	-913	QKA	2.2	0	6.6	-1	0.8	-2	0.334	0	2.637	1	7.886	1	1522	52	1.3
47159.9	10000	41.0280	93.5240	-911	QKA	2.1	-1	6.4	-1	0.9	-2	0.324	0	2.488	1	7.672	1	1508	48	1.3
47160.0	10000	41.0280	93.5232	-908	QKA	2.0	-1	6.8	0	0.9	-2	0.299	-1	2.343	1	7.845	1	1516	43	1.3
47160.1	10000	41.0280	93.5223	-906	QKA	2.0	-1	6.7	-1	0.9	-2	0.301	-1	2.336	1	7.764	1	1525	50	1.3
47160.2	10000	41.0280	93.5215	-902	QKA	1.8	-1	7.2	0	0.9	-2	0.257	-1	2.117	2	8.223	2	1548	50	1.3
47160.3	10000	41.0280	93.5206	-898	QKA	1.9	-1	6.9	0	0.9	-2	0.270	-1	2.103	1	7.786	1	1555	44	1.3
47160.4	10000	41.0279	93.5197	-896	QKA	1.7	-2	6.8	-1	0.9	-1	0.242	-1	1.846	-1	7.635	1	1553	39	1.3
47160.5	10000	41.0279	93.5189	-892	QKA	1.8	-1	6.7	-1	0.9	-1	0.272	-1	2.047	0	7.518	1	1544	54	1.3
47160.6	10000	41.0279	93.5180	-888	QKA	1.8	-1	6.6	-1	0.9	-1	0.274	-1	2.061	0	7.532	1	1547	46	1.3
47160.7	10000	41.0279	93.5172	-883	QKA	1.8	-1	6.4	-1	0.9	-1	0.290	-1	2.088	0	7.209	1	1530	46	1.3
47160.8	10000	41.0279	93.5163	-878	QKA	1.7	-1	6.5	-1	1.0	-1	0.271	-1	1.850	-1	6.828	1	1535	43	1.3
47160.9	10000	41.0279	93.5154	-873	QKA	1.8	-1	6.2	-1	1.0	-1	0.280	-1	1.718	-1	6.132	-1	1533	51	1.3
47161.0	10000	41.0279	93.5146	-867	QKA	1.8	-1	6.1	-1	1.0	-1	0.298	-1	1.854	-1	6.225	-1	1543	45	1.3
47161.1	10000	41.0279	93.5137	-862	QKA	2.0	-1	6.4	-1	1.0	0	0.309	0	1.969	-1	6.364	0	1554	55	1.3
47161.2	10000	41.0279	93.5129	-856	QKA	1.9	-1	6.4	-1	1.0	0	0.290	-1	1.795	-1	6.195	-1	1558	48	1.3

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47161.3	10000	41.0279	93.5120	-849	QKA	2.0	-1	6.9	0	1.1	0	0.286	-1	1.842	-1	6.442	0	1569	39	1.3
47161.4	10000	41.0279	93.5112	-842	QKA	1.9	-1	6.7	-1	1.1	0	0.287	-1	1.817	-1	6.323	0	1574	43	1.3
47161.5	10000	41.0279	93.5103	-835	QKA	1.8	-1	6.6	-1	1.0	-1	0.267	-1	1.802	-1	6.743	0	1568	47	1.3
47161.6	10000	41.0279	93.5095	-826	QKA	1.8	-1	6.8	0	1.0	-1	0.260	-1	1.781	-1	6.840	0	1564	53	1.3
47161.7	10000	41.0279	93.5086	-816	QKA	1.6	-2	6.9	0	1.0	0	0.226	-2	1.506	-1	6.661	0	1545	47	1.3
47161.8	10000	41.0279	93.5078	-806	QKA	1.3	-2	6.9	0	1.0	0	0.193	-2	1.315	-2	6.822	0	1532	48	1.3
47161.9	10000	41.0279	93.5069	-796	QKA	1.5	-2	7.1	0	1.0	-1	0.214	-2	1.552	-1	7.247	1	1544	42	1.3
47162.0	10000	41.0279	93.5060	-786	QKA	1.6	-2	6.6	-1	1.0	-1	0.242	-1	1.638	-1	6.779	0	1538	42	1.3
47162.1	10000	41.0279	93.5052	-775	QKA	1.7	-1	6.9	0	1.0	-1	0.243	-1	1.725	-1	7.091	0	1536	41	1.3
47162.2	10000	41.0279	93.5043	-763	QKA	1.9	-1	6.8	0	1.0	-1	0.275	-1	1.881	-1	6.841	0	1536	44	1.3
47162.3	10000	41.0279	93.5035	-750	QKA	1.9	-1	6.7	-1	0.9	-1	0.286	-1	2.013	0	7.041	0	1552	39	1.3
47162.4	10000	41.0279	93.5026	-736	QKA	2.2	0	6.7	-1	0.9	-1	0.327	0	2.366	0	7.235	1	1567	47	1.3
47162.5	10000	41.0279	93.5018	-723	QKA	2.3	0	6.4	-1	0.9	-1	0.357	0	2.511	1	7.026	0	1572	51	1.3
47162.6	10000	41.0279	93.5009	-709	QKA	2.3	0	6.2	-1	0.9	-1	0.371	0	2.568	1	6.914	0	1552	53	1.3
47162.7	10000	41.0279	93.5001	-694	QKA	2.4	0	6.3	-1	0.9	-1	0.386	1	2.685	1	6.958	0	1548	45	1.3
47162.8	10000	41.0279	93.4992	-680	QKA	2.4	0	6.1	-1	0.9	-2	0.399	1	2.777	1	6.958	0	1552	40	1.3
47162.9	10000	41.0279	93.4984	-665	QKA	2.6	0	5.9	-2	0.8	-2	0.444	2	3.059	2	6.896	0	1544	47	1.3
47163.0	10000	41.0279	93.4975	-650	QKA	2.8	1	6.0	-1	0.9	-2	0.465	2	3.242	2	6.969	0	1533	37	1.3
47163.1	10000	41.0279	93.4966	-636	QKA	2.4	0	6.1	-1	0.8	-2	0.386	1	2.848	1	7.370	1	1524	54	1.3
47163.2	10000	41.0279	93.4958	-621	QKA	2.4	0	6.5	-1	0.9	-2	0.369	0	2.804	1	7.596	1	1537	33	1.3
47163.3	10000	41.0279	93.4949	-608	QKA	2.5	0	6.4	-1	0.9	-1	0.394	1	2.790	1	7.077	0	1548	39	1.3
47163.4	10000	41.0279	93.4941	-595	QKA	2.4	0	6.8	0	0.9	-1	0.354	0	2.627	1	7.410	1	1564	38	1.3
47163.5	10000	41.0279	93.4932	-583	QKA	2.1	-1	6.9	0	1.0	-1	0.309	0	2.182	0	7.055	0	1574	43	1.3
47163.6	10000	41.0279	93.4924	-573	QKA	2.0	-1	7.3	0	1.0	-1	0.269	-1	1.969	-1	7.321	1	1594	52	1.3
47163.7	10000	41.0279	93.4915	-562	QKA	1.9	-1	7.4	0	1.0	-1	0.251	-1	1.854	-1	7.393	1	1603	53	1.3
47163.8	10000	41.0279	93.4907	-555	QKA	2.3	0	7.3	0	1.0	0	0.312	0	2.244	0	7.182	1	1628	31	1.3
47163.9	10000	41.0279	93.4898	-545	QKA	2.5	0	6.7	-1	1.0	0	0.370	0	2.431	0	6.577	1	1639	47	1.3
47164.0	10000	41.0279	93.4890	-537	QKA	2.4	0	7.2	0	1.0	0	0.338	0	2.416	0	7.152	1	1650	46	1.3
47164.1	10000	41.0279	93.4881	-530	QKA	2.4	0	7.0	0	1.0	0	0.342	0	2.367	0	6.923	1	1654	42	1.3
47164.2	10000	41.0279	93.4872	-525	QKA	2.7	1	7.3	0	1.0	0	0.366	1	2.813	1	7.678	1	1660	45	1.3
47164.3	10000	41.0279	93.4864	-520	QKA	2.8	1	7.1	0	1.0	-1	0.399	1	2.891	1	7.254	1	1662	49	1.3
47164.4	10000	41.0279	93.4855	-517	QKA	2.9	1	7.0	0	1.0	-1	0.419	1	2.888	1	6.888	1	1668	38	1.3
47164.5	10000	41.0279	93.4847	-515	QKA	2.8	1	7.1	0	1.1	0	0.400	1	2.566	1	6.424	0	1685	45	1.3
47164.6	10000	41.0279	93.4838	-513	QKA	2.5	0	7.6	1	1.1	0	0.335	0	2.309	1	6.892	0	1696	50	1.3
47164.7	10000	41.0279	93.4830	-513	QKA	2.3	0	7.5	1	1.1	0	0.310	0	2.151	1	6.938	0	1694	44	1.3
47164.8	10000	41.0279	93.4821	-513	QKA	2.4	0	7.8	1	1.1	0	0.304	0	2.147	1	7.072	1	1691	42	1.3
47164.9	10000	41.0279	93.4813	-514	QKA	2.2	0	7.6	1	1.2	1	0.287	-1	1.883	-1	6.564	0	1678	45	1.3
47165.0	10000	41.0279	93.4804	-516	QKA	2.0	-1	7.7	1	1.2	1	0.265	-1	1.713	-1	6.454	0	1682	56	1.3
47165.1	10000	41.0279	93.4796	-518	QKA	1.7	-1	8.1	1	1.2	1	0.210	-2	1.438	-2	6.843	0	1675	32	1.3
47165.2	10000	41.0279	93.4787	-521	QKA	1.5	-2	7.8	1	1.1	1	0.194	-2	1.345	-2	6.952	0	1640	54	1.3
47165.3	10000	41.0279	93.4778	-524	QKA	1.6	-2	7.7	1	1.1	1	0.208	-2	1.504	-1	7.238	0	1616	40	1.3
47165.4	10000	41.0279	93.4770	-527	QKA	1.6	-2	7.6	1	1.1	1	0.211	-2	1.431	-2	6.794	0	1602	44	1.3
47165.5	10000	41.0279	93.4761	-531	QKA	1.6	-2	7.3	0	1.1	0	0.218	-2	1.472	-2	6.760	0	1584	41	1.3
47165.6	10000	41.0279	93.4753	-536	QKA	1.7	-2	7.0	0	1.0	-1	0.238	-1	1.639	-1	6.890	0	1561	48	1.3
47165.7	10000	41.0279	93.4744	-539	QKA	1.6	-2	7.0	0	0.9	-1	0.233	-2	1.769	-1	7.584	1	1529	44	1.3
47165.8	10000	41.0279	93.4736	-543	QKA	1.5	-2	6.7	-1	0.9	-1	0.223	-2	1.575	-1	7.062	1	1512	53	1.3
47165.9	10000	41.0279	93.4727	-547	QKA	1.7	-1	6.5	-1	1.0	-1	0.262	-1	1.775	-1	6.765	1	1496	55	1.3
47166.0	10000	41.0279	93.4719	-551	QKA	1.6	-2	6.5	-1	1.0	0	0.248	-1	1.605	-1	6.481	1	1498	48	1.3
47166.1	10000	41.0279	93.4710	-555	QKA	1.7	-1	6.5	-1	1.0	-1	0.264	-1	1.781	-1	6.758	1	1495	44	1.3
47166.2	10000	41.0279	93.4702	-561	QKA	1.6	-2	6.5	-1	1.0	-1	0.247	-1	1.665	-1	6.750	1	1483	51	1.3
47166.3	10000	41.0280	93.4693	-567	QKA	1.5	-2	6.5	-1	1.0	-1	0.234	-2	1.526	-1	6.523	1	1483	43	1.3
47166.4	10000	41.0279	93.4684	-571	QKA	1.6	-2	6.7	-1	1.0	-1	0.240	-1	1.620	-1	6.752	0	1483	45	1.3

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47166.5	10000	41.0279	93.4676	-573	QKA	1.9	-1	6.5	-1	1.0	-1	0.285	-1	1.917	-1	6.724	0	1477	55	1.3
47166.6	10000	41.0279	93.4667	-579	QKA	1.7	-1	6.7	-1	0.9	-1	0.254	-1	1.812	-1	7.126	1	1478	44	1.3
47166.7	10000	41.0280	93.4659	-587	QKA	1.7	-1	6.2	-1	0.9	-1	0.274	-1	1.881	-1	6.855	0	1440	42	1.3
47166.8	10000	41.0279	93.4650	-592	QKA	1.6	-2	5.6	-2	0.9	-2	0.292	-1	1.885	-1	6.463	0	1401	34	1.3
47166.9	10000	41.0280	93.4642	-596	QKA	1.6	-2	5.3	-2	0.8	-2	0.302	-1	1.945	-1	6.434	0	1359	59	1.3
47167.0	10000	41.0280	93.4633	-598	QKA	1.8	-1	4.6	-3	0.7	-2	0.398	1	2.494	0	6.275	-1	1314	36	1.3
47167.1	10000	41.0280	93.4625	-602	QKA	1.9	-1	4.2	-4	0.7	-3	0.455	2	2.745	1	6.035	-1	1291	45	1.3
47167.2	10000	41.0280	93.4616	-610	QKA	2.0	-1	4.0	-4	0.7	-3	0.492	2	2.999	1	6.101	-1	1275	44	1.3
47167.3	10000	41.0280	93.4608	-612	QKA	2.1	-1	4.0	-4	0.7	-3	0.516	3	3.146	2	6.092	-1	1271	47	1.3
47167.4	10000	41.0279	93.4599	-609	QKA	2.3	0	4.2	-4	0.7	-3	0.548	3	3.424	2	6.247	-1	1293	42	1.2
47167.5	10000	41.0280	93.4590	-608	QKA	2.2	0	5.0	-3	0.7	-3	0.441	1	3.243	2	7.360	1	1326	59	1.2
47167.6	10000	41.0280	93.4582	-615	QKA	2.2	0	5.1	-3	0.7	-2	0.431	1	2.976	1	6.907	0	1371	39	1.2
47167.7	10000	41.0280	93.4573	-622	QKA	2.0	-1	6.2	-1	0.8	-2	0.317	0	2.494	0	7.865	1	1445	44	1.2
47167.8	10000	41.0280	93.4565	-624	QKA	2.0	-1	6.5	-1	0.8	-2	0.305	0	2.378	0	7.809	1	1502	54	1.2
47167.9	10000	41.0280	93.4556	-629	QKA	1.9	-1	7.3	0	0.9	-1	0.256	-1	2.098	0	8.208	2	1553	46	1.2
47168.0	10000	41.0280	93.4548	-634	QKA	2.0	-1	7.7	1	0.9	-1	0.255	-1	2.128	0	8.342	2	1590	49	1.2
47168.1	10000	41.0280	93.4539	-637	QKA	1.8	-1	7.8	1	1.0	-1	0.230	-2	1.879	-1	8.166	2	1625	44	1.2
47168.2	10000	41.0280	93.4531	-641	QKA	2.0	-1	7.9	1	1.0	-1	0.258	-1	2.089	0	8.105	2	1662	36	1.2
47168.3	10000	41.0280	93.4522	-643	QKA	2.2	0	8.1	1	1.0	-1	0.266	-1	2.189	0	8.223	2	1690	47	1.2
47168.4	10000	41.0280	93.4514	-646	QKA	2.2	0	7.7	1	1.0	0	0.290	-1	2.205	0	7.608	1	1677	39	1.2
47168.5	10000	41.0280	93.4505	-649	QKA	2.2	0	7.7	1	1.0	0	0.285	-1	2.111	0	7.404	1	1666	30	1.2
47168.6	10000	41.0280	93.4496	-651	QKA	2.6	1	7.5	1	1.0	-1	0.350	0	2.639	1	7.540	1	1658	41	1.2
47168.7	10000	41.0280	93.4488	-654	QKA	2.6	0	7.2	0	1.0	0	0.368	0	2.606	1	7.085	0	1649	47	1.2
47168.8	10000	41.0280	93.4479	-656	QKA	2.6	0	7.1	0	1.0	0	0.370	0	2.585	1	6.990	0	1635	41	1.2
47168.9	10000	41.0280	93.4471	-657	QKA	2.5	0	7.0	0	1.1	0	0.365	0	2.409	1	6.606	0	1625	42	1.2
47169.0	10000	41.0280	93.4462	-659	QKA	2.4	0	7.2	0	1.0	0	0.329	0	2.272	0	6.898	0	1619	49	1.2
47169.1	10000	41.0280	93.4454	-660	QKA	2.5	0	7.5	0	1.0	0	0.326	0	2.385	0	7.309	1	1619	51	1.2
47169.2	10000	41.0280	93.4445	-662	QKA	2.2	0	7.5	0	1.0	0	0.298	-1	2.165	0	7.277	1	1604	44	1.2
47169.3	10000	41.0280	93.4437	-663	QKA	1.8	-1	7.1	0	1.1	0	0.248	-1	1.668	-1	6.716	0	1587	25	1.2
47169.4	10000	41.0280	93.4428	-664	QKA	1.7	-1	7.7	1	1.0	0	0.223	-2	1.664	-1	7.448	1	1594	46	1.2
47169.5	10000	41.0280	93.4420	-665	QKA	1.7	-1	7.8	1	1.0	0	0.222	-2	1.711	-1	7.710	1	1587	50	1.2
47169.6	10000	41.0280	93.4411	-666	QKA	1.8	-1	7.5	1	1.0	0	0.245	-1	1.852	-1	7.546	1	1578	51	1.2
47169.7	10000	41.0280	93.4402	-666	QKA	1.8	-1	7.2	0	1.0	0	0.250	-1	1.812	-1	7.250	1	1585	54	1.2
47169.8	10000	41.0280	93.4394	-666	QKA	1.8	-1	7.1	0	1.0	0	0.253	-1	1.712	-1	6.771	0	1605	41	1.2
47169.9	10000	41.0280	93.4385	-667	QKA	1.8	-1	7.1	0	1.0	0	0.260	-1	1.768	-1	6.790	0	1606	50	1.2
47170.0	10000	41.0280	93.4377	-666	QKA	1.9	-1	7.3	0	1.0	0	0.256	-1	1.835	-1	7.158	1	1597	47	1.2
47170.1	10000	41.0280	93.4368	-667	QKA	1.8	-1	7.1	0	1.0	0	0.250	-1	1.826	-1	7.122	1	1578	40	1.2
47170.2	10000	41.0280	93.4360	-667	QKA	1.9	-1	7.0	0	1.0	0	0.273	-1	1.994	-1	7.315	1	1569	52	1.2
47170.3	10000	41.0280	93.4351	-667	QKA	1.7	-1	7.1	0	0.9	-1	0.237	-1	1.825	-1	7.690	1	1559	47	1.2
47170.4	10000	41.0280	93.4343	-667	QKA	1.8	-1	7.3	0	0.9	-1	0.250	-1	2.019	0	8.092	2	1539	51	1.2
47170.5	10000	41.0280	93.4334	-667	QKA	1.8	-1	7.2	0	0.9	-1	0.253	-1	2.110	0	8.336	2	1517	58	1.2
47170.6	10000	41.0280	93.4326	-666	QKA	1.9	-1	7.3	0	0.8	-2	0.259	-1	2.289	0	8.831	2	1517	49	1.2
47170.7	10000	41.0280	93.4317	-666	QKA	1.9	-1	7.3	0	0.8	-2	0.265	-1	2.408	0	9.072	2	1525	40	1.2
47170.8	10000	41.0280	93.4308	-665	QKA	2.0	-1	7.2	0	0.8	-2	0.282	-1	2.492	0	8.841	2	1534	51	1.2
47170.9	10000	41.0280	93.4300	-664	QKA	1.9	-1	7.3	0	0.8	-2	0.263	-1	2.314	0	8.806	2	1541	49	1.2
47171.0	10000	41.0280	93.4291	-664	QKA	1.9	-1	7.7	0	0.8	-2	0.242	-1	2.301	0	9.514	3	1537	50	1.2
47171.1	10000	41.0280	93.4283	-662	QKA	1.8	-1	7.5	0	0.8	-2	0.243	-1	2.223	0	9.167	3	1543	52	1.2
47171.2	10000	41.0280	93.4274	-662	QKA	1.7	-1	7.5	0	0.8	-2	0.225	-2	2.077	0	9.231	3	1535	55	1.2
47171.3	10000	41.0280	93.4266	-661	QKA	1.7	-1	7.6	0	0.8	-2	0.228	-2	2.026	0	8.878	3	1542	36	1.2
47171.4	10000	41.0280	93.4257	-660	QKA	1.7	-1	7.5	0	0.8	-2	0.226	-2	1.914	-1	8.467	2	1546	46	1.2
47171.5	10000	41.0280	93.4249	-659	QKA	1.5	-2	7.4	0	0.8	-2	0.208	-2	1.755	-1	8.430	2	1546	42	1.2
47171.6	10000	41.0280	93.4240	-659	QKA	1.7	-1	7.4	0	0.9	-1	0.234	-1	1.962	-1	8.380	2	1558	40	1.2

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47171.7	10000	41.0280	93.4232	-658	QKA	2.1	-1	7.1	0	0.9	-1	0.290	-1	2.210	0	7.622	1	1586	47	1.2
47171.8	10000	41.0280	93.4223	-658	QKA	2.3	0	7.5	1	1.0	-1	0.301	-1	2.291	0	7.605	1	1603	45	1.2
47171.9	10000	41.0280	93.4214	-657	QKA	2.6	0	7.0	0	1.0	-1	0.368	0	2.608	1	7.085	0	1616	51	1.2
47172.0	10000	41.0280	93.4206	-656	QKA	2.5	0	6.5	-1	1.0	-1	0.382	1	2.485	0	6.500	0	1609	61	1.2
47172.1	10000	41.0280	93.4197	-655	QKA	2.6	0	6.4	-1	1.0	0	0.405	1	2.533	1	6.252	-1	1606	43	1.2
47172.2	10000	41.0280	93.4189	-655	QKA	2.7	1	6.4	-1	1.1	0	0.422	1	2.520	1	5.974	-1	1602	40	1.2
47172.3	10000	41.0280	93.4180	-654	QKA	2.4	0	6.0	-1	1.1	0	0.392	1	2.165	0	5.519	-1	1581	45	1.2
47172.4	10000	41.0280	93.4172	-654	QKA	2.0	-1	6.0	-2	1.0	0	0.339	0	1.948	-1	5.739	-1	1536	47	1.2
47172.5	10000	41.0280	93.4163	-654	QKA	1.7	-1	5.6	-2	1.0	-1	0.310	0	1.792	-1	5.771	-1	1498	39	1.2
47172.6	10000	41.0280	93.4155	-653	QKA	1.4	-2	6.1	-1	1.0	-1	0.233	-2	1.447	-2	6.203	-1	1492	46	1.2
47172.7	10000	41.0280	93.4146	-653	QKA	1.4	-2	6.3	-1	0.9	-1	0.215	-2	1.458	-2	6.786	0	1483	47	1.2
47172.8	10000	41.0280	93.4138	-652	QKA	1.4	-2	6.5	-1	0.9	-1	0.219	-2	1.552	-1	7.100	1	1490	53	1.2
47172.9	10000	41.0280	93.4129	-652	QKA	1.5	-2	6.4	-1	0.9	-1	0.240	-1	1.681	-1	7.006	0	1496	45	1.2
47173.0	10000	41.0280	93.4120	-651	QKA	1.6	-2	6.7	-1	0.9	-1	0.240	-1	1.744	-1	7.270	1	1505	38	1.2
47173.1	10000	41.0280	93.4112	-651	QKA	1.8	-1	6.6	-1	0.9	-1	0.275	-1	1.955	-1	7.107	1	1527	46	1.2
47173.2	10000	41.0280	93.4103	-650	QKA	1.9	-1	6.6	-1	1.0	-1	0.282	-1	1.959	-1	6.949	0	1546	47	1.2
47173.3	10000	41.0280	93.4095	-649	QKA	1.9	-1	6.5	-1	1.0	-1	0.290	-1	1.988	-1	6.850	0	1566	50	1.2
47173.4	10000	41.0280	93.4086	-649	QKA	2.0	-1	6.4	-1	1.0	0	0.316	0	2.012	0	6.375	0	1585	42	1.2
47173.5	10000	41.0280	93.4078	-649	QKA	2.2	-1	6.5	-1	1.0	0	0.334	0	2.100	0	6.291	0	1607	37	1.2
47173.6	10000	41.0280	93.4069	-649	QKA	2.1	-1	6.8	0	1.1	0	0.309	0	1.942	-1	6.281	-1	1633	41	1.2
47173.7	10000	41.0280	93.4061	-649	QKA	2.3	0	6.8	0	1.1	0	0.335	0	2.023	0	6.034	-1	1655	39	1.2
47173.8	10000	41.0280	93.4052	-648	QKA	2.3	0	6.3	-1	1.2	0	0.370	0	2.028	0	5.485	-1	1662	38	1.2
47173.9	10000	41.0280	93.4044	-648	QKA	2.6	0	6.2	-1	1.1	0	0.413	0	2.232	0	5.399	-2	1674	51	1.2
47174.0	10000	41.0280	93.4035	-648	QKA	2.6	0	6.1	-1	1.1	0	0.424	1	2.402	0	5.666	-1	1645	54	1.2
47174.1	10000	41.0280	93.4026	-648	QKA	2.5	0	6.3	-1	1.0	0	0.389	1	2.411	0	6.195	-1	1619	32	1.2
47174.2	10000	41.0280	93.4018	-649	QKA	2.3	0	5.9	-2	0.9	-1	0.382	1	2.312	0	6.058	-1	1583	45	1.2
47174.3	10000	41.0280	93.4009	-649	QKA	2.2	0	5.6	-2	0.9	-1	0.390	1	2.398	0	6.146	-1	1538	58	1.2
47174.4	10000	41.0280	93.4001	-649	QKA	2.0	-1	5.5	-2	0.9	-2	0.362	0	2.337	0	6.452	0	1504	47	1.2
47174.5	10000	41.0280	93.3992	-649	QKA	1.9	-1	5.9	-2	0.9	-2	0.326	0	2.213	0	6.778	0	1515	56	1.2
47174.6	10000	41.0280	93.3984	-648	QKA	1.7	-2	5.8	-2	0.9	-1	0.284	-1	1.878	-1	6.609	0	1530	47	1.2
47174.7	10000	41.0280	93.3975	-648	QKA	1.9	-1	6.1	-1	1.0	0	0.315	0	1.978	-1	6.272	-1	1567	46	1.2
47174.8	10000	41.0280	93.3967	-647	QKA	2.1	-1	6.3	-1	1.0	0	0.340	0	2.089	0	6.144	-1	1608	37	1.2
47174.9	10000	41.0280	93.3958	-647	QKA	2.2	0	7.1	0	1.1	0	0.308	0	2.012	0	6.538	0	1660	51	1.3
47175.0	10000	41.0280	93.3950	-647	QKA	2.0	-1	7.3	0	1.1	0	0.279	-1	1.824	-1	6.537	0	1693	44	1.3
47175.1	10000	41.0280	93.3941	-646	QKA	2.2	0	7.3	1	1.2	0	0.304	0	1.885	-1	6.206	-1	1740	48	1.3
47175.2	10000	41.0280	93.3932	-645	QKA	2.3	0	7.4	1	1.2	0	0.307	0	1.934	-1	6.299	0	1753	39	1.3
47175.3	10000	41.0280	93.3924	-645	QKA	2.5	0	7.5	1	1.2	0	0.327	0	2.022	0	6.182	-1	1763	42	1.3
47175.4	10000	41.0280	93.3915	-644	QKA	2.3	0	7.6	1	1.2	0	0.308	0	1.885	-1	6.114	-1	1776	63	1.3
47175.5	10000	41.0280	93.3907	-644	QKA	2.1	-1	7.4	0	1.3	-1	0.285	-1	1.658	-1	5.817	-1	1784	46	1.3
47175.6	10000	41.0280	93.3898	-643	QKA	2.1	-1	7.2	0	1.2	-1	0.294	-1	1.703	-1	5.798	-1	1773	49	1.3
47175.7	10000	41.0280	93.3890	-642	QKA	2.3	0	7.8	1	1.2	-1	0.297	-1	1.882	-1	6.339	0	1765	29	1.3
47175.8	10000	41.0281	93.3881	-641	QKA	2.1	-1	8.1	1	1.2	-1	0.258	-1	1.808	-1	7.006	0	1736	47	1.3
47175.9	10000	41.0281	93.3872	-640	QKA	1.9	-1	8.2	1	1.1	-2	0.234	-2	1.703	-1	7.285	1	1700	46	1.3
47176.0	10000	41.0281	93.3864	-639	QKA	1.9	-1	8.2	1	1.1	-2	0.231	-2	1.782	-1	7.704	1	1661	52	1.3
47176.1	10000	41.0281	93.3855	-638	QKA	1.8	-1	7.8	1	1.0	-2	0.228	-2	1.720	-1	7.538	1	1619	50	1.3
47176.2	10000	41.0281	93.3847	-637	QKA	2.0	-1	7.5	0	1.0	-1	0.266	-1	2.042	0	7.685	1	1596	56	1.3
47176.3	10000	41.0281	93.3838	-636	QKA	1.8	-1	7.0	0	1.0	-1	0.262	-1	1.876	-1	7.147	1	1565	55	1.3
47176.4	10000	41.0281	93.3829	-634	QKA	1.9	-1	6.7	-1	1.0	-1	0.291	-1	1.973	-1	6.789	0	1563	49	1.3
47176.5	10000	41.0281	93.3821	-632	QKA	2.0	-1	6.7	-1	1.0	-1	0.297	-1	1.991	-1	6.712	0	1578	51	1.3
47176.6	10000	41.0282	93.3812	-631	QKA	1.8	-1	6.7	-1	1.0	-1	0.270	-1	1.740	-1	6.433	0	1597	50	1.3
47176.7	10000	41.0282	93.3804	-628	QKA	1.8	-1	7.1	0	1.1	0	0.253	-1	1.705	-1	6.748	0	1637	42	1.3
47176.8	10000	41.0282	93.3795	-627	QKA	1.7	-1	7.7	1	1.1	0	0.218	-2	1.541	-1	7.075	0	1682	43	1.3

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47176.9	10000	41.0282	93.3787	-625	QKA	1.7	-1	8.2	1	1.1	0	0.209	-2	1.516	-1	7.267	1	1697	50	1.3
47177.0	10000	41.0282	93.3778	-623	QKA	1.8	-1	8.5	2	1.1	0	0.214	-2	1.648	-1	7.695	1	1703	44	1.3
47177.1	10000	41.0282	93.3769	-620	QKA	1.7	-2	8.7	2	1.1	0	0.191	-2	1.507	-1	7.876	1	1711	64	1.3
47177.2	10000	41.0282	93.3761	-618	QKA	1.9	-1	8.6	2	1.1	0	0.220	-2	1.718	-1	7.798	1	1708	53	1.3
47177.3	10000	41.0283	93.3752	-616	QKA	2.1	-1	8.8	2	1.1	0	0.241	-1	1.967	-1	8.164	2	1713	41	1.3
47177.4	10000	41.0283	93.3744	-614	QKA	2.1	-1	8.5	2	1.1	0	0.248	-1	2.009	0	8.100	2	1689	32	1.3
47177.5	10000	41.0283	93.3735	-611	QKA	2.3	0	8.5	2	1.0	0	0.273	-1	2.264	0	8.288	2	1678	45	1.3
47177.6	10000	41.0283	93.3727	-608	QKA	2.2	-1	8.3	2	1.0	-1	0.258	-1	2.139	0	8.277	2	1677	56	1.3
47177.7	10000	41.0283	93.3718	-606	QKA	2.1	-1	8.5	2	1.1	0	0.251	-1	1.997	-1	7.947	2	1714	37	1.3
47177.8	10000	41.0283	93.3709	-604	QKA	2.2	0	7.9	1	1.1	0	0.277	-1	1.975	-1	7.126	1	1730	46	1.3
47177.9	10000	41.0283	93.3701	-600	QKA	1.9	-1	7.8	1	1.1	0	0.243	-1	1.650	-1	6.793	0	1741	38	1.3
47178.0	10000	41.0284	93.3692	-597	QKA	1.8	-1	7.7	1	1.1	0	0.234	-1	1.586	-1	6.775	0	1749	47	1.3
47178.1	10000	41.0284	93.3684	-594	QKA	2.0	-1	8.3	2	1.2	1	0.238	-1	1.659	-1	6.963	0	1774	33	1.3
47178.2	10000	41.0284	93.3675	-592	QKA	1.9	-1	8.3	2	1.2	1	0.235	-1	1.629	-1	6.932	0	1788	36	1.3
47178.3	10000	41.0284	93.3666	-589	QKA	2.0	-1	8.5	2	1.2	1	0.234	-1	1.601	-1	6.840	0	1795	43	1.3
47178.4	10000	41.0284	93.3658	-586	QKA	2.0	-1	8.3	2	1.2	1	0.248	-1	1.714	-1	6.923	0	1779	55	1.3
47178.5	10000	41.0284	93.3649	-583	QKA	2.1	-1	8.4	2	1.2	1	0.248	-1	1.797	-1	7.252	1	1759	47	1.3
47178.6	10000	41.0284	93.3641	-579	QKA	2.3	0	8.6	2	1.1	0	0.265	-1	2.065	0	7.785	1	1770	49	1.3
47178.7	10000	41.0284	93.3632	-576	QKA	2.4	0	8.4	2	1.1	0	0.279	-1	2.130	0	7.626	1	1773	59	1.3
47178.8	10000	41.0285	93.3624	-574	QKA	2.2	0	8.1	2	1.1	0	0.272	-1	2.083	0	7.655	1	1773	41	1.3
47178.9	10000	41.0285	93.3615	-571	QKA	2.4	0	8.2	2	1.1	0	0.291	-1	2.269	0	7.787	1	1762	41	1.3
47179.0	10000	41.0285	93.3606	-569	QKA	2.4	0	8.0	2	1.0	0	0.296	-1	2.316	0	7.826	1	1764	50	1.3
47179.1	10000	41.0285	93.3598	-567	QKA	2.4	0	8.1	2	1.0	0	0.289	-1	2.296	0	7.943	2	1771	52	1.3
47179.2	10000	41.0285	93.3589	-564	QKA	2.5	0	8.5	2	1.0	-1	0.289	-1	2.435	0	8.415	2	1786	39	1.3
47179.3	10000	41.0285	93.3581	-561	QKA	2.5	0	8.5	2	1.0	-1	0.299	-1	2.520	1	8.433	2	1782	54	1.3
47179.4	10000	41.0285	93.3572	-560	QKA	2.8	1	8.7	2	1.0	-1	0.319	0	2.843	1	8.903	3	1787	34	1.3
47179.5	10000	41.0285	93.3563	-557	QKA	2.7	0	8.5	2	1.0	0	0.317	0	2.625	1	8.285	2	1787	46	1.3
47179.6	10000	41.0286	93.3555	-555	QKA	2.5	0	8.2	2	1.1	0	0.310	0	2.291	0	7.385	1	1795	36	1.3
47179.7	10000	41.0286	93.3546	-552	QKA	2.5	0	8.3	2	1.1	0	0.297	-1	2.284	0	7.682	1	1786	48	1.3
47179.8	10000	41.0286	93.3538	-550	QKA	2.5	0	8.0	2	1.1	0	0.313	0	2.243	0	7.172	1	1785	38	1.3
47179.9	10000	41.0286	93.3529	-548	QKA	2.4	0	7.7	2	1.1	0	0.310	0	2.124	0	6.843	1	1782	45	1.3
47180.0	10000	41.0286	93.3521	-546	QKA	2.3	0	7.4	2	1.1	0	0.314	0	2.065	0	6.566	0	1767	40	1.3
47180.1	10000	41.0286	93.3512	-544	QKA	2.2	0	7.3	2	1.2	1	0.304	-1	1.921	-1	6.308	0	1751	41	1.3
47180.2	10000	41.0286	93.3503	-542	QKA	2.2	0	7.1	2	1.1	0	0.315	0	2.003	0	6.362	1	1736	36	1.3
47180.3	10000	41.0287	93.3495	-540	QKA	2.0	-1	7.2	2	1.1	0	0.276	-1	2.023	0	7.322	1	1732	45	1.3
47180.4	10000	41.0287	93.3486	-538	QKA	2.3	0	6.9	2	1.1	0	0.329	0	2.243	0	6.825	1	1741	39	1.3
47180.5	10000	41.0287	93.3477	-537	QKA	2.4	0	7.2	2	1.1	0	0.337	0	2.427	0	7.210	1	1753	41	1.3
47180.6	10000	41.0287	93.3469	-535	QKA	2.6	0	6.9	2	1.1	0	0.376	0	2.512	0	6.679	1	1754	40	1.3
47180.7	10000	41.0287	93.3460	-533	QKA	2.5	0	7.3	2	1.1	0	0.347	0	2.358	0	6.793	1	1769	38	1.3
47180.8	10000	41.0287	93.3452	-531	QKA	2.4	0	7.5	2	1.1	0	0.317	0	2.199	0	6.942	1	1789	34	1.3
47180.9	10000	41.0287	93.3443	-529	QKA	2.5	0	7.7	2	1.1	0	0.320	0	2.268	0	7.089	1	1793	44	1.3
47181.0	10000	41.0287	93.3435	-528	QKA	2.5	0	7.6	2	1.1	0	0.329	0	2.317	0	7.033	1	1771	47	1.3
47181.1	10000	41.0288	93.3426	-526	QKA	2.3	0	7.8	2	1.0	0	0.292	-1	2.162	0	7.410	1	1735	43	1.3
47181.2	10000	41.0288	93.3418	-525	QKA	1.9	-1	7.7	2	1.0	0	0.254	-1	2.034	0	8.012	2	1670	43	1.3
47181.3	10000	41.0288	93.3409	-524	QKA	1.6	-2	7.5	2	0.9	-1	0.214	-2	1.816	-1	8.498	2	1589	46	1.3
47181.4	10000	41.0288	93.3400	-523	QKA	1.3	-2	6.9	2	0.8	-1	0.193	-2	1.652	-1	8.543	2	1514	43	1.3
47181.5	10000	41.0288	93.3392	-522	QKA	1.4	-2	6.3	2	0.8	-2	0.226	-2	1.763	-1	7.814	2	1457	42	1.3
47181.6	10000	41.0288	93.3383	-521	QKA	1.2	-2	6.2	2	0.8	-2	0.198	-2	1.525	-1	7.709	2	1428	45	1.3
47181.7	10000	41.0288	93.3374	-520	QKA	1.5	-2	6.2	2	0.9	-2	0.234	-1	1.748	-1	7.458	2	1425	37	1.3
47181.8	10000	41.0288	93.3366	-519	QKA	1.8	-1	6.1	2	0.9	-1	0.297	-1	1.988	-1	6.700	1	1468	46	1.3
47181.9	10000	41.0289	93.3357	-518	QKA	2.0	-1	6.1	2	1.0	-1	0.325	0	2.036	0	6.261	-1	1533	51	1.3
47182.0	10000	41.0289	93.3349	-517	QKA	2.0	-1	6.7	2	1.1	0	0.307	0	1.897	-1	6.180	-1	1622	46	1.3

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47182.1	10000	41.0289	93.3340	-516	QKA	2.3	0	7.2	0	1.2	1	0.322	0	1.936	-1	6.007	-1	1709	43	1.3
47182.2	10000	41.0289	93.3332	-516	QKA	2.4	0	7.2	0	1.2	1	0.331	0	2.027	0	6.121	-1	1739	44	1.3
47182.3	10000	41.0289	93.3323	-515	QKA	2.6	0	7.3	0	1.2	1	0.351	0	2.100	0	5.980	-1	1771	45	1.3
47182.4	10000	41.0289	93.3315	-514	QKA	2.7	1	7.2	0	1.3	1	0.377	1	2.121	0	5.623	-1	1808	35	1.3
47182.5	10000	41.0289	93.3306	-515	QKA	2.6	0	7.3	0	1.2	1	0.354	0	2.175	0	6.151	-1	1811	35	1.3
47182.6	10000	41.0290	93.3297	-514	QKA	2.7	1	7.3	0	1.2	1	0.371	0	2.313	0	6.232	-1	1800	37	1.3
47182.7	10000	41.0290	93.3289	-517	QKA	2.9	1	7.2	0	1.1	0	0.402	1	2.691	1	6.699	0	1775	53	1.3
47182.8	10000	41.0290	93.3280	-522	QKA	2.9	1	7.1	0	1.0	-1	0.410	1	2.936	1	7.165	1	1736	46	1.3
47182.9	10000	41.0290	93.3271	-529	QKA	2.8	1	7.1	0	1.0	-1	0.400	1	2.895	1	7.242	1	1734	42	1.3
47183.0	10000	41.0290	93.3263	-538	QKA	2.7	1	6.9	0	1.0	-1	0.398	1	2.828	1	7.109	1	1716	34	1.3
47183.1	10000	41.0290	93.3254	-542	QKA	2.4	0	6.7	-1	0.9	-1	0.363	0	2.635	1	7.261	1	1693	43	1.3
47183.2	10000	41.0290	93.3246	-535	QKA	2.2	0	6.6	-1	1.0	-1	0.341	0	2.308	0	6.772	0	1670	54	1.3
47183.3	10000	41.0290	93.3237	-526	QKA	2.1	-1	6.8	0	1.0	-1	0.303	0	2.066	0	6.811	0	1669	49	1.3
47183.4	10000	41.0291	93.3229	-517	CULTRL	2.1	999	7.2	999	1.0	999	0.296	999	2.095	999	7.084	999	1676	55	1.3
47183.5	10000	41.0291	93.3220	-512	CULTRL	2.1	999	7.2	999	1.1	999	0.285	999	1.951	999	6.848	999	1692	32	1.3
47183.6	10000	41.0291	93.3211	-507	CULTRL	2.1	999	7.1	999	1.1	999	0.300	999	1.950	999	6.498	999	1705	55	1.3
47183.7	10000	41.0291	93.3203	-502	CULTRL	2.2	999	7.0	999	1.1	999	0.318	999	2.097	999	6.591	999	1708	51	1.3
47183.8	10000	41.0291	93.3194	-498	CULTRL	2.5	999	7.4	999	1.0	999	0.333	999	2.385	999	7.173	999	1709	37	1.3
47183.9	10000	41.0291	93.3186	-494	CULTRL	2.7	999	7.5	999	1.0	999	0.363	999	2.650	999	7.295	999	1738	38	1.3
47184.0	10000	41.0291	93.3177	-491	CULTRL	2.8	999	7.1	999	1.0	999	0.393	999	2.643	999	6.731	999	1748	59	1.3
47184.1	10000	41.0291	93.3168	-488	CULTRL	2.6	999	7.0	999	1.1	999	0.376	999	2.445	999	6.506	999	1754	49	1.3
47184.2	10000	41.0292	93.3160	-484	CULTRL	2.5	999	7.4	999	1.1	999	0.342	999	2.329	999	6.820	999	1760	49	1.4
47184.3	10000	41.0292	93.3151	-481	CULTRL	2.4	999	7.9	999	1.1	999	0.300	999	2.242	999	7.485	999	1765	62	1.4
47184.4	10000	41.0292	93.3143	-477	CULTRL	2.3	999	8.3	999	1.1	999	0.273	999	2.124	999	7.784	999	1768	52	1.4
47184.5	10000	41.0292	93.3134	-474	CULTRL	2.1	999	8.4	999	1.1	999	0.256	999	1.997	999	7.806	999	1774	50	1.4
47184.6	10000	41.0292	93.3126	-470	CULTRL	2.0	999	8.7	999	1.1	999	0.225	999	1.836	999	8.163	999	1751	46	1.4
47184.7	10000	41.0292	93.3117	-466	CULTRL	2.0	999	9.0	999	1.0	999	0.224	999	1.918	999	8.559	999	1725	42	1.4
47184.8	10000	41.0292	93.3108	-462	CULTRL	2.1	999	8.6	999	1.0	999	0.243	999	2.013	999	8.270	999	1706	40	1.4
47184.9	10000	41.0293	93.3100	-459	CULTRL	2.2	999	7.7	999	1.0	999	0.282	999	2.212	999	7.856	999	1670	45	1.4
47185.0	10000	41.0293	93.3091	-454	CULTRL	2.1	999	7.3	999	1.0	999	0.286	999	2.132	999	7.448	999	1623	42	1.4
47185.1	10000	41.0293	93.3083	-450	CULTRL	2.3	999	7.0	999	1.0	999	0.328	999	2.376	999	7.244	999	1602	57	1.4
47185.2	10000	41.0293	93.3074	-448	CULTRL	2.4	999	6.3	999	1.0	999	0.375	999	2.392	999	6.382	999	1572	45	1.4
47185.3	10000	41.0293	93.3065	-445	CULTRL	2.1	999	5.9	999	1.0	999	0.360	999	2.212	999	6.146	999	1545	56	1.4
47185.4	10000	41.0293	93.3057	-441	CULTRL	2.0	999	5.8	999	0.9	999	0.352	999	2.185	999	6.205	999	1533	44	1.4
47185.5	10000	41.0293	93.3048	-437	CULTRL	1.9	999	6.0	999	0.9	999	0.314	999	1.994	999	6.350	999	1527	48	1.4
47185.6	10000	41.0293	93.3040	-434	CULTRL	1.9	999	6.0	999	1.0	999	0.319	999	1.975	999	6.188	999	1535	43	1.4
47185.7	10000	41.0294	93.3031	-431	CULTRL	2.0	999	6.1	999	1.0	999	0.336	999	2.099	999	6.245	999	1549	55	1.4
47185.8	10000	41.0294	93.3023	-428	CULTRL	1.9	999	6.1	999	1.0	999	0.313	999	1.966	999	6.272	999	1540	43	1.4
47185.9	10000	41.0294	93.3014	-424	CULTRL	2.0	999	6.1	999	0.9	999	0.335	999	2.205	999	6.588	999	1534	42	1.5
47186.0	10000	41.0294	93.3005	-419	CULTRL	2.2	999	6.0	999	0.9	999	0.376	999	2.418	999	6.424	999	1541	51	1.5
47186.1	10000	41.0294	93.2997	-417	QKA	2.1	-1	5.8	-2	1.0	-1	0.367	0	2.208	0	6.011	-1	1567	47	1.5
47186.2	10000	41.0294	93.2988	-419	QKA	2.2	0	6.2	-1	1.0	-1	0.352	0	2.255	0	6.402	0	1597	38	1.5
47186.3	10000	41.0294	93.2980	-423	QKA	2.3	0	6.3	-1	1.0	-1	0.362	0	2.330	0	6.431	0	1631	38	1.5
47186.4	10000	41.0294	93.2971	-416	QKA	2.3	0	6.1	-1	1.1	0	0.376	1	2.184	0	5.807	-1	1667	47	1.5
47186.5	10000	41.0295	93.2962	-405	QKA	2.4	0	6.5	-1	1.1	0	0.374	1	2.200	0	5.876	-1	1707	39	1.5
47186.6	10000	41.0295	93.2954	-397	QKA	2.2	0	6.8	0	1.2	1	0.319	0	1.885	-1	5.915	-1	1743	46	1.5
47186.7	10000	41.0295	93.2945	-391	QKA	2.1	-1	7.0	0	1.2	1	0.303	0	1.777	-1	5.857	-1	1761	41	1.5
47186.8	10000	41.0295	93.2937	-386	QKA	2.1	-1	7.4	0	1.2	1	0.288	-1	1.820	-1	6.321	0	1766	44	1.5
47186.9	10000	41.0295	93.2928	-382	QKA	2.1	-1	7.1	0	1.2	1	0.292	-1	1.762	-1	6.043	-1	1749	42	1.5
47187.0	10000	41.0295	93.2920	-379	QKA	1.8	-1	7.2	0	1.2	1	0.252	-1	1.552	-1	6.163	-1	1716	57	1.5
47187.1	10000	41.0295	93.2911	-376	QKA	1.8	-1	7.2	0	1.1	0	0.248	-1	1.632	-1	6.589	0	1685	51	1.5
47187.2	10000	41.0295	93.2902	-373	QKA	1.6	-2	7.1	0	1.1	0	0.220	-2	1.472	-2	6.680	0	1658	41	1.5

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47187.3	10000	41.0296	93.2894	-370	QKA	1.6	-2	6.9	0	1.0	0	0.233	-2	1.570	-1	6.742	0	1631	42	1.5
47187.4	10000	41.0296	93.2885	-367	QKA	1.6	-2	6.8	0	1.0	0	0.233	-2	1.568	-1	6.724	0	1612	35	1.6
47187.5	10000	41.0296	93.2877	-365	QKA	1.7	-1	6.5	-1	1.0	-1	0.260	-1	1.691	-1	6.505	0	1589	43	1.6
47187.6	10000	41.0296	93.2868	-363	QKA	1.7	-1	6.7	-1	1.0	0	0.255	-1	1.686	-1	6.612	0	1584	55	1.6
47187.7	10000	41.0296	93.2859	-361	QKA	1.9	-1	6.9	0	1.0	-1	0.280	-1	1.933	-1	6.905	0	1586	39	1.6
47187.8	10000	41.0296	93.2851	-360	QKA	1.7	-1	7.0	0	1.0	-1	0.242	-1	1.681	-1	6.954	0	1569	36	1.6
47187.9	10000	41.0296	93.2842	-358	QKA	1.6	-2	6.8	-1	1.0	-1	0.236	-1	1.587	-1	6.732	0	1573	40	1.6
47188.0	10000	41.0296	93.2834	-357	QKA	1.5	-2	6.8	0	1.0	0	0.222	-2	1.476	-2	6.655	0	1571	53	1.6
47188.1	10000	41.0297	93.2825	-355	QKA	1.5	-2	7.0	0	1.0	0	0.207	-2	1.421	-2	6.856	0	1569	42	1.6
47188.2	10000	41.0297	93.2816	-354	QKA	1.3	-2	7.1	0	1.0	0	0.182	-2	1.279	-2	7.040	0	1568	58	1.6
47188.3	10000	41.0297	93.2808	-353	QKA	1.5	-2	6.8	0	1.0	-1	0.218	-2	1.497	-2	6.884	0	1578	44	1.6
47188.4	10000	41.0297	93.2799	-352	QKA	1.4	-2	6.3	-1	1.0	0	0.219	-2	1.378	-2	6.286	-1	1594	47	1.6
47188.5	10000	41.0297	93.2791	-352	QKA	1.7	-1	6.4	-1	1.0	0	0.268	-1	1.663	-1	6.218	-1	1631	56	1.6
47188.6	10000	41.0297	93.2782	-351	QKA	2.0	-1	6.2	-1	1.0	-1	0.324	0	1.999	-1	6.161	-1	1640	48	1.6
47188.7	10000	41.0297	93.2774	-351	QKA	2.0	-1	6.4	-1	1.0	0	0.305	0	1.904	-1	6.236	-1	1646	40	1.7
47188.8	10000	41.0297	93.2765	-350	QKA	1.8	-1	6.3	-1	1.0	0	0.279	-1	1.728	-1	6.182	-1	1634	37	1.7
47188.9	10000	41.0298	93.2757	-350	QKA	1.9	-1	6.3	-1	1.1	0	0.302	-1	1.798	-1	5.945	-1	1642	50	1.7
47189.0	10000	41.0298	93.2748	-351	QKA	1.5	-2	6.5	-1	1.0	0	0.236	-1	1.469	-2	6.235	-1	1628	49	1.7
47189.1	10000	41.0298	93.2739	-351	QKA	1.6	-2	6.8	0	1.0	0	0.228	-2	1.501	-2	6.583	0	1619	50	1.7
47189.2	10000	41.0298	93.2731	-351	QKA	1.4	-2	7.0	0	1.1	0	0.201	-2	1.327	-2	6.615	0	1598	42	1.7
47189.3	10000	41.0298	93.2722	-352	QKA	1.2	-2	6.9	0	1.1	0	0.181	-2	1.132	-2	6.252	-1	1612	41	1.7
47189.4	10000	41.0298	93.2713	-353	QKA	1.3	-2	6.9	0	1.1	0	0.181	-2	1.134	-2	6.266	-1	1622	48	1.7
47189.5	10000	41.0298	93.2705	-354	QKA	1.5	-2	7.0	0	1.2	0	0.207	-2	1.233	-2	5.954	-1	1643	43	1.7
47189.6	10000	41.0298	93.2696	-354	QKA	1.3	-2	7.1	0	1.1	0	0.182	-2	1.157	-2	6.376	0	1633	54	1.7
47189.7	10000	41.0299	93.2688	-355	QKA	1.6	-2	6.9	0	1.2	1	0.226	-2	1.356	-2	6.011	-1	1628	51	1.7
47189.8	10000	41.0299	93.2679	-357	QKA	1.3	-2	6.7	-1	1.2	1	0.202	-2	1.165	-2	5.761	-1	1617	52	1.7
47189.9	10000	41.0299	93.2671	-359	QKA	1.4	-2	6.4	-1	1.1	0	0.220	-2	1.257	-2	5.713	-1	1599	58	1.7
47190.0	10000	41.0299	93.2662	-360	QKA	1.5	-2	6.5	-1	1.1	0	0.225	-2	1.375	-2	6.117	-1	1567	34	1.7
47190.1	10000	41.0299	93.2654	-360	QKA	1.3	-2	6.3	-1	1.0	0	0.212	-2	1.311	-2	6.190	-1	1546	35	1.7
47190.2	10000	41.0299	93.2645	-362	QKA	1.5	-2	6.5	-1	1.0	0	0.236	-1	1.531	-1	6.487	0	1539	58	1.7
47190.3	10000	41.0299	93.2636	-366	QKA	1.4	-2	5.7	-2	1.0	0	0.254	-1	1.463	-2	5.765	-1	1552	55	1.7
47190.4	10000	41.0299	93.2628	-369	QK	1.4	-2	5.5	-2	1.0	0	0.263	-1	1.483	-2	5.630	-1	1555	45	1.7
47190.5	10000	41.0300	93.2619	-372	QK	1.6	-2	5.7	-2	1.0	0	0.276	-1	1.648	-1	5.973	-1	1565	51	1.7
47190.6	10000	41.0300	93.2610	-374	QK	1.4	-2	5.9	-2	1.0	0	0.233	-2	1.383	-2	5.935	-1	1584	42	1.7
47190.7	10000	41.0300	93.2602	-377	QK	1.2	-2	6.2	-1	1.0	0	0.189	-2	1.135	-2	5.996	-1	1600	43	1.7
47190.8	10000	41.0300	93.2593	-380	QK	1.5	-2	6.4	-1	1.0	0	0.241	-2	1.506	-2	6.253	0	1620	50	1.7
47190.9	10000	41.0300	93.2585	-383	QK	1.2	-2	6.6	-1	1.0	-1	0.185	-2	1.182	-2	6.392	0	1621	39	1.7
47191.0	10000	41.0300	93.2576	-387	QK	1.3	-2	6.8	-1	1.1	-1	0.191	-2	1.232	-2	6.445	0	1614	43	1.7
47191.1	10000	41.0300	93.2568	-390	QK	1.2	-2	7.2	0	1.1	0	0.162	-3	1.092	-2	6.760	0	1626	41	1.7
47191.2	10000	41.0301	93.2559	-393	QK	1.1	-2	7.0	0	1.1	0	0.162	-3	1.067	-3	6.581	0	1623	40	1.7
47191.3	10000	41.0301	93.2550	-397	QK	1.3	-2	7.1	0	1.1	0	0.176	-2	1.140	-2	6.471	0	1625	45	1.7
47191.4	10000	41.0301	93.2542	-400	QK	1.4	-2	7.0	0	1.1	0	0.203	-2	1.285	-2	6.318	0	1645	41	1.7
47191.5	10000	41.0301	93.2533	-405	QK	1.2	-2	7.0	0	1.1	0	0.175	-2	1.092	-2	6.246	0	1637	46	1.7
47191.6	10000	41.0301	93.2525	-408	QK	1.3	-2	7.0	0	1.1	0	0.214	-2	1.352	-2	6.329	0	1638	48	1.7
47191.7	10000	41.0301	93.2516	-412	QK	1.1	-2	7.2	0	1.1	0	0.233	-2	1.544	-2	6.642	0	1639	48	1.7
47191.8	10000	41.0301	93.2507	-417	QK	1.0	-2	6.6	-1	1.1	0	0.271	-1	1.669	-1	6.147	0	1615	39	1.7
47191.9	10000	41.0301	93.2499	-421	QK	1.0	-2	6.6	-1	1.1	0	0.268	-1	1.649	-1	6.148	0	1610	45	1.7
47192.0	10000	41.0301	93.2490	-424	QK	1.0	-2	6.3	-1	1.0	0	0.278	-1	1.791	-1	6.451	0	1594	48	1.7
47192.1	10000	41.0302	93.2482	-427	QK	1.0	-2	6.4	-1	1.0	0	0.261	-1	1.717	-1	6.567	0	1561	48	1.7
47192.2	10000	41.0302	93.2473	-431	QK	1.0	-2	6.0	-2	1.0	0	0.279	-1	1.640	-1	5.878	-1	1557	42	1.7
47192.3	10000	41.0301	93.2464	-436	QK	1.0	-2	6.0	-2	1.0	0	0.260	-1	1.496	-2	5.754	-1	1546	38	1.7
47192.4	10000	41.0301	93.2456	-439	QK	1.0	-2	5.8	-2	1.0	-1	0.255	-1	1.444	-2	5.668	-1	1529	40	1.7

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47192.5	10000	41.0301	93.2447	-443	QK	1.5	-2	5.8	-2	1.0	-1	0.261	-1	1.507	-2	5.777	-1	1518	48	1.7
47192.6	10000	41.0301	93.2438	-446	QK	1.8	-2	5.7	-2	1.0	-1	0.309	-1	1.773	-2	5.743	-1	1511	50	1.7
47192.7	10000	41.0301	93.2430	-450	QK	1.7	-2	5.9	-2	1.0	-1	0.283	-1	1.639	-1	5.797	-1	1518	55	1.7
47192.8	10000	41.0301	93.2421	-454	QK	1.7	-2	5.4	-2	1.0	-1	0.308	-1	1.657	-1	5.386	-2	1506	32	1.7
47192.9	10000	41.0301	93.2412	-458	QK	1.6	-2	5.9	-2	1.0	-1	0.267	-1	1.654	-1	6.187	0	1497	42	1.7
47193.0	10000	41.0301	93.2404	-461	QK	1.6	-2	6.0	-2	0.9	-1	0.273	-1	1.720	-1	6.301	0	1499	37	1.6
47193.1	10000	41.0300	93.2395	-465	QK	1.5	-2	5.9	-2	1.0	-1	0.252	-1	1.482	-2	5.877	-1	1518	48	1.6
47193.2	10000	41.0300	93.2386	-469	QK	1.4	-2	6.0	-2	1.0	-1	0.238	-2	1.435	-2	6.032	-1	1540	44	1.6
47193.3	10000	41.0300	93.2377	-473	QK	1.3	-3	6.3	-1	1.0	-1	0.200	-2	1.229	-2	6.136	0	1556	52	1.6
47193.4	10000	41.0300	93.2369	-476	QK	1.4	-2	6.6	-1	1.1	-1	0.206	-2	1.294	-2	6.282	0	1568	38	1.6
47193.5	10000	41.0300	93.2360	-480	QK	1.6	-2	7.2	0	1.1	0	0.223	-2	1.456	-2	6.516	0	1607	44	1.6
47193.6	10000	41.0300	93.2351	-483	QK	1.8	-1	6.8	-1	1.1	0	0.269	-1	1.629	-1	6.059	-1	1654	42	1.6
47193.7	10000	41.0300	93.2343	-486	QK	1.8	-1	7.1	0	1.2	0	0.261	-1	1.588	-1	6.087	-1	1698	50	1.6
47193.8	10000	41.0299	93.2334	-489	QK	1.8	-1	7.6	1	1.2	0	0.242	-2	1.591	-1	6.578	0	1726	35	1.6
47193.9	10000	41.0299	93.2325	-492	QK	1.8	-1	8.1	1	1.2	1	0.222	-2	1.500	-2	6.746	0	1741	40	1.6
47194.0	10000	41.0299	93.2317	-495	QK	1.9	-1	8.0	1	1.2	0	0.233	-2	1.583	-1	6.793	0	1738	42	1.6
47194.1	10000	41.0299	93.2308	-498	QK	2.0	-1	7.9	1	1.1	0	0.253	-1	1.749	-1	6.905	1	1738	43	1.5
47194.2	10000	41.0299	93.2299	-502	QK	1.8	-2	7.8	1	1.1	0	0.228	-2	1.641	-1	7.192	1	1728	44	1.5
47194.3	10000	41.0299	93.2290	-506	QK	1.5	-2	8.2	1	1.1	0	0.185	-2	1.391	-2	7.516	1	1689	53	1.5
47194.4	10000	41.0299	93.2282	-509	QK	1.4	-2	7.9	1	1.0	-1	0.182	-2	1.407	-2	7.721	2	1647	47	1.5
47194.5	10000	41.0299	93.2273	-513	QK	1.8	-2	7.9	1	1.0	-1	0.225	-2	1.775	-1	7.903	2	1627	37	1.5
47194.6	10000	41.0299	93.2264	-517	QK	1.8	-2	7.7	1	1.0	-1	0.230	-2	1.837	-1	7.976	2	1613	46	1.5
47194.7	10000	41.0298	93.2256	-521	QK	1.7	-2	7.8	1	1.0	-1	0.222	-2	1.784	-1	8.027	2	1612	37	1.5
47194.8	10000	41.0298	93.2247	-524	QK	1.6	-2	7.4	0	1.0	-1	0.221	-2	1.680	-1	7.588	2	1590	45	1.5
47194.9	10000	41.0298	93.2238	-527	QK	1.9	-1	7.4	0	1.0	-1	0.251	-1	1.957	-1	7.781	2	1569	41	1.4
47195.0	10000	41.0298	93.2230	-530	QK	1.9	-1	7.2	0	0.9	-2	0.271	-1	2.151	0	7.946	2	1565	61	1.4
47195.1	10000	41.0298	93.2221	-534	QK	2.0	-1	6.8	-1	0.9	-2	0.294	-1	2.226	0	7.566	2	1553	37	1.4
47195.2	10000	41.0298	93.2212	-537	QK	1.9	-1	6.6	-1	0.9	-2	0.286	-1	2.141	0	7.474	1	1527	53	1.4
47195.3	10000	41.0298	93.2204	-541	QK	2.0	-1	6.6	-1	0.8	-2	0.298	-1	2.319	0	7.793	2	1530	42	1.4
47195.4	10000	41.0297	93.2195	-544	QK	2.1	-1	7.0	0	0.8	-2	0.295	-1	2.461	0	8.332	3	1548	45	1.4
47195.5	10000	41.0297	93.2186	-548	QK	1.9	-1	7.6	0	0.9	-2	0.254	-1	2.177	0	8.577	3	1591	52	1.4
47195.6	10000	41.0297	93.2177	-551	QK	2.0	-1	7.5	0	1.0	-1	0.266	-1	2.065	0	7.774	2	1629	47	1.4
47195.7	10000	41.0297	93.2169	-554	QK	2.1	-1	7.5	0	1.0	-1	0.277	-1	2.117	0	7.631	2	1652	45	1.4
47195.8	10000	41.0297	93.2160	-557	QK	2.2	-1	7.8	1	1.0	-1	0.279	-1	2.162	0	7.747	2	1690	57	1.3
47195.9	10000	41.0297	93.2151	-560	QK	2.3	0	7.5	0	1.0	-1	0.305	-1	2.203	0	7.226	1	1704	59	1.3
47196.0	10000	41.0297	93.2143	-563	QK	2.2	-1	7.3	0	1.1	0	0.301	-1	2.051	0	6.820	0	1705	48	1.3
47196.1	10000	41.0297	93.2134	-566	QK	2.1	-1	6.7	-1	1.1	0	0.309	-1	1.913	-1	6.192	0	1682	56	1.3
47196.2	10000	41.0297	93.2125	-568	QK	2.2	-1	6.4	-1	1.1	0	0.342	0	2.053	0	6.005	-1	1653	44	1.3
47196.3	10000	41.0296	93.2117	-572	QK	1.9	-1	6.7	-1	1.0	-1	0.288	-1	1.864	-1	6.466	0	1615	34	1.3
47196.4	10000	41.0296	93.2108	-575	QK	2.0	-1	6.3	-1	1.0	-1	0.323	0	1.995	-1	6.174	0	1605	39	1.3
47196.5	10000	41.0296	93.2099	-578	QK	1.9	-1	6.1	-2	1.0	-1	0.314	-1	1.896	-1	6.033	-1	1578	30	1.2
47196.6	10000	41.0296	93.2091	-581	QK	2.0	-1	6.2	-1	1.0	-1	0.323	0	1.952	-1	6.063	-1	1563	46	1.2
47196.7	10000	41.0296	93.2082	-584	QK	1.9	-1	6.0	-2	1.0	-1	0.322	0	1.907	-1	5.928	-1	1537	55	1.2
47196.8	10000	41.0296	93.2073	-587	QK	2.0	-1	6.2	-1	1.0	-1	0.329	0	2.108	0	6.412	0	1515	39	1.2
47196.9	10000	41.0296	93.2065	-589	QK	1.9	-1	6.3	-1	0.9	-1	0.299	-1	2.002	-1	6.706	0	1507	45	1.2
47197.0	10000	41.0295	93.2056	-591	QK	2.0	-1	6.6	-1	1.0	-1	0.307	-1	2.130	0	6.942	1	1532	39	1.2
47197.1	10000	41.0295	93.2047	-593	QK	2.3	0	6.8	-1	1.0	-1	0.341	0	2.416	0	7.091	1	1543	42	1.2
47197.2	10000	41.0295	93.2038	-595	QK	2.3	0	7.2	0	1.0	-1	0.320	0	2.378	0	7.432	1	1566	57	1.2
47197.3	10000	41.0295	93.2030	-597	QK	2.4	0	7.4	0	0.9	-1	0.321	0	2.519	1	7.839	2	1586	53	1.2
47197.4	10000	41.0295	93.2021	-599	QK	2.6	0	8.0	1	1.0	-1	0.326	1	2.734	1	8.383	3	1620	41	1.1
47197.5	10000	41.0295	93.2012	-603	QK	2.5	0	8.0	1	1.0	-1	0.310	-1	2.510	1	8.104	2	1642	41	1.1
47197.6	10000	41.0295	93.2004	-607	QK	2.7	0	7.7	1	1.0	-1	0.355	0	2.868	1	8.077	2	1641	47	1.1

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47197.7	10000	41.0295	93.1995	-610	QK	2.6	0	7.3	0	0.9	-2	0.362	0	2.869	1	7.928	2	1620	45	1.1
47197.8	10000	41.0294	93.1986	-612	QK	2.4	0	7.1	0	0.9	-2	0.344	0	2.597	1	7.547	2	1597	57	1.1
47197.9	10000	41.0294	93.1978	-616	QK	2.3	0	6.6	-1	0.9	-2	0.353	0	2.553	1	7.236	1	1568	38	1.1
47198.0	10000	41.0294	93.1969	-618	QK	2.1	-1	6.3	-1	1.0	-1	0.332	0	2.195	1	6.611	0	1551	44	1.1
47198.1	10000	41.0294	93.1960	-622	QK	2.2	-1	5.5	-2	0.9	-2	0.407	1	2.491	0	6.117	-1	1504	43	1.1
47198.2	10000	41.0294	93.1951	-625	QK	2.4	0	5.2	-3	0.9	-2	0.471	2	2.811	0	5.973	-1	1482	47	1.1
47198.3	10000	41.0294	93.1943	-627	QK	2.4	0	5.2	-3	0.9	-2	0.451	1	2.743	1	6.076	-1	1477	47	1.1
47198.4	10000	41.0294	93.1934	-630	QK	2.6	0	4.9	-3	0.9	-2	0.540	3	2.975	1	5.504	-1	1470	46	1.1
47198.5	10000	41.0294	93.1926	-633	QK	2.5	0	5.0	-3	0.9	-2	0.495	2	2.867	1	5.788	-1	1463	42	1.1
47198.6	10000	41.0294	93.1917	-637	QK	2.7	0	4.9	-3	0.8	-2	0.547	3	3.236	2	5.920	-1	1451	47	1.0
47198.7	10000	41.0293	93.1908	-639	QK	2.8	1	5.2	-3	0.7	-3	0.542	3	3.764	3	6.940	1	1423	45	1.0
47198.8	10000	41.0293	93.1899	-642	QK	2.5	0	5.5	-3	0.8	-3	0.461	2	3.062	2	6.640	0	1417	50	1.0
47198.9	10000	41.0293	93.1891	-645	QK	2.2	-1	5.5	-2	0.8	-3	0.401	1	2.824	1	7.043	1	1409	45	1.0
47199.0	10000	41.0293	93.1882	-648	QK	2.1	-1	5.5	-2	0.8	-2	0.390	1	2.581	1	6.611	0	1425	38	1.0
47199.1	10000	41.0293	93.1873	-650	QK	1.9	-1	5.7	-2	0.8	-2	0.338	0	2.290	0	6.778	0	1453	53	1.0
47199.2	10000	41.0293	93.1865	-653	QK	1.9	-1	5.7	-2	0.9	-2	0.338	0	2.155	0	6.376	0	1462	44	1.0
47199.3	10000	41.0293	93.1856	-656	QK	1.8	-1	5.8	-2	0.9	-1	0.314	-1	1.906	-1	6.072	-1	1469	43	1.0
47199.4	10000	41.0292	93.1847	-659	QK	1.7	-2	5.8	-2	1.0	-1	0.298	-1	1.760	-1	5.914	-1	1475	35	1.0
47199.5	10000	41.0292	93.1839	-663	QK	1.7	-2	6.2	-1	1.0	-1	0.279	-1	1.727	-1	6.183	0	1488	39	1.0
47199.6	10000	41.0292	93.1830	-667	QK	2.0	-1	6.4	-1	1.0	-1	0.308	-1	1.870	-1	6.076	-1	1501	47	1.0
47199.7	10000	41.0292	93.1821	-670	QK	2.0	-1	6.1	-2	1.0	-1	0.325	0	1.905	-1	5.861	-1	1488	51	1.0
47199.8	10000	41.0292	93.1812	-674	QK	2.1	-1	6.2	-1	1.0	-1	0.333	0	2.032	0	6.107	-1	1475	39	1.0
47199.9	10000	41.0292	93.1804	-679	QK	2.2	-1	6.4	-1	0.9	-1	0.348	0	2.354	0	6.759	0	1451	43	1.0
47200.0	10000	41.0292	93.1795	-682	QK	2.4	0	6.0	-2	0.9	-2	0.408	1	2.690	1	6.600	0	1439	46	1.0
47200.1	10000	41.0292	93.1786	-686	QK	2.6	0	5.9	-2	0.9	-2	0.434	1	2.929	1	6.751	0	1447	41	1.0
47200.2	10000	41.0291	93.1778	-690	QK	2.7	0	5.6	-2	0.8	-2	0.475	2	3.200	2	6.740	0	1451	45	1.0
47200.3	10000	41.0291	93.1769	-693	QK	2.6	0	5.6	-2	0.8	-2	0.453	2	3.247	2	7.162	1	1471	49	1.0
47200.4	10000	41.0291	93.1760	-696	QK	2.6	0	6.2	-1	0.8	-2	0.425	2	3.384	3	7.956	2	1474	45	1.0
47200.5	10000	41.0291	93.1752	-701	QK	2.8	0	6.0	-2	0.8	-2	0.460	2	3.386	3	7.359	1	1471	47	1.0
47200.6	10000	41.0291	93.1743	-704	QK	2.7	0	5.5	-2	0.8	-2	0.487	2	3.240	3	6.650	0	1488	52	1.0
47200.7	10000	41.0291	93.1734	-708	QK	2.8	1	6.1	-1	0.8	-2	0.450	2	3.261	3	7.247	1	1500	47	0.9
47200.8	10000	41.0291	93.1725	-711	QK	2.8	1	6.1	-1	0.9	-2	0.450	2	3.154	3	7.008	1	1512	47	0.9
47200.9	10000	41.0291	93.1717	-714	QK	2.9	1	6.1	-2	0.9	-2	0.483	2	3.267	3	6.765	0	1522	44	0.9
47201.0	10000	41.0290	93.1708	-717	QK	2.8	1	5.8	-2	0.9	-2	0.488	2	3.106	3	6.366	0	1511	45	0.9
47201.1	10000	41.0290	93.1699	-720	QK	3.0	1	5.7	-2	0.9	-2	0.521	3	3.257	3	6.248	0	1506	44	0.9
47201.2	10000	41.0290	93.1691	-723	QK	3.0	1	5.5	-2	0.9	-2	0.534	3	3.345	3	6.271	0	1504	42	0.9
47201.3	10000	41.0290	93.1682	-726	QK	3.0	1	5.6	-2	0.9	-2	0.534	3	3.235	3	6.056	-1	1512	42	0.9
47201.4	10000	41.0290	93.1673	-729	QK	2.7	0	5.5	-2	0.9	-1	0.491	2	2.878	2	5.857	-1	1515	41	0.9
47201.5	10000	41.0290	93.1665	-732	QK	2.6	0	5.7	-2	1.0	-1	0.456	2	2.687	1	5.894	-1	1506	47	0.9
47201.6	10000	41.0290	93.1656	-735	QK	2.7	0	5.8	-2	1.0	-1	0.463	2	2.763	1	5.963	-1	1505	50	0.9
47201.7	10000	41.0289	93.1647	-738	QK	2.7	0	6.0	-2	1.0	-1	0.451	2	2.706	1	5.993	-1	1499	56	0.9
47201.8	10000	41.0289	93.1639	-741	QK	2.7	0	5.7	-2	1.0	-1	0.470	2	2.688	1	5.718	-1	1505	48	0.9
47201.9	10000	41.0289	93.1630	-745	QK	2.7	0	6.1	-2	1.0	-1	0.444	2	2.738	1	6.166	0	1514	55	0.9
47202.0	10000	41.0289	93.1621	-749	QK	2.6	0	6.5	-1	0.9	-2	0.404	2	2.771	1	6.857	1	1502	33	0.9
47202.1	10000	41.0289	93.1613	-753	QK	2.6	0	6.5	-1	0.9	-2	0.401	2	2.916	1	7.277	1	1508	43	0.9
47202.2	10000	41.0289	93.1604	-757	QK	2.6	0	6.8	-1	0.9	-2	0.388	2	2.865	1	7.389	1	1511	47	0.9
47202.3	10000	41.0289	93.1595	-762	QK	2.5	0	6.9	0	0.9	-2	0.366	2	2.810	1	7.682	2	1502	31	0.9
47202.4	10000	41.0289	93.1586	-766	QK	2.5	0	7.0	0	0.9	-2	0.353	2	2.791	1	7.912	2	1497	61	1.0
47202.5	10000	41.0288	93.1578	-770	QK	2.2	-1	7.6	0	0.9	-2	0.295	-1	2.530	1	8.582	3	1492	33	1.0
47202.6	10000	41.0288	93.1569	-775	QK	2.0	-1	7.6	0	0.9	-2	0.268	-1	2.256	1	8.407	3	1481	40	1.0
47202.7	10000	41.0288	93.1560	-780	QK	2.0	-1	7.6	0	0.9	-2	0.264	-1	2.144	1	8.119	2	1477	40	1.0
47202.8	10000	41.0288	93.1552	-784	QK	2.1	-1	7.4	0	1.0	-1	0.284	-1	2.192	0	7.720	2	1455	44	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47202.9	10000	41.0288	93.1543	-790	QK	2.0	-1	6.7	-1	0.9	-2	0.305	-1	2.239	0	7.331	1	1444	49	1.0
47203.0	10000	41.0288	93.1534	-795	QK	1.8	-1	6.9	0	0.9	-2	0.264	-1	1.975	-1	7.474	1	1453	45	1.0
47203.1	10000	41.0288	93.1526	-800	QK	2.0	-1	6.8	-1	0.9	-2	0.290	-1	2.127	0	7.339	1	1464	47	1.0
47203.2	10000	41.0288	93.1517	-805	QK	2.1	-1	6.5	-1	0.9	-2	0.321	0	2.313	0	7.211	1	1465	50	1.0
47203.3	10000	41.0287	93.1508	-810	QK	2.3	0	6.3	-1	0.9	-2	0.361	0	2.594	1	7.193	1	1461	39	1.0
47203.4	10000	41.0287	93.1499	-814	QK	2.3	0	6.2	-1	0.9	-2	0.374	0	2.670	1	7.147	1	1469	43	1.0
47203.5	10000	41.0287	93.1491	-820	QK	2.1	-1	6.2	-1	0.8	-2	0.348	0	2.546	1	7.319	1	1455	47	1.0
47203.6	10000	41.0287	93.1482	-823	QK	2.1	-1	6.6	-1	0.9	-2	0.316	0	2.444	0	7.737	2	1460	54	1.0
47203.7	10000	41.0287	93.1473	-829	QK	2.1	-1	6.4	-1	0.8	-3	0.331	0	2.673	1	8.085	2	1450	38	1.0
47203.8	10000	41.0287	93.1465	-833	QK	2.1	-1	6.7	-1	0.8	-2	0.316	0	2.558	1	8.093	2	1471	45	1.0
47203.9	10000	41.0287	93.1456	-837	QK	2.3	-1	6.8	-1	0.9	-2	0.329	0	2.517	1	7.645	2	1510	39	1.0
47204.0	10000	41.0286	93.1447	-841	QK	2.1	-1	7.3	0	1.0	-1	0.288	-1	2.125	0	7.379	1	1552	53	1.0
47204.1	10000	41.0286	93.1439	-845	QK	2.2	-1	7.4	0	1.0	-1	0.294	-1	2.092	0	7.114	1	1606	38	1.0
47204.2	10000	41.0286	93.1430	-848	QK	2.4	0	7.3	0	1.1	0	0.321	0	2.174	0	6.775	0	1673	43	1.0
47204.3	10000	41.0286	93.1421	-851	QK	2.4	0	7.3	0	1.1	0	0.333	0	2.154	0	6.466	0	1720	44	1.0
47204.4	10000	41.0286	93.1413	-855	QK	2.6	0	7.0	0	1.2	1	0.378	0	2.227	0	5.886	-1	1773	44	1.0
47204.5	10000	41.0286	93.1404	-858	QK	2.7	0	6.5	-1	1.2	1	0.416	1	2.295	0	5.511	-1	1782	36	1.0
47204.6	10000	41.0286	93.1395	-861	QK	2.7	0	6.6	-1	1.2	1	0.402	1	2.219	0	5.517	-1	1788	48	1.0
47204.7	10000	41.0286	93.1387	-864	QK	2.9	1	6.3	-1	1.2	0	0.460	2	2.483	0	5.399	-2	1798	49	1.0
47204.8	10000	41.0285	93.1378	-867	QK	2.9	1	6.4	-1	1.1	0	0.448	1	2.495	0	5.568	-1	1790	40	1.0
47204.9	10000	41.0285	93.1369	-871	QK	3.1	1	6.7	-1	1.2	0	0.457	1	2.630	1	5.752	-1	1796	43	1.0
47205.0	10000	41.0285	93.1360	-873	QK	3.0	1	6.6	-1	1.1	0	0.462	2	2.697	1	5.839	-1	1790	39	1.0
47205.1	10000	41.0285	93.1352	-876	QK	2.8	0	7.2	0	1.1	0	0.383	0	2.438	0	6.370	0	1770	37	1.0
47205.2	10000	41.0285	93.1343	-879	QK	2.5	0	7.6	1	1.1	0	0.329	0	2.307	0	7.011	1	1755	39	1.0
47205.3	10000	41.0285	93.1334	-881	QK	2.5	0	7.5	0	1.0	-1	0.333	0	2.384	0	7.169	1	1734	52	1.0
47205.4	10000	41.0285	93.1326	-884	QK	2.3	0	7.6	0	1.0	-1	0.306	-1	2.236	0	7.296	1	1715	51	1.0
47205.5	10000	41.0285	93.1318	-886	QK	2.2	-1	7.6	0	1.1	-1	0.296	-1	2.129	0	7.185	1	1706	47	1.0
47205.6	10000	41.0285	93.1309	-888	QK	2.1	-1	7.5	0	1.0	-1	0.278	-1	2.009	-1	7.230	1	1700	48	1.0
47205.7	10000	41.0285	93.1301	-890	QK	2.0	-1	7.8	0	1.0	-1	0.264	-1	1.987	-1	7.536	1	1697	45	1.0
47205.8	10000	41.0286	93.1292	-892	QK	2.2	-1	7.8	0	1.0	-1	0.286	-1	2.139	0	7.482	1	1696	52	1.0
47205.9	10000	41.0286	93.1284	-893	QK	2.4	0	7.5	1	1.1	0	0.324	0	2.280	0	7.045	1	1698	46	1.0
47206.0	10000	41.0286	93.1275	-894	QK	2.4	0	7.8	1	1.1	0	0.301	-1	2.140	0	7.103	1	1704	43	1.0
47206.1	10000	41.0286	93.1267	-895	QK	2.3	-1	7.5	0	1.1	0	0.301	-1	2.114	0	7.021	1	1689	24	1.0
47206.2	10000	41.0286	93.1259	-895	QK	2.3	0	7.5	1	1.0	-1	0.312	-1	2.260	0	7.255	1	1672	51	1.0
47206.3	10000	41.0286	93.1250	-894	QK	2.0	-1	7.6	0	1.0	-1	0.267	-1	2.046	0	7.658	2	1649	52	1.0
47206.4	10000	41.0286	93.1242	-894	QK	2.1	-1	7.4	1	1.0	-1	0.284	-1	2.169	0	7.649	2	1624	52	1.0
47206.5	10000	41.0287	93.1233	-893	QK	2.0	-1	7.1	0	0.9	-2	0.282	-1	2.155	0	7.648	2	1602	51	1.0
47206.6	10000	41.0287	93.1225	-891	QK	1.8	-1	7.0	0	0.9	-2	0.263	-1	1.991	-1	7.563	2	1579	36	1.0
47206.7	10000	41.0287	93.1216	-888	QK	1.8	-1	6.6	-1	0.9	-2	0.274	-1	1.956	-1	7.151	1	1563	39	1.0
47206.8	10000	41.0287	93.1208	-886	QK	1.8	-1	6.7	-1	1.0	-1	0.274	-1	1.909	-1	6.968	1	1560	49	1.0
47206.9	10000	41.0287	93.1200	-883	QK	1.6	-2	6.3	-1	1.0	-1	0.250	-1	1.608	-1	6.425	0	1548	51	1.0
47207.0	10000	41.0287	93.1191	-879	QK	1.8	-1	6.1	-1	1.0	-1	0.293	-1	1.745	-1	5.957	-1	1552	54	1.0
47207.1	10000	41.0288	93.1183	-876	QK	1.8	-2	6.0	-2	1.1	0	0.293	-1	1.647	-1	5.617	-1	1546	48	1.0
47207.2	10000	41.0288	93.1174	-871	QK	1.8	-1	5.5	-2	1.1	0	0.329	-1	1.688	-1	5.123	-2	1538	47	1.0
47207.3	10000	41.0288	93.1166	-867	QK	1.8	-1	5.7	-2	1.1	0	0.325	-1	1.734	-1	5.337	-2	1538	57	1.0
47207.4	10000	41.0288	93.1158	-862	QK	1.7	-2	5.6	-2	1.1	0	0.311	-1	1.732	-1	5.574	-1	1521	43	1.0
47207.5	10000	41.0288	93.1149	-857	QK	1.9	-1	5.5	-2	1.0	-1	0.340	-1	2.074	0	6.109	-1	1500	45	1.0
47207.6	10000	41.0288	93.1141	-851	QK	2.2	-1	5.5	-2	0.9	-1	0.396	-1	2.536	1	6.408	0	1488	46	1.0
47207.7	10000	41.0288	93.1132	-845	QK	2.3	0	5.5	-3	0.9	-2	0.444	-2	2.791	1	6.279	0	1467	52	1.0
47207.8	10000	41.0289	93.1124	-840	QK	2.4	0	5.5	-3	0.8	-2	0.482	-2	3.038	2	6.305	0	1461	46	1.0
47207.9	10000	41.0289	93.1115	-833	QK	2.4	0	5.5	-3	0.8	-3	0.482	-3	3.060	2	6.353	0	1447	48	1.0
47208.0	10000	41.0289	93.1107	-827	QK	2.6	0	4.5	-4	0.8	-3	0.568	3	3.240	2	5.699	-1	1425	42	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47208.1	10000	41.0289	93.1098	-820	QK	2.6	0	4.4	-4	0.8	-3	0.579	3	3.163	2	5.463	-1	1405	35	1.0
47208.2	10000	41.0289	93.1090	-813	QK	2.2	-1	4.6	-4	0.9	-2	0.484	2	2.626	1	5.425	-2	1399	52	1.0
47208.3	10000	41.0289	93.1082	-806	QK	2.2	-1	4.8	-3	0.8	-2	0.452	1	2.569	1	5.681	-1	1404	40	1.0
47208.4	10000	41.0290	93.1073	-800	QK	2.3	-1	5.5	-2	0.8	-2	0.414	1	2.707	1	6.540	0	1419	44	1.0
47208.5	10000	41.0290	93.1065	-793	QK	2.3	-1	5.6	-2	0.9	-2	0.404	1	2.542	1	6.284	0	1442	29	1.0
47208.6	10000	41.0290	93.1056	-786	QK	2.1	-1	5.7	-2	0.9	-2	0.374	0	2.368	1	6.329	0	1479	59	1.0
47208.7	10000	41.0290	93.1048	-779	QK	2.1	-1	6.1	-2	0.9	-2	0.344	0	2.219	0	6.446	0	1508	63	1.0
47208.8	10000	41.0290	93.1040	-772	QK	2.1	-1	6.1	-2	0.9	-2	0.348	0	2.275	0	6.534	0	1515	41	1.0
47208.9	10000	41.0290	93.1031	-766	QK	2.2	-1	5.9	-2	0.9	-2	0.365	0	2.311	0	6.326	0	1516	44	1.0
47209.0	10000	41.0290	93.1023	-759	QK	2.3	0	5.9	-2	0.9	-1	0.388	1	2.432	0	6.263	0	1510	43	1.0
47209.1	10000	41.0291	93.1014	-753	QK	2.0	-1	5.4	-2	0.9	-1	0.376	0	2.144	0	5.707	-1	1491	46	1.0
47209.2	10000	41.0291	93.1006	-746	QK	2.0	-1	5.7	-2	0.9	-2	0.358	0	2.287	0	6.382	0	1465	49	1.0
47209.3	10000	41.0291	93.0997	-741	QK	2.1	-1	6.1	-2	0.9	-2	0.342	0	2.384	0	6.964	1	1449	47	1.0
47209.4	10000	41.0291	93.0989	-734	QK	2.3	0	6.1	-2	0.8	-2	0.380	0	2.753	1	7.237	1	1470	38	1.0
47209.5	10000	41.0291	93.0981	-728	QK	2.5	0	6.3	-1	0.9	-2	0.392	1	2.797	1	7.127	1	1516	39	1.0
47209.6	10000	41.0291	93.0972	-722	QK	2.6	0	6.5	-1	0.9	-2	0.393	1	2.846	1	7.240	1	1556	45	1.0
47209.7	10000	41.0292	93.0964	-716	QK	2.5	0	6.6	-1	0.9	-1	0.375	0	2.638	1	7.027	1	1592	49	1.0
47209.8	10000	41.0292	93.0955	-711	QK	2.7	0	7.1	0	1.0	-1	0.379	0	2.746	1	7.250	1	1618	45	1.0
47209.9	10000	41.0292	93.0947	-705	QK	2.6	0	7.0	0	1.0	-1	0.375	0	2.648	1	7.059	1	1637	45	1.0
47210.0	10000	41.0292	93.0939	-700	QK	2.7	0	6.8	-1	1.0	-1	0.401	1	2.721	1	6.782	0	1634	51	1.0
47210.1	10000	41.0292	93.0930	-693	QK	2.5	0	6.8	-1	1.0	-1	0.369	0	2.599	1	7.034	1	1601	42	1.0
47210.2	10000	41.0292	93.0922	-688	QK	2.4	0	6.6	-1	0.9	-1	0.361	0	2.529	1	6.997	1	1550	43	1.0
47210.3	10000	41.0292	93.0913	-682	QK	2.4	0	6.7	-1	0.9	-2	0.352	0	2.649	1	7.526	1	1508	42	1.0
47210.4	10000	41.0293	93.0905	-677	QK	2.2	-1	6.6	-1	0.9	-2	0.325	0	2.526	1	7.768	2	1462	42	1.0
47210.5	10000	41.0293	93.0896	-670	QK	2.0	-1	6.3	-1	0.8	-2	0.314	-1	2.400	0	7.636	2	1427	48	1.0
47210.6	10000	41.0293	93.0888	-664	QK	2.1	-1	6.1	-2	0.8	-2	0.338	0	2.480	1	7.342	1	1407	39	1.0
47210.7	10000	41.0293	93.0880	-657	QK	2.1	-1	6.1	-2	0.8	-2	0.344	0	2.539	1	7.380	1	1410	49	1.0
47210.8	10000	41.0293	93.0871	-651	QK	2.0	-1	6.1	-2	0.8	-2	0.329	0	2.379	1	7.225	1	1416	43	1.0
47210.9	10000	41.0293	93.0863	-644	QK	2.1	-1	6.1	-1	0.8	-2	0.336	0	2.433	1	7.236	1	1436	36	1.0
47211.0	10000	41.0293	93.0854	-637	QK	1.8	-1	5.8	-2	0.9	-2	0.316	0	2.101	0	6.652	1	1435	40	1.0
47211.1	10000	41.0294	93.0846	-630	QK	2.0	-1	6.3	-1	0.9	-2	0.321	0	2.312	1	7.195	1	1438	55	1.0
47211.2	10000	41.0294	93.0837	-623	QK	2.2	-1	6.3	-1	0.9	-2	0.348	0	2.519	1	7.245	2	1450	42	1.0
47211.3	10000	41.0294	93.0829	-616	QK	2.1	-1	6.4	-1	0.8	-2	0.333	0	2.523	1	7.586	2	1458	45	1.0
47211.4	10000	41.0294	93.0821	-608	QK	1.9	-1	6.2	-1	0.8	-2	0.311	-1	2.290	1	7.372	1	1444	43	1.0
47211.5	10000	41.0294	93.0812	-601	QK	2.0	-1	6.3	-1	0.8	-2	0.308	-1	2.321	1	7.526	2	1435	60	1.0
47211.6	10000	41.0294	93.0804	-592	QK	2.0	-1	6.5	-1	0.8	-2	0.310	-1	2.363	1	7.631	2	1420	48	1.0
47211.7	10000	41.0294	93.0795	-585	QK	2.1	-1	6.6	-1	0.8	-2	0.314	-1	2.533	1	8.054	2	1420	42	1.0
47211.8	10000	41.0295	93.0787	-579	QK	1.9	-1	5.9	-2	0.8	-2	0.327	0	2.286	1	7.002	1	1428	43	0.9
47211.9	10000	41.0295	93.0779	-572	QK	1.9	-1	6.3	-1	0.8	-2	0.300	-1	2.277	1	7.597	2	1442	46	0.9
47212.0	10000	41.0295	93.0770	-565	QK	1.7	-2	6.7	-1	0.9	-2	0.260	-1	1.962	-1	7.547	2	1484	44	0.9
47212.1	10000	41.0295	93.0762	-559	QK	1.8	-2	7.1	0	1.0	-2	0.247	-1	1.899	-1	7.688	2	1530	50	0.9
47212.2	10000	41.0295	93.0753	-552	QK	1.6	-2	7.5	0	1.0	-1	0.216	-2	1.636	-1	7.591	2	1573	58	0.9
47212.3	10000	41.0295	93.0745	-545	QK	1.7	-2	7.8	1	1.0	-1	0.216	-2	1.708	-1	7.901	2	1605	56	0.9
47212.4	10000	41.0295	93.0736	-539	QK	1.7	-2	7.9	1	1.0	-1	0.217	-2	1.656	-1	7.628	2	1636	54	0.9
47212.5	10000	41.0296	93.0728	-534	QK	1.9	-1	8.1	1	1.0	-1	0.237	-2	1.915	-1	8.087	2	1649	56	0.9
47212.6	10000	41.0296	93.0719	-529	QK	1.9	-1	8.1	1	1.0	-1	0.230	-2	1.826	-1	7.954	2	1648	36	0.9
47212.7	10000	41.0296	93.0711	-522	QK	1.9	-1	7.7	1	1.0	-1	0.253	-1	1.971	-1	7.805	2	1609	44	0.9
47212.8	10000	41.0296	93.0703	-511	QK	2.0	-1	7.6	1	1.0	-1	0.267	-1	2.116	0	7.923	2	1573	43	0.9
47212.9	10000	41.0296	93.0694	-507	QK	2.2	-1	7.3	1	0.9	-2	0.300	-1	2.346	1	7.829	2	1555	42	0.9
47213.0	10000	41.0296	93.0686	-507	QK	2.0	-1	7.2	0	1.0	-1	0.277	-1	2.000	-1	7.225	1	1564	53	0.9
47213.1	10000	41.0297	93.0677	-505	QK	2.0	-1	7.0	0	1.0	-1	0.290	-1	2.083	0	7.170	1	1554	40	0.9
47213.2	10000	41.0297	93.0669	-501	QK	2.1	-1	7.1	0	1.0	-1	0.290	-1	2.080	0	7.168	1	1550	44	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47213.3	10000	41.0297	93.0661	-498	QK	2.1	-1	6.7	-1	1.0	-1	0.316	0	2.152	0	6.817	0	1547	54	0.9
47213.4	10000	41.0297	93.0652	-494	QK	2.0	-1	6.8	-1	1.0	-1	0.292	-1	1.979	-1	6.782	0	1545	37	0.9
47213.5	10000	41.0297	93.0644	-492	QK	2.1	-1	6.4	-1	1.0	-1	0.327	0	2.064	0	6.320	0	1544	38	0.9
47213.6	10000	41.0297	93.0635	-489	QK	2.1	-1	6.2	-1	1.0	-1	0.335	0	2.018	-1	6.033	-1	1522	49	0.9
47213.7	10000	41.0297	93.0627	-488	QK	2.3	0	6.1	-1	1.0	-1	0.376	0	2.379	0	6.325	0	1496	48	0.9
47213.8	10000	41.0298	93.0618	-486	QK	2.5	0	5.9	-2	0.9	-1	0.422	1	2.628	1	6.253	0	1487	44	0.9
47213.9	10000	41.0298	93.0610	-484	QK	2.3	0	5.7	-2	1.0	-1	0.399	1	2.350	0	5.889	-1	1495	37	0.9
47214.0	10000	41.0298	93.0602	-482	QK	2.2	-1	6.0	-2	1.0	-1	0.361	0	2.260	0	6.267	0	1507	49	0.9
47214.1	10000	41.0298	93.0593	-481	QK	2.3	0	6.1	-2	1.0	-1	0.376	0	2.287	0	6.088	-1	1543	43	0.9
47214.2	10000	41.0298	93.0585	-480	QK	2.0	-1	6.5	-1	1.0	-1	0.313	-1	2.020	-1	6.465	0	1557	34	0.9
47214.3	10000	41.0298	93.0576	-479	QK	1.9	-1	6.8	-1	1.0	-1	0.281	-1	1.927	-1	6.848	1	1563	46	0.9
47214.4	10000	41.0299	93.0568	-479	QK	1.7	-2	6.7	-1	1.0	-1	0.253	-1	1.742	-1	6.885	1	1572	59	0.9
47214.5	10000	41.0299	93.0560	-478	QK	1.6	-2	6.9	0	1.0	-1	0.225	-2	1.552	-2	6.908	1	1571	45	0.9
47214.6	10000	41.0299	93.0551	-478	QK	1.7	-2	6.9	0	1.0	-1	0.239	-2	1.678	-1	7.019	1	1560	29	0.9
47214.7	10000	41.0299	93.0543	-478	QK	1.7	-2	7.0	0	1.0	-1	0.249	-1	1.689	-1	6.782	0	1552	44	0.9
47214.8	10000	41.0299	93.0534	-478	QK	1.7	-2	7.3	0	1.0	-1	0.228	-2	1.650	-1	7.226	1	1531	51	0.9
47214.9	10000	41.0299	93.0526	-480	QK	1.9	-1	7.5	0	1.0	-1	0.249	-1	1.849	-1	7.437	1	1538	48	0.9
47215.0	10000	41.0299	93.0517	-481	QK	2.0	-1	7.1	0	1.0	-1	0.282	-1	1.976	-1	7.011	1	1561	43	0.9
47215.1	10000	41.0300	93.0509	-481	QK	2.3	0	7.2	0	1.1	-1	0.321	0	2.189	0	6.817	0	1585	53	0.9
47215.2	10000	41.0300	93.0500	-482	QK	2.4	0	7.3	0	1.1	0	0.321	0	2.166	0	6.746	0	1626	51	0.9
47215.3	10000	41.0300	93.0492	-482	QK	2.3	0	7.6	1	1.1	0	0.307	-1	2.094	0	6.821	0	1661	48	0.9
47215.4	10000	41.0300	93.0484	-483	QK	2.5	0	7.6	1	1.1	0	0.326	0	2.226	0	6.832	0	1692	40	0.9
47215.5	10000	41.0300	93.0475	-484	QK	2.6	0	7.3	0	1.2	0	0.360	0	2.278	0	6.333	0	1725	58	0.9
47215.6	10000	41.0300	93.0467	-485	QK	2.5	0	7.2	0	1.2	1	0.343	0	2.092	0	6.094	-1	1734	43	0.9
47215.7	10000	41.0300	93.0458	-485	QK	2.4	0	7.4	0	1.1	0	0.332	-1	2.130	0	6.407	0	1722	48	0.9
47215.8	10000	41.0301	93.0450	-486	QK	2.3	-1	7.5	0	1.1	0	0.302	-1	1.982	-1	6.564	0	1705	39	0.8
47215.9	10000	41.0301	93.0442	-487	QK	2.2	-1	7.8	1	1.1	0	0.285	-1	1.978	-1	6.951	1	1692	34	0.8
47216.0	10000	41.0301	93.0433	-488	QK	2.2	-1	7.8	1	1.1	0	0.279	-1	1.941	-1	6.951	1	1684	62	0.8
47216.1	10000	41.0301	93.0425	-489	QK	2.0	-1	7.7	1	1.1	0	0.260	-1	1.745	-1	6.715	0	1674	56	0.8
47216.2	10000	41.0301	93.0416	-489	QK	1.9	-1	8.0	1	1.1	0	0.235	-2	1.697	-1	7.218	1	1669	38	0.8
47216.3	10000	41.0301	93.0408	-490	QK	2.0	-1	7.8	1	1.1	0	0.251	-1	1.796	-1	7.164	1	1679	40	0.8
47216.4	10000	41.0302	93.0399	-490	QK	2.1	-1	7.5	1	1.1	0	0.280	-1	1.911	-1	6.835	0	1677	42	0.8
47216.5	10000	41.0302	93.0391	-491	QK	2.2	-1	7.2	0	1.1	0	0.302	-1	2.023	-1	6.693	0	1676	41	0.8
47216.6	10000	41.0302	93.0383	-492	QK	2.3	0	6.8	-1	1.0	-1	0.337	0	2.192	0	6.510	0	1661	48	0.8
47216.7	10000	41.0302	93.0374	-493	QK	2.2	-1	6.6	-1	1.0	-1	0.339	0	2.203	0	6.491	0	1646	54	0.8
47216.8	10000	41.0302	93.0366	-494	QK	2.3	-1	6.7	-1	1.0	-1	0.338	0	2.326	0	6.890	0	1629	43	0.8
47216.9	10000	41.0302	93.0357	-496	QK	2.2	-1	6.4	-1	1.0	-1	0.352	0	2.278	0	6.482	0	1604	52	0.8
47217.0	10000	41.0302	93.0349	-498	QK	2.3	-1	6.2	-1	1.0	-1	0.364	0	2.332	0	6.413	0	1571	49	0.8
47217.1	10000	41.0302	93.0340	-500	QK	2.1	-1	6.6	-1	1.0	-1	0.314	-1	2.140	0	6.815	0	1565	50	0.8
47217.2	10000	41.0303	93.0332	-501	QK	2.0	-1	7.1	0	1.0	-1	0.276	-1	1.997	-1	7.236	1	1548	37	0.8
47217.3	10000	41.0303	93.0324	-503	QK	1.8	-1	7.1	0	1.0	-1	0.254	-1	1.872	-1	7.361	1	1533	43	0.8
47217.4	10000	41.0303	93.0315	-504	QK	1.7	-2	7.1	0	1.0	-1	0.246	-1	1.794	-1	7.295	1	1506	45	0.8
47217.5	10000	41.0303	93.0307	-505	QK	1.7	-2	6.8	-1	0.9	-2	0.244	-1	1.800	-1	7.391	1	1491	49	0.8
47217.6	10000	41.0303	93.0298	-506	QK	1.8	-2	6.9	0	0.9	-2	0.258	-1	1.940	-1	7.524	1	1490	40	0.8
47217.7	10000	41.0303	93.0290	-508	QK	2.0	-1	7.2	0	1.0	-2	0.272	-1	2.115	0	7.784	2	1508	44	0.8
47217.8	10000	41.0303	93.0282	-509	QK	2.2	-1	7.1	0	0.9	-2	0.306	-1	2.281	0	7.465	1	1541	38	0.8
47217.9	10000	41.0304	93.0273	-510	QK	2.2	-1	7.1	0	0.9	-2	0.309	-1	2.358	0	7.632	2	1558	47	0.8
47218.0	10000	41.0304	93.0265	-512	QK	2.1	-1	7.1	0	0.9	-2	0.298	-1	2.268	0	7.616	2	1553	47	0.8
47218.1	10000	41.0304	93.0256	-513	QK	2.2	-1	7.0	0	0.9	-2	0.317	0	2.408	0	7.599	2	1551	46	0.8
47218.2	10000	41.0304	93.0248	-515	QK	2.4	0	7.1	0	0.9	-2	0.340	0	2.714	1	7.977	2	1534	51	0.8
47218.3	10000	41.0304	93.0239	-517	QK	2.4	0	6.8	-1	0.9	-2	0.343	0	2.722	1	7.926	2	1518	47	0.8
47218.4	10000	41.0304	93.0231	-518	QK	2.0	-1	6.4	-1	0.9	-2	0.312	-1	2.281	0	7.312	1	1480	44	0.8

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47218.5	10000	41.0305	93.0223	-520	QK	1.9	-1	6.4	-1	0.9	-2	0.291	-1	2.135	0	7.344	1	1429	46	0.8
47218.6	10000	41.0305	93.0214	-521	QK	2.0	-1	5.9	-2	0.9	-2	0.331	0	2.187	0	6.600	0	1395	58	0.8
47218.7	10000	41.0305	93.0206	-523	QK	1.8	-1	5.8	-2	0.9	-2	0.314	-1	1.984	-1	6.316	0	1394	34	0.8
47218.8	10000	41.0305	93.0197	-524	QK	2.0	-1	6.1	-2	0.9	-2	0.329	0	2.228	0	6.773	0	1418	43	0.8
47218.9	10000	41.0305	93.0189	-526	QK	2.1	-1	6.1	-2	0.9	-1	0.342	0	2.215	0	6.482	0	1453	45	0.8
47219.0	10000	41.0305	93.0181	-527	QK	2.2	-1	6.5	-1	0.9	-2	0.346	0	2.376	0	6.873	1	1475	46	0.8
47219.1	10000	41.0305	93.0172	-528	QK	2.4	0	6.7	-1	[illegible]9	-2	0.358	0	2.666	1	7.439	1	1496	47	0.8
47219.2	10000	41.0305	93.0164	-530	QK	2.6	0	6.8	-1	[illegible]	-2	0.376	0	2.877	1	7.643	2	1515	37	0.8
47219.3	10000	41.0306	93.0155	-531	QK	2.6	0	7.3	0	[illegible]	-2	0.356	0	3.018	2	8.476	3	1539	35	0.8
47219.4	10000	41.0306	93.0147	-533	QK	2.8	1	7.1	0	0.8	-2	0.393	1	3.338	2	8.491	3	1532	57	0.8
47219.5	10000	41.0306	93.0138	-534	QK	2.7	0	7.1	0	0.8	-3	0.377	0	3.272	2	8.686	3	1518	55	0.8
47219.6	10000	41.0306	93.0130	-535	QK	2.6	0	6.8	-1	0.8	-3	0.381	0	3.137	2	8.229	2	1497	46	0.8
47219.7	10000	41.0306	93.0121	-537	QK	2.4	0	6.7	-1	0.8	-3	0.366	0	3.002	2	8.204	2	1471	53	0.8
47219.8	10000	41.0306	93.0113	-538	QK	2.5	0	6.6	-1	0.8	-2	0.371	0	2.991	2	8.058	2	1461	45	0.8
47219.9	10000	41.0307	93.0105	-540	QK	2.2	-1	6.6	-1	0.8	-2	0.333	0	2.644	1	7.936	2	1450	49	0.8
47220.0	10000	41.0307	93.0096	-541	QK	2.2	-1	6.3	-1	0.9	-2	0.356	0	2.602	1	7.314	1	1448	43	0.8
47220.1	10000	41.0307	93.0087	-542	QK	2.1	-1	6.4	-1	0.9	-2	0.336	0	2.405	0	7.163	1	1463	47	0.8
47220.2	10000	41.0307	93.0079	-544	QK	2.0	-1	6.2	-1	1.0	-1	0.318	0	2.083	0	6.559	0	1471	46	0.9
47220.3	10000	41.0307	93.0070	-545	QK	2.0	-1	6.8	-1	1.0	-1	0.292	-1	2.068	0	7.089	1	1485	37	0.9
47220.4	10000	41.0307	93.0061	-546	QK	1.9	-1	6.7	-1	0.9	-2	0.288	-1	2.064	0	7.172	1	1502	56	0.9
47220.5	10000	41.0307	93.0052	-547	QK	1.9	-1	6.5	-1	0.9	-2	0.297	-1	2.065	0	6.963	1	1495	49	0.9
47220.6	10000	41.0306	93.0043	-548	QK	2.0	-1	6.2	-1	0.9	-2	0.329	0	2.202	0	6.686	0	1488	32	0.9
47220.7	10000	41.0306	93.0034	-549	QK	2.0	-1	5.9	-2	0.9	-2	0.339	0	2.201	0	6.498	0	1447	46	0.9
47220.8	10000	41.0306	93.0026	-551	QK	2.1	-1	5.5	-2	0.9	-2	0.381	0	2.448	0	6.422	0	1411	42	0.9
47220.9	10000	41.0306	93.0017	-553	QK	2.2	-1	5.1	-3	0.8	-2	0.433	0	2.696	1	6.230	0	1377	37	0.9
47221.0	10000	41.0306	93.0008	-554	QK	2.2	-1	4.4	-4	0.8	-2	0.487	0	2.607	1	5.352	-2	1337	35	0.9
47221.1	10000	41.0306	92.9999	-555	QK	2.3	-1	3.9	-4	0.8	-2	0.585	1	2.786	1	4.766	-2	1313	38	0.9
47221.2	10000	41.0306	92.9990	-558	QK	2.2	-1	4.0	-4	0.8	-2	0.551	1	2.780	1	5.046	-2	1290	43	0.9
47221.3	10000	41.0306	92.9982	-558	QK	2.3	-1	3.9	-4	0.8	-2	0.587	1	2.940	1	5.004	-2	1277	36	0.9
47221.4	10000	41.0306	92.9973	-560	QK	2.2	-1	3.9	-4	0.8	-2	0.547	1	2.750	1	5.028	-2	1287	45	0.9
47221.5	10000	41.0306	92.9964	-562	QK	2.1	-1	4.1	-4	0.8	-2	0.513	1	2.504	1	4.883	-2	1306	38	0.9
47221.6	10000	41.0306	92.9955	-564	QK	2.1	-1	4.3	-4	0.8	-2	0.495	1	2.546	1	5.139	-2	1316	37	0.9
47221.7	10000	41.0306	92.9946	-566	QK	2.0	-1	4.7	-3	0.9	-2	0.430	0	2.389	1	5.562	-1	1340	45	0.9
47221.8	10000	41.0306	92.9937	-568	QK	1.8	-1	5.4	-2	0.9	-2	0.343	0	2.035	1	5.934	-1	1378	41	0.9
47221.9	10000	41.0306	92.9929	-570	QK	1.8	-2	5.6	-2	1.0	-2	0.320	-1	1.819	-1	5.694	-1	1435	43	0.9
47222.0	10000	41.0306	92.9920	-571	QK	1.8	-2	6.0	-2	1.0	-1	0.291	-1	1.689	-1	5.797	-1	1495	47	0.9
47222.1	10000	41.0306	92.9911	-573	QK	1.8	-2	6.3	-1	1.1	-1	0.285	-1	1.629	-1	5.721	-1	1541	35	0.9
47222.2	10000	41.0306	92.9902	-576	QK	1.7	-2	6.6	-1	1.1	-1	0.255	-1	1.531	-2	5.994	-1	1579	41	0.9
47222.3	10000	41.0306	92.9893	-578	QK	1.6	-2	6.8	-1	1.1	-1	0.230	-2	1.375	-2	5.969	-1	1611	53	0.9
47222.4	10000	41.0306	92.9885	-580	QK	1.6	-2	6.8	-1	1.1	-1	0.237	-2	1.411	-2	5.959	-1	1633	45	0.9
47222.5	10000	41.0306	92.9876	-583	QK	1.7	-2	6.5	-1	1.1	-1	0.259	-1	1.513	-2	5.836	-1	1621	47	0.9
47222.6	10000	41.0306	92.9867	-585	QK	1.7	-2	6.9	0	1.1	-1	0.253	-1	1.559	-1	6.162	0	1616	49	0.9
47222.7	10000	41.0306	92.9858	-587	QK	1.6	-2	6.7	-1	1.1	-1	0.233	-2	1.465	-2	6.300	0	1584	32	0.9
47222.8	10000	41.0306	92.9849	-589	QK	1.6	-2	6.6	-1	1.0	-1	0.248	-1	1.631	-1	6.583	0	1564	39	0.9
47222.9	10000	41.0306	92.9841	-591	QK	1.8	-1	6.5	-1	1.0	-1	0.279	-1	1.838	-1	6.579	0	1528	39	0.9
47223.0	10000	41.0306	92.9832	-593	QK	1.9	-1	6.7	-1	1.0	-1	0.285	-1	1.984	-1	6.973	1	1507	53	0.9
47223.1	10000	41.0306	92.9823	-594	QK	1.8	-2	6.5	-1	0.9	-1	0.274	-1	1.895	-1	6.917	1	1487	35	0.9
47223.2	10000	41.0306	92.9814	-595	QK	1.7	-2	6.7	-1	0.9	-2	0.260	-1	1.851	-1	7.117	1	1497	49	0.9
47223.3	10000	41.0306	92.9805	-596	QK	2.1	-1	6.3	-1	0.9	-2	0.338	0	2.401	0	7.103	1	1481	42	0.9
47223.4	10000	41.0306	92.9796	-598	QK	2.1	-1	6.3	-1	0.9	-2	0.339	0	2.418	0	7.126	1	1453	39	0.9
47223.5	10000	41.0306	92.9788	-598	QK	1.9	-1	6.1	-1	0.9	-2	0.314	-1	2.106	0	6.710	1	1410	43	0.9
47223.6	10000	41.0306	92.9779	-599	QK	1.9	-1	6.0	-2	0.9	-2	0.314	-1	2.165	0	6.886	1	1378	51	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47223.7	10000	41.0306	92.9770	-598	QK	1.8	-1	5.6	-2	0.9	-2	0.328	0	2.048	0	6.247	0	1357	29	0.9
47223.8	10000	41.0306	92.9761	-597	QK	1.9	-1	5.8	-2	0.9	-2	0.329	0	2.120	0	6.434	0	1355	47	0.9
47223.9	10000	41.0306	92.9752	-596	QK	1.8	-1	5.7	-2	0.9	-2	0.317	0	2.011	-1	6.349	0	1346	54	0.9
47224.0	10000	41.0305	92.9743	-596	QK	1.6	-2	5.8	-2	0.9	-2	0.271	-1	1.696	-1	6.259	0	1336	40	0.9
47224.1	10000	41.0305	92.9735	-594	QK	1.6	-2	5.9	-2	0.9	-2	0.271	-1	1.697	-1	6.259	0	1359	41	0.9
47224.2	10000	41.0305	92.9726	-593	QK	1.4	-2	6.1	-2	0.9	-2	0.235	-2	1.556	-1	6.605	0	1392	49	0.9
47224.3	10000	41.0305	92.9717	-591	QK	1.4	-2	6.4	-1	1.0	-1	0.223	-2	1.461	-2	6.551	0	1420	34	0.9
47224.4	10000	41.0305	92.9708	-589	QK	1.4	-2	6.6	-1	1.0	-1	0.209	-2	1.363	-2	6.508	0	1456	53	0.9
47224.5	10000	41.0305	92.9699	-586	QK	1.3	-2	6.3	-1	1.0	-1	0.207	-2	1.276	-2	6.167	0	1472	50	0.9
47224.6	10000	41.0305	92.9691	-583	QK	1.6	-2	6.3	-1	1.0	-1	0.248	-1	1.492	-2	6.023	-1	1468	43	0.9
47224.7	10000	41.0305	92.9682	-581	QK	1.4	-2	6.4	-1	1.0	-1	0.225	-2	1.416	-2	6.294	0	1485	55	0.9
47224.8	10000	41.0305	92.9673	-578	QK	1.5	-2	6.3	-1	1.0	-1	0.230	-2	1.423	-2	6.193	0	1503	44	0.9
47224.9	10000	41.0305	92.9664	-575	QK	1.8	-1	6.3	-1	1.0	-1	0.290	-1	1.761	-1	6.080	-1	1528	48	0.9
47225.0	10000	41.0305	92.9655	-572	QK	2.0	-1	6.3	-1	1.1	-1	0.318	0	1.907	-1	5.988	-1	1580	51	0.9
47225.1	10000	41.0305	92.9646	-569	QK	2.3	-1	6.4	-1	1.0	-1	0.353	0	2.163	0	6.127	-1	1613	47	0.9
47225.2	10000	41.0305	92.9638	-566	QK	2.4	0	6.6	-1	1.1	0	0.369	0	2.289	0	6.200	0	1649	37	0.9
47225.3	10000	41.0305	92.9629	-563	QK	2.2	-1	6.7	-1	1.1	0	0.335	0	2.003	-1	5.983	-1	1693	50	0.9
47225.4	10000	41.0305	92.9620	-561	QK	2.2	-1	7.2	0	1.1	0	0.299	-1	1.875	-1	6.277	0	1710	47	0.9
47225.5	10000	41.0305	92.9611	-558	QK	2.2	-1	7.5	0	1.1	0	0.297	-1	1.942	-1	6.545	0	1715	40	0.9
47225.6	10000	41.0305	92.9602	-555	QK	2.1	-1	7.6	1	1.1	0	0.278	-1	1.896	-1	6.815	0	1706	47	0.9
47225.7	10000	41.0305	92.9594	-553	QK	2.1	-1	7.9	1	1.1	0	0.270	-1	1.977	-1	7.332	1	1688	41	0.9
47225.8	10000	41.0305	92.9585	-550	QK	1.9	-1	8.1	1	1.1	-1	0.238	-2	1.827	-1	7.670	2	1651	47	0.9
47225.9	10000	41.0305	92.9576	-548	QK	1.8	-1	8.4	2	1.0	-1	0.221	-2	1.814	-1	8.210	2	1626	57	0.9
47226.0	10000	41.0305	92.9567	-545	QK	1.9	-1	8.1	1	0.9	-2	0.230	-2	2.020	-1	8.801	3	1589	50	0.9
47226.1	10000	41.0305	92.9558	-543	QK	2.1	-1	7.5	0	0.9	-2	0.284	-1	2.269	0	7.983	2	1573	54	0.9
47226.2	10000	41.0305	92.9549	-541	QK	2.3	-1	7.0	0	0.9	-2	0.334	-1	2.497	0	7.475	2	1560	40	0.9
47226.3	10000	41.0305	92.9541	-540	QK	2.1	-1	6.7	-1	0.9	-2	0.314	-1	2.309	0	7.355	1	1537	41	0.9
47226.4	10000	41.0305	92.9532	-539	QK	2.1	-1	6.5	-1	0.9	-2	0.330	-1	2.269	0	6.875	1	1527	44	0.9
47226.5	10000	41.0305	92.9523	-537	QK	2.2	-1	6.6	-1	0.9	-2	0.329	-1	2.286	0	6.942	1	1541	46	0.9
47226.6	10000	41.0305	92.9514	-535	QK	2.0	-1	6.6	-1	0.9	-2	0.306	-1	2.132	0	6.972	1	1538	47	0.9
47226.7	10000	41.0305	92.9505	-533	QK	2.2	-1	6.8	-1	1.0	-1	0.326	-1	2.322	0	7.126	1	1540	47	0.9
47226.8	10000	41.0305	92.9497	-532	QK	2.0	-1	7.4	-1	1.0	-1	0.265	-2	2.018	-1	7.603	2	1553	41	0.9
47226.9	10000	41.0305	92.9488	-531	QK	1.8	-1	7.9	0	1.0	-1	0.230	-2	1.840	-1	8.013	2	1558	49	0.8
47227.0	10000	41.0305	92.9479	-530	QK	2.3	-1	8.1	1	1.0	-1	0.287	-1	2.232	0	7.779	2	1596	41	0.8
47227.1	10000	41.0305	92.9470	-529	QK	2.4	0	8.3	2	1.0	-1	0.292	-1	2.387	0	8.164	2	1601	40	0.8
47227.2	10000	41.0304	92.9461	-527	QK	2.4	0	8.1	1	1.0	-1	0.298	-1	2.387	0	8.009	2	1607	51	0.8
47227.3	10000	41.0304	92.9453	-527	QK	2.7	0	8.0	1	1.0	-1	0.334	0	2.604	1	7.806	2	1612	37	0.8
47227.4	10000	41.0304	92.9444	-526	QK	2.7	0	8.3	1	1.0	-1	0.320	0	2.587	1	8.093	2	1621	42	0.8
47227.5	10000	41.0304	92.9435	-527	QK	2.8	0	8.0	1	1.0	-1	0.356	0	2.800	1	7.866	2	1604	44	0.8
47227.6	10000	41.0304	92.9426	-527	QK	2.7	0	7.7	1	1.0	-1	0.360	0	2.774	1	7.708	2	1611	43	0.8
47227.7	10000	41.0304	92.9417	-527	QK	2.6	0	7.7	1	0.9	-2	0.355	0	2.741	1	7.717	2	1589	37	0.8
47227.8	10000	41.0304	92.9408	-526	QK	2.5	0	7.7	0	0.9	-2	0.332	0	2.586	1	7.797	2	1567	48	0.8
47227.9	10000	41.0304	92.9400	-526	QK	2.5	0	7.6	0	0.9	-2	0.363	0	2.722	1	7.488	1	1545	46	0.8
47228.0	10000	41.0304	92.9391	-527	QK	2.5	0	8.0	1	0.9	-2	0.363	0	2.700	1	7.437	1	1546	47	0.8
47228.1	10000	41.0304	92.9382	-527	QK	2.6	0	8.6	1	0.9	-2	0.389	0	2.769	1	7.112	1	1536	46	0.8
47228.2	10000	41.0304	92.9373	-528	QK	2.8	0	8.6	1	1.0	-1	0.420	0	2.964	1	7.063	1	1537	31	0.8
47228.3	10000	41.0304	92.9364	-528	QK	2.7	0	8.1	1	1.0	-1	0.397	0	2.797	1	7.041	1	1529	45	0.8
47228.4	10000	41.0304	92.9355	-528	QK	2.6	0	7.7	1	1.0	-1	0.358	0	2.554	1	7.136	1	1517	44	0.8
47228.5	10000	41.0304	92.9347	-529	QK	2.6	0	7.3	1	1.0	-1	0.364	0	2.580	1	7.081	1	1503	45	0.8
47228.6	10000	41.0304	92.9338	-529	QK	2.3	0	7.1	0	1.0	-1	0.319	0	2.346	1	7.353	1	1499	32	0.7
47228.7	10000	41.0304	92.9329	-530	QK	2.1	-1	7.1	0	1.0	-1	0.303	-1	2.214	1	7.298	1	1470	53	0.7
47228.8	10000	41.0304	92.9320	-531	QK	1.9	-1	7.0	0	1.0	-1	0.276	-1	1.982	-1	7.192	1	1469	39	0.7

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47228.9	10000	41.0304	92.9311	-531	QK	1.8	-2	7.2	0	0.9	-1	0.248	-1	1.886	-1	7.596	2	1474	28	0.7
47229.0	10000	41.0304	92.9303	-532	QK	1.8	-1	6.9	0	0.9	-2	0.264	-1	2.107	0	7.976	2	1454	40	0.7
47229.1	10000	41.0304	92.9294	-533	QK	2.2	-1	6.9	0	0.8	-2	0.318	0	2.659	1	8.351	3	1459	42	0.7
47229.2	10000	41.0304	92.9285	-534	QK	2.1	-1	7.0	0	0.9	-2	0.299	-1	2.420	0	8.085	2	1472	43	0.7
47229.3	10000	41.0304	92.9276	-535	QK	2.1	-1	6.7	-1	0.9	-2	0.317	0	2.507	1	7.916	2	1468	58	0.7
47229.4	10000	41.0304	92.9267	-535	QK	2.3	0	7.3	0	0.8	-2	0.319	0	2.797	1	8.768	3	1483	39	0.7
47229.5	10000	41.0304	92.9258	-536	QK	2.4	0	7.4	0	0.8	-3	0.328	0	3.031	2	9.237	4	1490	39	0.7
47229.6	10000	41.0304	92.9250	-536	QK	2.5	0	7.3	0	0.8	-2	0.337	0	2.922	1	8.668	3	1490	46	0.7
47229.7	10000	41.0304	92.9241	-538	QK	2.4	0	7.7	1	0.9	-2	0.310	-1	2.699	1	8.719	3	1504	36	0.7
47229.8	10000	41.0304	92.9232	-539	QK	2.1	-1	7.7	1	0.9	-2	0.277	-1	2.383	0	8.609	3	1515	48	0.7
47229.9	10000	41.0304	92.9223	-540	QK	2.3	0	7.7	1	1.0	-1	0.301	-1	2.407	0	7.992	2	1545	51	0.7
47230.0	10000	41.0304	92.9214	-541	QK	2.3	0	7.8	1	1.0	-1	0.296	-1	2.321	0	7.847	2	1584	48	0.7
47230.1	10000	41.0304	92.9206	-542	QK	2.1	-1	7.4	0	1.1	0	0.286	-1	1.961	-1	6.850	1	1602	44	0.7
47230.2	10000	41.0303	92.9197	-543	QK	2.3	0	7.1	0	1.1	0	0.324	0	2.089	0	6.452	0	1611	66	0.7
47230.3	10000	41.0303	92.9188	-544	QK	2.2	-1	7.3	0	1.1	0	0.307	-1	2.078	0	6.765	0	1600	55	0.7
47230.4	10000	41.0303	92.9179	-545	QK	2.3	-1	6.8	-1	1.1	0	0.334	0	2.107	0	6.315	0	1588	37	0.7
47230.5	10000	41.0303	92.9170	-546	QK	1.9	-1	6.7	-1	1.1	0	0.288	-1	1.761	-1	6.115	-1	1571	46	0.7
47230.6	10000	41.0303	92.9162	-548	QK	1.8	-2	6.3	-1	1.0	-1	0.278	-1	1.685	-1	6.060	-1	1552	42	0.7
47230.7	10000	41.0303	92.9153	-549	QK	1.9	-1	6.5	-1	1.1	0	0.298	-1	1.814	-1	6.085	-1	1549	39	0.7
47230.8	10000	41.0303	92.9144	-550	QK	2.2	-1	6.9	0	1.0	-1	0.319	0	2.156	0	6.766	0	1566	45	0.6
47230.9	10000	41.0303	92.9135	-551	QK	2.0	-1	7.4	0	1.1	-1	0.277	-1	1.933	-1	6.985	1	1573	46	0.6
47231.0	10000	41.0303	92.9126	-552	QK	2.1	-1	7.5	0	1.1	0	0.278	-1	1.889	-1	6.803	0	1605	46	0.6
47231.1	10000	41.0303	92.9117	-553	QK	2.2	-1	7.7	1	1.1	0	0.290	-1	1.984	-1	6.829	0	1626	51	0.6
47231.2	10000	41.0303	92.9109	-555	QK	2.5	0	7.8	1	1.2	0	0.321	0	2.181	0	6.804	0	1662	34	0.6
47231.3	10000	41.0303	92.9100	-556	QK	2.5	0	8.1	1	1.2	0	0.313	-1	2.202	0	7.038	1	1682	54	0.6
47231.4	10000	41.0303	92.9091	-557	QK	2.5	0	8.3	1	1.1	0	0.304	-1	2.246	0	7.396	1	1681	52	0.6
47231.5	10000	41.0303	92.9082	-558	QK	2.4	0	7.7	1	1.1	0	0.309	-1	2.148	0	6.954	1	1657	49	0.6
47231.6	10000	41.0303	92.9073	-560	QK	2.4	0	7.5	1	1.1	0	0.319	0	2.132	0	6.685	1	1653	48	0.6
47231.7	10000	41.0303	92.9064	-562	QK	2.4	0	7.1	1	1.1	0	0.347	0	2.261	0	6.518	1	1633	30	0.6
47231.8	10000	41.0303	92.9056	-563	QK	2.5	0	7.2	1	1.1	0	0.350	0	2.402	0	6.860	1	1630	37	0.6
47231.9	10000	41.0303	92.9047	-566	QK	2.4	0	6.8	0	1.1	0	0.356	0	2.431	0	6.838	1	1599	45	0.6
47232.0	10000	41.0303	92.9038	-568	QK	2.4	0	6.5	-1	1.1	0	0.365	0	2.367	0	6.485	1	1583	29	0.6
47232.1	10000	41.0303	92.9029	-570	QK	2.4	0	6.4	-1	1.1	0	0.374	0	2.336	0	6.242	1	1563	48	0.6
47232.2	10000	41.0303	92.9020	-572	QK	2.2	-1	6.4	-1	1.0	0	0.339	0	2.153	0	6.349	1	1555	51	0.6
47232.3	10000	41.0303	92.9012	-574	QK	2.1	-1	6.7	-1	0.9	-1	0.321	0	2.260	0	7.048	1	1550	47	0.6
47232.4	10000	41.0303	92.9003	-576	QK	2.2	-1	6.7	-1	1.0	-1	0.326	0	2.275	0	6.971	1	1540	41	0.6
47232.5	10000	41.0303	92.8994	-579	QK	1.9	-1	6.6	-1	1.0	-1	0.294	-1	1.974	-1	6.708	1	1533	49	0.6
47232.6	10000	41.0303	92.8985	-582	QK	1.9	-1	6.9	-1	1.0	-1	0.280	-1	1.942	-1	6.935	1	1541	51	0.6
47232.7	10000	41.0303	92.8976	-584	QK	2.1	-1	7.5	0	1.0	-1	0.277	-1	2.121	0	7.665	2	1550	29	0.6
47232.8	10000	41.0303	92.8967	-586	QK	2.1	-1	7.4	0	1.0	-1	0.282	-1	2.124	0	7.526	2	1562	47	0.6
47232.9	10000	41.0303	92.8959	-589	QK	2.3	-1	7.7	0	1.0	-1	0.297	-1	2.306	0	7.773	2	1573	47	0.6
47233.0	10000	41.0303	92.8950	-592	QK	2.4	-1	7.4	0	1.0	-1	0.320	0	2.317	0	7.245	1	1586	49	0.6
47233.1	10000	41.0302	92.8941	-595	QK	2.4	-1	7.5	0	1.0	-1	0.317	0	2.317	0	7.303	1	1608	44	0.6
47233.2	10000	41.0302	92.8932	-599	QK	2.4	-1	7.6	0	1.1	0	0.319	0	2.275	0	7.136	1	1637	49	0.6
47233.3	10000	41.0302	92.8923	-601	QK	2.5	-1	7.8	0	1.1	0	0.329	0	2.368	0	7.207	1	1661	46	0.6
47233.4	10000	41.0302	92.8914	-604	QK	2.5	-1	7.8	0	1.1	0	0.338	0	2.323	0	6.868	1	1659	24	0.6
47233.5	10000	41.0302	92.8906	-609	QK	2.8	-1	7.3	0	1.1	0	0.381	0	2.602	0	6.831	1	1665	50	0.6
47233.6	10000	41.0302	92.8897	-612	QK	2.9	-1	7.4	0	1.1	0	0.388	0	2.588	0	6.668	1	1695	40	0.6
47233.7	10000	41.0302	92.8888	-615	QK	2.9	-1	7.6	0	1.1	0	0.380	0	2.660	0	7.009	1	1696	39	0.6
47233.8	10000	41.0302	92.8879	-619	QK	3.0	-1	7.6	0	1.1	0	0.402	0	2.883	0	7.172	1	1699	45	0.6
47233.9	10000	41.0302	92.8870	-623	QK	3.1	-1	7.5	0	1.1	0	0.418	0	2.999	0	7.180	1	1700	46	0.6
47234.0	10000	41.0302	92.8862	-626	QK	3.0	-1	7.1	0	1.0	-1	0.419	1	2.937	1	7.005	1	1679	42	0.6

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47234.1	10000	41.0302	92.8853	-629	QK	3.0	1	7.0	0	1.0	-1	0.431	1	2.942	1	6.832	0	1679	42	0.6
47234.2	10000	41.0302	92.8844	-632	QK	2.8	0	7.4	0	1.0	-1	0.374	1	2.627	1	7.032	1	1670	56	0.6
47234.3	10000	41.0302	92.8835	-633	QK	2.6	0	7.1	0	1.0	-1	0.366	0	2.550	1	6.971	1	1650	45	0.6
47234.4	10000	41.0302	92.8826	-635	QK	2.5	0	7.5	0	1.0	-1	0.328	0	2.458	0	7.498	1	1646	44	0.6
47234.5	10000	41.0302	92.8818	-638	QK	2.3	0	7.4	0	1.0	-1	0.316	0	2.264	0	7.173	1	1646	44	0.6
47234.6	10000	41.0302	92.8810	-640	QK	2.4	0	7.1	0	1.0	-1	0.339	0	2.506	1	7.400	1	1646	47	0.6
47234.7	10000	41.0302	92.8801	-643	QK	2.6	0	7.4	0	1.0	-1	0.356	0	2.588	1	7.277	1	1645	40	0.6
47234.8	10000	41.0303	92.8793	-646	QK	2.5	1	7.6	0	1.0	-1	0.329	0	2.567	1	7.815	2	1634	48	0.6
47234.9	10000	41.0303	92.8784	-648	QK	2.6	0	7.4	0	0.9	-2	0.346	0	2.754	1	7.957	2	1630	47	0.6
47235.0	10000	41.0303	92.8776	-649	QK	2.7	0	7.5	0	0.9	-1	0.357	0	2.829	1	7.926	2	1618	50	0.6
47235.1	10000	41.0303	92.8767	-651	QK	2.6	0	6.7	-1	1.0	-1	0.395	1	2.785	1	7.049	1	1599	41	0.6
47235.2	10000	41.0303	92.8759	-653	QK	2.5	0	6.6	-1	0.9	-2	0.372	0	2.674	1	7.187	1	1575	48	0.6
47235.3	10000	41.0303	92.8750	-655	QK	2.4	0	6.6	-1	1.0	-1	0.359	0	2.494	0	6.950	1	1536	45	0.6
47235.4	10000	41.0304	92.8742	-656	QK	2.2	-1	6.8	-1	0.9	-2	0.328	0	2.470	0	7.518	1	1530	51	0.6
47235.5	10000	41.0304	92.8733	-657	QK	2.3	0	6.7	-1	0.9	-2	0.343	0	2.501	0	7.294	1	1527	30	0.6
47235.6	10000	41.0304	92.8725	-658	QK	2.1	-1	6.6	-1	1.0	-1	0.324	0	2.180	0	6.726	0	1518	39	0.6
47235.7	10000	41.0304	92.8716	-658	QK	2.2	-1	7.0	0	1.0	-1	0.312	-1	2.192	0	7.022	1	1511	41	0.6
47235.8	10000	41.0304	92.8708	-660	QK	2.2	-1	7.0	0	1.0	-1	0.318	0	2.176	0	6.836	1	1509	41	0.6
47235.9	10000	41.0304	92.8700	-661	QK	2.4	0	7.2	0	1.1	-1	0.330	0	2.255	0	6.842	1	1513	56	0.6
47236.0	10000	41.0305	92.8691	-662	QK	2.3	0	7.5	0	1.0	-1	0.306	-1	2.296	0	7.491	1	1509	42	0.6
47236.1	10000	41.0305	92.8683	-663	QK	2.5	0	7.4	0	1.0	-1	0.336	0	2.445	0	7.280	1	1500	52	0.6
47236.2	10000	41.0305	92.8674	-664	QK	2.4	0	7.2	0	1.0	-1	0.338	0	2.354	0	6.975	1	1498	42	0.6
47236.3	10000	41.0305	92.8666	-665	QK	2.5	0	7.0	0	0.9	-2	0.359	0	2.691	1	7.490	1	1490	49	0.6
47236.4	10000	41.0305	92.8657	-665	QK	2.5	0	6.9	0	1.0	-1	0.361	0	2.502	0	6.938	1	1492	36	0.6
47236.5	10000	41.0305	92.8649	-665	QK	2.3	0	7.0	0	1.0	-1	0.331	0	2.304	0	6.972	1	1502	45	0.6
47236.6	10000	41.0306	92.8640	-665	QK	2.3	0	6.7	-1	1.0	-1	0.346	0	2.285	0	6.599	0	1520	42	0.6
47236.7	10000	41.0306	92.8632	-664	QK	2.5	0	6.5	-1	1.1	0	0.387	1	2.313	0	5.979	-1	1538	50	0.6
47236.8	10000	41.0306	92.8624	-661	QK	2.5	0	6.4	-1	1.1	0	0.387	1	2.239	0	5.780	-1	1561	40	0.6
47236.9	10000	41.0306	92.8615	-652	QK	2.5	0	6.7	-1	1.1	0	0.377	1	2.275	0	6.033	-1	1578	38	0.6
47237.0	10000	41.0306	92.8607	-655	QK	2.4	0	6.9	-1	1.2	0	0.346	0	2.038	0	5.900	-1	1585	41	0.6
47237.1	10000	41.0306	92.8598	-665	QK	2.4	0	6.7	-1	1.1	0	0.365	0	2.204	0	6.034	-1	1593	43	0.6
47237.2	10000	41.0307	92.8590	-672	QK	2.9	1	7.0	0	1.1	0	0.412	1	2.684	1	6.514	0	1597	34	0.6
47237.3	10000	41.0307	92.8581	-676	QK	2.9	1	7.0	0	1.1	-1	0.412	1	2.713	1	6.581	0	1595	51	0.6
47237.4	10000	41.0307	92.8573	-679	QK	2.8	1	7.1	0	1.1	-1	0.394	1	2.728	1	6.922	1	1596	42	0.6
47237.5	10000	41.0307	92.8564	-681	QK	2.7	0	7.2	0	1.1	-1	0.377	0	2.650	1	7.029	1	1581	44	0.6
47237.6	10000	41.0307	92.8556	-684	QK	2.9	1	6.7	-1	1.1	-1	0.433	1	2.809	1	6.494	0	1568	37	0.6
47237.7	10000	41.0307	92.8548	-686	QK	3.0	1	6.6	-1	1.1	-1	0.445	2	3.068	2	6.887	1	1573	33	0.6
47237.8	10000	41.0308	92.8539	-688	QK	3.1	1	6.6	-1	1.1	-1	0.464	2	3.191	2	6.881	1	1573	49	0.6
47237.9	10000	41.0308	92.8531	-689	QK	2.6	0	6.6	-1	1.1	-1	0.393	1	2.730	1	6.952	1	1576	46	0.6
47238.0	10000	41.0308	92.8522	-691	QK	2.7	0	7.0	0	1.1	-1	0.382	0	2.752	1	7.197	1	1586	55	0.6
47238.1	10000	41.0308	92.8514	-693	QK	2.5	0	7.0	0	1.1	-1	0.355	0	2.583	1	7.285	1	1596	38	0.7
47238.2	10000	41.0308	92.8505	-693	QK	2.4	0	6.8	-1	1.1	-1	0.347	0	2.403	1	6.931	1	1609	51	0.7
47238.3	10000	41.0308	92.8497	-693	QK	2.1	-1	7.0	0	1.1	-1	0.303	-1	2.210	1	7.304	1	1605	39	0.7
47238.4	10000	41.0308	92.8488	-694	QK	2.2	-1	7.0	0	1.1	-1	0.309	-1	2.220	1	7.173	1	1589	57	0.7
47238.5	10000	41.0309	92.8480	-694	QK	1.8	-1	7.2	0	1.1	-1	0.252	-1	1.860	-1	7.376	1	1573	39	0.7
47238.6	10000	41.0309	92.8471	-694	QK	1.8	-2	6.9	-1	1.1	-1	0.259	-1	1.795	-1	6.939	1	1552	45	0.7
47238.7	10000	41.0309	92.8463	-695	QK	1.6	-2	6.8	-1	1.1	-1	0.236	-2	1.661	-1	7.045	1	1511	50	0.7
47238.8	10000	41.0309	92.8454	-696	QK	1.6	-2	6.6	-1	1.1	-1	0.243	-2	1.668	-1	6.879	1	1489	37	0.7
47238.9	10000	41.0309	92.8446	-700	QK	1.6	-2	6.6	-1	1.1	-1	0.237	-2	1.645	-1	6.936	1	1469	43	0.7
47239.0	10000	41.0309	92.8438	-713	QK	1.7	-2	6.6	-1	1.0	-1	0.260	-1	1.803	-1	6.932	1	1469	49	0.7
47239.1	10000	41.0310	92.8429	-726	QK	1.7	-2	6.5	-1	1.0	-1	0.263	-1	1.803	-1	6.846	1	1472	38	0.7
47239.2	10000	41.0310	92.8421	-710	QK	1.9	-1	6.1	-1	1.0	-1	0.317	0	2.041	0	6.446	0	1471	33	0.7

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47239.3	10000	41.0310	92.8412	-697	QK	2.2	-1	6.3	-1	1.0	-1	0.350	0	2.270	0	6.485	0	1488	60	0.7
47239.4	10000	41.0310	92.8404	-696	QK	2.2	-1	6.4	-1	1.0	-1	0.350	0	2.344	0	6.694	0	1517	61	0.7
47239.5	10000	41.0310	92.8395	-698	QK	2.3	0	6.6	-1	0.9	-1	0.345	0	2.416	0	7.009	1	1534	42	0.7
47239.6	10000	41.0310	92.8387	-701	QK	2.7	0	6.6	-1	0.9	-2	0.406	1	2.942	1	7.253	1	1561	37	0.7
47239.7	10000	41.0311	92.8378	-701	QK	2.6	0	6.7	-1	0.9	-2	0.391	1	2.955	1	7.556	2	1570	55	0.7
47239.8	10000	41.0311	92.8370	-701	QK	2.6	0	6.6	-1	0.9	-2	0.385	0	2.831	1	7.354	1	1578	47	0.7
47239.9	10000	41.0311	92.8362	-703	QK	2.6	0	6.8	-1	0.9	-2	0.390	1	2.984	2	7.648	2	1584	38	0.7
47240.0	10000	41.0311	92.8353	-705	QK	2.9	1	6.9	0	0.9	-2	0.426	1	3.364	2	7.896	2	1580	49	0.7
47240.1	10000	41.0311	92.8345	-707	QK	3.1	1	6.8	-1	0.9	-2	0.455	1	3.493	3	7.673	2	1573	46	0.7
47240.2	10000	41.0311	92.8336	-709	QK	3.3	2	6.5	-1	0.9	-2	0.499	2	3.782	3	7.582	2	1561	44	0.7
47240.3	10000	41.0312	92.8328	-711	QK	3.0	1	6.8	-1	0.9	-2	0.444	1	3.398	3	7.659	2	1540	50	0.7
47240.4	10000	41.0312	92.8319	-713	QK	3.1	1	6.5	-1	0.9	-2	0.474	2	3.455	3	7.289	1	1510	39	0.7
47240.5	10000	41.0312	92.8311	-715	QK	3.1	1	6.4	-1	0.9	-2	0.490	2	3.501	3	7.146	1	1500	49	0.8
47240.6	10000	41.0312	92.8302	-717	QK	3.1	1	6.4	-1	0.9	-2	0.490	2	3.652	3	7.458	1	1488	47	0.8
47240.7	10000	41.0312	92.8294	-720	QK	2.9	1	6.4	-1	0.8	-2	0.447	1	3.451	2	7.719	2	1480	42	0.8
47240.8	10000	41.0312	92.8286	-724	QK	2.7	0	6.7	-1	0.8	-2	0.404	1	3.259	2	8.068	2	1484	39	0.8
47240.9	10000	41.0313	92.8277	-726	QK	2.4	0	6.4	-1	0.9	-2	0.374	1	2.834	1	7.578	2	1467	48	0.8
47241.0	10000	41.0313	92.8269	-728	QK	2.3	0	6.4	-1	0.9	-2	0.366	1	2.735	1	7.477	1	1462	38	0.8
47241.1	10000	41.0313	92.8260	-730	QK	2.3	0	6.5	-1	0.9	-2	0.356	0	2.688	1	7.550	2	1471	50	0.8
47241.2	10000	41.0313	92.8252	-733	QK	2.3	0	7.0	0	0.9	-2	0.330	0	2.671	1	8.100	2	1489	35	0.8
47241.3	10000	41.0313	92.8243	-736	QK	2.1	-1	7.2	0	0.9	-2	0.297	-1	2.291	0	7.710	2	1504	49	0.8
47241.4	10000	41.0313	92.8235	-739	QK	2.0	-1	7.0	0	1.0	-1	0.291	-1	2.030	0	6.980	1	1519	52	0.8
47241.5	10000	41.0313	92.8226	-742	QK	2.1	-1	6.8	-1	1.0	-1	0.303	-1	1.996	-1	6.594	0	1516	40	0.8
47241.6	10000	41.0314	92.8218	-744	QK	2.3	0	7.2	0	1.1	-1	0.318	0	2.171	0	6.831	0	1536	31	0.8
47241.7	10000	41.0314	92.8209	-747	QK	2.3	0	7.1	0	1.0	-1	0.329	0	2.316	0	7.050	1	1530	34	0.8
47241.8	10000	41.0314	92.8201	-751	QK	2.2	-1	7.2	0	1.0	-1	0.311	-1	2.162	0	6.963	1	1540	41	0.8
47241.9	10000	41.0314	92.8192	-754	QK	2.2	-1	6.7	-1	1.0	-1	0.326	0	2.109	0	6.475	0	1539	47	0.8
47242.0	10000	41.0314	92.8184	-757	QK	2.4	0	6.7	-1	1.0	-1	0.349	0	2.307	0	6.616	0	1539	35	0.8
47242.1	10000	41.0314	92.8176	-759	QK	2.6	0	6.8	-1	1.0	-1	0.379	0	2.686	1	7.093	1	1542	50	0.8
47242.2	10000	41.0315	92.8167	-762	QK	2.5	0	6.9	0	1.0	-1	0.359	0	2.601	1	7.240	1	1551	47	0.8
47242.3	10000	41.0315	92.8159	-764	QK	2.4	0	7.0	0	1.0	-1	0.340	0	2.504	1	7.373	1	1581	39	0.8
47242.4	10000	41.0315	92.8150	-766	QK	2.6	0	7.1	0	1.0	-1	0.362	0	2.593	1	7.165	1	1620	49	0.8
47242.5	10000	41.0315	92.8142	-770	QK	2.5	0	6.9	0	1.0	-1	0.370	0	2.592	1	7.014	1	1636	54	0.8
47242.6	10000	41.0315	92.8133	-774	QK	2.9	1	7.1	0	1.0	-1	0.412	1	2.995	2	7.266	1	1629	47	0.8
47242.7	10000	41.0315	92.8125	-777	CULTRL	2.8	999	6.9	999	1.0	999	0.401	999	2.899	999	7.235	999	1615	47	0.8
47242.8	10000	41.0316	92.8116	-781	CULTRL	2.4	999	6.9	999	1.0	999	0.351	999	2.533	999	7.221	999	1600	45	0.9
47242.9	10000	41.0316	92.8108	-784	CULTRL	2.7	999	6.7	999	0.9	999	0.405	999	2.891	999	7.135	999	1594	48	0.9
47243.0	10000	41.0316	92.8100	-789	CULTRL	2.5	999	6.1	999	0.9	999	0.416	999	2.771	999	6.655	999	1554	57	0.9
47243.1	10000	41.0316	92.8091	-794	CULTRL	2.5	999	5.7	999	0.9	999	0.449	999	2.796	999	6.230	999	1512	52	0.9
47243.2	10000	41.0316	92.8083	-798	CULTRL	2.8	999	6.4	999	0.9	999	0.438	999	3.141	999	7.164	999	1497	56	0.9
47243.3	10000	41.0316	92.8074	-801	CULTRL	2.5	999	6.2	999	0.9	999	0.410	999	2.915	999	7.115	999	1484	64	0.9
47243.4	10000	41.0316	92.8066	-804	CULTRL	2.7	999	6.0	999	0.9	999	0.452	999	3.078	999	6.811	999	1488	32	0.9
47243.5	10000	41.0317	92.8057	-808	CULTRL	3.1	999	5.8	999	0.9	999	0.533	999	3.325	999	6.233	999	1497	40	0.9
47243.6	10000	41.0317	92.8049	-814	CULTRL	3.1	999	5.6	999	0.9	999	0.549	999	3.377	999	6.155	999	1490	49	0.9
47243.7	10000	41.0317	92.8040	-820	CULTRL	3.5	999	5.4	999	0.9	999	0.643	999	3.795	999	5.900	999	1500	51	0.9
47243.8	10000	41.0317	92.8032	-824	CULTRL	3.3	999	5.3	999	1.0	999	0.623	999	3.470	999	5.572	999	1522	49	0.9
47243.9	10000	41.0317	92.8023	-825	CULTRL	3.1	999	4.9	999	1.0	999	0.643	999	3.022	999	4.699	999	1537	51	0.9
47244.0	10000	41.0317	92.8015	-827	CULTRL	2.9	999	5.4	999	1.1	999	0.540	999	2.677	999	4.959	999	1555	44	0.9
47244.1	10000	41.0317	92.8006	-831	CULTRL	2.8	999	5.5	999	1.1	999	0.508	999	2.551	999	5.020	999	1569	42	0.9
47244.2	10000	41.0317	92.7997	-835	CULTRL	2.5	999	5.7	999	1.1	999	0.447	999	2.401	999	5.371	999	1566	43	0.9
47244.3	10000	41.0317	92.7989	-840	CULTRL	2.5	999	5.7	999	1.0	999	0.441	999	2.416	999	5.474	999	1568	53	0.9
47244.4	10000	41.0316	92.7980	-845	CULTRL	2.4	999	6.4	999	1.0	999	0.368	999	2.270	999	6.177	999	1581	41	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47244.5	10000	41.0316	92.7971	-850	CULTRL	2.3	999	6.8	999	1.1	999	0.335	999	2.163	999	6.450	999	1596	44	0.9
47244.6	10000	41.0316	92.7963	-855	CULTRL	2.5	999	6.5	999	1.0	999	0.379	999	2.549	999	6.728	999	1587	61	0.9
47244.7	10000	41.0316	92.7954	-860	CULTRL	2.6	999	6.4	999	0.9	999	0.410	999	2.864	999	6.986	999	1580	43	0.9
47244.8	10000	41.0316	92.7946	-865	CULTRL	2.7	999	6.4	999	0.9	999	0.426	999	2.937	999	6.893	999	1587	43	0.9
47244.9	10000	41.0316	92.7937	-871	CULTRL	2.9	999	6.1	999	0.9	999	0.479	999	3.209	999	6.700	999	1594	46	0.9
47245.0	10000	41.0316	92.7928	-878	CULTRL	3.1	999	6.0	999	0.9	999	0.520	999	3.318	999	6.386	999	1587	58	0.9
47245.1	10000	41.0316	92.7920	-886	CULTRL	3.0	999	6.0	999	1.0	999	0.499	999	3.133	999	6.276	999	1587	46	0.9
47245.2	10000	41.0316	92.7911	-895	QK	2.9	1	6.1	-2	0.9	-2	0.485	2	3.354	2	6.911	1	1567	41	0.9
47245.3	10000	41.0316	92.7902	-904	QK	2.7	0	6.4	-1	0.9	-2	0.429	1	3.050	2	7.103	1	1579	47	0.9
47245.4	10000	41.0316	92.7894	-914	QK	3.0	1	6.0	-2	1.0	-1	0.494	2	2.929	1	5.931	-1	1600	40	0.9
47245.5	10000	41.0316	92.7885	-925	QK	3.0	1	6.5	-1	1.0	-1	0.460	2	2.983	2	6.484	0	1605	53	0.9
47245.6	10000	41.0315	92.7876	-938	QK	2.8	1	6.7	-1	1.0	-1	0.421	1	2.802	1	6.654	0	1607	41	0.8
47245.7	10000	41.0315	92.7868	-950	QK	2.7	0	7.1	0	1.1	-1	0.383	0	2.580	1	6.736	0	1633	57	0.8
47245.8	10000	41.0315	92.7859	-963	QK	2.6	0	7.0	0	1.0	-1	0.367	0	2.449	0	6.676	0	1624	42	0.8
47245.9	10000	41.0315	92.7851	-975	QK	2.8	1	6.7	-1	1.1	0	0.417	1	2.552	1	6.116	-1	1627	48	0.8
47246.0	10000	41.0315	92.7842	-989	QK	2.9	1	6.2	-1	1.1	0	0.471	2	2.609	1	5.536	-1	1601	47	0.8
47246.1	10000	41.0315	92.7833	-1003	QK	2.8	0	6.3	-1	1.0	-1	0.435	1	2.707	1	6.218	0	1574	50	0.8
47246.2	10000	41.0315	92.7825	-1018	QK	2.6	0	5.9	-2	1.0	-1	0.440	2	2.526	1	5.736	-1	1534	44	0.8
47246.3	10000	41.0315	92.7816	-1033	QK	2.6	0	5.6	-2	1.0	-1	0.463	2	2.589	1	5.587	-1	1496	43	0.8
47246.4	10000	41.0315	92.7807	-1048	QK	2.5	0	5.9	-2	1.0	-1	0.424	1	2.573	1	6.065	-1	1453	57	0.8
47246.5	10000	41.0315	92.7799	-1062	QK	2.7	0	5.4	-3	0.9	-2	0.507	2	2.971	1	5.856	-1	1413	52	0.8
47246.6	10000	41.0315	92.7790	-1077	QK	2.4	0	5.3	-3	0.9	-2	0.451	1	2.749	1	6.096	-1	1372	47	0.8
47246.7	10000	41.0315	92.7782	-1092	QK	2.5	0	5.9	-2	0.8	-3	0.424	1	3.125	2	7.364	1	1357	47	0.8
47246.8	10000	41.0314	92.7773	-1108	QK	2.3	-1	5.6	-2	0.8	-3	0.403	1	2.738	1	6.795	0	1349	49	0.8
47246.9	10000	41.0314	92.7764	-1124	QK	2.4	0	5.6	-2	0.8	-3	0.428	1	2.949	1	6.883	1	1373	51	0.8
47247.0	10000	41.0314	92.7756	-1139	QK	2.4	0	6.3	-1	0.8	-2	0.386	1	2.915	1	7.555	2	1412	62	0.8
47247.1	10000	41.0314	92.7747	-1154	QK	2.5	0	6.3	-1	0.9	-2	0.399	1	2.931	1	7.356	1	1445	46	0.8
47247.2	10000	41.0314	92.7738	-1168	QK	2.3	0	6.5	-1	0.9	-2	0.355	1	2.580	1	7.276	1	1493	47	0.8
47247.3	10000	41.0314	92.7730	-1182	QK	2.4	0	6.5	-1	0.9	-2	0.360	1	2.504	1	6.952	1	1539	37	0.8
47247.4	10000	41.0314	92.7721	-1195	QK	2.1	-1	6.6	-1	0.9	-2	0.323	1	2.089	1	6.469	0	1575	38	0.8
47247.5	10000	41.0314	92.7713	-1208	QK	2.2	-1	6.6	-1	1.0	-1	0.306	1	2.150	1	7.029	1	1597	40	0.8
47247.6	10000	41.0314	92.7704	-1220	QK	2.1	-1	6.5	-1	1.0	-1	0.274	0	2.020	-1	7.363	1	1595	43	0.8
47247.7	10000	41.0314	92.7695	-1232	QK	1.8	-1	6.5	-1	1.0	-1	0.249	0	1.761	-1	7.081	1	1586	56	0.8
47247.8	10000	41.0314	92.7687	-1243	QK	1.7	-2	6.5	-1	1.0	-1	0.232	0	1.638	-1	7.049	1	1585	43	0.7
47247.9	10000	41.0314	92.7678	-1253	QK	1.8	-1	6.5	-1	1.0	-1	0.234	0	1.699	-1	7.252	1	1578	55	0.7
47248.0	10000	41.0313	92.7670	-1264	QK	1.9	-1	6.5	-1	1.0	-1	0.250	0	1.833	-1	7.332	1	1584	42	0.7
47248.1	10000	41.0313	92.7661	-1274	QK	1.9	-1	6.5	-1	1.0	-1	0.251	0	1.899	-1	7.558	2	1577	39	0.7
47248.2	10000	41.0313	92.7652	-1283	QK	2.1	-1	6.5	-1	1.0	-1	0.290	0	2.104	1	7.256	1	1573	47	0.7
47248.3	10000	41.0313	92.7644	-1291	QK	2.3	0	6.4	-1	1.0	-1	0.324	0	2.300	1	7.104	1	1572	44	0.7
47248.4	10000	41.0313	92.7635	-1298	QK	2.4	0	6.4	-1	1.0	-1	0.329	0	2.325	1	7.059	1	1587	41	0.7
47248.5	10000	41.0313	92.7626	-1305	QK	2.7	0	6.4	-1	1.1	-1	0.364	0	2.537	1	6.966	1	1610	47	0.7
47248.6	10000	41.0313	92.7618	-1311	QK	2.6	0	6.3	-1	1.1	-1	0.351	0	2.375	1	6.769	0	1629	44	0.7
47248.7	10000	41.0313	92.7609	-1317	QK	2.5	0	6.5	-1	1.1	-1	0.340	0	2.366	1	6.958	1	1631	53	0.7
47248.8	10000	41.0313	92.7600	-1322	QK	2.5	0	6.5	-1	1.1	-1	0.331	0	2.243	1	6.767	0	1638	45	0.7
47248.9	10000	41.0313	92.7592	-1325	QK	2.3	0	6.5	-1	1.1	-2	0.301	-1	2.136	1	7.107	1	1656	49	0.7
47249.0	10000	41.0313	92.7583	-1329	QK	2.4	0	6.8	0	1.1	-2	0.295	-1	2.010	-1	6.815	0	1675	48	0.7
47249.1	10000	41.0313	92.7575	-1331	QK	2.5	0	6.5	-1	1.1	-2	0.339	0	2.224	1	6.563	0	1674	40	0.7
47249.2	10000	41.0312	92.7566	-1333	QK	2.6	0	6.7	0	1.1	-2	0.322	0	2.040	1	6.339	0	1676	46	0.7
47249.3	10000	41.0312	92.7557	-1331	QK	2.7	0	6.4	-1	1.1	-2	0.357	0	2.198	1	6.165	0	1684	35	0.7
47249.4	10000	41.0312	92.7549	-1331	QK	2.8	0	7.3	0	1.2	-1	0.368	0	2.215	1	6.019	-1	1683	52	0.6
47249.5	10000	41.0312	92.7540	-1335	QK	2.8	0	7.3	0	1.2	-1	0.384	0	2.337	1	6.085	-1	1689	47	0.6
47249.6	10000	41.0312	92.7531	-1337	QK	2.9	1	7.0	0	1.2	0	0.409	1	2.433	0	5.950	-1	1678	38	0.6

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47249.7	10000	41.0312	92.7523	-1337	QK	2.7	0	7.0	0	1.1	0	0.386	0	2.368	0	6.138	0	1689	34	0.6
47249.8	10000	41.0312	92.7514	-1336	QK	2.7	0	7.0	0	1.1	0	0.379	0	2.390	0	6.313	0	1687	39	0.6
47249.9	10000	41.0312	92.7506	-1335	QK	2.6	0	6.8	-1	1.1	0	0.379	0	2.380	0	6.277	0	1670	45	0.6
47250.0	10000	41.0312	92.7497	-1334	QK	2.6	0	6.7	-1	1.1	0	0.387	0	2.423	0	6.263	0	1664	59	0.6
47250.1	10000	41.0312	92.7488	-1332	QK	2.6	0	7.2	0	1.0	-1	0.362	0	2.475	0	6.836	1	1665	55	0.6
47250.2	10000	41.0312	92.7480	-1330	QK	2.5	0	7.3	0	1.0	-1	0.335	0	2.469	0	7.368	1	1645	58	0.6
47250.3	10000	41.0312	92.7471	-1327	QK	2.4	0	7.4	0	1.0	-1	0.324	0	2.465	0	7.604	2	1621	33	0.6
47250.4	10000	41.0312	92.7462	-1325	QK	2.4	0	7.4	0	1.0	-1	0.320	0	2.474	0	7.736	2	1575	53	0.6
47250.5	10000	41.0311	92.7454	-1322	QK	2.2	-1	7.4	0	1.0	-1	0.295	-1	2.218	0	7.520	1	1555	49	0.6
47250.6	10000	41.0311	92.7445	-1320	QK	2.1	-1	7.6	0	1.0	-1	0.271	-1	2.126	0	7.849	2	1539	41	0.6
47250.7	10000	41.0311	92.7437	-1316	QK	1.9	-1	7.6	1	0.9	-1	0.243	-1	1.956	-1	8.038	2	1498	39	0.6
47250.8	10000	41.0311	92.7428	-1312	QK	2.0	-1	7.6	1	0.9	-2	0.258	-1	2.163	0	8.369	3	1469	55	0.6
47250.9	10000	41.0311	92.7419	-1309	QK	2.1	-1	7.4	0	0.9	-2	0.278	-1	2.189	0	7.867	2	1462	49	0.6
47251.0	10000	41.0311	92.7411	-1305	QK	2.0	-1	6.9	0	0.9	-2	0.288	-1	2.143	0	7.430	1	1463	40	0.6
47251.1	10000	41.0311	92.7402	-1302	QK	2.1	-1	7.0	0	0.9	-2	0.306	-1	2.302	0	7.521	1	1472	53	0.6
47251.2	10000	41.0311	92.7393	-1299	QK	2.5	0	6.6	-1	0.9	-2	0.372	0	2.783	1	7.475	1	1467	42	0.6
47251.3	10000	41.0311	92.7385	-1295	QK	2.7	0	6.6	-1	0.9	-2	0.409	1	3.099	2	7.572	2	1464	39	0.6
47251.4	10000	41.0311	92.7376	-1292	QK	2.9	1	7.0	0	0.9	-2	0.411	1	3.345	2	8.129	2	1481	42	0.6
47251.5	10000	41.0311	92.7368	-1288	QK	2.9	1	6.7	-1	0.9	-2	0.430	1	3.117	2	7.256	1	1503	44	0.6
47251.6	10000	41.0311	92.7359	-1283	QK	2.8	1	6.5	-1	0.9	-2	0.427	1	3.060	2	7.169	1	1517	33	0.6
47251.7	10000	41.0310	92.7350	-1281	QK	2.8	1	6.6	-1	0.9	-1	0.418	1	2.931	1	7.014	1	1523	47	0.6
47251.8	10000	41.0310	92.7342	-1279	QK	2.7	0	6.3	-1	1.0	-1	0.430	1	2.851	1	6.631	0	1519	40	0.6
47251.9	10000	41.0310	92.7333	-1276	QK	2.4	0	6.6	-1	1.0	-1	0.366	0	2.493	0	6.815	0	1521	50	0.6
47252.0	10000	41.0310	92.7324	-1273	QK	2.4	0	6.4	-1	0.9	-1	0.380	1	2.564	1	6.754	0	1517	41	0.6
47252.1	10000	41.0310	92.7316	-1271	QK	2.4	0	6.1	-2	0.9	-1	0.399	1	2.591	1	6.494	0	1502	35	0.6
47252.2	10000	41.0310	92.7307	-1269	QK	2.4	0	5.9	-2	0.9	-1	0.400	1	2.640	1	6.594	0	1476	45	0.6
47252.3	10000	41.0310	92.7299	-1267	QK	2.5	0	5.8	-2	0.9	-1	0.429	1	2.764	1	6.441	0	1469	43	0.6
47252.4	10000	41.0310	92.7290	-1265	QK	2.6	0	5.8	-2	0.9	-1	0.447	1	2.953	1	6.602	0	1467	47	0.6
47252.5	10000	41.0310	92.7281	-1263	QK	2.7	0	5.9	-2	0.9	-1	0.450	1	2.985	1	6.631	0	1484	53	0.6
47252.6	10000	41.0310	92.7273	-1261	QK	2.7	0	6.1	-1	0.9	-1	0.433	1	2.983	1	6.897	1	1485	52	0.6
47252.7	10000	41.0310	92.7264	-1260	QK	2.5	0	6.4	-1	0.9	-1	0.390	1	2.746	1	7.034	1	1487	37	0.6
47252.8	10000	41.0309	92.7255	-1257	QK	2.5	0	6.5	-1	0.9	-1	0.387	1	2.831	1	7.323	1	1497	36	0.7
47252.9	10000	41.0309	92.7247	-1256	QK	2.4	0	6.4	-1	0.9	-1	0.380	1	2.777	1	7.308	1	1506	49	0.7
47253.0	10000	41.0309	92.7238	-1254	QK	2.6	0	6.6	-1	0.9	-1	0.392	1	2.873	1	7.321	1	1526	44	0.7
47253.1	10000	41.0309	92.7230	-1253	QK	2.5	0	6.7	-1	0.9	-1	0.380	1	2.787	1	7.338	1	1540	47	0.7
47253.2	10000	41.0309	92.7221	-1251	QK	2.7	0	6.6	-1	0.9	-1	0.409	1	3.035	2	7.426	1	1537	38	0.7
47253.3	10000	41.0309	92.7212	-1250	QK	2.8	0	6.6	-1	0.9	-1	0.416	1	3.142	2	7.558	1	1539	34	0.7
47253.4	10000	41.0309	92.7204	-1249	QK	2.8	0	6.6	-1	0.9	-1	0.428	1	3.276	2	7.650	1	1554	46	0.7
47253.5	10000	41.0309	92.7195	-1248	QK	2.8	0	6.4	-1	0.9	-1	0.438	1	2.931	1	6.691	0	1556	46	0.7
47253.6	10000	41.0309	92.7186	-1248	QK	2.8	0	6.4	-1	0.9	-1	0.445	1	3.081	2	6.927	1	1554	35	0.7
47253.7	10000	41.0309	92.7178	-1248	QK	2.7	0	6.5	-1	0.9	-1	0.418	1	3.081	2	7.368	1	1551	49	0.7
47253.8	10000	41.0309	92.7169	-1248	QK	2.9	0	6.7	-1	0.9	-1	0.427	1	3.205	2	7.504	1	1552	42	0.7
47253.9	10000	41.0308	92.7160	-1249	QK	2.5	0	6.9	0	0.9	-1	0.363	1	2.888	2	7.949	2	1546	40	0.7
47254.0	10000	41.0308	92.7152	-1249	QK	2.4	0	7.4	0	0.9	-1	0.332	1	2.790	2	8.398	2	1558	60	0.7
47254.1	10000	41.0308	92.7143	-1250	QK	2.5	0	7.4	0	0.9	-1	0.325	1	2.713	2	8.337	2	1550	56	0.7
47254.2	10000	41.0308	92.7135	-1252	QK	2.4	0	7.7	0	0.8	-1	0.318	1	3.051	3	9.490	3	1542	36	0.7
47254.3	10000	41.0308	92.7126	-1253	QK	2.4	0	7.7	0	0.9	-1	0.320	1	2.859	2	8.991	2	1556	50	0.7
47254.4	10000	41.0308	92.7117	-1255	QK	2.4	0	7.5	0	0.9	-1	0.309	1	2.701	2	8.438	2	1546	32	0.7
47254.5	10000	41.0308	92.7109	-1257	QK	2.2	-1	7.3	0	0.9	-1	0.328	1	2.492	2	8.075	2	1544	40	0.7
47254.6	10000	41.0308	92.7100	-1260	QK	2.4	-1	7.2	0	0.9	-1	0.325	1	2.556	2	7.790	2	1545	41	0.7
47254.7	10000	41.0308	92.7092	-1263	QK	2.5	-1	6.6	-1	1.0	-1	0.375	1	2.600	2	6.925	1	1530	46	0.8
47254.8	10000	41.0308	92.7083	-1266	QK	2.4	-1	6.5	-1	1.0	-1	0.372	1	2.459	2	6.617	1	1535	46	0.8

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47254.9	10000	41.0308	92.7074	-1269	QK	2.3	0	6.7	-1	1.0	-1	0.350	0	2.268	0	6.481	0	1561	47	0.8
47255.0	10000	41.0308	92.7066	-1271	QK	2.4	0	6.7	-1	1.0	-1	0.362	0	2.394	0	6.613	0	1584	53	0.8
47255.1	10000	41.0307	92.7057	-1274	QK	2.4	0	7.0	0	1.0	-1	0.337	0	2.301	0	6.823	0	1601	42	0.8
47255.2	10000	41.0307	92.7048	-1277	QK	2.3	0	7.2	0	1.0	-1	0.316	0	2.238	0	7.091	1	1619	49	0.8
47255.3	10000	41.0307	92.7040	-1280	QK	2.3	-1	7.7	1	1.0	-1	0.294	-1	2.252	0	7.653	2	1641	47	0.8
47255.4	10000	41.0307	92.7031	-1282	QK	2.3	0	7.5	0	1.0	-1	0.304	-1	2.300	0	7.565	2	1656	43	0.8
47255.5	10000	41.0307	92.7023	-1284	QK	2.4	0	7.8	1	1.0	-1	0.305	-1	2.425	0	7.941	2	1666	45	0.8
47255.6	10000	41.0307	92.7014	-1286	QK	2.3	0	7.4	0	1.0	-1	0.316	0	2.396	0	7.585	2	1665	56	0.8
47255.7	10000	41.0307	92.7005	-1288	QK	2.3	0	7.4	0	1.0	-1	0.315	-1	2.295	0	7.297	1	1662	48	0.8
47255.8	10000	41.0307	92.6997	-1289	QK	2.3	0	7.2	0	1.0	-1	0.324	0	2.436	0	7.506	1	1649	52	0.8
47255.9	10000	41.0307	92.6988	-1292	QK	2.5	0	7.2	0	0.9	-2	0.351	0	2.717	1	7.731	2	1634	47	0.8
47256.0	10000	41.0307	92.6979	-1293	QK	2.5	0	6.8	-1	1.0	-1	0.368	0	2.629	1	7.140	1	1629	46	0.9
47256.1	10000	41.0307	92.6971	-1294	QK	2.4	0	7.3	0	0.9	-1	0.335	0	2.573	1	7.683	2	1627	54	0.9
47256.2	10000	41.0306	92.6962	-1295	QK	2.3	0	6.8	-1	1.0	-1	0.343	0	2.436	1	7.108	1	1627	48	0.9
47256.3	10000	41.0306	92.6954	-1295	QK	2.3	0	7.0	0	1.0	-1	0.329	0	2.370	1	7.209	1	1627	52	0.9
47256.4	10000	41.0306	92.6945	-1296	QK	2.2	-1	7.0	0	0.9	-2	0.314	-1	2.363	1	7.537	1	1628	49	0.9
47256.5	10000	41.0306	92.6936	-1296	QK	2.1	-1	7.0	0	1.0	-1	0.300	-1	2.147	0	7.149	1	1643	43	0.9
47256.6	10000	41.0306	92.6928	-1296	QK	2.0	-1	7.3	0	1.0	-1	0.280	-1	2.145	0	7.650	2	1639	46	0.9
47256.7	10000	41.0306	92.6919	-1297	QK	2.1	-1	7.2	0	1.0	-1	0.293	-1	2.178	0	7.422	1	1643	46	0.9
47256.8	10000	41.0306	92.6910	-1297	QK	2.3	0	7.3	0	1.0	-1	0.314	-1	2.199	0	7.005	1	1665	53	0.9
47256.9	10000	41.0306	92.6902	-1298	QK	2.4	0	7.6	1	1.0	-1	0.310	-1	2.361	0	7.620	2	1673	40	0.9
47257.0	10000	41.0306	92.6893	-1297	QK	2.6	0	7.8	1	1.0	-1	0.331	0	2.617	1	7.901	2	1683	42	0.9
47257.1	10000	41.0306	92.6885	-1296	QK	2.3	0	8.0	1	1.0	-1	0.293	-1	2.294	0	7.835	2	1668	48	0.9
47257.2	10000	41.0306	92.6876	-1296	QK	2.5	0	8.2	1	1.0	-1	0.307	-1	2.406	0	7.850	2	1672	45	0.9
47257.3	10000	41.0305	92.6867	-1295	QK	2.8	0	8.8	1	1.0	-1	0.365	-1	2.651	1	7.269	1	1675	44	0.9
47257.4	10000	41.0305	92.6859	-1294	QK	2.8	0	7.6	1	1.0	-1	0.384	0	2.931	1	7.637	2	1649	59	0.9
47257.5	10000	41.0305	92.6850	-1293	QK	2.6	0	7.4	1	0.9	-2	0.364	0	2.819	1	7.743	2	1635	43	0.9
47257.6	10000	41.0305	92.6842	-1292	QK	2.6	0	7.2	1	0.9	-2	0.366	0	2.855	1	7.806	2	1626	36	0.9
47257.7	10000	41.0305	92.6833	-1292	QK	2.6	0	7.2	1	0.9	-2	0.363	0	2.897	1	7.975	2	1613	36	0.9
47257.8	10000	41.0305	92.6825	-1292	QK	3.0	1	7.1	0	0.9	-2	0.423	0	3.435	2	8.116	2	1629	51	0.9
47257.9	10000	41.0305	92.6816	-1290	QK	3.1	1	7.0	1	0.8	-2	0.458	0	3.709	2	8.098	2	1641	29	0.9
47258.0	10000	41.0304	92.6808	-1291	QK	2.8	0	7.0	0	0.9	-2	0.396	0	3.169	2	7.998	2	1656	41	0.9
47258.1	10000	41.0304	92.6799	-1290	QK	2.7	0	6.9	1	0.9	-2	0.379	0	2.861	2	7.545	2	1688	41	0.9
47258.2	10000	41.0304	92.6791	-1289	QK	3.0	1	7.1	0	0.9	-2	0.432	0	3.147	2	7.281	2	1697	44	0.9
47258.3	10000	41.0304	92.6782	-1288	QK	2.9	0	7.2	1	1.0	-1	0.407	0	2.937	2	7.213	1	1711	30	0.9
47258.4	10000	41.0304	92.6774	-1287	QK	2.6	0	7.4	1	1.0	-1	0.358	0	2.528	2	7.063	1	1714	43	0.9
47258.5	10000	41.0303	92.6766	-1287	QK	2.4	0	7.2	1	1.0	-1	0.320	0	2.270	2	7.095	1	1704	57	0.9
47258.6	10000	41.0303	92.6757	-1286	QK	2.2	0	7.7	1	1.0	-1	0.291	-1	2.277	2	7.834	1	1671	36	0.9
47258.7	10000	41.0303	92.6749	-1286	QK	2.3	0	7.6	1	1.0	-1	0.309	-1	2.370	2	7.660	1	1654	43	0.9
47258.8	10000	41.0303	92.6740	-1285	QK	2.6	0	7.7	1	1.0	-1	0.341	0	2.684	2	7.881	1	1632	38	0.9
47258.9	10000	41.0303	92.6732	-1285	QK	2.4	0	7.3	1	1.0	-1	0.324	0	2.367	2	7.310	1	1629	40	0.9
47259.0	10000	41.0303	92.6723	-1284	QK	2.6	0	6.8	0	1.0	-1	0.378	0	2.504	2	6.623	1	1628	39	0.9
47259.1	10000	41.0302	92.6715	-1283	QK	2.8	0	6.6	-1	1.0	-1	0.429	0	2.819	2	6.570	1	1636	39	0.9
47259.2	10000	41.0302	92.6706	-1283	QK	2.8	0	6.5	-1	1.0	-1	0.432	0	2.709	2	6.272	1	1652	30	0.9
47259.3	10000	41.0302	92.6698	-1282	QK	2.9	0	6.2	-1	1.0	-1	0.465	0	2.592	2	5.572	1	1681	32	0.9
47259.4	10000	41.0302	92.6689	-1281	QK	2.5	0	6.1	-2	1.0	-1	0.413	0	2.483	2	5.483	1	1681	42	0.9
47259.5	10000	41.0302	92.6681	-1281	QK	2.5	0	6.3	-1	1.1	-1	0.399	0	2.142	2	5.364	1	1684	51	0.9
47259.6	10000	41.0301	92.6673	-1280	QK	2.3	0	6.3	-1	1.1	-1	0.397	0	2.253	2	5.678	1	1664	36	0.9
47259.7	10000	41.0301	92.6664	-1279	QK	2.1	0	6.3	-1	1.1	-1	0.330	0	2.075	2	6.279	1	1642	33	0.9
47259.8	10000	41.0301	92.6656	-1278	QK	2.3	0	6.7	-1	1.2	-1	0.343	0	1.952	1	6.077	0	1627	45	0.9
47259.9	10000	41.0301	92.6647	-1276	QK	2.3	0	6.8	-1	1.2	0	0.338	0	1.957	-1	5.701	-1	1635	54	0.9
47260.0	10000	41.0301	92.6639	-1273	QK									2.018	-1	5.975	-1	1639	43	0.

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47260.1	10000	41.0300	92.6630	-1273	QK	2.5	0	7.3	0	1.2	1	0.341	0	2.087	0	6.127	-1	1653	50	0.9
47260.2	10000	41.0300	92.6622	-1272	QK	2.7	0	7.2	0	1.2	0	0.374	0	2.335	0	6.241	0	1673	44	0.9
47260.3	10000	41.0300	92.6613	-1271	QK	2.6	0	7.4	0	1.1	0	0.354	0	2.280	0	6.440	0	1694	47	0.9
47260.4	10000	41.0300	92.6605	-1270	QK	2.7	0	7.3	0	1.2	0	0.366	0	2.315	0	6.322	0	1713	38	0.9
47260.5	10000	41.0300	92.6597	-1270	QK	2.6	0	7.3	0	1.1	0	0.354	0	2.272	0	6.416	0	1718	42	0.9
47260.6	10000	41.0299	92.6588	-1269	QK	2.4	0	7.5	0	1.0	-1	0.324	0	2.417	0	7.465	1	1703	47	0.9
47260.7	10000	41.0299	92.6580	-1268	QK	2.6	0	7.5	0	1.0	-1	0.349	0	2.608	1	7.482	1	1710	42	0.9
47260.8	10000	41.0299	92.6571	-1267	QK	2.6	0	7.2	0	1.0	-1	0.362	0	2.725	1	7.532	1	1701	40	0.9
47260.9	10000	41.0299	92.6563	-1265	QK	2.6	0	7.2	0	1.0	-1	0.354	0	2.670	1	7.536	1	1681	38	0.9
47261.0	10000	41.0299	92.6554	-1263	QK	2.8	1	7.0	0	0.9	-1	0.404	1	3.003	2	7.437	1	1665	51	0.9
47261.1	10000	41.0298	92.6546	-1264	QK	2.8	1	7.1	0	0.9	-2	0.403	1	3.071	2	7.626	2	1670	49	0.9
47261.2	10000	41.0298	92.6537	-1264	QK	3.0	1	7.3	0	0.9	-1	0.415	1	3.179	2	7.653	2	1684	50	0.9
47261.3	10000	41.0298	92.6529	-1264	QK	3.0	1	7.4	0	1.0	-1	0.401	1	2.979	2	7.437	1	1702	40	0.9
47261.4	10000	41.0298	92.6521	-1263	QK	2.7	0	7.4	0	1.0	-1	0.362	0	2.605	1	7.191	1	1701	56	0.9
47261.5	10000	41.0298	92.6512	-1263	QK	2.7	0	7.3	0	1.1	0	0.361	0	2.458	0	6.805	0	1731	43	0.9
47261.6	10000	41.0297	92.6504	-1261	QK	2.6	0	7.5	0	1.1	0	0.346	0	2.264	0	6.547	0	1758	46	0.9
47261.7	10000	41.0297	92.6495	-1260	QK	2.5	0	8.1	1	1.1	0	0.304	-1	2.151	0	7.084	1	1781	44	0.9
47261.8	10000	41.0297	92.6487	-1260	QK	2.5	0	7.9	1	1.2	0	0.310	-1	2.109	0	6.796	0	1784	37	0.9
47261.9	10000	41.0297	92.6478	-1260	QK	2.2	-1	7.9	1	1.2	0	0.283	-1	1.907	-1	6.734	0	1768	47	0.9
47262.0	10000	41.0297	92.6470	-1259	QK	2.3	0	7.7	1	1.2	0	0.296	-1	1.938	-1	6.542	0	1757	46	0.9
47262.1	10000	41.0296	92.6461	-1258	QK	2.3	-1	7.6	0	1.2	1	0.298	-1	1.908	-1	6.410	0	1741	47	0.9
47262.2	10000	41.0296	92.6453	-1257	QK	2.2	-1	7.7	1	1.1	0	0.283	-1	1.913	-1	6.762	0	1728	52	0.9
47262.3	10000	41.0296	92.6444	-1254	QK	2.2	-1	8.3	1	1.1	0	0.267	-1	1.999	-1	7.486	1	1708	34	0.9
47262.4	10000	41.0296	92.6436	-1252	QK	1.9	-1	7.9	1	1.1	0	0.238	-2	1.675	-1	7.026	1	1701	30	0.9
47262.5	10000	41.0296	92.6428	-1252	QK	1.9	-1	7.9	1	1.2	0	0.239	-2	1.643	-1	6.861	1	1702	43	0.9
47262.6	10000	41.0295	92.6419	-1251	QK	2.0	-1	8.0	1	1.2	0	0.256	-1	1.727	-1	6.757	0	1719	31	0.9
47262.7	10000	41.0295	92.6411	-1252	QK	1.9	-1	7.6	1	1.1	0	0.252	-1	1.703	-1	6.748	0	1707	34	0.9
47262.8	10000	41.0295	92.6402	-1251	QK	2.1	-1	7.9	1	1.1	0	0.262	-1	1.826	-1	6.972	1	1707	58	0.9
47262.9	10000	41.0295	92.6394	-1250	QK	2.1	-1	7.8	1	1.1	0	0.266	-1	1.864	-1	7.017	1	1701	47	0.9
47263.0	10000	41.0295	92.6385	-1250	QK	2.2	-1	7.5	0	1.1	0	0.293	-1	1.970	-1	6.712	0	1716	51	0.9
47263.1	10000	41.0294	92.6377	-1249	QK	2.6	0	7.6	1	1.1	0	0.345	0	2.434	1	7.062	1	1723	47	0.9
47263.2	10000	41.0294	92.6368	-1247	QK	2.8	1	7.8	1	1.1	-1	0.356	0	2.613	1	7.337	1	1745	46	0.9
47263.3	10000	41.0294	92.6360	-1247	QK	2.7	0	7.8	1	1.0	-1	0.341	0	2.626	1	7.699	2	1754	47	0.9
47263.4	10000	41.0294	92.6351	-1245	QK	3.0	1	8.0	1	1.1	0	0.378	0	2.757	1	7.302	1	1769	58	0.9
47263.5	10000	41.0294	92.6343	-1244	QK	3.2	1	7.8	1	1.1	0	0.413	0	2.934	1	7.113	1	1799	54	0.9
47263.6	10000	41.0294	92.6335	-1243	QK	3.2	1	8.3	2	1.1	0	0.384	0	2.807	1	7.319	1	1799	43	0.9
47263.7	10000	41.0293	92.6326	-1241	QK	3.1	1	8.2	1	1.1	0	0.374	0	2.724	1	7.290	1	1773	39	0.9
47263.8	10000	41.0293	92.6318	-1240	QK	2.8	1	8.2	1	1.1	0	0.340	0	2.463	1	7.251	1	1737	51	0.9
47263.9	10000	41.0293	92.6309	-1239	QK	2.5	0	7.9	1	1.1	0	0.316	0	2.321	1	7.337	1	1677	52	0.9
47264.0	10000	41.0293	92.6301	-1237	QK	2.6	0	8.0	1	1.0	-1	0.324	0	2.564	1	7.905	2	1625	45	0.9
47264.1	10000	41.0293	92.6292	-1235	QK	2.4	0	8.1	1	0.9	-1	0.302	-1	2.591	1	8.570	3	1606	42	0.9
47264.2	10000	41.0292	92.6284	-1234	QK	2.0	-1	8.0	1	0.9	-2	0.249	-1	2.243	1	9.027	4	1568	56	0.9
47264.3	10000	41.0292	92.6275	-1232	QK	2.2	-1	7.5	0	0.9	-2	0.286	-1	2.503	1	8.756	3	1566	51	0.9
47264.4	10000	41.0292	92.6267	-1230	QK	2.3	0	7.7	1	0.9	-2	0.299	-1	2.656	1	8.873	3	1600	43	0.9
47264.5	10000	41.0292	92.6259	-1229	QK	2.5	0	7.6	1	0.9	-2	0.322	-1	2.687	1	8.351	3	1654	40	0.9
47264.6	10000	41.0292	92.6250	-1227	QK	2.5	0	8.0	1	1.0	-1	0.316	-1	2.576	1	8.142	2	1681	45	0.9
47264.7	10000	41.0291	92.6242	-1225	QK	2.5	0	7.6	1	1.1	0	0.331	-1	2.356	1	7.124	1	1722	44	0.9
47264.8	10000	41.0291	92.6233	-1223	QK	2.7	0	7.5	1	1.1	0	0.361	-1	2.462	1	6.825	0	1738	44	0.9
47264.9	10000	41.0291	92.6225	-1221	QK	2.8	1	7.5	1	1.1	0	0.370	-1	2.517	1	6.800	0	1746	47	0.9
47265.0	10000	41.0291	92.6216	-1218	QK	2.8	1	7.6	1	1.1	0	0.373	-1	2.605	1	6.981	1	1731	37	0.9
47265.1	10000	41.0291	92.6208	-1216	QK	2.7	0	7.5	1	1.1	0	0.356	0	2.455	1	6.901	1	1710	49	0.9
47265.2	10000	41.0290	92.6199	-1214	QK	2.7	0	7.5	0	1.1	0	0.356	0	2.457	0	6.906	1	1692	41	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47265.3	10000	41.0290	92.6191	-1212	QK	2.7	0	7.0	0	1.1	0	0.388	1	2.563	1	6.613	0	1687	42	0.9
47265.4	10000	41.0290	92.6183	-1210	QK	2.7	0	7.2	0	1.0	-1	0.376	0	2.626	1	6.983	1	1678	48	0.9
47265.5	10000	41.0290	92.6174	-1208	QK	2.5	0	7.1	0	1.1	-1	0.349	0	2.348	0	6.722	0	1667	50	0.9
47265.6	10000	41.0290	92.6166	-1206	QK	2.7	0	7.0	0	1.0	-1	0.389	1	2.599	1	6.687	0	1665	49	0.9
47265.7	10000	41.0289	92.6157	-1203	QK	2.5	0	6.9	0	1.1	0	0.357	0	2.322	0	6.513	0	1675	52	0.9
47265.8	10000	41.0289	92.6149	-1201	QK	2.4	0	6.9	0	1.0	-1	0.344	0	2.358	0	6.851	1	1655	34	0.9
47265.9	10000	41.0289	92.6140	-1199	QK	2.2	-1	7.0	0	1.0	-1	0.320	0	2.256	0	7.052	1	1655	39	0.9
47266.0	10000	41.0289	92.6132	-1196	QK	2.3	-1	7.4	0	1.0	-1	0.307	-1	2.254	0	7.351	1	1650	51	0.9
47266.1	10000	41.0289	92.6123	-1193	QK	2.4	0	7.3	0	1.0	-1	0.326	0	2.338	0	7.177	1	1648	34	0.9
47266.2	10000	41.0288	92.6115	-1191	QK	2.5	0	7.6	0	1.0	-1	0.330	0	2.525	1	7.659	2	1651	54	0.9
47266.3	10000	41.0288	92.6107	-1189	QK	2.4	0	8.0	1	1.0	-1	0.307	-1	2.364	0	7.703	2	1686	40	0.9
47266.4	10000	41.0288	92.6098	-1186	QK	2.5	0	8.0	1	1.0	-1	0.308	-1	2.382	0	7.736	2	1705	41	0.9
47266.5	10000	41.0288	92.6090	-1183	QK	2.8	1	8.2	1	1.1	0	0.343	0	2.466	0	7.184	1	1763	42	0.9
47266.6	10000	41.0288	92.6081	-1180	QK	2.8	1	8.1	1	1.2	1	0.350	0	2.386	0	6.827	0	1782	33	0.9
47266.7	10000	41.0287	92.6073	-1177	QK	3.0	1	7.9	1	1.2	1	0.379	0	2.457	0	6.481	0	1809	35	0.9
47266.8	10000	41.0287	92.6064	-1174	QK	2.9	1	8.0	1	1.2	1	0.356	0	2.336	0	6.558	0	1828	52	0.9
47266.9	10000	41.0287	92.6056	-1170	QK	2.8	1	8.5	2	1.2	1	0.328	0	2.307	0	7.024	1	1840	44	0.9
47267.0	10000	41.0287	92.6047	-1167	QK	2.7	0	8.2	1	1.2	1	0.335	0	2.270	0	6.781	0	1827	41	0.9
47267.1	10000	41.0287	92.6039	-1164	QK	3.0	1	7.9	1	1.2	0	0.373	0	2.520	1	6.751	0	1828	53	0.9
47267.2	10000	41.0286	92.6030	-1161	QK	2.9	1	7.7	1	1.1	0	0.380	0	2.650	1	6.974	1	1811	48	1.0
47267.3	10000	41.0286	92.6022	-1158	QK	3.0	1	7.6	0	1.1	0	0.397	1	2.816	1	7.096	1	1787	45	1.0
47267.4	10000	41.0286	92.6013	-1155	QK	2.8	1	7.5	0	1.0	-1	0.377	0	2.787	1	7.401	1	1773	41	1.0
47267.5	10000	41.0286	92.6005	-1152	QK	3.0	1	7.3	0	1.0	-1	0.406	1	2.900	1	7.149	1	1758	40	1.0
47267.6	10000	41.0286	92.5997	-1149	QK	2.9	1	7.0	0	1.0	-1	0.415	1	2.884	1	6.957	1	1733	43	1.0
47267.7	10000	41.0285	92.5988	-1147	QK	2.9	1	7.0	0	1.0	-1	0.416	1	3.053	2	7.332	1	1696	40	1.0
47267.8	10000	41.0285	92.5980	-1144	QK	2.9	1	6.7	-1	1.0	-1	0.428	1	2.946	1	6.887	1	1678	42	1.0
47267.9	10000	41.0285	92.5971	-1140	QK	2.8	1	6.6	-1	1.0	-1	0.421	1	2.726	1	6.476	0	1663	42	1.0
47268.0	10000	41.0285	92.5963	-1138	QK	2.9	1	6.8	-1	1.0	-1	0.423	1	2.881	1	6.814	0	1681	47	1.0
47268.1	10000	41.0285	92.5954	-1136	QK	3.0	1	6.9	-1	1.0	-1	0.432	1	3.040	2	7.039	1	1687	37	1.0
47268.2	10000	41.0285	92.5946	-1133	QK	3.0	1	7.3	-1	1.0	-1	0.405	1	3.067	2	7.579	1	1704	51	1.0
47268.3	10000	41.0284	92.5938	-1129	QK	3.0	1	7.3	-1	1.0	-1	0.409	1	3.016	2	7.378	1	1723	27	1.0
47268.4	10000	41.0284	92.5929	-1126	QK	2.8	1	7.3	0	1.1	1	0.383	1	2.621	1	6.839	1	1760	45	1.0
47268.5	10000	41.0284	92.5921	-1123	QK	2.5	1	7.8	0	1.1	1	0.321	0	2.242	1	6.985	1	1772	36	1.0
47268.6	10000	41.0284	92.5912	-1120	QK	2.5	1	7.6	0	1.1	1	0.333	0	2.327	1	6.980	1	1790	46	1.0
47268.7	10000	41.0284	92.5904	-1114	QK	2.5	1	7.5	0	1.1	1	0.337	0	2.222	1	6.603	1	1787	35	1.0
47268.8	10000	41.0283	92.5895	-1110	QK	2.6	1	7.5	0	1.2	1	0.344	0	2.208	1	6.424	0	1788	48	1.0
47268.9	10000	41.0283	92.5887	-1106	QK	2.7	1	6.8	-1	1.2	1	0.394	1	2.283	1	5.802	-1	1779	36	1.0
47269.0	10000	41.0283	92.5878	-1102	QK	2.8	1	7.0	0	1.2	1	0.406	1	2.362	1	5.825	-1	1785	47	1.0
47269.1	10000	41.0283	92.5870	-1098	QK	2.9	1	7.0	0	1.2	1	0.419	1	2.499	1	5.970	-1	1768	40	1.0
47269.2	10000	41.0283	92.5862	-1093	QK	3.0	1	7.2	1	1.1	1	0.414	1	2.611	1	6.302	0	1766	44	1.0
47269.3	10000	41.0282	92.5853	-1089	QK	2.7	1	7.3	0	1.1	1	0.365	0	2.399	1	6.568	0	1735	49	1.0
47269.4	10000	41.0282	92.5845	-1084	QK	2.8	1	7.2	0	1.1	1	0.389	0	2.628	1	6.749	0	1718	43	1.0
47269.5	10000	41.0282	92.5836	-1080	QK	2.9	1	7.3	0	1.1	1	0.396	0	2.748	1	6.942	1	1732	47	1.0
47269.6	10000	41.0282	92.5828	-1074	QK	2.9	1	7.7	1	1.1	1	0.374	0	2.730	1	7.298	1	1748	44	1.0
47269.7	10000	41.0282	92.5819	-1069	QK	2.8	1	7.8	1	1.1	1	0.355	0	2.568	1	7.227	1	1770	37	1.0
47269.8	10000	41.0281	92.5811	-1065	QK	2.8	1	7.9	1	1.1	1	0.348	0	2.553	1	7.329	1	1778	42	1.0
47269.9	10000	41.0281	92.5802	-1060	QK	2.9	1	7.9	1	1.1	1	0.363	0	2.588	1	7.127	1	1774	39	1.0
47270.0	10000	41.0281	92.5794	-1055	QK	2.9	1	8.0	1	1.2	1	0.384	0	2.657	1	6.912	1	1805	40	1.0
47270.1	10000	41.0281	92.5785	-1051	QK	3.0	1	8.1	1	1.2	1	0.370	0	2.589	1	7.002	1	1811	41	1.0
47270.2	10000	41.0281	92.5777	-1046	QK	2.8	1	8.0	1	1.2	1	0.355	0	2.386	1	6.731	1	1804	44	1.0
47270.3	10000	41.0280	92.5769	-1041	QK	2.6	1	7.6	1	1.2	1	0.339	0	2.190	1	6.463	1	1789	37	1.0
47270.4	10000	41.0280	92.5760	-1037	QK	2.8	1	7.3	0	1.2	0	0.389	1	2.436	1	6.269	0	1771	46	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47270.5	10000	41.0280	92.5752	-1032	QK	2.8	1	7.1	0	1.1	0	0.393	1	2.531	1	6.439	0	1755	46	1.0
47270.6	10000	41.0280	92.5743	-1027	QK	3.0	1	6.7	-1	1.1	0	0.440	1	2.799	1	6.362	0	1739	46	1.0
47270.7	10000	41.0280	92.5735	-1022	QK	2.9	1	6.7	-1	1.1	0	0.433	1	2.699	1	6.230	0	1730	50	1.0
47270.8	10000	41.0279	92.5726	-1017	QK	2.8	1	6.7	-1	1.1	0	0.416	1	2.584	1	6.216	0	1730	46	1.0
47270.9	10000	41.0279	92.5718	-1012	QK	2.7	0	7.0	0	1.1	0	0.387	0	2.484	0	6.425	0	1731	45	1.0
47271.0	10000	41.0279	92.5709	-1007	QK	2.7	0	7.4	0	1.1	0	0.365	0	2.530	1	6.930	1	1728	42	1.0
47271.1	10000	41.0279	92.5701	-1002	QK	2.6	0	7.4	0	1.1	0	0.350	0	2.412	0	6.896	1	1725	46	1.0
47271.2	10000	41.0279	92.5692	-997	QK	2.7	0	7.6	0	1.1	0	0.363	0	2.444	0	6.728	0	1742	43	1.0
47271.3	10000	41.0278	92.5684	-991	QK	2.6	0	7.7	1	1.1	0	0.342	0	2.317	0	6.774	0	1756	53	1.0
47271.4	10000	41.0278	92.5676	-985	QK	2.5	0	7.9	1	1.1	0	0.321	0	2.277	0	7.099	1	1744	51	1.0
47271.5	10000	41.0278	92.5667	-979	QK	2.5	0	7.9	1	1.1	0	0.321	0	2.258	0	7.035	1	1748	30	1.0
47271.6	10000	41.0278	92.5659	-972	QK	2.5	0	7.6	0	1.1	0	0.332	0	2.232	0	6.727	0	1752	27	1.0
47271.7	10000	41.0277	92.5650	-965	QK	2.6	0	7.4	0	1.1	0	0.347	0	2.245	0	6.463	0	1748	44	1.0
47271.8	10000	41.0277	92.5642	-958	QK	2.4	0	7.1	0	1.1	0	0.343	0	2.221	0	6.471	0	1730	50	1.0
47271.9	10000	41.0277	92.5633	-951	QK	2.4	0	7.1	0	1.1	0	0.335	0	2.179	0	6.502	0	1717	42	1.0
47272.0	10000	41.0277	92.5625	-942	QK	2.3	-1	7.1	0	1.1	0	0.316	0	2.052	0	6.490	0	1714	49	1.0
47272.1	10000	41.0277	92.5616	-934	QK	2.5	0	6.6	-1	1.1	0	0.376	0	2.241	0	5.957	-1	1714	32	1.0
47272.2	10000	41.0276	92.5608	-925	QK	2.2	-1	6.7	-1	1.1	0	0.328	0	2.035	0	6.200	0	1693	52	1.0
47272.3	10000	41.0276	92.5600	-916	QK	2.3	-1	6.9	0	1.0	-1	0.330	0	2.180	0	6.600	0	1683	58	1.0
47272.4	10000	41.0276	92.5591	-907	QK	2.2	-1	7.0	0	1.0	-1	0.311	-1	2.092	0	6.724	0	1665	41	1.0
47272.5	10000	41.0276	92.5583	-899	QK	2.0	-1	7.1	0	1.1	-1	0.285	-1	1.926	-1	6.754	0	1648	40	1.0
47272.6	10000	41.0276	92.5574	-890	QK	2.1	-1	6.8	-1	1.0	-1	0.305	-1	1.996	-1	6.542	0	1623	33	1.0
47272.7	10000	41.0276	92.5565	-881	QK	2.1	-1	6.9	0	1.0	-1	0.307	-1	2.119	0	6.905	1	1610	35	1.0
47272.8	10000	41.0276	92.5557	-873	QK	1.8	-1	7.4	0	1.0	-1	0.248	-1	1.931	-1	7.797	2	1580	39	1.0
47272.9	10000	41.0276	92.5548	-864	QK	2.2	-1	7.3	0	0.9	-2	0.303	-1	2.362	0	7.807	2	1566	42	1.0
47273.0	10000	41.0276	92.5539	-856	QK	2.1	-1	7.0	0	0.9	-2	0.302	-1	2.316	0	7.679	2	1530	56	1.0
47273.1	10000	41.0276	92.5531	-848	QK	2.1	-1	6.9	0	0.9	-2	0.299	-1	2.318	0	7.760	2	1525	31	1.0
47273.2	10000	41.0276	92.5522	-840	QK	2.2	-1	7.2	0	0.9	-2	0.308	-1	2.515	0	8.155	2	1533	48	1.0
47273.3	10000	41.0276	92.5513	-833	QK	2.1	-1	7.5	0	0.8	-2	0.280	-1	2.481	0	8.847	3	1549	45	1.0
47273.4	10000	41.0276	92.5504	-827	QK	2.4	0	7.0	0	0.8	-2	0.345	-1	2.951	0	8.549	3	1543	30	1.0
47273.5	10000	41.0276	92.5496	-822	QK	2.5	0	6.7	-1	0.8	-2	0.375	-1	3.031	0	8.074	2	1544	42	1.0
47273.6	10000	41.0276	92.5487	-816	QK	2.5	0	6.8	-1	0.9	-2	0.367	-1	2.874	0	7.824	2	1559	49	1.0
47273.7	10000	41.0277	92.5478	-811	QK	2.6	0	6.9	-1	0.9	-2	0.378	-1	2.966	0	7.857	2	1575	32	1.0
47273.8	10000	41.0277	92.5470	-807	QK	3.1	0	6.8	-1	0.9	-2	0.463	-1	3.628	0	7.831	2	1595	44	1.0
47273.9	10000	41.0277	92.5461	-803	QK	3.3	0	6.6	-1	0.8	-2	0.496	-1	4.079	0	8.227	2	1604	60	1.0
47274.0	10000	41.0277	92.5452	-799	QK	3.4	0	6.7	-1	0.8	-2	0.505	-1	4.096	0	8.115	2	1612	47	0.9
47274.1	10000	41.0277	92.5444	-795	QK	3.0	0	7.2	0	0.8	-2	0.410	-1	3.560	0	8.692	3	1623	49	0.9
47274.2	10000	41.0277	92.5435	-792	QK	3.2	1	7.4	1	0.8	-2	0.427	-1	3.755	0	8.787	3	1656	39	0.9
47274.3	10000	41.0277	92.5426	-789	QK	3.1	1	7.3	1	0.8	-2	0.423	-1	3.670	0	8.680	3	1662	42	0.9
47274.4	10000	41.0277	92.5418	-787	QK	3.1	1	7.6	1	0.8	-2	0.401	-1	3.870	0	9.647	4	1677	51	0.9
47274.5	10000	41.0277	92.5409	-785	QK	2.8	1	7.8	1	0.8	-2	0.365	-1	3.515	0	9.621	4	1684	37	0.9
47274.6	10000	41.0277	92.5400	-783	QK	2.8	1	7.8	1	0.8	-2	0.356	-1	3.318	0	9.313	4	1687	34	0.9
47274.7	10000	41.0277	92.5392	-781	QK	2.7	1	7.8	1	0.9	-2	0.343	-1	3.033	0	8.840	3	1677	46	0.9
47274.8	10000	41.0277	92.5383	-779	QK	2.8	1	8.1	1	1.0	-2	0.342	-1	2.913	0	8.522	3	1692	40	0.9
47274.9	10000	41.0277	92.5374	-777	QK	2.6	1	8.0	1	1.0	-1	0.321	-1	2.695	0	8.385	3	1686	54	0.9
47275.0	10000	41.0277	92.5365	-775	QK	2.5	1	8.2	1	1.0	-1	0.307	-1	2.517	0	8.210	3	1707	40	0.9
47275.1	10000	41.0277	92.5357	-773	QK	2.4	1	8.1	1	1.1	0	0.302	-1	2.244	0	7.422	2	1709	42	0.9
47275.2	10000	41.0277	92.5348	-770	QK	2.2	1	8.0	1	1.2	0	0.285	-1	2.086	0	7.317	2	1702	35	0.9
47275.3	10000	41.0277	92.5339	-766	QK	2.4	1	8.0	1	1.1	0	0.261	-1	1.863	-1	7.140	2	1708	38	0.9
47275.4	10000	41.0277	92.5331	-766	QK	2.3	1	8.0	1	1.1	0	0.302	-1	2.130	0	7.057	2	1728	40	0.9
47275.5	10000	41.0277	92.5322	-763	QK	2.3	1	8.0	1	1.1	0	0.307	-1	2.036	0	6.623	1	1727	30	0.9
47275.6	10000	41.0278	92.5313	-760	QK	2.4	1	7.6	0	1.1	0	0.318	0	2.107	0	6.630	0	1719	30	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47275.7	10000	41.0278	92.5305	-757	QK	2.4	0	7.5	0	1.1	0	0.323	0	2.191	0	6.785	0	1691	40	0.9
47275.8	10000	41.0278	92.5296	-754	QK	2.4	0	7.1	0	1.1	0	0.336	0	2.225	0	6.624	0	1677	44	0.9
47275.9	10000	41.0278	92.5287	-750	QK	2.5	0	7.0	0	1.1	0	0.360	0	2.339	0	6.494	0	1669	53	0.9
47276.0	10000	41.0278	92.5279	-747	QK	2.5	0	6.7	-1	1.0	-1	0.368	0	2.393	0	6.509	0	1654	51	0.9
47276.1	10000	41.0278	92.5270	-743	QK	1.9	-1	7.0	0	1.0	-1	0.272	-1	1.836	-1	6.742	0	1628	47	0.9
47276.2	10000	41.0278	92.5261	-738	QK	1.9	-1	7.2	0	1.0	-1	0.267	-1	1.908	-1	7.147	1	1609	39	0.9
47276.3	10000	41.0278	92.5253	-734	QK	2.0	-1	7.5	0	1.0	-1	0.277	-1	1.964	-1	7.094	1	1602	53	0.9
47276.4	10000	41.0278	92.5244	-731	QK	2.0	-1	7.3	0	1.0	-1	0.269	-1	1.946	-1	7.239	1	1609	41	0.9
47276.5	10000	41.0278	92.5235	-727	QK	2.1	-1	7.6	1	1.0	-1	0.274	-1	2.034	0	7.434	1	1631	33	0.9
47276.6	10000	41.0278	92.5226	-723	QK	2.0	-1	7.9	1	1.0	-1	0.254	-1	1.910	-1	7.529	1	1665	48	0.9
47276.7	10000	41.0278	92.5218	-719	QK	2.2	-1	7.6	1	1.1	0	0.283	-1	2.028	-1	7.170	1	1704	37	0.9
47276.8	10000	41.0278	92.5209	-715	QK	2.7	0	7.7	1	1.1	0	0.344	0	2.482	0	7.219	1	1729	49	0.9
47276.9	10000	41.0278	92.5201	-712	QK	2.6	0	7.8	1	1.1	0	0.334	0	2.372	0	7.093	1	1751	42	0.9
47277.0	10000	41.0278	92.5192	-709	QK	2.6	0	8.3	1	1.1	0	0.311	-1	2.308	0	7.429	1	1769	53	0.9
47277.1	10000	41.0278	92.5183	-707	QK	2.7	0	7.9	1	1.2	0	0.341	0	2.319	0	6.809	0	1776	42	0.9
47277.2	10000	41.0278	92.5174	-704	QK	2.4	0	7.8	1	1.1	0	0.310	-1	2.139	0	6.903	1	1764	52	0.9
47277.3	10000	41.0278	92.5166	-702	QK	2.5	0	8.1	1	1.1	0	0.309	-1	2.197	0	7.105	1	1743	35	0.9
47277.4	10000	41.0278	92.5157	-700	QK	2.5	0	8.4	2	1.1	0	0.299	-1	2.222	0	7.441	1	1724	61	0.9
47277.5	10000	41.0279	92.5148	-699	QK	2.4	0	8.0	1	1.1	0	0.295	-1	2.133	0	7.232	1	1701	48	0.9
47277.6	10000	41.0279	92.5140	-698	QK	2.5	0	7.9	1	1.1	0	0.312	-1	2.248	0	7.206	1	1702	47	0.9
47277.7	10000	41.0279	92.5131	-697	QK	2.5	0	7.4	0	1.1	0	0.335	0	2.288	0	6.832	0	1696	38	0.9
47277.8	10000	41.0279	92.5122	-696	QK	2.2	-1	7.6	1	1.1	-1	0.289	-1	2.092	0	7.245	1	1690	50	0.9
47277.9	10000	41.0279	92.5114	-696	QK	2.4	0	8.2	1	1.1	0	0.300	-1	2.289	0	7.634	2	1694	57	0.9
47278.0	10000	41.0279	92.5105	-695	QK	2.5	0	7.6	1	1.0	-1	0.327	0	2.409	0	7.368	1	1691	43	0.9
47278.1	10000	41.0279	92.5096	-696	QK	2.5	0	7.5	1	1.0	-1	0.332	0	2.391	0	7.208	1	1684	43	0.9
47278.2	10000	41.0279	92.5087	-696	QK	2.5	0	7.8	1	1.0	-1	0.320	0	2.412	0	7.545	2	1679	43	0.9
47278.3	10000	41.0279	92.5079	-696	QK	2.4	0	7.5	1	1.0	-1	0.316	0	2.302	0	7.297	1	1644	39	0.9
47278.4	10000	41.0279	92.5070	-696	QK	2.2	-1	7.5	1	0.9	-1	0.297	-1	2.329	0	7.848	2	1620	40	0.9
47278.5	10000	41.0279	92.5061	-696	QK	2.4	0	7.5	1	0.9	-1	0.319	-1	2.586	1	8.114	2	1609	42	0.9
47278.6	10000	41.0279	92.5053	-696	QK	2.3	0	7.5	1	0.9	-1	0.313	-1	2.578	1	8.236	2	1605	45	0.9
47278.7	10000	41.0279	92.5044	-696	QK	2.2	-1	7.6	1	0.9	-1	0.286	-1	2.362	1	8.259	3	1587	42	0.9
47278.8	10000	41.0279	92.5035	-697	QK	2.1	-1	7.7	1	1.0	-1	0.275	-1	2.200	0	8.010	2	1583	52	0.9
47278.9	10000	41.0279	92.5027	-696	QK	2.0	-1	7.6	1	1.0	-1	0.267	-1	2.004	-1	7.511	1	1599	39	0.9
47279.0	10000	41.0279	92.5018	-696	QK	2.1	-1	7.9	1	1.0	-1	0.267	-1	2.023	-1	7.588	2	1623	39	0.9
47279.1	10000	41.0279	92.5009	-698	QK	2.0	-1	7.6	1	1.1	0	0.266	-1	1.842	-1	6.917	1	1651	46	0.9
47279.2	10000	41.0279	92.5001	-699	QK	2.0	-1	7.4	1	1.1	0	0.274	-1	1.780	-1	6.496	1	1667	26	0.9
47279.3	10000	41.0279	92.4992	-700	QK	2.1	-1	7.5	1	1.2	0	0.281	-1	1.809	-1	6.447	1	1669	29	0.9
47279.4	10000	41.0279	92.4983	-701	QK	2.1	-1	7.6	1	1.1	0	0.277	-1	1.876	-1	6.780	1	1691	44	0.9
47279.5	10000	41.0280	92.4975	-702	QK	2.3	0	7.6	1	1.1	0	0.310	-1	2.103	0	6.783	1	1714	50	0.9
47279.6	10000	41.0280	92.4966	-703	QK	2.4	0	7.6	1	1.1	0	0.313	-1	2.153	0	6.881	1	1718	38	0.9
47279.7	10000	41.0280	92.4957	-703	QK	2.5	0	7.5	1	1.1	0	0.334	0	2.268	0	6.801	1	1736	46	0.9
47279.8	10000	41.0280	92.4949	-703	QK	2.7	0	7.9	1	1.1	0	0.344	0	2.494	0	7.257	1	1745	50	0.9
47279.9	10000	41.0280	92.4940	-704	QK	2.7	0	8.1	1	1.1	0	0.334	0	2.524	1	7.553	1	1742	48	0.9
47280.0	10000	41.0280	92.4931	-703	QK	2.8	0	7.6	1	1.1	0	0.368	0	2.594	1	7.041	1	1734	43	0.9
47280.1	10000	41.0280	92.4922	-703	QK	2.9	0	7.5	1	1.1	0	0.383	0	2.613	1	6.816	1	1744	47	0.9
47280.2	10000	41.0280	92.4914	-703	QK	2.6	0	7.9	1	1.1	0	0.348	0	2.452	1	7.055	1	1722	41	0.9
47280.3	10000	41.0280	92.4905	-703	QK	2.5	0	8.0	1	1.1	0	0.331	0	2.402	0	7.253	1	1714	50	0.9
47280.4	10000	41.0280	92.4896	-703	QK	2.3	-1	7.5	1	1.1	0	0.309	-1	2.302	0	7.440	1	1689	37	0.9
47280.5	10000	41.0280	92.4888	-701	QK	2.1	-1	7.3	1	1.1	0	0.313	-1	2.147	0	6.870	1	1665	42	0.9
47280.6	10000	41.0280	92.4879	-700	QK	1.9	-1	7.3	1	1.1	0	0.280	-1	1.848	-1	6.592	1	1640	46	0.9
47280.7	10000	41.0280	92.4870	-699	QK	1.9	-1	7.3	1	1.1	0	0.260	-1	1.741	-1	6.689	1	1620	51	1.0
47280.8	10000	41.0280	92.4862	-697	QK	1.8	-1	7.4	1	1.1	0	0.248	-1	1.724	-1	6.964	1	1578	48	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47280.9	10000	41.0280	92.4853	-694	QK	1.8	-1	7.3	0	1.1	0	0.248	-1	1.654	-1	6.666	0	1555	51	1.0
47281.0	10000	41.0280	92.4844	-692	QK	1.8	-2	6.8	-1	1.0	-1	0.256	-1	1.673	-1	6.528	0	1547	56	1.0
47281.1	10000	41.0280	92.4836	-689	QK	1.5	-2	7.1	0	1.0	-1	0.216	-2	1.509	-2	6.999	1	1537	39	1.0
47281.2	10000	41.0280	92.4827	-687	QK	1.4	-2	7.5	0	1.0	-1	0.182	-2	1.349	-2	7.401	1	1530	41	1.0
47281.3	10000	41.0280	92.4818	-684	QK	1.7	-2	7.9	1	1.0	-1	0.218	-2	1.804	-1	8.264	3	1534	40	1.0
47281.4	10000	41.0280	92.4810	-680	QK	1.6	-2	7.9	1	0.9	-1	0.207	-2	1.720	-1	8.307	3	1542	60	1.0
47281.5	10000	41.0280	92.4801	-678	QK	1.7	-2	7.7	1	0.9	-2	0.214	-2	1.785	-1	8.330	3	1553	53	1.0
47281.6	10000	41.0281	92.4792	-675	QK	1.8	-2	7.9	1	0.9	-2	0.225	-2	1.971	-1	8.749	3	1564	39	1.0
47281.7	10000	41.0281	92.4783	-673	QK	1.7	-2	8.0	1	0.9	-1	0.217	-2	1.840	-1	8.464	3	1567	46	1.0
47281.8	10000	41.0281	92.4775	-671	QK	1.9	-1	7.7	1	0.9	-2	0.250	-1	2.122	0	8.502	3	1571	48	1.1
47281.9	10000	41.0281	92.4766	-670	QK	2.0	-1	7.9	1	0.9	-2	0.258	-1	2.242	0	8.706	3	1588	29	1.1
47282.0	10000	41.0281	92.4757	-671	QK	1.9	-1	7.6	1	1.0	-1	0.253	-1	2.002	-1	7.899	2	1600	30	1.1
47282.1	10000	41.0281	92.4749	-671	QK	2.1	-1	7.8	1	1.0	-1	0.263	-1	2.068	0	7.850	2	1607	47	1.1
47282.2	10000	41.0281	92.4740	-672	QK	2.0	-1	7.7	1	1.0	-1	0.260	-1	1.916	-1	7.382	1	1614	48	1.1
47282.3	10000	41.0281	92.4731	-673	QK	1.7	-2	7.7	1	1.1	-1	0.225	-2	1.643	-1	7.300	1	1617	49	1.1
47282.4	10000	41.0281	92.4723	-676	QK	1.7	-2	7.5	0	1.0	-1	0.233	-2	1.746	-1	7.486	1	1609	38	1.1
47282.5	10000	41.0281	92.4714	-679	QK	1.6	-2	7.5	0	1.1	-1	0.218	-2	1.554	-2	7.120	1	1609	32	1.1
47282.6	10000	41.0281	92.4705	-682	QK	1.6	-2	7.3	0	1.0	-1	0.219	-2	1.542	-2	7.027	1	1588	22	1.1
47282.7	10000	41.0281	92.4697	-686	QK	1.5	-2	7.4	0	1.0	-1	0.201	-2	1.469	-2	7.296	1	1583	39	1.1
47282.8	10000	41.0281	92.4688	-690	QK	1.4	-2	7.2	0	1.0	-1	0.198	-2	1.408	-2	7.109	1	1581	40	1.1
47282.9	10000	41.0281	92.4679	-694	QK	1.4	-2	7.5	0	1.0	-1	0.193	-2	1.451	-2	7.508	1	1577	41	1.1
47283.0	10000	41.0281	92.4671	-699	QK	1.7	-2	7.3	0	1.0	-1	0.237	-2	1.719	-1	7.251	1	1581	36	1.1
47283.1	10000	41.0281	92.4662	-703	QK	1.8	-2	7.5	0	1.0	-1	0.238	-2	1.751	-1	7.356	1	1587	33	1.1
47283.2	10000	41.0281	92.4653	-709	QK	1.9	-1	7.2	0	1.0	-1	0.271	-1	1.948	-1	7.190	1	1583	50	1.1
47283.3	10000	41.0281	92.4644	-715	QK	2.0	-1	7.3	0	1.0	-1	0.269	-1	1.933	-1	7.185	1	1589	35	1.2
47283.4	10000	41.0281	92.4636	-721	QK	2.2	-1	7.2	0	1.0	-1	0.303	-1	2.159	0	7.126	1	1587	44	1.2
47283.5	10000	41.0281	92.4627	-727	QK	2.3	-1	7.4	0	1.0	-1	0.305	-1	2.207	0	7.248	1	1596	43	1.2
47283.6	10000	41.0281	92.4618	-733	QK	2.3	-1	7.2	0	1.1	0	0.313	-1	2.120	0	6.775	0	1611	33	1.2
47283.7	10000	41.0281	92.4610	-738	QK	2.1	-1	7.5	0	1.0	-1	0.285	-1	2.055	0	7.213	1	1614	47	1.2
47283.8	10000	41.0281	92.4601	-742	QK	2.3	0	7.1	0	1.1	0	0.323	0	2.086	0	6.451	0	1634	52	1.2
47283.9	10000	41.0282	92.4592	-746	QK	2.5	0	7.3	0	1.1	0	0.350	0	2.218	0	6.340	0	1677	37	1.2
47284.0	10000	41.0282	92.4584	-750	QK	2.6	0	7.1	0	1.1	0	0.371	0	2.358	0	6.357	0	1693	42	1.2
47284.1	10000	41.0282	92.4575	-754	QK	2.5	0	7.2	0	1.2	0	0.346	0	2.131	0	6.155	0	1718	38	1.2
47284.2	10000	41.0282	92.4566	-757	QK	2.5	0	7.5	0	1.1	0	0.335	0	2.189	0	6.541	0	1697	48	1.2
47284.3	10000	41.0282	92.4558	-762	QK	2.4	0	7.3	0	1.1	0	0.333	0	2.138	0	6.424	0	1677	32	1.2
47284.4	10000	41.0282	92.4549	-766	QK	2.4	0	7.2	0	1.2	0	0.324	-1	1.998	-1	6.157	0	1659	48	1.2
47284.5	10000	41.0282	92.4540	-769	QK	2.5	0	7.5	0	1.1	0	0.326	0	2.215	0	6.784	0	1619	58	1.2
47284.6	10000	41.0282	92.4532	-772	QK	2.1	-1	7.1	0	1.1	-1	0.300	-1	2.033	0	6.777	0	1556	39	1.2
47284.7	10000	41.0282	92.4523	-776	QK	2.1	-1	6.7	-1	1.0	-1	0.308	-1	1.988	-1	6.458	0	1505	54	1.2
47284.8	10000	41.0282	92.4514	-778	QK	2.2	-1	6.4	-1	1.0	-1	0.341	0	2.211	0	6.493	0	1457	39	1.2
47284.9	10000	41.0282	92.4505	-781	QK	2.1	-1	5.5	-2	1.0	-1	0.384	0	2.201	0	5.728	-1	1426	41	1.2
47285.0	10000	41.0282	92.4497	-783	QAL	2.1	-1	5.0	-2	0.9	-1	0.412	0	2.174	0	5.284	-1	1400	48	1.2
47285.1	10000	41.0282	92.4488	-786	QAL	2.1	-1	4.7	-2	0.9	-1	0.457	0	2.359	0	5.164	-1	1374	34	1.2
47285.2	10000	41.0282	92.4479	-788	QAL	1.7	-1	4.2	-2	0.9	-1	0.417	-1	1.830	-1	4.385	-2	1359	34	1.2
47285.3	10000	41.0282	92.4471	-790	QAL	1.8	-1	4.2	-2	1.0	-1	0.441	-1	1.878	-1	4.260	-2	1348	41	1.2
47285.4	10000	41.0282	92.4462	-792	QAL	1.6	-1	4.1	-2	1.0	0	0.401	-1	1.645	-1	4.103	-3	1336	33	1.2
47285.5	10000	41.0282	92.4453	-793	QAL	1.8	-1	4.0	-3	1.0	-1	0.443	-1	1.786	-1	4.030	-3	1329	32	1.2
47285.6	10000	41.0282	92.4445	-795	QAL	1.8	-1	4.5	-2	1.0	0	0.396	-1	1.748	-1	4.419	-2	1333	32	1.2
47285.7	10000	41.0282	92.4436	-796	QAL	1.7	-1	4.8	-2	1.0	0	0.354	-1	1.645	-1	4.651	-2	1332	36	1.2
47285.8	10000	41.0283	92.4427	-796	QAL	1.6	-2	4.4	-2	1.0	0	0.366	-1	1.576	-1	4.301	-2	1315	55	1.2
47285.9	10000	41.0283	92.4419	-797	QAL	1.6	-2	4.6	-2	1.0	-1	0.347	0	1.657	-1	4.770	-2	1293	36	1.2
47286.0	10000	41.0283	92.4410	-798	QAL	1.4	-2	4.5	-2	0.9	-1	0.314	-1	1.618	-1	5.150	-1	1259	44	1.3

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47286.1	10000	41.0283	92.4401	-798	QAL	1.5	-2	4.2	-2	0.8	-2	0.360	0	1.896	-1	5.273	-1	1220	46	1.3
47286.2	10010	41.0283	92.4393	-798	QAL	1.1	-3	3.7	-3	0.8	-2	0.000	-4	0.000	-4	4.949	-1	1142	39	1.3
47286.3	10010	41.0283	92.4384	-798	QAL	0.8	-3	3.2	-3	0.6	-3	0.000	-4	0.000	-4	4.976	-1	1049	35	1.3
47286.4	10010	41.0283	92.4375	-797	QAL	0.8	-3	2.6	-4	0.5	-4	0.000	-4	0.000	-4	5.293	-1	948	45	1.3
47286.5	10010	41.0283	92.4366	-797	QAL	0.7	-3	2.5	-4	0.4	-4	0.000	-4	0.000	-4	5.944	0	873	35	1.3
47286.6	10010	41.0283	92.4358	-796	QAL	0.8	-3	2.4	-4	0.4	-5	0.000	-4	0.000	-4	6.595	1	830	39	1.3
47286.7	10010	41.0283	92.4349	-795	QAL	0.7	-3	2.4	-4	0.3	-5	0.000	-4	0.000	-4	7.015	1	817	45	1.3
47286.8	10010	41.0283	92.4340	-795	QAL	0.7	-3	2.8	-4	0.4	-5	0.000	-4	0.000	-4	7.269	1	849	34	1.3
47286.9	10010	41.0283	92.4332	-795	QAL	0.9	-3	3.3	-3	0.4	-5	0.000	-4	0.000	-4	8.273	3	916	48	1.2
47287.0	10010	41.0283	92.4323	-795	QK	0.9	-3	3.3	-5	0.6	-5	0.000	-5	0.000	-5	6.003	-1	1013	56	1.2
47287.1	10010	41.0283	92.4315	-796	QK	1.1	-3	3.9	-5	0.6	-4	0.000	-5	0.000	-5	6.144	0	1109	44	1.2
47287.2	10010	41.0283	92.4306	-796	QK	1.0	-3	4.4	-4	0.7	-3	0.000	-5	0.000	-5	5.931	-1	1205	56	1.2
47287.3	10010	41.0283	92.4298	-796	CULTRL	1.2	999	5.0	999	0.8	999	0.000	999	0.000	999	6.004	999	1287	35	1.2
47287.4	10000	41.0283	92.4289	-796	CULTRL	1.7	999	4.9	999	0.9	999	0.350	999	1.946	999	5.560	999	1360	50	1.2
47287.5	10000	41.0283	92.4281	-798	CULTRL	2.0	999	5.1	999	0.9	999	0.393	999	2.252	999	5.727	999	1404	44	1.2
47287.6	10000	41.0283	92.4272	-798	CULTRL	2.1	999	5.1	999	0.9	999	0.414	999	2.312	999	5.583	999	1437	49	1.2
47287.7	10000	41.0283	92.4264	-797	CULTRL	2.2	999	5.4	999	0.9	999	0.407	999	2.399	999	5.893	999	1483	35	1.2
47287.8	10000	41.0284	92.4255	-795	CULTRL	2.3	999	5.2	999	0.9	999	0.447	999	2.557	999	5.717	999	1521	51	1.2
47287.9	10000	41.0284	92.4247	-793	CULTRL	2.5	999	5.5	999	0.9	999	0.455	999	2.774	999	6.099	999	1546	44	1.2
47288.0	10000	41.0284	92.4238	-792	CULTRL	2.2	999	5.4	999	0.9	999	0.410	999	2.517	999	6.142	999	1557	42	1.2
47288.1	10000	41.0284	92.4230	-791	CULTRL	2.2	999	5.9	999	0.9	999	0.382	999	2.512	999	6.585	999	1566	43	1.2
47288.2	10000	41.0284	92.4221	-792	CULTRL	2.1	999	5.8	999	0.9	999	0.358	999	2.216	999	6.185	999	1570	46	1.2
47288.3	10000	41.0284	92.4213	-792	CULTRL	2.2	999	6.3	999	0.9	999	0.344	999	2.333	999	6.787	999	1569	51	1.2
47288.4	10000	41.0284	92.4204	-792	CULTRL	2.2	999	6.3	999	0.9	999	0.346	999	2.432	999	7.022	999	1542	41	1.2
47288.5	10000	41.0284	92.4196	-791	CULTRL	2.2	999	6.5	999	0.9	999	0.345	999	2.361	999	6.847	999	1535	42	1.2
47288.6	10000	41.0284	92.4187	-791	CULTRL	2.1	999	6.7	999	1.0	999	0.309	999	2.106	999	6.816	999	1537	48	1.2
47288.7	10000	41.0284	92.4179	-790	CULTRL	2.4	999	6.6	999	1.0	999	0.369	999	2.494	999	6.766	999	1546	31	1.2
47288.8	10000	41.0284	92.4171	-789	CULTRL	2.4	999	6.5	999	1.0	999	0.363	999	2.383	999	6.570	999	1547	36	1.2
47288.9	10000	41.0284	92.4162	-789	CULTRL	2.4	999	7.0	999	1.0	999	0.340	999	2.381	999	7.010	999	1559	49	1.2
47289.0	10000	41.0285	92.4154	-789	CULTRL	2.5	999	6.7	999	1.0	999	0.370	999	2.502	999	6.771	999	1571	49	1.2
47289.1	10000	41.0285	92.4145	-788	CULTRL	2.5	999	7.0	999	1.0	999	0.358	999	2.568	999	7.171	999	1561	43	1.2
47289.2	10000	41.0285	92.4137	-785	CULTRL	2.2	999	6.8	999	0.9	999	0.330	999	2.433	999	7.364	999	1532	47	1.2
47289.3	10000	41.0285	92.4128	-783	CULTRL	2.7	999	6.3	999	0.9	999	0.432	999	3.101	999	7.182	999	1522	52	1.2
47289.4	10000	41.0285	92.4120	-781	CULTRL	2.5	999	6.0	999	0.9	999	0.417	999	2.856	999	6.852	999	1479	47	1.1
47289.5	10000	41.0285	92.4111	-777	CULTRL	2.3	999	5.8	999	0.9	999	0.400	999	2.641	999	6.608	999	1472	46	1.1
47289.6	10000	41.0285	92.4103	-773	CULTRL	2.5	999	5.2	999	0.8	999	0.472	999	2.973	999	6.293	999	1439	40	1.1
47289.7	10000	41.0285	92.4094	-770	CULTRL	2.5	999	5.1	999	0.8	999	0.483	999	3.045	999	6.303	999	1424	37	1.1
47289.8	10000	41.0285	92.4086	-768	CULTRL	2.5	999	5.0	999	0.8	999	0.506	999	3.112	999	6.148	999	1430	45	1.1
47289.9	10000	41.0285	92.4077	-767	CULTRL	2.7	999	4.9	999	0.8	999	0.562	999	3.359	999	5.980	999	1456	44	1.1
47290.0	10000	41.0285	92.4069	-767	CULTRL	2.6	999	5.6	999	0.9	999	0.466	999	3.053	999	6.553	999	1474	46	1.1
47290.1	10000	41.0285	92.4060	-766	CULTRL	2.6	999	5.6	999	0.9	999	0.462	999	3.040	999	6.574	999	1515	52	1.1
47290.2	10000	41.0285	92.4052	-765	CULTRL	2.7	999	6.0	999	0.8	999	0.454	999	3.462	999	7.632	999	1523	36	1.1
47290.3	10000	41.0285	92.4043	-764	CULTRL	2.7	999	6.0	999	0.8	999	0.452	999	3.220	999	7.123	999	1561	54	1.1
47290.4	10000	41.0285	92.4035	-762	CULTRL	2.7	999	6.0	999	0.9	999	0.455	999	3.069	999	6.747	999	1601	32	1.1
47290.5	10000	41.0285	92.4026	-758	CULTRL	2.8	999	6.6	999	1.0	999	0.429	999	2.937	999	6.847	999	1646	50	1.1
47290.6	10000	41.0286	92.4018	-755	CULTRL	2.7	999	7.0	999	1.0	999	0.384	999	2.735	999	7.131	999	1654	41	1.1
47290.7	10000	41.0286	92.4009	-751	CULTRL	2.5	999	6.5	999	1.0	999	0.390	999	2.628	999	6.748	999	1662	49	1.1
47290.8	10000	41.0286	92.4001	-748	CULTRL	2.8	999	6.6	999	1.0	999	0.431	999	2.874	999	6.674	999	1671	42	1.1
47290.9	10000	41.0286	92.3992	-744	CULTRL	2.7	999	6.4	999	1.1	999	0.432	999	2.552	999	5.905	999	1674	45	1.1
47291.0	10000	41.0286	92.3984	-741	CULTRL	2.7	999	6.5	999	1.1	999	0.413	999	2.536	999	6.137	999	1680	38	1.1
47291.1	10000	41.0286	92.3975	-736	CULTRL	2.7	999	6.6	999	1.1	999	0.414	999	2.524	999	6.101	999	1641	52	1.1
47291.2	10000	41.0286	92.3967	-728	CULTRL	3.0	999	5.9	999	1.0	999	0.506	999	2.903	999	5.738	999	1614	53	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47291.3	10000	41.0286	92.3958	-719	CULTRL	3.0	999	5.7	999	1.0	999	0.528	999	3.041	999	5.763	999	1606	51	1.0
47291.4	10000	41.0286	92.3950	-713	CULTRL	3.5	999	5.6	999	1.0	999	0.623	999	3.557	999	5.713	999	1589	39	1.0
47291.5	10000	41.0286	92.3941	-712	QK	3.2	1	5.8	-2	0.9	-1	0.558	3	3.402	2	6.097	-1	1576	59	1.0
47291.6	10000	41.0286	92.3933	-712	QK	3.0	1	5.8	-2	1.0	-1	0.518	2	3.098	2	5.979	-1	1565	45	1.0
47291.7	10000	41.0286	92.3924	-710	QK	3.0	1	6.3	-1	0.9	-2	0.478	2	3.228	2	6.756	0	1567	40	1.0
47291.8	10000	41.0286	92.3916	-707	QK	2.8	0	6.2	-1	0.9	-2	0.448	1	3.048	2	6.805	0	1596	39	1.0
47291.9	10000	41.0286	92.3907	-705	QK	2.7	0	6.5	-1	0.9	-2	0.419	1	3.024	2	7.215	1	1602	42	1.0
47292.0	10000	41.0286	92.3899	-703	QK	2.7	0	6.7	-1	0.9	-1	0.401	1	2.842	1	7.078	1	1609	33	1.0
47292.1	10000	41.0287	92.3891	-700	QK	2.6	0	7.0	0	1.0	-1	0.375	0	2.607	1	6.948	1	1622	39	1.0
47292.2	10000	41.0287	92.3882	-698	QK	2.7	0	6.9	0	1.0	-1	0.384	0	2.666	1	6.938	1	1622	33	1.0
47292.3	10000	41.0287	92.3874	-695	QK	2.9	1	7.5	0	1.0	-1	0.392	1	3.042	2	7.751	2	1641	51	1.0
47292.4	10000	41.0287	92.3865	-691	QK	2.9	1	7.1	0	1.0	-1	0.404	1	2.870	1	7.110	1	1639	37	1.0
47292.5	10000	41.0287	92.3857	-686	QK	3.1	1	7.1	0	1.0	-1	0.441	1	3.141	2	7.127	1	1630	47	1.0
47292.6	10000	41.0287	92.3848	-679	QK	2.8	1	7.0	0	1.0	-1	0.407	1	2.729	1	6.703	0	1630	49	1.0
47292.7	10000	41.0287	92.3840	-673	QK	3.0	1	6.8	-1	1.0	-1	0.435	1	2.938	1	6.754	0	1637	43	1.0
47292.8	10000	41.0287	92.3831	-667	QK	2.8	1	6.7	-1	1.0	-1	0.418	1	2.799	1	6.696	0	1640	41	1.0
47292.9	10000	41.0287	92.3823	-663	QK	2.6	0	7.1	0	1.1	0	0.363	0	2.429	0	6.683	0	1658	60	1.0
47293.0	10000	41.0287	92.3814	-658	QK	2.6	0	6.5	-1	1.1	0	0.394	1	2.328	0	5.913	-1	1653	32	1.0
47293.1	10000	41.0287	92.3806	-654	QK	2.7	0	6.5	-1	1.1	0	0.412	1	2.514	1	6.100	-1	1651	57	1.0
47293.2	10000	41.0287	92.3797	-651	QK	2.5	0	6.9	0	1.1	0	0.360	0	2.271	0	6.304	0	1663	42	1.0
47293.3	10000	41.0287	92.3789	-649	QK	2.7	0	7.2	0	1.1	0	0.372	0	2.427	0	6.533	0	1690	40	1.0
47293.4	10000	41.0287	92.3780	-647	QK	2.7	0	7.3	0	1.1	0	0.371	0	2.390	0	6.447	0	1682	53	1.0
47293.5	10000	41.0288	92.3772	-644	QK	2.7	0	6.9	0	1.1	-1	0.383	0	2.512	1	6.557	0	1657	48	1.0
47293.6	10000	41.0288	92.3763	-642	QK	2.8	1	6.6	-1	1.0	-1	0.430	1	2.759	1	6.422	0	1636	42	1.0
47293.7	10000	41.0288	92.3755	-640	QK	2.6	0	6.8	-1	1.0	-1	0.386	0	2.558	1	6.623	0	1624	41	1.0
47293.8	10000	41.0288	92.3746	-638	QK	2.4	0	6.5	-1	1.0	-1	0.368	0	2.272	0	6.174	0	1612	46	1.0
47293.9	10000	41.0288	92.3738	-638	QK	2.5	0	6.2	-1	1.0	-1	0.394	0	2.431	0	6.170	0	1601	49	0.9
47294.0	10000	41.0288	92.3729	-638	QK	2.5	0	6.2	-1	1.0	-1	0.408	1	2.460	0	6.025	-1	1577	41	0.9
47294.1	10000	41.0288	92.3721	-638	QK	2.4	0	6.0	-2	1.0	-1	0.403	1	2.374	0	5.894	-1	1586	35	0.9
47294.2	10000	41.0288	92.3712	-639	QK	2.4	0	5.9	-2	1.1	-1	0.399	1	2.233	0	5.596	-1	1614	48	0.9
47294.3	10000	41.0288	92.3704	-641	QK	2.6	0	6.1	-2	1.1	0	0.423	1	2.403	0	5.677	-1	1651	60	0.9
47294.4	10000	41.0288	92.3695	-643	QK	2.9	1	6.3	-1	1.1	-1	0.461	2	2.823	1	6.118	-1	1677	42	0.9
47294.5	10000	41.0288	92.3687	-646	QK	3.0	1	6.7	-1	1.0	-1	0.448	2	2.864	1	6.392	0	1719	40	0.9
47294.6	10000	41.0288	92.3678	-649	QK	2.9	1	6.6	-1	1.1	0	0.443	2	2.720	1	6.140	0	1732	35	0.9
47294.7	10000	41.0288	92.3670	-653	QK	3.2	1	6.5	-1	1.1	-1	0.491	2	3.027	2	6.169	0	1748	53	0.9
47294.8	10000	41.0288	92.3661	-658	QK	3.1	1	6.8	-1	1.1	0	0.464	2	2.926	1	6.308	0	1761	33	0.9
47294.9	10000	41.0288	92.3653	-663	QK	3.0	1	7.1	0	1.0	-1	0.426	1	3.004	2	7.047	1	1770	45	0.9
47295.0	10000	41.0289	92.3644	-669	QK	3.0	1	6.8	-1	1.0	-1	0.441	1	2.887	1	6.552	0	1753	60	0.9
47295.1	10000	41.0289	92.3636	-675	QK	2.8	1	6.6	-1	1.0	-1	0.431	1	2.772	1	6.428	0	1747	39	0.9
47295.2	10000	41.0289	92.3627	-681	QK	3.0	1	6.6	-1	1.0	-1	0.451	1	2.924	1	6.481	0	1749	33	0.9
47295.3	10000	41.0289	92.3619	-687	QK	3.0	1	6.6	-1	1.0	-1	0.453	1	2.930	1	6.464	0	1750	48	0.9
47295.4	10000	41.0289	92.3611	-693	QK	2.9	1	6.5	-1	1.0	-1	0.436	1	2.844	1	6.518	0	1743	43	0.9
47295.5	10000	41.0289	92.3602	-700	QK	3.0	1	6.6	-1	1.0	-1	0.447	1	3.065	2	6.852	1	1722	47	0.9
47295.6	10000	41.0289	92.3594	-707	QK	2.9	1	6.9	0	1.1	0	0.420	1	2.696	1	6.417	0	1724	40	0.9
47295.7	10000	41.0289	92.3585	-714	QK	2.8	1	7.5	0	1.0	-1	0.372	0	2.682	1	7.201	1	1743	42	0.9
47295.8	10000	41.0289	92.3577	-720	QK	2.8	1	7.7	0	1.1	0	0.369	0	2.604	1	7.063	1	1768	45	0.9
47295.9	10000	41.0289	92.3568	-727	QK	2.7	1	7.6	0	1.1	0	0.362	0	2.518	1	6.960	1	1759	49	0.9
47296.0	10000	41.0289	92.3560	-734	QK	2.9	1	7.8	0	1.1	0	0.376	0	2.655	1	7.068	1	1760	47	0.9
47296.1	10000	41.0289	92.3551	-741	QK	2.8	1	7.8	0	1.1	0	0.362	0	2.608	1	7.205	1	1773	37	0.9
47296.2	10000	41.0289	92.3543	-747	QK	3.0	1	8.0	0	1.1	0	0.367	0	2.635	1	7.173	1	1811	43	0.9
47296.3	10000	41.0289	92.3534	-754	QK	3.5	2	7.7	1	1.1	0	0.457	2	3.193	2	6.987	1	1818	52	0.9
47296.4	10000	41.0289	92.3526	-760	QK	3.6	2	7.3	0	1.1	0	0.494	2	3.298	2	6.680	0	1819	39	0.9

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47296.5	10000	41.0290	92.3517	-766	QK	3.7	2	7.0	0	1.1	0	0.525	2	3.296	2	6.282	0	1813	44	0.9
47296.6	10000	41.0290	92.3509	-772	QK	3.7	3	7.2	0	1.1	0	0.522	2	3.502	2	6.708	0	1816	48	0.9
47296.7	10000	41.0290	92.3500	-777	QK	4.1	3	7.2	0	1.0	-1	0.569	3	3.976	4	6.988	1	1834	47	0.9
47296.8	10000	41.0290	92.3492	-782	QK	4.1	3	7.1	0	1.1	-1	0.582	3	3.914	3	6.721	0	1835	36	0.9
47296.9	10000	41.0290	92.3483	-787	QK	4.2	3	6.8	-1	1.1	0	0.622	4	3.906	3	6.278	0	1810	38	0.9
47297.0	10000	41.0290	92.3475	-792	QK	3.9	3	7.0	0	1.1	-1	0.554	3	3.736	3	6.746	0	1785	50	0.9
47297.1	10000	41.0290	92.3466	-797	QK	3.6	2	6.9	0	1.1	-1	0.528	2	3.444	2	6.525	0	1753	37	0.9
47297.2	10000	41.0290	92.3458	-802	QK	3.3	2	6.9	0	1.0	-1	0.476	2	3.228	2	6.779	0	1725	40	0.9
47297.3	10000	41.0290	92.3449	-806	QK	3.2	1	6.7	-1	1.1	-1	0.481	2	3.043	2	6.327	0	1699	40	0.9
47297.4	10000	41.0290	92.3441	-810	QK	2.8	1	6.5	-1	1.0	-1	0.435	1	2.703	1	6.215	0	1670	38	0.9
47297.5	10000	41.0290	92.3432	-814	QK	2.8	1	6.2	-1	1.0	-1	0.452	1	2.683	1	5.933	-1	1642	38	0.9
47297.6	10000	41.0290	92.3424	-818	QK	2.6	1	6.2	-1	1.0	-1	0.428	1	2.639	1	6.163	0	1618	29	0.9
47297.7	10000	41.0290	92.3415	-821	QK	2.6	0	5.8	-2	1.0	-1	0.445	1	2.489	0	5.593	-1	1603	43	0.9
47297.8	10000	41.0290	92.3407	-824	QK	2.7	0	5.9	-2	1.0	-1	0.466	1	2.715	1	5.827	-1	1603	58	0.9
47297.9	10000	41.0290	92.3398	-826	QK	3.0	1	6.2	-1	1.0	-1	0.484	2	2.899	1	5.988	-1	1600	47	0.9
47298.0	10000	41.0290	92.3390	-829	QK	3.0	1	6.2	-1	1.0	-1	0.478	2	2.906	1	6.078	-1	1595	43	0.9
47298.1	10000	41.0290	92.3381	-833	QK	2.8	1	6.0	-2	1.1	0	0.466	2	2.550	1	5.468	-1	1592	39	0.9
47298.2	10000	41.0291	92.3373	-835	QK	2.6	0	6.6	-1	1.1	0	0.396	1	2.401	0	6.064	-1	1596	39	0.8
47298.3	10000	41.0291	92.3364	-837	QK	2.5	0	6.7	-1	1.2	0	0.368	1	2.137	0	5.801	-1	1615	28	0.8
47298.4	10000	41.0291	92.3356	-840	QK	2.5	0	6.6	-1	1.2	0	0.375	1	2.137	0	5.703	-1	1633	41	0.8
47298.5	10000	41.0291	92.3347	-842	QK	2.3	0	6.7	-1	1.2	0	0.346	1	1.956	-1	5.656	-1	1642	27	0.8
47298.6	10000	41.0291	92.3339	-844	QK	2.2	0	6.6	-1	1.2	0	0.341	1	1.923	-1	5.632	-1	1650	43	0.8
47298.7	10000	41.0291	92.3331	-845	QK	2.3	0	6.7	-1	1.2	0	0.347	1	1.983	-1	5.716	-1	1660	37	0.8
47298.8	10000	41.0291	92.3322	-847	QK	2.5	0	6.9	0	1.1	0	0.358	1	2.205	0	6.154	0	1661	42	0.8
47298.9	10000	41.0291	92.3314	-850	QK	2.6	0	6.5	-1	1.1	0	0.404	1	2.355	0	5.835	-1	1658	53	0.8
47299.0	10000	41.0291	92.3305	-852	QK	2.8	1	6.7	-1	1.1	-1	0.426	1	2.682	1	6.296	0	1646	43	0.8
47299.1	10000	41.0291	92.3297	-854	QK	2.9	1	6.8	-1	1.0	-1	0.420	1	2.840	1	6.764	0	1634	54	0.8
47299.2	10000	41.0291	92.3288	-856	QK	2.8	1	6.8	-1	1.0	-1	0.417	1	2.882	1	6.910	1	1625	29	0.8
47299.3	10000	41.0291	92.3280	-857	QK	2.9	1	7.2	-1	1.0	-1	0.409	1	2.824	1	6.912	1	1636	47	0.8
47299.4	10000	41.0291	92.3271	-859	QK	2.7	1	7.2	0	1.0	0	0.369	1	2.595	1	7.036	1	1636	42	0.8
47299.5	10000	41.0291	92.3263	-860	QK	2.8	1	7.2	0	1.0	0	0.385	1	2.647	1	6.874	1	1657	57	0.8
47299.6	10000	41.0291	92.3254	-862	QK	2.7	1	7.4	0	1.0	0	0.366	1	2.608	1	7.132	1	1660	40	0.8
47299.7	10000	41.0292	92.3246	-863	QK	2.5	1	7.5	0	1.1	0	0.337	1	2.410	1	7.149	1	1665	46	0.8
47299.8	10000	41.0292	92.3237	-864	QK	2.5	1	7.7	0	1.1	0	0.327	1	2.356	1	7.214	1	1672	46	0.8
47299.9	10000	41.0292	92.3229	-866	QK	2.6	1	7.7	0	1.1	0	0.338	1	2.331	1	6.906	1	1683	45	0.8
47300.0	10000	41.0292	92.3220	-867	QK	2.4	1	7.3	0	1.1	0	0.334	1	2.261	1	6.771	1	1683	40	0.8
47300.1	10000	41.0292	92.3212	-869	QK	2.5	1	7.3	0	1.1	0	0.349	1	2.278	1	6.534	1	1693	48	0.8
47300.2	10000	41.0292	92.3203	-870	QK	2.4	1	7.5	0	1.1	0	0.319	1	2.119	0	6.649	1	1669	45	0.8
47300.3	10000	41.0292	92.3195	-872	QK	2.2	1	7.5	0	1.1	0	0.295	1	1.977	-1	6.690	1	1666	45	0.8
47300.4	10000	41.0292	92.3186	-873	QK	2.4	1	7.7	0	1.1	0	0.307	1	2.102	0	6.854	1	1672	40	0.8
47300.5	10000	41.0292	92.3178	-875	QK	2.5	1	7.6	0	1.1	0	0.326	1	2.168	0	6.656	1	1678	41	0.8
47300.6	10000	41.0292	92.3169	-877	QK	2.3	1	7.9	0	1.1	0	0.292	1	2.008	-1	6.874	1	1681	45	0.8
47300.7	10000	41.0292	92.3161	-878	QK	2.3	1	8.1	0	1.1	0	0.285	1	2.039	0	7.159	1	1669	40	0.8
47300.8	10000	41.0292	92.3152	-879	QK	2.2	1	8.0	0	1.1	0	0.284	1	1.998	-1	7.025	1	1664	46	0.8
47300.9	10000	41.0292	92.3143	-882	QK	2.2	1	8.0	0	1.2	0	0.276	1	1.902	-1	6.885	1	1680	41	0.8
47301.0	10000	41.0292	92.3134	-882	QK	2.1	1	8.1	0	1.2	0	0.276	1	1.843	-1	6.677	1	1698	41	0.8
47301.1	10000	41.0291	92.3125	-884	QK	2.0	1	8.1	0	1.2	0	0.272	1	1.717	-1	6.303	0	1711	40	0.8
47301.2	10000	41.0291	92.3116	-885	QK	2.1	1	8.1	0	1.2	0	0.252	1	1.687	-1	6.698	0	1721	43	0.8
47301.3	10000	41.0291	92.3107	-886	QK	2.5	1	7.9	0	1.2	0	0.318	1	2.127	0	6.691	1	1724	41	0.8
47301.4	10000	41.0291	92.3099	-887	QK	2.6	1	7.6	0	1.2	0	0.348	1	2.105	0	6.057	-1	1729	42	0.8
47301.5	10000	41.0291	92.3090	-888	QK	2.8	1	7.6	0	1.2	0	0.367	1	2.319	0	6.315	0	1731	41	0.8
47301.6	10000	41.0290	92.3081	-890	QK	2.9	1	7.4	0	1.2	0	0.396	1	2.516	1	6.353	0	1737	35	0.8

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47301.7	10000	41.0290	92.3072	-891	QK	3.0	1	7.5	0	1.2	0	0.400	1	2.577	1	6.440	0	1732	46	0.7
47301.8	10000	41.0290	92.3063	-891	QK	3.2	1	7.6	1	1.2	0	0.418	1	2.742	1	6.563	0	1727	42	0.7
47301.9	10000	41.0290	92.3054	-892	QK	3.4	2	7.1	0	1.2	1	0.479	2	2.828	1	5.908	-1	1721	45	0.7
47302.0	10000	41.0290	92.3045	-893	QK	3.3	2	7.1	0	1.2	1	0.465	2	2.694	1	5.795	-1	1724	44	0.7
47302.1	10000	41.0290	92.3036	-894	QK	3.2	1	7.4	0	1.2	1	0.426	1	2.619	1	6.146	0	1737	50	0.7
47302.2	10000	41.0289	92.3027	-895	QK	3.3	2	7.6	1	1.2	1	0.432	1	2.720	1	6.291	0	1752	43	0.7
47302.3	10000	41.0289	92.3018	-896	QK	3.2	1	8.1	1	1.2	1	0.401	1	2.619	1	6.527	0	1766	45	0.7
47302.4	10000	41.0289	92.3009	-897	QK	3.1	1	8.4	2	1.2	1	0.367	0	2.513	1	6.845	1	1776	46	0.7
47302.5	10000	41.0289	92.3001	-897	QK	2.8	1	8.4	2	1.2	1	0.338	0	2.388	0	7.074	1	1781	45	0.7
47302.6	10000	41.0289	92.2992	-898	QK	2.5	0	8.9	2	1.2	0	0.284	-1	2.146	0	7.570	2	1782	54	0.7
47302.7	10000	41.0288	92.2983	-899	QK	2.2	-1	8.8	2	1.2	1	0.248	-1	1.818	-1	7.321	1	1781	46	0.7
47302.8	10000	41.0288	92.2974	-900	QK	2.3	0	8.7	2	1.2	1	0.267	-1	1.933	-1	7.228	1	1777	47	0.7
47302.9	10000	41.0288	92.2965	-900	QK	2.1	-1	8.9	2	1.3	1	0.233	-2	1.643	-1	7.062	1	1759	42	0.7
47303.0	10000	41.0288	92.2956	-901	QK	1.9	-1	8.3	1	1.2	1	0.234	-2	1.562	-1	6.686	0	1714	48	0.7
47303.1	10000	41.0288	92.2947	-901	QK	2.1	-1	7.7	1	1.2	1	0.268	-1	1.680	-1	6.260	0	1674	33	0.8
47303.2	10000	41.0287	92.2938	-902	QK	2.2	-1	7.3	0	1.2	1	0.298	-1	1.759	-1	5.893	-1	1640	48	0.8
47303.3	10000	41.0287	92.2930	-903	QK	2.3	-1	7.0	0	1.2	1	0.306	-1	1.794	-1	5.867	-1	1617	47	0.8
47303.4	10000	41.0287	92.2921	-904	QK	2.3	0	7.2	0	1.1	0	0.324	0	2.074	0	6.401	0	1584	35	0.8
47303.5	10000	41.0287	92.2912	-905	QK	2.2	-1	7.4	0	1.1	0	0.298	-1	2.041	0	6.857	1	1567	47	0.8
47303.6	10000	41.0287	92.2903	-906	QK	2.3	0	6.9	0	1.0	-1	0.335	0	2.241	0	6.689	0	1547	42	0.8
47303.7	10000	41.0287	92.2894	-906	QK	2.3	0	7.4	0	1.0	-1	0.314	-1	2.215	0	7.064	1	1559	44	0.8
47303.8	10000	41.0286	92.2885	-907	QK	2.4	0	7.3	0	1.0	-1	0.332	0	2.368	0	7.127	1	1581	32	0.8
47303.9	10000	41.0286	92.2876	-908	QK	2.4	0	7.4	0	1.0	-1	0.324	0	2.355	0	7.262	1	1589	26	0.8
47304.0	10000	41.0286	92.2867	-909	QK	2.5	0	7.2	0	1.0	-1	0.346	0	2.449	0	7.074	1	1601	43	0.8
47304.1	10000	41.0286	92.2858	-909	QK	2.5	0	7.3	0	1.1	-1	0.341	0	2.352	0	6.894	1	1627	42	0.8
47304.2	10000	41.0286	92.2849	-910	QK	2.6	-1	7.8	0	1.1	-1	0.386	0	2.494	0	6.459	1	1621	42	0.8
47304.3	10000	41.0285	92.2841	-910	QK	2.6	-1	7.0	0	1.1	-1	0.374	0	2.481	0	6.633	1	1631	40	0.8
47304.4	10000	41.0285	92.2832	-910	QK	2.7	-1	6.8	0	1.1	-1	0.395	0	2.567	1	6.505	1	1637	38	0.8
47304.5	10000	41.0285	92.2823	-911	QK	2.7	-1	7.0	0	1.1	-1	0.383	0	2.524	1	6.595	0	1640	41	0.8
47304.6	10000	41.0285	92.2814	-911	QK	2.7	-1	7.0	0	1.1	-1	0.383	0	2.557	1	6.669	0	1654	47	0.8
47304.7	10000	41.0285	92.2805	-912	QK	2.6	-1	7.4	0	1.1	-1	0.355	0	2.432	1	6.850	1	1666	43	0.8
47304.8	10000	41.0285	92.2796	-913	QK	2.5	-1	7.4	0	1.1	-1	0.335	0	2.270	1	6.781	1	1673	48	0.8
47304.9	10000	41.0284	92.2787	-914	QK	2.4	-1	7.8	0	1.1	-1	0.310	-1	2.156	1	6.961	1	1700	48	0.8
47305.0	10000	41.0284	92.2778	-915	QK	2.4	-1	7.7	0	1.1	-1	0.313	-1	2.116	1	6.756	1	1709	43	0.8
47305.1	10000	41.0284	92.2769	-915	QK	2.5	-1	7.6	0	1.1	-1	0.323	-1	2.142	1	6.631	1	1722	43	0.8
47305.2	10000	41.0284	92.2760	-916	QK	2.4	-1	7.8	0	1.1	-1	0.301	-1	2.040	0	6.786	1	1729	34	0.8
47305.3	10000	41.0284	92.2752	-916	QK	2.2	-1	7.8	0	1.1	-1	0.281	-1	1.888	-1	6.708	1	1727	57	0.9
47305.4	10000	41.0283	92.2743	-916	QK	2.2	-1	7.7	0	1.1	-1	0.280	-1	1.881	-1	6.709	1	1728	44	0.9
47305.5	10000	41.0283	92.2734	-917	QK	2.4	-1	7.6	0	1.1	-1	0.316	0	2.094	0	6.619	1	1715	38	0.9
47305.6	10000	41.0283	92.2725	-919	QK	2.2	-1	7.5	0	1.1	-1	0.290	-1	1.946	-1	6.701	1	1710	45	0.9
47305.7	10000	41.0283	92.2716	-916	QK	2.2	-1	7.3	0	1.1	-1	0.297	-1	1.875	-1	6.317	0	1717	34	0.9
47305.8	10000	41.0283	92.2707	-917	QK	2.3	-1	7.2	0	1.1	-1	0.303	-1	1.879	-1	6.212	0	1709	45	0.9
47305.9	10000	41.0282	92.2698	-920	QK	2.3	-1	7.3	0	1.1	-1	0.327	0	2.021	-1	6.185	0	1706	34	0.9
47306.0	10000	41.0282	92.2689	-921	QK	2.2	-1	7.4	0	1.1	-1	0.311	-1	1.904	-1	6.132	0	1711	50	0.9
47306.1	10000	41.0282	92.2680	-922	QK	2.0	-1	7.8	0	1.1	-1	0.293	-1	1.752	-1	5.985	-1	1714	46	0.9
47306.2	10000	41.0282	92.2672	-923	QK	1.9	-1	7.8	0	1.1	-1	0.255	-1	1.620	-1	6.360	0	1721	34	0.9
47306.3	10000	41.0282	92.2663	-923	QK	1.8	-1	7.9	0	1.1	-2	0.229	-2	1.632	-1	6.336	0	1719	49	0.9
47306.4	10000	41.0282	92.2654	-924	QK	1.7	-2	8.2	0	1.1	-2	0.213	-2	1.543	-2	6.740	0	1715	46	0.9
47306.5	10000	41.0281	92.2645	-924	QK	1.7	-2	8.6	0	1.1	-2	0.197	-2	1.525	-2	7.169	1	1702	43	1.0
47306.6	10000	41.0281	92.2636	-925	QK	1.7	-2	8.5	0	1.1	-2	0.202	-2	1.486	-2	7.542	2	1681	45	1.0
47306.7	10000	41.0281	92.2627	-925	QK	1.8	-2	8.5	0	1.0	-1	0.207	-2	1.595	-1	7.879	2	1664	44	1.0
47306.8	10000	41.0281	92.2618	-926	QK									1.783	-1	8.604	3	1653	43	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47306.9	10000	41.0281	92.2609	-927	QK	1.8	-1	8.3	1	1.0	-1	0.222	-2	1.902	-1	8.563	3	1655	46	1.0
47307.0	10000	41.0280	92.2600	-928	QK	2.0	-1	8.1	1	0.9	-1	0.243	-1	2.080	0	8.567	3	1652	37	1.0
47307.1	10000	41.0280	92.2591	-929	QK	2.0	-1	7.9	1	0.9	-2	0.259	-1	2.180	0	8.406	3	1648	54	1.0
47307.2	10000	41.0280	92.2583	-929	QK	2.0	-1	8.0	1	1.0	-1	0.245	-1	2.005	-1	8.174	2	1664	35	1.0
47307.3	10000	41.0280	92.2574	-930	QK	2.0	-1	7.7	1	1.1	-1	0.254	-1	1.857	-1	7.319	1	1685	43	1.0
47307.4	10000	41.0280	92.2565	-931	QK	2.1	-1	7.8	1	1.0	-1	0.268	-1	2.005	-1	7.488	1	1712	50	1.0
47307.5	10000	41.0279	92.2556	-932	QK	2.3	-1	7.8	1	1.1	0	0.291	-1	2.085	0	7.170	1	1725	41	1.0
47307.6	10000	41.0279	92.2547	-934	QK	2.2	-1	7.7	1	1.1	0	0.281	-1	1.995	-1	7.089	1	1725	41	1.0
47307.7	10000	41.0279	92.2538	-936	QK	2.3	0	7.6	1	1.1	0	0.301	-1	2.065	0	6.868	1	1736	37	1.0
47307.8	10000	41.0279	92.2529	-937	QK	2.3	-1	7.9	1	1.1	0	0.287	-1	2.115	0	7.360	1	1741	45	1.0
47307.9	10000	41.0279	92.2520	-939	QK	2.5	0	8.0	1	1.1	0	0.310	-1	2.283	0	7.369	1	1742	34	1.0
47308.0	10000	41.0278	92.2511	-940	QK	2.5	0	8.3	1	1.1	-1	0.307	-1	2.397	0	7.802	2	1752	48	1.1
47308.1	10000	41.0278	92.2502	-942	QK	2.6	0	8.1	1	1.1	0	0.318	0	2.335	0	7.351	1	1749	45	1.1
47308.2	10000	41.0278	92.2494	-944	QK	2.5	0	8.0	1	1.1	0	0.315	0	2.276	0	7.219	1	1727	51	1.1
47308.3	10000	41.0278	92.2485	-946	QK	2.7	0	8.2	1	1.1	0	0.330	0	2.550	1	7.725	2	1701	46	1.1
47308.4	10000	41.0278	92.2476	-948	QK	2.6	0	7.8	1	1.0	-1	0.338	0	2.653	1	7.858	2	1662	37	1.1
47308.5	10000	41.0277	92.2467	-950	QK	2.7	0	7.6	1	1.0	-1	0.359	0	2.741	1	7.638	2	1644	33	1.1
47308.6	10000	41.0277	92.2458	-952	QK	2.6	0	7.6	1	0.9	-1	0.339	0	2.713	1	8.010	2	1624	47	1.1
47308.7	10000	41.0277	92.2449	-954	QK	2.5	0	7.3	1	1.0	-1	0.342	0	2.599	1	7.600	2	1602	60	1.1
47308.8	10000	41.0277	92.2440	-956	QK	2.4	0	7.4	1	0.9	-2	0.324	0	2.613	1	8.074	2	1593	38	1.1
47308.9	10000	41.0277	92.2431	-957	QK	2.4	0	7.2	1	1.0	-1	0.330	0	2.460	0	7.462	1	1610	51	1.1
47309.0	10000	41.0277	92.2422	-958	QK	2.5	0	6.9	1	1.0	-1	0.358	0	2.425	0	6.774	0	1649	47	1.1
47309.1	10000	41.0276	92.2413	-960	QK	2.5	0	7.2	1	1.1	-1	0.355	0	2.402	0	6.759	0	1680	41	1.1
47309.2	10000	41.0276	92.2405	-961	QK	2.5	0	7.2	1	1.0	-1	0.352	0	2.389	0	6.793	0	1698	39	1.1
47309.3	10000	41.0276	92.2396	-962	QK	2.5	0	6.8	-1	1.0	-1	0.359	0	2.388	0	6.649	0	1693	29	1.1
47309.4	10000	41.0276	92.2387	-963	QK	2.6	0	7.1	0	1.0	-1	0.360	0	2.554	1	7.101	1	1690	49	1.1
47309.5	10000	41.0276	92.2378	-965	QK	2.5	0	7.0	0	1.0	-1	0.353	0	2.449	0	6.944	1	1682	50	1.1
47309.6	10000	41.0275	92.2369	-968	QK	2.5	0	7.4	0	1.0	-1	0.343	0	2.484	0	7.243	1	1675	42	1.1
47309.7	10000	41.0275	92.2360	-969	QK	2.3	0	7.3	0	1.0	-1	0.318	0	2.237	0	7.042	1	1664	43	1.1
47309.8	10000	41.0275	92.2351	-970	QK	2.0	-1	7.3	0	1.1	-1	0.280	-1	1.933	-1	6.892	1	1680	37	1.1
47309.9	10000	41.0275	92.2342	-971	QK	1.9	-1	7.4	0	1.1	-1	0.255	-1	1.762	-1	6.895	1	1678	44	1.1
47310.0	10000	41.0275	92.2334	-973	QK	1.8	-1	7.1	0	1.1	-1	0.254	-1	1.622	-1	6.375	0	1710	41	1.1
47310.1	10000	41.0274	92.2325	-974	QK	2.0	-1	6.8	-1	1.1	-1	0.290	-1	1.730	-1	5.975	-1	1732	48	1.2
47310.2	10000	41.0274	92.2316	-976	QK	1.9	-1	6.8	-1	1.1	-1	0.286	-1	1.696	-1	5.937	-1	1748	33	1.2
47310.3	10000	41.0274	92.2307	-977	QK	1.9	-1	6.8	-1	1.1	-1	0.287	-1	1.826	-1	6.353	-1	1750	43	1.2
47310.4	10000	41.0274	92.2298	-979	QK	2.1	-1	7.1	0	1.1	-1	0.302	-1	2.015	-1	6.662	0	1767	39	1.2
47310.5	10000	41.0274	92.2289	-981	QK	2.1	-1	7.6	0	1.1	-1	0.282	-1	2.059	0	7.299	1	1765	48	1.2
47310.6	10000	41.0273	92.2280	-982	QK	2.3	-1	7.6	1	1.1	-1	0.300	-1	2.165	0	7.222	1	1775	44	1.2
47310.7	10000	41.0273	92.2271	-984	QK	2.5	0	8.0	1	1.1	0	0.307	-1	2.309	0	7.521	1	1785	34	1.2
47310.8	10000	41.0273	92.2262	-985	QK	2.3	0	8.1	1	1.1	0	0.280	-1	2.091	0	7.467	1	1769	42	1.2
47310.9	10000	41.0273	92.2253	-985	QK	2.3	0	8.2	1	1.1	0	0.283	-1	2.096	0	7.403	1	1766	41	1.2
47311.0	10000	41.0273	92.2245	-987	QK	2.2	-1	8.7	2	1.2	0	0.246	-1	1.865	-1	7.572	2	1771	44	1.2
47311.1	10000	41.0273	92.2236	-988	QK	2.1	-1	8.6	2	1.2	0	0.240	-2	1.836	-1	7.659	2	1747	54	1.2
47311.2	10000	41.0272	92.2227	-989	QK	2.2	-1	8.1	1	1.2	0	0.266	-1	1.880	-1	7.073	1	1746	45	1.2
47311.3	10000	41.0272	92.2218	-991	QK	2.1	-1	8.2	1	1.1	0	0.258	-1	1.872	-1	7.243	1	1730	46	1.2
47311.4	10000	41.0272	92.2209	-991	QK	2.3	0	8.2	1	1.1	0	0.282	-1	2.132	0	7.563	2	1707	44	1.2
47311.5	10000	41.0272	92.2200	-992	QK	2.3	0	7.6	1	1.0	-1	0.282	-1	2.218	0	7.858	2	1705	49	1.2
47311.6	10000	41.0271	92.2191	-993	QK	2.5	0	7.4	1	1.0	-1	0.329	0	2.496	1	7.584	2	1692	37	1.2
47311.7	10000	41.0271	92.2182	-994	QK	2.7	0	7.2	1	1.0	-1	0.368	0	2.718	1	7.393	1	1686	39	1.2
47311.8	10000	41.0271	92.2173	-994	QK	2.7	0	7.2	1	1.0	-1	0.375	0	2.582	1	6.891	1	1702	50	1.2
47311.9	10000	41.0271	92.2164	-995	QK	2.7	0	7.2	1	1.0	-1	0.379	0	2.709	1	7.154	1	1691	36	1.2
47312.0	10000	41.0271	92.2156	-995	QK	2.6	0	7.1	0	1.0	-1	0.361	0	2.579	1	7.139	1	1682	40	1.2

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47312.1	10000	41.0271	92.2147	-995	QK	2.3	0	7.0	0	1.0	-1	0.329	0	2.287	0	6.953	1	1659	37	1.2
47312.2	10000	41.0270	92.2138	-994	QK	2.4	0	7.0	0	1.1	0	0.342	0	2.222	0	6.494	0	1666	42	1.2
47312.3	10000	41.0270	92.2129	-993	QK	2.2	-1	7.4	0	1.1	0	0.296	-1	1.951	-1	6.603	0	1683	46	1.2
47312.4	10000	41.0270	92.2120	-992	QK	2.1	-1	7.2	0	1.2	0	0.291	-1	1.797	-1	6.175	0	1684	39	1.2
47312.5	10000	41.0270	92.2111	-993	QK	2.0	-1	7.7	1	1.1	0	0.265	-1	1.780	-1	6.723	0	1694	30	1.2
47312.6	10000	41.0270	92.2102	-993	QK	2.2	-1	7.7	1	1.2	0	0.287	-1	1.916	-1	6.668	0	1708	40	1.2
47312.7	10000	41.0269	92.2093	-993	QK	2.6	0	7.9	1	1.2	1	0.325	0	2.140	0	6.581	0	1735	43	1.2
47312.8	10000	41.0269	92.2084	-993	QK	2.5	0	8.0	1	1.2	1	0.317	0	2.111	0	6.650	0	1774	45	1.2
47312.9	10000	41.0269	92.2076	-993	QK	2.5	0	8.3	1	1.1	0	0.296	-1	2.156	0	7.276	1	1782	52	1.2
47313.0	10000	41.0269	92.2067	-992	QK	2.6	0	8.5	2	1.2	0	0.306	-1	2.208	0	7.225	1	1795	39	1.2
47313.1	10000	41.0269	92.2058	-992	QK	2.5	0	8.5	2	1.2	0	0.292	-1	2.164	0	7.405	1	1811	43	1.2
47313.2	10000	41.0268	92.2049	-992	QK	2.4	-1	8.0	1	1.2	0	0.303	-1	2.079	0	6.870	1	1793	35	1.2
47313.3	10000	41.0268	92.2040	-991	QK	2.3	-1	8.2	1	1.2	1	0.275	-1	1.895	-1	6.897	1	1804	42	1.2
47313.4	10000	41.0268	92.2031	-990	QK	2.2	-1	8.1	1	1.2	1	0.270	-1	1.782	-1	6.602	0	1817	32	1.2
47313.5	10000	41.0268	92.2022	-990	QK	2.2	-1	7.9	1	1.3	1	0.278	-1	1.749	-1	6.283	0	1817	53	1.2
47313.6	10000	41.0268	92.2013	-989	QK	2.2	-1	7.9	1	1.3	1	0.284	-1	1.747	-1	6.159	0	1824	51	1.2
47313.7	10000	41.0267	92.2004	-987	QK	2.4	0	8.0	1	1.3	1	0.297	-1	1.888	-1	6.363	0	1823	54	1.2
47313.8	10000	41.0267	92.1996	-986	QK	2.6	0	7.7	1	1.2	1	0.337	0	2.069	0	6.138	0	1812	39	1.2
47313.9	10000	41.0267	92.1987	-984	QK	2.6	0	7.8	1	1.3	1	0.326	0	1.972	-1	6.049	-1	1822	49	1.2
47314.0	10000	41.0267	92.1978	-982	QK	2.6	0	7.4	0	1.2	1	0.354	0	2.071	0	5.849	-1	1802	55	1.2
47314.1	10000	41.0267	92.1969	-979	QK	2.6	0	7.2	0	1.2	1	0.357	0	2.154	0	6.027	-1	1771	45	1.2
47314.2	10000	41.0267	92.1961	-976	QK	2.6	0	7.0	0	1.1	1	0.373	0	2.315	0	6.202	0	1753	47	1.2
47314.3	10000	41.0266	92.1952	-973	QK	2.3	0	7.3	0	1.1	0	0.323	0	2.122	0	6.569	0	1732	38	1.2
47314.4	10000	41.0266	92.1944	-969	QK	2.0	-1	7.5	0	1.1	0	0.268	-1	1.845	-1	6.896	1	1707	52	1.2
47314.5	10000	41.0266	92.1935	-965	QK	1.7	-2	7.6	1	1.1	0	0.218	-2	1.485	-2	6.809	0	1696	36	1.2
47314.6	10000	41.0266	92.1926	-959	QK	1.5	-2	8.1	1	1.1	0	0.187	-2	1.399	-2	7.478	1	1676	35	1.2
47314.7	10000	41.0266	92.1918	-954	QK	1.3	-2	8.5	2	1.1	0	0.150	-3	1.172	-2	7.802	2	1678	26	1.2
47314.8	10000	41.0266	92.1909	-948	QK	1.3	-2	8.9	2	1.1	0	0.151	-3	1.203	-2	7.971	2	1697	28	1.2
47314.9	10000	41.0266	92.1900	-941	QK	1.3	-2	9.1	2	1.2	0	0.140	-3	1.099	-2	7.863	2	1708	47	1.1
47315.0	10000	41.0266	92.1892	-934	QK	1.5	-2	8.7	2	1.2	1	0.168	-3	1.228	-2	7.290	1	1725	53	1.1
47315.1	10000	41.0266	92.1883	-926	QK	1.7	-2	8.2	1	1.2	1	0.212	-2	1.442	-2	6.797	0	1749	41	1.1
47315.2	10000	41.0265	92.1875	-918	QK	1.9	-1	7.7	1	1.2	1	0.239	-2	1.614	-1	6.767	0	1757	54	1.1
47315.3	10000	41.0265	92.1866	-909	QK	2.1	0	7.5	1	1.2	1	0.274	-1	1.765	-1	6.433	0	1772	33	1.1
47315.4	10000	41.0265	92.1858	-900	QK	2.4	0	7.5	1	1.2	1	0.315	-1	1.966	-1	6.248	0	1775	42	1.1
47315.5	10000	41.0265	92.1849	-892	QK	2.3	0	7.7	1	1.2	1	0.305	-1	1.908	-1	6.256	0	1770	55	1.1
47315.6	10000	41.0265	92.1840	-883	QK	2.2	0	7.7	1	1.2	1	0.289	-1	1.851	-1	6.415	0	1777	57	1.1
47315.7	10000	41.0265	92.1832	-875	QK	2.5	0	8.0	1	1.2	1	0.313	-1	2.161	0	6.906	1	1784	47	1.1
47315.8	10000	41.0265	92.1823	-867	QK	2.6	0	7.9	1	1.1	1	0.322	0	2.315	0	7.184	1	1756	40	1.1
47315.9	10000	41.0264	92.1815	-859	QK	2.6	0	8.0	1	1.1	1	0.330	0	2.426	0	7.363	1	1747	43	1.1
47316.0	10000	41.0264	92.1806	-851	QK	2.6	0	7.7	1	1.0	1	0.338	0	2.565	0	7.579	2	1730	38	1.1
47316.1	10000	41.0264	92.1797	-844	QK	2.4	0	7.7	1	1.0	-1	0.315	-1	2.373	0	7.541	2	1719	31	1.1
47316.2	10000	41.0264	92.1789	-837	QK	2.4	0	7.9	1	1.0	-1	0.311	-1	2.389	0	7.694	2	1701	39	1.1
47316.3	10000	41.0264	92.1780	-831	QK	2.7	0	7.7	1	1.0	-1	0.353	0	2.666	0	7.558	2	1678	38	1.1
47316.4	10000	41.0264	92.1772	-826	QK	2.3	-1	7.1	1	1.0	-1	0.318	0	2.248	0	7.067	1	1642	40	1.1
47316.5	10000	41.0264	92.1763	-821	QK	2.1	-1	7.1	1	1.0	-1	0.297	-1	2.070	0	6.974	1	1634	43	1.1
47316.6	10000	41.0263	92.1754	-817	QK	2.0	-1	7.1	1	1.0	-1	0.288	-1	2.055	0	7.148	1	1603	52	1.1
47316.7	10000	41.0263	92.1746	-813	QK	1.9	-1	7.4	1	1.1	-1	0.257	-1	1.798	-1	7.004	1	1589	45	1.1
47316.8	10000	41.0263	92.1737	-808	QK	2.0	-1	7.4	1	1.0	-1	0.269	-1	1.908	-1	7.080	1	1579	34	1.1
47316.9	10000	41.0263	92.1729	-805	QK	2.2	-1	7.1	1	1.0	-1	0.305	-1	2.166	0	7.093	1	1571	42	1.1
47317.0	10000	41.0263	92.1720	-801	QK	2.0	-1	7.0	1	1.0	-1	0.283	-1	2.042	0	7.229	1	1549	44	1.1
47317.1	10000	41.0263	92.1711	-799	QK	2.3	-1	6.7	-1	1.0	-1	0.337	0	2.343	0	6.956	1	1546	41	1.1
47317.2	10000	41.0263	92.1703	-794	QK	2.4	0	6.7	-1	1.0	-1	0.352	0	2.433	0	6.902	1	1532	53	1.1

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47317.3	10000	41.0263	92.1694	-791	QK	2.3	0	6.7	-1	1.0	-1	0.347	0	2.335	0	6.731	0	1564	34	1.1
47317.4	10000	41.0262	92.1685	-787	QK	2.6	0	6.8	-1	0.9	-1	0.376	0	2.707	1	7.202	1	1580	46	1.1
47317.5	10000	41.0262	92.1677	-783	QK	2.6	0	7.0	0	0.9	-2	0.379	0	2.869	1	7.575	2	1590	50	1.1
47317.6	10000	41.0262	92.1668	-779	QK	2.6	0	6.9	0	1.0	-1	0.377	0	2.651	1	7.026	1	1602	42	1.1
47317.7	10000	41.0262	92.1660	-774	QK	2.6	0	6.8	-1	1.0	-1	0.391	1	2.676	1	6.843	1	1595	39	1.1
47317.8	10000	41.0262	92.1651	-770	QK	2.3	0	6.9	0	1.0	-1	0.332	0	2.385	0	7.178	1	1568	24	1.1
47317.9	10000	41.0262	92.1642	-767	QK	2.1	-1	6.8	-1	0.9	-2	0.309	-1	2.267	0	7.334	1	1537	43	1.1
47318.0	10000	41.0262	92.1634	-762	QK	2.0	-1	6.4	-1	0.9	-2	0.320	0	2.311	0	7.228	1	1485	40	1.1
47318.1	10000	41.0262	92.1625	-760	QK	1.9	-1	6.0	-2	0.9	-2	0.318	0	2.142	0	6.739	0	1446	46	1.1
47318.2	10000	41.0261	92.1617	-756	QK	1.6	-2	5.6	-2	0.9	-2	0.292	-1	1.864	-1	6.378	0	1380	33	1.1
47318.3	10000	41.0261	92.1608	-752	QK	1.4	-2	5.4	-3	0.8	-3	0.260	-1	1.707	-1	6.566	0	1324	45	1.1
47318.4	10000	41.0261	92.1600	-748	QK	1.4	-2	5.8	-2	0.8	-3	0.240	-2	1.771	-1	7.373	1	1319	55	1.1
47318.5	10000	41.0261	92.1591	-745	QK	1.4	-2	5.5	-2	0.8	-3	0.262	-1	1.836	-1	7.001	1	1322	32	1.1
47318.6	10000	41.0261	92.1582	-740	QK	1.5	-2	5.6	-2	0.8	-3	0.277	-1	1.911	-1	6.905	1	1342	47	1.1
47318.7	10000	41.0261	92.1574	-737	QK	1.7	-2	5.9	-2	0.8	-2	0.285	-1	1.997	-1	7.014	1	1359	54	1.1
47318.8	10000	41.0261	92.1565	-733	QK	1.8	-1	5.6	-2	0.8	-2	0.324	0	2.173	0	6.696	0	1355	41	1.1
47318.9	10000	41.0261	92.1557	-729	QK	1.9	-1	5.4	-2	0.9	-2	0.344	0	2.271	0	6.593	0	1380	33	1.1
47319.0	10000	41.0260	92.1548	-726	QK	2.0	-1	5.4	-2	0.9	-2	0.369	0	2.304	0	6.240	0	1423	39	1.1
47319.1	10000	41.0260	92.1539	-722	QK	2.0	-1	4.8	-3	0.9	-2	0.423	1	2.250	0	5.317	-2	1445	51	1.1
47319.2	10000	41.0260	92.1531	-719	QK	2.2	-1	5.0	-3	1.0	-1	0.435	1	2.304	0	5.294	-2	1468	42	1.1
47319.3	10000	41.0260	92.1522	-715	QK	2.1	-1	5.3	-2	1.0	-1	0.395	1	2.149	0	5.440	-1	1489	43	1.1
47319.4	10000	41.0260	92.1514	-711	QK	2.2	-1	5.5	-2	1.0	-1	0.401	1	2.185	0	5.443	-1	1499	47	1.1
47319.5	10000	41.0260	92.1505	-706	QK	2.1	-1	5.7	-2	1.0	-1	0.369	0	2.064	0	5.595	-1	1518	44	1.1
47319.6	10000	41.0260	92.1496	-702	QK	2.1	-1	6.2	-1	1.0	-1	0.345	0	2.071	0	5.996	-1	1533	47	1.1
47319.7	10000	41.0259	92.1488	-699	QK	2.3	0	6.1	-2	1.0	-1	0.381	0	2.293	0	6.017	-1	1535	53	1.1
47319.8	10000	41.0259	92.1479	-697	QK	2.4	0	6.7	-1	1.1	-1	0.362	0	2.305	0	6.361	0	1553	57	1.1
47319.9	10000	41.0259	92.1470	-693	QK	2.4	0	6.9	0	1.0	0	0.355	0	2.330	0	6.564	0	1563	42	1.1
47320.0	10000	41.0259	92.1462	-690	QK	2.4	0	7.1	0	1.1	0	0.339	0	2.248	0	6.623	0	1583	36	1.1
47320.1	10000	41.0259	92.1453	-686	QK	2.3	0	7.5	0	1.1	0	0.310	-1	2.187	0	7.062	1	1603	39	1.1
47320.2	10000	41.0259	92.1445	-683	QK	2.3	-1	7.5	0	1.1	0	0.299	-1	2.104	0	7.033	1	1604	44	1.1
47320.3	10000	41.0259	92.1436	-679	QK	2.2	-1	7.0	0	1.1	0	0.319	0	2.075	0	6.495	1	1591	29	1.1
47320.4	10000	41.0258	92.1427	-675	QK	2.0	-1	7.2	0	1.1	0	0.278	-1	1.841	-1	6.620	1	1565	44	1.1
47320.5	10000	41.0258	92.1419	-672	QAL	1.9	-1	7.1	0	1.0	0	0.263	-1	1.854	-1	7.051	1	1524	39	1.1
47320.6	10000	41.0258	92.1410	-669	QAL	1.9	-1	7.0	0	1.0	0	0.266	-1	1.887	-1	7.106	1	1499	48	1.0
47320.7	10000	41.0258	92.1402	-666	QAL	2.1	-1	6.5	1	0.9	-1	0.327	-1	2.328	0	7.119	1	1469	53	1.0
47320.8	10000	41.0258	92.1393	-663	QAL	2.0	-1	6.2	0	0.9	-1	0.329	-1	2.379	0	7.238	1	1447	44	1.0
47320.9	10000	41.0258	92.1384	-660	QAL	2.1	-1	6.2	0	0.9	-1	0.330	-1	2.389	0	7.247	1	1453	43	1.0
47321.0	10000	41.0258	92.1376	-657	QAL	2.0	-1	6.6	0	0.8	-2	0.305	-1	2.403	0	7.882	2	1470	34	1.0
47321.1	10000	41.0258	92.1367	-654	QAL	2.2	0	6.6	0	0.9	-1	0.337	0	2.550	0	7.571	1	1503	36	1.0
47321.2	10000	41.0257	92.1359	-652	QAL	2.4	0	6.7	0	0.9	-1	0.364	0	2.657	1	7.292	1	1540	40	1.0
47321.3	10000	41.0257	92.1350	-649	QAL	2.4	0	6.5	0	0.9	-1	0.371	0	2.594	1	6.994	1	1591	43	1.0
47321.4	10000	41.0257	92.1342	-648	QAL	2.4	0	6.4	0	1.0	-1	0.378	0	2.480	1	6.567	1	1622	43	1.0
47321.5	10000	41.0257	92.1333	-646	QAL	2.6	0	6.5	0	1.1	0	0.395	0	2.427	1	6.148	1	1656	48	1.0
47321.6	10000	41.0257	92.1324	-645	QAL	2.6	0	6.7	0	1.1	0	0.393	0	2.422	1	6.164	1	1665	56	1.0
47321.7	10000	41.0257	92.1316	-645	QAL	2.8	0	6.4	1	1.1	0	0.433	0	2.584	1	5.970	1	1679	41	1.0
47321.8	10000	41.0257	92.1307	-644	QAL	2.5	0	6.6	0	1.1	0	0.377	0	2.278	1	6.042	1	1669	43	1.0
47321.9	10000	41.0257	92.1299	-645	QAL	2.4	0	6.5	0	1.1	0	0.369	0	2.150	0	5.828	1	1656	51	1.0
47322.0	10000	41.0256	92.1290	-646	QAL	2.5	0	6.5	0	1.1	0	0.385	0	2.313	0	6.013	1	1606	39	1.0
47322.1	10000	41.0256	92.1281	-647	QAL	2.1	-1	6.6	0	1.1	0	0.323	-1	2.015	-1	6.243	1	1591	47	1.0
47322.2	10000	41.0256	92.1273	-649	QAL	2.0	-1	6.5	0	1.0	0	0.301	-1	1.921	-1	6.382	1	1568	54	1.0
47322.3	10000	41.0256	92.1264	-653	QAL	2.0	-1	6.2	0	1.0	0	0.326	-1	1.968	-1	6.030	1	1569	45	1.0
47322.4	10000	41.0256	92.1255	-655	QAL	1.8	-1	6.6	0	1.1	0	0.274	-1	1.720	-1	6.286	0	1562	51	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47322.5	10000	41.0256	92.1247	-658	QAL	1.8	-1	6.6	0	1.0	0	0.279	-1	1.758	-1	6.303	0	1564	46	1.0
47322.6	10000	41.0256	92.1238	-662	QAL	1.7	-1	6.7	0	1.1	0	0.253	-1	1.605	-1	6.335	0	1568	36	1.0
47322.7	10000	41.0256	92.1230	-666	QAL	1.6	-2	6.8	0	1.1	0	0.233	-2	1.453	-2	6.226	0	1582	45	1.0
47322.8	10000	41.0255	92.1221	-670	QAL	1.7	-1	6.7	0	1.1	0	0.255	-1	1.522	-1	5.971	0	1588	44	1.0
47322.9	10000	41.0255	92.1212	-673	QAL	1.8	-1	6.4	0	1.1	0	0.285	-1	1.598	-1	5.599	-1	1603	44	1.0
47323.0	10000	41.0255	92.1204	-674	QAL	1.9	-1	6.9	0	1.1	0	0.280	-1	1.682	-1	6.012	0	1635	49	1.0
47323.1	10000	41.0255	92.1195	-675	QK	2.2	-1	6.5	-1	1.2	1	0.329	0	1.823	-1	5.533	-1	1651	41	1.0
47323.2	10000	41.0255	92.1187	-684	QK	2.2	-1	6.6	-1	1.2	1	0.340	0	1.838	-1	5.411	-2	1698	41	1.0
47323.3	10000	41.0255	92.1178	-691	QK	2.4	0	6.6	-1	1.2	1	0.364	0	1.930	-1	5.294	-2	1733	54	1.0
47323.4	10000	41.0255	92.1169	-696	QK	2.6	0	6.9	0	1.3	1	0.368	0	1.994	-1	5.411	-2	1766	45	1.0
47323.5	10000	41.0254	92.1161	-701	QK	2.8	1	7.0	0	1.3	1	0.407	1	2.260	0	5.554	-1	1789	38	1.0
47323.6	10000	41.0254	92.1152	-705	QK	2.9	1	7.3	0	1.2	1	0.403	1	2.362	0	5.867	-1	1810	41	1.0
47323.7	10000	41.0254	92.1144	-709	QK	2.9	1	7.0	0	1.3	1	0.411	1	2.293	0	5.578	-1	1798	43	1.0
47323.8	10000	41.0254	92.1135	-713	QK	2.8	1	7.2	0	1.2	1	0.397	1	2.308	0	5.821	-1	1802	49	1.0
47323.9	10000	41.0254	92.1126	-717	QK	3.0	1	7.4	0	1.2	1	0.402	1	2.527	1	6.279	0	1785	48	1.0
47324.0	10000	41.0254	92.1118	-720	QK	2.9	1	7.3	0	1.1	0	0.394	1	2.556	1	6.482	0	1762	44	1.0
47324.1	10000	41.0254	92.1109	-724	QK	2.9	1	7.4	0	1.1	0	0.386	0	2.514	1	6.519	0	1752	37	1.0
47324.2	10000	41.0253	92.1101	-727	QK	2.6	0	7.7	1	1.1	0	0.337	0	2.270	0	6.731	0	1739	44	1.0
47324.3	10000	41.0253	92.1092	-731	QK	2.4	0	7.6	0	1.2	0	0.316	0	2.047	0	6.487	0	1725	38	1.0
47324.4	10000	41.0253	92.1083	-733	QK	2.3	-1	7.9	1	1.2	0	0.285	-1	1.931	-1	6.770	0	1726	44	1.0
47324.5	10000	41.0253	92.1075	-737	QK	2.2	-1	7.9	1	1.2	0	0.277	-1	1.855	-1	6.691	0	1725	46	1.0
47324.6	10000	41.0253	92.1066	-740	QK	2.1	-1	7.7	1	1.2	1	0.267	-1	1.676	-1	6.287	0	1731	45	1.0
47324.7	10000	41.0253	92.1058	-742	QK	2.0	-1	7.8	1	1.2	1	0.254	-1	1.615	-1	6.356	0	1736	36	1.0
47324.8	10000	41.0253	92.1049	-745	QK	2.1	-1	7.6	1	1.2	0	0.269	-1	1.743	-1	6.467	0	1738	48	1.0
47324.9	10000	41.0253	92.1040	-748	QK	2.1	-1	7.6	1	1.2	1	0.283	-1	1.769	-1	6.255	0	1742	42	1.0
47325.0	10000	41.0252	92.1032	-751	QK	2.3	-1	7.7	1	1.2	1	0.296	-1	1.874	-1	6.326	0	1749	40	1.0
47325.1	10000	41.0252	92.1023	-753	QK	2.2	-1	7.7	1	1.2	1	0.287	-1	1.813	-1	6.320	0	1756	37	1.0
47325.2	10000	41.0252	92.1015	-755	QK	2.3	-1	7.7	1	1.2	1	0.302	-1	1.870	-1	6.186	0	1771	51	1.0
47325.3	10000	41.0252	92.1006	-757	QK	2.2	-1	7.8	1	1.2	1	0.274	-1	1.776	-1	6.485	0	1757	49	1.0
47325.4	10000	41.0252	92.0997	-760	QK	2.4	-1	8.0	1	1.3	1	0.300	-1	1.936	-1	6.448	0	1757	39	1.0
47325.5	10000	41.0252	92.0989	-762	QK	2.2	-1	8.1	1	1.3	1	0.271	-1	1.748	-1	6.460	0	1756	58	1.0
47325.6	10000	41.0252	92.0980	-764	QK	2.3	-1	8.2	1	1.2	1	0.276	-1	1.919	-1	6.949	1	1754	42	1.0
47325.7	10000	41.0251	92.0972	-767	QK	2.5	-1	8.3	1	1.2	1	0.303	-1	2.103	0	6.936	1	1761	37	1.0
47325.8	10000	41.0251	92.0963	-768	QK	2.7	-1	8.3	1	1.1	1	0.326	0	2.449	0	7.506	1	1760	49	1.0
47325.9	10000	41.0251	92.0954	-770	QK	2.5	-1	8.4	1	1.1	0	0.299	-1	2.264	0	7.572	2	1738	51	1.0
47326.0	10000	41.0251	92.0946	-772	QK	2.7	-1	8.2	1	1.1	0	0.335	0	2.477	0	7.403	1	1735	58	1.0
47326.1	10000	41.0251	92.0937	-774	QK	2.3	-1	8.0	1	1.1	0	0.292	-1	2.097	0	7.192	1	1740	53	1.0
47326.2	10000	41.0251	92.0929	-775	QK	2.5	-1	7.6	1	1.1	0	0.337	0	2.233	0	6.634	1	1729	54	1.0
47326.3	10000	41.0251	92.0920	-777	QK	2.3	-1	7.2	1	1.2	0	0.321	-1	1.916	-1	5.962	-1	1727	41	1.0
47326.4	10000	41.0250	92.0911	-779	QK	2.2	-1	7.2	1	1.2	0	0.302	-1	1.833	-1	6.071	-1	1717	40	1.0
47326.5	10000	41.0250	92.0903	-780	QK	2.1	-1	7.0	1	1.2	0	0.303	-1	1.724	-1	5.696	-1	1707	41	1.0
47326.6	10000	41.0250	92.0894	-782	QK	2.0	-1	6.7	1	1.2	0	0.295	-1	1.690	-1	5.730	-1	1700	47	1.0
47326.7	10000	41.0250	92.0886	-784	QK	2.2	-1	7.1	1	1.2	0	0.297	-1	1.632	-1	5.496	-1	1694	45	1.0
47326.8	10000	41.0250	92.0877	-785	QK	2.1	-1	7.2	1	1.2	0	0.308	-1	1.771	-1	5.751	-1	1683	40	1.0
47326.9	10000	41.0250	92.0868	-786	QK	2.1	-1	7.5	1	1.2	0	0.291	-1	1.749	-1	6.003	-1	1688	34	1.0
47327.0	10000	41.0250	92.0860	-788	QK	2.1	-1	7.6	1	1.2	0	0.284	-1	1.798	-1	6.342	0	1694	43	1.0
47327.1	10000	41.0249	92.0851	-790	QK	1.9	-1	7.7	1	1.2	0	0.256	-1	1.643	-1	6.425	0	1699	38	1.0
47327.2	10000	41.0249	92.0843	-791	QK	2.1	-1	7.7	1	1.2	0	0.275	-1	1.774	-1	6.443	0	1700	37	1.0
47327.3	10000	41.0249	92.0834	-793	QK	2.3	-1	7.9	1	1.2	0	0.297	-1	2.039	0	6.856	0	1722	52	1.0
47327.4	10000	41.0249	92.0825	-794	QK	2.4	-1	7.9	1	1.1	0	0.303	-1	2.090	0	6.897	1	1726	33	1.0
47327.5	10000	41.0249	92.0817	-795	QK	2.5	-1	7.3	1	1.1	0	0.343	0	2.218	0	6.469	1	1738	50	1.0
47327.6	10000	41.0249	92.0808	-796	QK	2.4	0	7.4	1	1.2	0	0.324	0	2.052	0	6.343	0	1743	41	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47327.7	10000	41.0249	92.0800	-797	QK	2.5	0	7.1	0	1.2	0	0.357	0	2.154	0	6.042	-1	1747	49	1.0
47327.8	10000	41.0248	92.0791	-797	QK	2.5	0	7.0	0	1.2	0	0.365	0	2.203	0	6.038	-1	1734	38	1.0
47327.9	10000	41.0248	92.0782	-797	QK	2.4	0	6.8	-1	1.2	0	0.355	0	2.103	0	5.917	-1	1743	37	1.0
47328.0	10000	41.0248	92.0774	-798	QK	2.4	0	6.6	-1	1.2	1	0.355	0	1.959	-1	5.516	-1	1738	42	1.0
47328.1	10000	41.0248	92.0765	-798	QK	2.4	0	6.5	-1	1.2	1	0.368	0	1.971	-1	5.360	-2	1740	45	1.0
47328.2	10000	41.0248	92.0757	-798	QK	2.4	0	7.1	0	1.2	1	0.343	0	1.973	-1	5.756	-1	1745	38	1.0
47328.3	10000	41.0248	92.0748	-798	QK	2.6	0	6.8	-1	1.2	1	0.382	0	2.171	0	5.691	-1	1753	37	1.1
47328.4	10000	41.0248	92.0740	-797	QK	2.4	0	6.7	-1	1.2	1	0.363	0	2.012	-1	5.545	-1	1758	47	1.1
47328.5	10000	41.0248	92.0731	-796	QK	2.6	0	6.4	-1	1.2	1	0.406	1	2.173	0	5.348	-2	1770	36	1.1
47328.6	10000	41.0248	92.0723	-794	QK	2.5	0	6.6	-1	1.2	1	0.371	0	2.049	0	5.530	-1	1754	35	1.1
47328.7	10000	41.0248	92.0714	-792	QK	2.5	0	6.8	-1	1.1	0	0.363	0	2.149	0	5.920	-1	1752	52	1.1
47328.8	10000	41.0248	92.0705	-789	QK	2.5	0	7.0	0	1.1	0	0.353	0	2.256	0	6.385	0	1732	47	1.1
47328.9	10000	41.0248	92.0697	-786	QK	2.3	0	6.8	-1	1.1	0	0.339	0	2.150	0	6.340	0	1704	50	1.1
47329.0	10000	41.0248	92.0688	-782	QK	2.2	-1	7.4	0	1.0	-1	0.295	-1	2.115	0	7.169	1	1675	49	1.1
47329.1	10000	41.0249	92.0680	-778	QK	2.3	-1	7.3	0	1.0	-1	0.311	-1	2.356	0	7.579	2	1646	40	1.1
47329.2	10000	41.0249	92.0671	-774	QK	2.2	-1	7.8	1	1.0	-1	0.280	-1	2.226	0	7.954	2	1631	49	1.1
47329.3	10000	41.0249	92.0663	-768	QK	2.4	0	7.6	1	1.0	-1	0.322	0	2.530	1	7.853	2	1637	57	1.1
47329.4	10000	41.0249	92.0654	-762	QK	2.5	0	7.4	0	1.0	-1	0.340	0	2.542	1	7.473	1	1632	34	1.1
47329.5	10000	41.0249	92.0646	-755	QK	2.6	0	7.4	0	1.0	-1	0.348	0	2.506	1	7.205	1	1654	52	1.1
47329.6	10000	41.0249	92.0637	-748	QK	2.7	0	6.9	0	1.1	-1	0.392	1	2.553	1	6.516	0	1679	43	1.1
47329.7	10000	41.0249	92.0629	-739	QK	2.8	1	6.5	-1	1.1	0	0.426	1	2.502	0	5.879	-1	1699	47	1.1
47329.8	10000	41.0249	92.0620	-730	QK	2.8	0	6.7	-1	1.1	0	0.413	1	2.420	0	5.853	-1	1705	44	1.1
47329.9	10000	41.0249	92.0611	-720	QK	2.6	0	6.2	-1	1.1	0	0.416	1	2.316	0	5.561	-1	1679	50	1.1
47330.0	10000	41.0249	92.0603	-710	QK	2.5	0	6.2	-1	1.1	0	0.401	1	2.275	0	5.671	-1	1650	53	1.1
47330.1	10000	41.0249	92.0594	-698	QK	2.4	0	6.3	-1	1.0	-1	0.379	0	2.304	0	6.076	-1	1623	40	1.1
47330.2	10000	41.0249	92.0586	-687	QK	2.4	0	6.1	-2	1.0	-1	0.387	0	2.386	0	6.169	0	1588	47	1.1
47330.3	10000	41.0249	92.0577	-675	QK	2.2	-1	6.2	-1	1.0	-1	0.363	0	2.267	0	6.240	0	1552	43	1.1
47330.4	10000	41.0249	92.0569	-663	QK	2.1	-1	6.1	-2	0.9	-2	0.344	0	2.243	0	6.510	0	1535	52	1.1
47330.5	10000	41.0249	92.0560	-650	QK	2.2	-1	6.0	-2	0.9	-2	0.372	0	2.405	0	6.464	0	1534	43	1.1
47330.6	10000	41.0249	92.0552	-638	QK	2.5	0	6.3	-1	0.9	-2	0.399	1	2.799	1	7.018	1	1567	43	1.1
47330.7	10000	41.0249	92.0543	-625	QK	2.5	0	6.4	-1	0.9	-2	0.390	1	2.706	1	6.945	1	1582	64	1.1
47330.8	10000	41.0249	92.0535	-613	QK	2.5	0	6.4	-1	1.0	-1	0.388	1	2.490	0	6.412	0	1608	42	1.1
47330.9	10000	41.0249	92.0526	-600	QK	2.4	0	6.6	-1	1.0	-1	0.362	0	2.388	0	6.605	0	1631	42	1.1
47331.0	10000	41.0249	92.0517	-588	QK	2.6	0	6.7	-1	0.9	-1	0.379	1	2.688	1	7.090	1	1656	42	1.1
47331.1	10000	41.0249	92.0509	-575	QK	2.7	0	6.7	-1	1.0	-1	0.403	1	2.674	1	6.632	0	1670	47	1.1
47331.2	10000	41.0249	92.0500	-563	QK	2.5	0	7.0	0	1.0	-1	0.356	0	2.451	0	6.889	0	1680	32	1.1
47331.3	10000	41.0249	92.0492	-551	QK	2.3	-1	7.3	0	1.1	0	0.310	-1	2.090	0	6.743	0	1703	52	1.1
47331.4	10000	41.0249	92.0483	-540	QK	2.2	-1	7.2	0	1.1	0	0.311	-1	2.036	0	6.548	0	1723	42	1.1
47331.5	10000	41.0249	92.0475	-529	QK	2.4	0	7.4	0	1.1	0	0.319	0	2.123	0	6.662	0	1741	51	1.1
47331.6	10000	41.0249	92.0466	-518	QK	2.3	0	7.6	0	1.2	0	0.308	-1	2.005	-1	6.519	0	1760	56	1.1
47331.7	10000	41.0249	92.0457	-508	QK	2.5	0	7.6	0	1.2	1	0.325	0	2.082	0	6.410	0	1780	48	1.1
47331.8	10000	41.0249	92.0449	-497	QK	2.6	0	7.7	1	1.2	1	0.331	0	2.150	0	6.503	0	1793	39	1.1
47331.9	10000	41.0249	92.0440	-487	QK	2.7	0	7.6	1	1.2	1	0.348	0	2.265	0	6.506	0	1809	38	1.0
47332.0	10000	41.0249	92.0432	-478	QK	2.7	0	7.7	1	1.2	1	0.343	0	2.259	0	6.581	0	1797	57	1.0
47332.1	10000	41.0249	92.0423	-468	QK	2.7	0	7.6	1	1.2	1	0.355	0	2.294	0	6.460	0	1802	34	1.0
47332.2	10000	41.0249	92.0415	-460	QK	2.6	0	7.2	1	1.2	1	0.360	0	2.127	0	5.906	-1	1788	44	1.0
47332.3	10000	41.0249	92.0406	-451	QK	3.0	1	7.0	0	1.2	1	0.425	1	2.515	1	5.918	-1	1781	34	1.0
47332.4	10000	41.0249	92.0398	-443	QK	2.7	0	7.2	0	1.1	0	0.381	0	2.404	0	6.307	0	1760	52	1.0
47332.5	10000	41.0249	92.0389	-434	QK	2.7	0	7.3	0	1.1	0	0.366	0	2.403	0	6.569	0	1744	41	1.0
47332.6	10000	41.0250	92.0381	-426	QK	2.5	0	7.6	0	1.1	0	0.332	0	2.285	0	6.884	1	1718	40	1.0
47332.7	10000	41.0250	92.0372	-418	QK	2.4	0	6.9	0	1.1	0	0.352	0	2.280	0	6.473	0	1700	43	1.0
47332.8	10000	41.0250	92.0363	-410	QK	2.3	0	7.2	0	1.1	-1	0.325	0	2.224	0	6.852	1	1696	43	1.0

LINE 360 DATA ACQUIRED 80329 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING -- GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47332.9	10000	41.0250	92.0355	-402	QK	2.4	0	7.7	1	1.0	-1	0.314	-1	2.411	0	7.672	2	1706	53	1.0
47333.0	10000	41.0250	92.0346	-393	QK	2.1	-1	7.6	0	1.0	-1	0.284	-1	2.153	0	7.573	2	1702	48	1.0
47333.1	10000	41.0250	92.0338	-385	QK	2.0	-1	7.4	0	1.1	-1	0.272	-1	1.910	-1	7.013	1	1705	45	1.0
47333.2	10000	41.0250	92.0329	-377	QK	2.0	-1	7.5	0	1.1	0	0.269	-1	1.885	-1	7.016	1	1706	40	1.0
47333.3	10000	41.0250	92.0321	-369	QK	2.0	-1	7.4	0	1.1	0	0.268	-1	1.757	-1	6.548	0	1722	49	1.0
47333.4	10000	41.0250	92.0312	-360	QK	2.4	0	7.6	1	1.1	0	0.318	0	2.151	0	6.759	0	1730	45	1.0
47333.5	10000	41.0250	92.0304	-352	QK	2.6	0	7.4	0	1.1	0	0.345	0	2.261	0	6.555	0	1742	39	1.0
47333.6	10000	41.0250	92.0295	-344	QK	2.7	0	7.6	1	1.1	0	0.352	0	2.361	0	6.713	0	1740	49	1.0
47333.7	10000	41.0250	92.0287	-336	QK	2.7	0	7.7	1	1.1	0	0.353	0	2.544	1	7.216	1	1746	48	1.0
47333.8	10000	41.0250	92.0278	-328	QK	2.9	0	7.8	1	1.1	0	0.366	0	2.545	1	6.958	1	1757	42	1.0
47333.9	10000	41.0250	92.0269	-320	QK	2.7	0	7.9	1	1.1	0	0.346	0	2.481	0	7.170	1	1769	42	1.0
47334.0	10000	41.0250	92.0261	-312	QK	2.8	0	7.6	1	1.1	0	0.362	0	2.530	0	6.989	1	1763	48	1.0
47334.1	10000	41.0250	92.0252	-305	QK	2.5	0	7.8	1	1.1	0	0.322	0	2.460	0	7.011	1	1772	43	1.0
47334.2	10000	41.0250	92.0244	-298	QK	2.6	0	8.0	1	1.1	0	0.319	0	2.292	0	7.188	1	1776	44	1.0
47334.3	10000	41.0250	92.0235	-291	QK	2.5	0	7.6	1	1.1	0	0.334	0	2.264	0	6.775	0	1764	38	1.0
47334.4	10000	41.0250	92.0227	-283	QK	2.6	0	7.4	0	1.2	0	0.355	0	2.256	0	6.362	0	1756	48	1.0
47334.5	10000	41.0250	92.0218	-277	QK	2.7	0	7.5	0	1.1	0	0.356	0	2.488	0	6.998	1	1729	34	1.0
47334.6	10000	41.0250	92.0210	-271	QK	2.7	0	7.3	0	1.1	-1	0.368	0	2.543	1	6.911	1	1683	37	1.0
47334.7	10000	41.0250	92.0201	-265	QK	2.7	0	7.2	0	1.0	-1	0.375	0	2.723	1	7.260	1	1662	36	1.0
47334.8	10000	41.0250	92.0193	-259	QK	2.8	0	7.0	0	1.0	-1	0.393	1	2.818	1	7.169	1	1637	43	1.0
47334.9	10000	41.0250	92.0184	-254	QK	2.6	0	6.5	-1	0.9	-1	0.399	1	2.755	1	6.904	1	1591	52	1.0
47335.0	10000	41.0250	92.0175	-248	QK	2.5	0	6.4	-1	0.9	-2	0.387	1	2.733	1	7.057	1	1580	55	1.0
47335.1	10000	41.0250	92.0167	-242	QK	2.3	0	6.7	-1	0.9	-2	0.344	0	2.506	1	7.283	1	1551	45	1.0
47335.2	10000	41.0250	92.0158	-237	QK	2.1	-1	6.8	-1	0.9	-2	0.306	-1	2.296	0	7.515	1	1537	43	1.0
47335.3	10000	41.0250	92.0150	-232	QK	2.2	-1	6.6	-1	1.0	-1	0.337	0	2.314	0	6.876	1	1548	40	1.0
47335.4	10000	41.0250	92.0141	-228	QK	2.2	-1	6.6	-1	1.0	-1	0.326	0	2.193	0	6.727	0	1545	47	1.0
47335.5	10000	41.0250	92.0133	-224	QK	2.1	-1	6.5	-1	1.0	-1	0.324	0	2.148	0	6.637	0	1535	41	1.0
47335.6	10000	41.0250	92.0124	-220	QK	1.9	-1	6.6	-1	1.0	-1	0.294	-1	2.015	-1	6.865	1	1521	48	1.0
47335.7	10000	41.0250	92.0116	-215	QK	2.0	-1	6.9	-1	1.0	-1	0.293	-1	2.102	0	7.173	1	1520	57	1.0
47335.8	10000	41.0250	92.0107	-211	QK	2.3	0	6.8	-1	0.9	-1	0.341	0	2.467	0	7.227	1	1545	39	1.0
47335.9	10000	41.0250	92.0098	-206	QK	2.6	0	6.8	-1	0.9	-1	0.376	0	2.702	1	7.182	1	1569	52	1.0
47336.0	10000	41.0250	92.0090	-202	QK	2.3	0	6.7	-1	0.9	-2	0.342	0	2.496	0	7.289	1	1579	41	1.0
47336.1	10000	41.0250	92.0081	-198	QK	2.2	-1	7.0	0	0.9	-2	0.319	0	2.429	0	7.626	2	1574	41	1.0
47336.2	10000	41.0250	92.0073	-194	QK	2.2	-1	7.2	0	0.9	-2	0.306	-1	2.406	0	7.867	2	1569	35	1.0
47336.3	10000	41.0250	92.0064	-190	QK	2.5	0	6.9	0	0.9	-2	0.356	0	2.668	1	7.502	1	1588	37	1.0
47336.4	10000	41.0250	92.0056	-186	QK	2.6	0	6.5	-1	1.0	-1	0.397	1	2.721	1	6.849	1	1587	40	1.0
47336.5	10000	41.0250	92.0047	-181	QK	2.3	0	6.3	-1	1.0	-1	0.373	0	2.357	0	6.326	0	1587	46	1.0
47336.6	10000	41.0250	92.0039	-177	QK	2.3	-1	5.8	-2	1.0	-1	0.388	1	2.166	0	5.577	-1	1589	41	1.0
47336.7	10000	41.0250	92.0030	-173	QK	2.5	0	5.8	-2	1.1	0	0.424	1	2.312	0	5.448	-1	1595	38	1.0
47336.8	10000	41.0250	92.0022	-168	QK	2.7	0	5.3	-3	1.1	0	0.508	2	2.494	0	4.911	-2	1614	42	0.9

GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-
A 1	330	E 5	340	1 9	350	M 13	360								
B 1	330	F 5	340	J 9	350										
C 1	330	G 5	340	K 9	350	A 14	360								
D 1	330	H 5	340	L 9	350	B 14	360								
E 1	330	I 5	340	M 9	350	C 14	360								
F 1	330	J 5	340			D 14	360								
G 1	330	K 5	340	A 10	350	E 14	360								
H 1	330	L 5	340	B 10	350	F 14	360								
I 1	330	M 5	340	C 10	350	G 14	360								
J 1	330			D 10	350	H 14	360								
K 1	330	A 6	340	E 10	350	I 14	360								
L 1	330	B 6	340	F 10	350	J 14	360								
M 1	330	C 6	340	G 10	350	K 14	360								
		D 6	340	H 10	350	L 14	360								
A 2	330	E 6	340	I 10	350	M 14	360								
B 2	330	F 6	340	J 10	350										
C 2	330	G 6	340	K 10	350	A 15	360								
D 2	330	H 6	340	L 10	350	B 15	360								
E 2	330	I 6	340	M 10	350										
F 2	330	J 6	340												
G 2	330	K 6	340	A 11	350										
H 2	330	L 6	340	B 11	350										
I 2	330	M 6	340	C 11	350										
J 2	330			D 11	350										
K 2	330	A 7	340	E 11	350										
L 2	330	B 7	340	F 11	350										
M 2	330	C 7	340	G 11	350										
		D 7	340	H 11	350										
A 3	330	E 7	340	I 11	350										
B 3	330	F 7	340	J 11	350										
C 3	330	G 7	340	K 11	350										
D 3	330	H 7	340	L 11	350										
E 3	330	I 7	340	M 11	350										
F 3	330	J 7	340												
G 3	330	K 7	340	A 12	360										
H 3	330	L 7	340	B 12	360										
I 3	330	M 7	340	C 12	360										
J 3	330			D 12	360										
K 3	330	A 8	340	E 12	360										
L 3	330	B 8	340	F 12	360										
M 3	330	C 8	340	G 12	360										
		D 8	340	H 12	360										
A 4	330	E 8	340	I 12	360										
B 4	330	F 8	340	J 12	360										
C 4	330	G 8	340	K 12	360										
D 4	330	H 8	340	L 12	360										
E 4	330	I 8	340	M 12	360										
F 4	330	J 8	340												
G 4	330	K 8	340	A 13	360										
H 4	330	L 8	340	B 13	360										
I 4	330	M 8	340	C 13	360										
J 4	330			D 13	360										
K 4	330	A 9	350	E 13	360										
L 4	330	B 9	350	F 13	360										
M 4	330	C 9	350	G 13	360										
		D 9	350	H 13	360										
A 5	340	E 9	350	I 13	360										
B 5	340	F 9	350	J 13	360										
C 5	340	G 9	350	K 13	360										
D 5	340	H 9	350	L 13	360										

1LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43105.1	10000	41.0021	93.8515	-448	QKA	3.2	2	7.1	0	1.0	0	0.447	2	3.029	2	6.770	0	1809	45	1.2
43105.0	10000	41.0027	93.8515	-447	QKA	3.0	1	7.3	0	1.1	0	0.414	1	2.756	1	6.652	0	1816	56	1.2
43104.9	10000	41.0032	93.8516	-446	QKA	2.9	1	7.1	0	1.1	0	0.411	1	2.574	1	6.256	-1	1818	39	1.2
43104.8	10000	41.0037	93.8516	-446	QKA	3.0	1	6.8	0	1.2	1	0.438	1	2.562	1	5.854	-1	1808	54	1.2
43104.7	10000	41.0043	93.8516	-445	QKA	3.0	1	6.4	-1	1.2	1	0.464	2	2.404	0	5.175	-2	1791	28	1.2
43104.6	10000	41.0048	93.8517	-444	QKA	2.8	1	6.4	-1	1.2	1	0.439	1	2.271	0	5.171	-2	1777	53	1.2
43104.5	10000	41.0054	93.8517	-442	QKA	2.8	1	6.0	-2	1.2	1	0.470	2	2.306	0	4.904	-2	1755	44	1.2
43104.4	10000	41.0059	93.8517	-441	QKA	2.7	1	6.1	-1	1.2	1	0.443	2	2.183	0	4.929	-2	1735	40	1.2
43104.3	10000	41.0065	93.8518	-439	QKA	2.5	0	6.1	-1	1.2	1	0.417	1	2.171	0	5.211	-2	1701	40	1.2
43104.2	10000	41.0070	93.8518	-437	QKA	2.5	0	6.5	-1	1.1	0	0.386	1	2.285	0	5.923	-1	1684	41	1.2
43104.1	10000	41.0076	93.8518	-435	QKA	2.3	0	7.0	0	1.0	0	0.332	0	2.208	0	6.646	0	1685	44	1.2
43104.0	10000	41.0081	93.8519	-433	QKA	2.2	0	7.3	0	1.0	-1	0.306	0	2.214	0	7.245	1	1697	55	1.2
43103.9	10000	41.0087	93.8519	-430	QKA	2.2	0	7.2	0	1.0	-1	0.312	0	2.245	0	7.186	1	1700	49	1.2
43103.8	10000	41.0092	93.8519	-428	QKA	1.9	-1	7.6	1	1.1	0	0.249	-1	1.780	-1	7.155	1	1710	49	1.2
43103.7	10000	41.0098	93.8520	-425	QKA	1.8	-1	8.2	1	1.1	0	0.225	-2	1.738	-1	7.723	1	1727	47	1.2
43103.6	10000	41.0103	93.8520	-422	QKA	1.9	-1	8.4	2	1.1	0	0.229	-2	1.769	-1	7.715	1	1739	45	1.2
43103.5	10000	41.0109	93.8521	-419	QKA	1.8	-1	8.2	1	1.1	0	0.218	-2	1.630	-1	7.482	1	1730	48	1.2
43103.4	10000	41.0114	93.8521	-416	QKA	1.9	-1	7.8	1	1.1	0	0.240	-1	1.756	-1	7.317	1	1722	44	1.2
43103.3	10000	41.0120	93.8521	-412	QKA	2.0	-1	7.7	1	1.0	0	0.264	-1	1.949	-1	7.369	1	1716	52	1.2
43103.2	10000	41.0125	93.8521	-409	QKA	2.0	-1	7.8	1	1.0	0	0.253	-1	1.934	-1	7.637	1	1709	46	1.2
43103.1	10000	41.0131	93.8522	-405	QKA	2.3	0	7.7	1	0.9	-1	0.294	-1	2.409	0	8.190	2	1702	49	1.2
43103.0	10000	41.0136	93.8522	-402	QKA	2.4	0	7.0	0	1.0	-1	0.339	0	2.486	0	7.341	1	1699	43	1.2
43102.9	10000	41.0141	93.8522	-399	QKA	2.5	0	6.8	0	1.0	-1	0.365	0	2.565	1	7.034	0	1710	47	1.2
43102.8	10000	41.0147	93.8523	-395	QKA	2.6	0	6.9	0	1.0	-1	0.374	0	2.601	1	6.957	0	1731	39	1.2
43102.7	10000	41.0152	93.8523	-391	QKA	2.6	0	7.0	0	1.0	0	0.372	0	2.577	1	6.937	0	1757	41	1.2
43102.6	10000	41.0158	93.8523	-388	QKA	2.5	0	7.2	0	1.0	0	0.353	0	2.473	1	7.000	0	1775	43	1.1
43102.5	10000	41.0163	93.8524	-385	QKA	2.6	0	7.2	0	1.0	0	0.360	0	2.468	0	6.859	0	1784	59	1.1
43102.4	10000	41.0169	93.8524	-382	QKA	2.6	0	7.5	0	1.1	0	0.341	0	2.257	0	6.614	0	1804	57	1.1
43102.3	10000	41.0174	93.8524	-378	QKA	2.3	0	7.8	1	1.1	-1	0.293	-1	2.064	0	7.034	0	1806	43	1.1
43102.2	10000	41.0180	93.8525	-375	QKA	2.4	0	7.9	1	1.1	0	0.308	0	2.204	1	7.156	1	1801	36	1.1
43102.1	10000	41.0185	93.8525	-372	QKA	2.4	0	7.8	1	1.1	0	0.303	0	2.165	1	7.134	1	1796	46	1.1
43102.0	10000	41.0191	93.8526	-369	QKA	2.4	0	8.1	1	1.1	-1	0.297	-1	2.263	1	7.629	1	1757	50	1.1
43101.9	10000	41.0196	93.8526	-367	QKA	2.5	0	7.9	1	1.0	0	0.313	0	2.379	1	7.600	1	1732	47	1.1
43101.8	10000	41.0202	93.8526	-365	QKA	2.5	0	7.9	1	1.0	0	0.310	0	2.405	1	7.758	1	1700	43	1.1
43101.7	10000	41.0207	93.8526	-362	QKA	2.4	0	7.4	0	0.9	-1	0.323	0	2.523	1	7.817	1	1663	42	1.1
43101.6	10000	41.0213	93.8527	-361	QKA	2.5	0	7.5	0	0.9	-1	0.337	0	2.678	1	7.940	2	1643	34	1.1
43101.5	10000	41.0218	93.8527	-359	QKA	2.5	0	6.8	0	0.9	-1	0.359	0	2.788	1	7.761	1	1607	53	1.1
43101.4	10000	41.0224	93.8528	-357	QKA	2.6	0	6.9	0	0.8	-2	0.375	1	3.102	2	8.265	2	1568	54	1.1
43101.3	10000	41.0229	93.8528	-356	QKA	2.3	0	6.7	-1	0.8	-2	0.352	0	2.785	1	7.912	2	1561	48	1.1
43101.2	10000	41.0235	93.8528	-355	QKA	2.3	0	6.8	0	0.8	-2	0.337	0	2.783	1	8.251	2	1539	43	1.1
43101.1	10000	41.0240	93.8528	-354	QKA	2.4	0	6.6	-1	0.8	-2	0.368	1	2.996	1	8.145	2	1538	47	1.1
43101.0	10000	41.0246	93.8529	-353	QKA	2.2	0	6.8	0	0.8	-2	0.322	0	2.582	1	8.012	2	1533	43	1.1
43100.9	10000	41.0251	93.8529	-352	QKA	2.1	-1	6.7	-1	0.8	-2	0.319	0	2.503	1	7.849	1	1524	47	1.1
43100.8	10000	41.0257	93.8530	-352	QKA	2.2	0	7.2	0	0.9	-1	0.305	0	2.444	0	8.015	2	1567	41	1.1
43100.7	10000	41.0262	93.8530	-351	QKA	2.3	0	7.3	1	1.0	-1	0.314	0	2.376	1	7.564	1	1585	51	1.1
43100.6	10000	41.0267	93.8530	-351	QKA	2.5	0	7.6	1	1.0	-1	0.327	0	2.546	1	7.794	1	1600	45	1.1
43100.5	10000	41.0273	93.8531	-351	QKA	2.6	0	7.1	0	1.0	-1	0.366	1	2.610	1	7.129	1	1611	47	1.1
43100.4	10000	41.0278	93.8531	-351	QKA	2.5	0	7.6	1	1.0	0	0.324	0	2.466	1	7.611	1	1603	41	1.0
43100.3	10000	41.0284	93.8531	-351	QKA	2.5	0	7.5	1	1.0	0	0.328	0	2.412	1	7.353	1	1604	54	1.0
43100.2	10000	41.0289	93.8531	-351	QKA	2.4	0	7.5	1	1.0	0	0.317	0	2.285	1	7.207	1	1599	42	1.0
43100.1	10000	41.0295	93.8532	-352	QKA	2.1	-1	7.4	1	1.0	-1	0.284	-1	2.121	0	7.470	1	1570	44	1.0
43100.0	10000	41.0300	93.8532	-354	QKA	2.1	-1	7.7	1	1.0	-1	0.277	-1	2.166	0	7.808	1	1566	46	1.0

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43099.9	10000	41.0306	93.8533	-355	QKA	2.2	0	7.5	0	1.0	-1	0.296	-1	2.211	0	7.461	1	1565	52	1.0
43099.8	10000	41.0311	93.8533	-356	QKA	2.0	-1	7.7	1	1.0	-1	0.259	-1	2.040	0	7.885	1	1565	61	1.0
43099.7	10000	41.0317	93.8533	-356	QKA	1.8	-1	7.3	0	1.0	-1	0.248	-1	1.848	-1	7.462	1	1576	48	1.0
43099.6	10000	41.0322	93.8534	-357	QKA	2.0	-1	7.5	0	1.0	-1	0.271	-1	2.132	0	7.863	1	1581	51	1.0
43099.5	10000	41.0328	93.8534	-358	QKA	2.1	-1	7.6	1	1.0	-1	0.282	-1	2.243	0	7.947	2	1619	47	1.0
43099.4	10000	41.0333	93.8534	-359	QKA	2.2	0	7.9	1	1.0	-1	0.281	-1	2.239	0	7.960	2	1642	39	1.0
43099.3	10000	41.0339	93.8535	-360	QKA	2.1	-1	7.7	1	1.0	-1	0.274	-1	2.213	0	8.088	2	1664	52	1.0
43099.2	10000	41.0344	93.8535	-360	QKA	2.1	-1	7.8	1	0.9	-1	0.263	-1	2.206	0	8.395	2	1689	48	1.0
43099.1	10000	41.0350	93.8535	-360	QKA	2.5	0	7.8	1	0.9	-1	0.317	0	2.661	1	8.395	2	1718	49	1.0
43099.0	10000	41.0355	93.8535	-360	QKA	2.7	1	8.1	1	0.9	-1	0.339	0	2.900	1	8.554	2	1754	44	1.0
43098.9	10000	41.0361	93.8535	-359	QKA	2.6	0	8.1	1	1.0	-1	0.319	0	2.609	1	8.168	2	1795	42	1.0
43098.8	10000	41.0367	93.8534	-359	QKA	2.6	0	8.3	2	1.0	0	0.309	0	2.529	1	8.182	2	1804	42	1.0
43098.7	10000	41.0372	93.8534	-358	QKA	2.6	0	8.2	1	1.0	0	0.313	0	2.452	0	7.842	1	1823	39	1.0
43098.6	10000	41.0378	93.8534	-358	QKA	2.6	0	8.5	2	1.2	1	0.308	0	2.257	0	7.329	1	1835	50	1.0
43098.5	10000	41.0384	93.8534	-357	QKA	2.4	0	8.3	2	1.2	1	0.287	-1	1.934	-1	6.746	0	1847	44	1.0
43098.4	10000	41.0389	93.8534	-356	QKA	2.1	-1	8.8	2	1.3	2	0.242	-1	1.627	-1	6.729	0	1861	48	1.0
43098.3	10000	41.0395	93.8534	-356	QKA	1.8	-1	8.6	2	1.4	2	0.215	-2	1.352	-2	6.297	0	1871	45	1.0
43098.2	10000	41.0401	93.8533	-355	QKA	2.0	-1	8.6	2	1.3	2	0.234	-2	1.545	-1	6.610	0	1857	35	1.0
43098.1	10000	41.0406	93.8533	-354	QKA	2.1	-1	8.6	2	1.2	1	0.243	-1	1.692	-1	6.962	0	1848	60	1.0
43098.0	10000	41.0412	93.8533	-354	QKA	2.3	0	8.5	2	1.2	1	0.268	-1	1.898	-1	7.096	1	1830	44	1.0
43097.9	10000	41.0418	93.8533	-353	QKA	2.3	0	8.1	1	1.1	0	0.286	-1	2.076	0	7.259	1	1819	49	1.0
43097.8	10000	41.0423	93.8533	-352	QKA	2.6	0	8.2	1	1.1	0	0.316	0	2.397	0	7.593	1	1797	43	1.0
43097.7	10000	41.0429	93.8533	-351	QKA	2.6	0	7.9	1	1.0	0	0.329	0	2.579	1	7.829	1	1767	56	1.0
43097.6	10000	41.0435	93.8533	-351	QKA	2.9	1	7.8	1	0.9	-1	0.369	0	3.032	2	8.222	2	1750	43	1.0
43097.5	10000	41.0440	93.8532	-350	QKA	2.7	1	7.8	1	1.0	-1	0.351	0	2.770	1	7.883	1	1729	48	1.0
43097.4	10000	41.0446	93.8532	-349	QKA	2.6	0	7.6	1	1.1	0	0.343	0	2.478	0	7.228	1	1707	54	1.0
43097.3	10000	41.0452	93.8532	-349	QKA	2.6	0	7.5	1	1.0	0	0.348	0	2.511	1	7.219	1	1687	49	1.0
43097.2	10000	41.0457	93.8532	-349	QKA	2.5	0	7.6	1	1.0	0	0.327	0	2.404	0	7.353	1	1682	45	0.9
43097.1	10000	41.0463	93.8532	-349	QKA	2.6	0	7.7	1	1.0	-1	0.332	0	2.670	1	8.050	2	1661	45	0.9
43097.0	10000	41.0469	93.8532	-350	QKA	2.5	0	7.3	0	0.9	-1	0.339	0	2.614	1	7.707	1	1648	45	0.9
43096.9	10000	41.0474	93.8532	-350	QKA	2.5	0	7.3	0	1.0	-1	0.348	0	2.658	1	7.645	1	1616	46	0.9
43096.8	10000	41.0480	93.8531	-350	QKA	2.7	1	7.1	0	0.9	-1	0.387	1	3.020	2	7.799	1	1614	43	0.9
43096.7	10000	41.0486	93.8531	-351	QKA	2.8	1	7.1	0	0.9	-1	0.402	1	3.155	2	7.857	1	1627	53	1.0
43096.6	10000	41.0491	93.8531	-353	QKA	2.9	1	7.3	0	1.0	-1	0.399	1	3.001	2	7.525	1	1647	41	1.0
43096.5	10000	41.0497	93.8531	-354	QKA	3.0	1	7.2	0	1.0	-1	0.421	1	3.046	2	7.235	1	1651	54	1.0
43096.4	10000	41.0503	93.8531	-355	QKA	2.7	1	7.1	0	1.1	0	0.375	1	2.487	1	6.634	0	1673	43	1.0
43096.3	10000	41.0508	93.8531	-357	QKA	2.8	1	7.4	0	1.2	1	0.375	1	2.392	1	6.371	0	1697	53	1.0
43096.2	10000	41.0514	93.8531	-358	QKA	2.7	1	7.6	1	1.2	1	0.358	1	2.273	0	6.351	0	1731	57	1.0
43096.1	10000	41.0520	93.8530	-360	QKA	2.7	1	7.7	1	1.3	1	0.343	1	2.113	-1	6.155	0	1758	42	1.0
43096.0	10000	41.0525	93.8530	-362	QKA	2.7	1	7.9	1	1.2	1	0.339	0	2.141	0	6.314	0	1776	41	1.0
43095.9	10000	41.0531	93.8530	-364	QKA	2.8	1	8.0	1	1.2	1	0.346	0	2.245	0	6.497	0	1784	49	1.0
43095.8	10000	41.0537	93.8530	-366	QKA	2.8	1	8.1	1	1.2	1	0.343	0	2.220	0	6.477	0	1798	49	1.0
43095.7	10000	41.0542	93.8530	-368	QKA	3.1	1	8.1	1	1.2	1	0.384	1	2.511	0	6.532	0	1807	57	1.0
43095.6	10000	41.0548	93.8530	-370	QKA	3.0	1	8.1	1	1.2	1	0.370	0	2.446	0	6.614	0	1817	42	1.0
43095.5	10000	41.0554	93.8530	-372	QKA	3.0	1	8.1	1	1.2	1	0.366	0	2.425	0	6.622	0	1829	38	1.0
43095.4	10000	41.0559	93.8530	-375	QKA	3.0	1	7.9	1	1.2	1	0.376	0	2.397	0	6.382	0	1829	47	1.0
43095.3	10000	41.0565	93.8529	-378	QKA	2.9	1	7.9	1	1.3	1	0.364	0	2.249	0	6.178	-1	1828	49	1.0
43095.2	10000	41.0571	93.8529	-379	QKA	2.5	0	8.0	1	1.3	2	0.313	-1	1.929	-1	6.155	-1	1844	46	1.0
43095.1	10000	41.0576	93.8529	-382	QKA	2.5	0	8.1	1	1.3	1	0.305	-1	1.959	-1	6.418	0	1825	34	1.0
43095.0	10000	41.0582	93.8529	-385	QKA	2.2	0	8.1	1	1.3	1	0.278	-1	1.760	-1	6.324	0	1815	42	1.0
43094.9	10000	41.0588	93.8529	-387	QKA	2.3	0	7.9	1	1.2	1	0.293	-1	1.874	-1	6.405	0	1793	44	1.0
43094.8	10000	41.0593	93.8529	-389	QKA	2.3	0	7.9	1	1.2	1	0.293	-1	1.918	-1	6.549	0	1774	45	1.0

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43094.7	10000	41.0599	93.8528	-392	QKA	2.3	0	8.1	1	1.2	1	0.278	-1	1.908	-1	6.862	0	1763	63	1.0
43094.6	10000	41.0605	93.8528	-397	QKA	2.3	0	8.0	1	1.1	0	0.288	-1	2.045	0	7.109	1	1740	47	1.0
43094.5	10000	41.0610	93.8528	-400	QKA	2.5	0	7.7	1	1.1	0	0.326	0	2.333	0	7.162	1	1708	43	1.0
43094.4	10000	41.0616	93.8528	-402	QKA	2.4	0	7.6	1	1.1	0	0.321	0	2.207	0	6.878	0	1715	56	1.0
43094.3	10000	41.0622	93.8528	-405	QKA	2.6	0	7.6	1	1.1	0	0.341	0	2.456	0	7.194	1	1701	47	1.0
43094.2	10000	41.0627	93.8528	-408	QKA	2.7	1	7.7	1	1.0	0	0.348	0	2.547	1	7.324	1	1709	56	1.0
43094.1	10000	41.0633	93.8528	-411	QKA	2.8	1	7.5	0	1.0	0	0.375	1	2.789	1	7.437	1	1697	50	1.1
43094.0	10000	41.0639	93.8527	-414	QKA	3.0	1	7.2	0	0.9	-1	0.416	1	3.151	2	7.578	1	1682	51	1.1
43093.9	10000	41.0644	93.8527	-417	QKA	2.9	1	6.9	0	0.9	-1	0.422	1	3.197	2	7.583	1	1679	40	1.1
43093.8	10000	41.0650	93.8527	-420	QKA	3.0	1	6.9	0	0.9	-1	0.444	2	3.309	2	7.457	1	1681	46	1.1
43093.7	10000	41.0656	93.8527	-424	QKA	3.2	2	7.0	0	0.9	-2	0.455	2	3.674	3	8.081	2	1685	43	1.1
43093.6	10000	41.0661	93.8527	-427	QKA	3.0	1	6.8	0	0.9	-1	0.445	2	3.285	2	7.378	1	1697	54	1.1
43093.5	10000	41.0667	93.8527	-430	QKA	2.8	1	7.2	0	1.0	-1	0.389	1	2.832	1	7.281	1	1721	40	1.1
43093.4	10000	41.0673	93.8527	-434	QKA	2.6	0	7.5	0	1.0	0	0.346	0	2.535	1	7.336	1	1742	47	1.1
43093.3	10000	41.0678	93.8526	-437	QKA	2.7	1	7.5	0	1.0	0	0.356	0	2.550	1	7.155	1	1775	48	1.1
43093.2	10000	41.0684	93.8526	-440	QKA	2.7	1	7.6	1	1.1	0	0.352	0	2.440	1	6.941	0	1792	42	1.1
43093.1	10000	41.0690	93.8526	-444	QKA	2.6	0	7.8	1	1.1	0	0.331	0	2.314	0	6.985	0	1814	48	1.1
43093.0	10000	41.0695	93.8526	-447	QKA	2.5	0	7.6	1	1.1	0	0.326	0	2.234	0	6.850	0	1814	47	1.1
43092.9	10000	41.0701	93.8526	-450	QKA	2.7	1	7.7	1	1.1	0	0.357	0	2.434	0	6.817	0	1842	47	1.1
43092.8	10000	41.0707	93.8526	-454	QKA	3.0	1	7.4	0	1.1	0	0.402	1	2.614	1	6.495	0	1834	49	1.1
43092.7	10000	41.0712	93.8526	-458	QKA	3.2	2	7.2	0	1.2	1	0.449	2	2.666	1	5.938	-1	1842	53	1.1
43092.6	10000	41.0718	93.8525	-461	QKA	3.1	1	7.5	0	1.3	1	0.415	1	2.481	0	5.978	-1	1837	33	1.1
43092.5	10000	41.0724	93.8525	-465	QKA	3.0	1	7.7	1	1.3	1	0.390	1	2.373	0	6.084	-1	1837	54	1.1
43092.4	10000	41.0729	93.8525	-468	QKA	2.8	1	7.6	1	1.3	1	0.370	0	2.248	0	6.078	-1	1816	57	1.1
43092.3	10000	41.0735	93.8525	-472	QKA	2.7	1	7.4	0	1.3	2	0.357	0	2.051	0	5.747	-1	1800	43	1.2
43092.2	10000	41.0741	93.8525	-475	QKA	2.5	0	7.6	1	1.2	1	0.327	0	2.020	0	6.186	-1	1760	43	1.2
43092.1	10000	41.0746	93.8525	-479	QKA	2.4	0	7.6	1	1.1	0	0.311	0	2.056	0	6.608	0	1734	56	1.2
43092.0	10000	41.0752	93.8525	-483	QKA	2.1	-1	7.3	0	1.1	0	0.282	-1	1.891	-1	6.699	0	1698	32	1.2
43091.9	10000	41.0758	93.8524	-487	QKA	1.9	-1	7.4	0	1.0	0	0.256	-1	1.813	-1	7.076	0	1661	60	1.2
43091.8	10000	41.0763	93.8524	-491	QKA	2.0	-1	7.0	0	0.9	-1	0.285	-1	2.087	0	7.329	1	1623	35	1.2
43091.7	10000	41.0769	93.8524	-495	QKA	2.1	-1	6.9	0	0.9	-1	0.307	0	2.295	0	7.476	1	1591	46	1.2
43091.6	10000	41.0775	93.8524	-498	QKA	2.2	0	6.9	0	0.9	-1	0.316	0	2.471	0	7.823	1	1575	61	1.2
43091.5	10000	41.0780	93.8524	-502	QKA	1.9	-1	6.6	-1	0.9	-1	0.294	-1	2.152	0	7.315	1	1568	46	1.2
43091.4	10000	41.0786	93.8524	-505	QKA	1.9	-1	6.5	-1	0.9	-1	0.299	-1	2.143	0	7.178	1	1549	44	1.2
43091.3	10000	41.0792	93.8524	-509	QKA	1.9	-1	6.9	0	0.9	-1	0.269	-1	2.131	0	7.929	2	1533	42	1.2
43091.2	10000	41.0797	93.8523	-513	QKA	1.9	-1	6.7	-1	0.8	-2	0.276	-1	2.241	0	8.105	2	1526	47	1.2
43091.1	10000	41.0803	93.8523	-517	QKA	1.8	-1	6.9	0	0.9	-1	0.260	-1	2.025	0	7.776	1	1529	49	1.2
43091.0	10000	41.0809	93.8523	-520	QKA	1.8	-1	6.9	0	0.9	-1	0.255	-1	1.912	-1	7.510	1	1551	46	1.2
43090.9	10000	41.0814	93.8523	-523	QKA	1.8	-1	7.0	0	0.9	-1	0.265	-1	1.988	-1	7.511	1	1556	60	1.2
43090.8	10000	41.0820	93.8523	-527	QKA	2.0	-1	7.2	0	0.9	-1	0.275	-1	2.211	-1	8.042	2	1551	52	1.2
43090.7	10000	41.0826	93.8523	-531	QKA	1.9	-1	7.2	0	0.9	-1	0.264	-1	2.178	0	8.253	2	1548	52	1.2
43090.6	10000	41.0831	93.8522	-534	QKA	1.9	-1	7.1	0	0.9	-2	0.264	-1	2.200	0	8.323	2	1554	49	1.3
43090.5	10000	41.0837	93.8522	-538	QKA	1.8	-1	7.1	0	0.9	-1	0.259	-1	2.080	0	8.017	2	1557	53	1.3
43090.4	10000	41.0843	93.8522	-542	QKA	1.8	-1	7.2	0	0.9	-2	0.247	-1	2.056	0	8.321	2	1550	46	1.3
43090.3	10000	41.0848	93.8522	-546	QKA	1.6	-2	7.2	0	0.8	-2	0.220	-2	1.886	-1	8.584	2	1519	48	1.3
43090.2	10000	41.0854	93.8522	-550	QKA	1.3	-2	7.2	0	0.8	-2	0.187	-2	1.575	-1	8.442	2	1502	52	1.3
43090.1	10000	41.0860	93.8522	-553	QKA	1.2	-3	6.9	0	0.9	-1	0.171	-2	1.337	-2	7.832	1	1489	52	1.3
43090.0	10000	41.0865	93.8522	-558	QKA	1.0	-3	7.0	0	0.9	-1	0.140	-3	1.078	-2	7.685	1	1485	52	1.3
43089.9	10000	41.0871	93.8522	-562	QKA	0.8	-3	6.7	-1	0.9	-1	0.124	-3	0.903	-3	7.275	1	1476	53	1.3
43089.8	10000	41.0877	93.8521	-566	QKA	0.9	-3	6.9	0	1.0	-1	0.134	-3	0.945	-3	7.070	0	1476	54	1.3
43089.7	10000	41.0882	93.8521	-571	QKA	1.0	-3	6.5	-1	0.9	-1	0.161	-3	1.103	-2	6.865	0	1475	51	1.3
43089.6	10000	41.0888	93.8521	-575	QKA	1.2	-3	6.3	-1	0.9	-1	0.188	-2	1.268	-2	6.749	0	1480	49	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43089.5	10000	41.0894	93.8521	-579	QKA	1.4	-2	6.1	-1	0.9	-1	0.234	-1	1.604	-1	6.843	0	1466	50	1.3
43089.4	10000	41.0899	93.8521	-583	QKA	1.8	-1	6.1	-1	0.9	-2	0.287	-1	2.058	0	7.174	1	1461	57	1.3
43089.3	10000	41.0905	93.8521	-588	QKA	2.0	-1	6.1	-1	0.8	-2	0.334	0	2.428	0	7.279	1	1451	40	1.3
43089.2	10000	41.0911	93.8521	-592	QKA	2.3	0	6.1	-1	0.8	-2	0.372	1	2.842	1	7.633	1	1446	50	1.3
43089.1	10000	41.0916	93.8520	-597	QKA	2.3	0	5.7	-2	0.7	-2	0.404	1	3.077	2	7.616	1	1431	43	1.3
43089.0	10000	41.0922	93.8520	-601	QKA	2.4	0	5.9	-2	0.8	-2	0.406	1	3.032	2	7.465	1	1429	62	1.3
43088.9	10000	41.0928	93.8520	-606	QKA	2.4	0	5.9	-2	0.8	-2	0.402	1	3.065	2	7.626	1	1417	44	1.3
43088.8	10000	41.0933	93.8520	-610	QKA	2.4	0	5.8	-2	0.8	-2	0.421	1	3.099	2	7.355	1	1429	36	1.3
43088.7	10000	41.0939	93.8520	-615	QKA	2.5	0	5.9	-2	0.8	-2	0.419	1	3.122	2	7.443	1	1414	44	1.3
43088.6	10000	41.0945	93.8520	-619	QKA	2.5	0	5.7	-2	0.7	-2	0.440	1	3.347	2	7.601	1	1425	44	1.3
43088.5	10000	41.0950	93.8520	-624	QKA	2.5	0	5.6	-2	0.8	-2	0.445	2	3.274	2	7.359	1	1426	41	1.3
43088.4	10000	41.0956	93.8519	-629	QKA	2.4	0	5.8	-2	0.8	-2	0.409	1	3.134	2	7.668	1	1421	38	1.3
43088.3	10000	41.0962	93.8519	-633	QKA	2.3	0	5.7	-2	0.7	-2	0.400	1	3.032	2	7.581	1	1418	38	1.3
43088.2	10000	41.0967	93.8519	-638	QKA	2.2	0	5.6	-2	0.8	-2	0.399	1	2.896	1	7.255	1	1432	39	1.3
43088.1	10000	41.0973	93.8519	-643	QKA	2.2	0	5.8	-2	0.8	-2	0.389	1	2.831	1	7.277	1	1432	54	1.3
43088.0	10000	41.0979	93.8519	-647	QKA	2.0	-1	5.7	-2	0.8	-2	0.362	0	2.486	0	6.858	0	1466	51	1.3
43087.9	10000	41.0984	93.8519	-652	QKA	1.9	-1	5.8	-2	0.9	-1	0.333	0	2.198	0	6.595	0	1467	56	1.3
43087.8	10000	41.0990	93.8519	-656	QKA	1.8	-1	5.7	-2	0.9	-1	0.319	0	2.026	0	6.348	0	1473	59	1.3
43087.7	10000	41.0996	93.8518	-660	QKA	1.9	-1	5.7	-2	0.9	-1	0.334	0	2.092	0	6.257	-1	1491	46	1.3
43087.6	10000	41.1001	93.8518	-664	QKA	1.9	-1	5.9	-2	0.9	-1	0.323	0	2.008	0	6.213	-1	1514	46	1.3
43087.5	10000	41.1007	93.8518	-668	QKA	1.9	-1	6.1	-1	0.9	-1	0.314	0	2.048	0	6.515	0	1513	53	1.3
43087.4	10000	41.1013	93.8518	-672	QKA	1.8	-1	6.0	-1	0.9	-1	0.303	-1	1.944	0	6.416	0	1525	57	1.3
43087.3	10000	41.1018	93.8518	-677	QKA	2.0	-1	6.1	-1	0.9	-1	0.324	0	2.0[illegible]	0	6.452	0	1530	53	1.3
43087.2	10000	41.1024	93.8518	-681	QKA	1.9	-1	6.0	-1	0.9	-1	0.312	0	2.0[illegible]	0	6.411	0	1544	43	1.3
43087.1	10000	41.1030	93.8518	-685	QKA	2.1	-1	6.3	-1	1.0	-1	0.340	0	2.[illegible]	0	6.367	0	1577	56	1.3
43087.0	10000	41.1035	93.8517	-688	QKA	2.1	-1	6.3	-1	1.0	0	0.325	0	2.[illegible]	0	6.230	-1	1602	45	1.3
43086.9	10000	41.1041	93.8517	-692	QKA	2.2	0	6.5	-1	1.0	-1	0.344	0	2.[illegible]	0	6.625	0	1604	37	1.3
43086.8	10000	41.1046	93.8517	-695	QKA	2.4	0	6.6	-1	1.0	-1	0.364	0	[illegible]	0	6.690	0	1620	31	1.3
43086.7	10000	41.1051	93.8517	-698	QKA	2.6	0	6.7	-1	1.0	-1	0.392	1	2.60[illegible]	1	6.647	0	1629	52	1.3
43086.6	10000	41.1057	93.8517	-701	QKA	2.6	0	6.4	-1	1.0	-1	0.403	1	2.673	1	6.632	0	1604	47	1.3
43086.5	10000	41.1062	93.8517	-704	QKA	2.8	1	6.7	-1	1.0	-1	0.418	1	2.898	1	6.928	0	1598	49	1.3
43086.4	10000	41.1067	93.8517	-709	QKA	2.5	0	6.5	-1	0.9	-1	0.386	1	2.769	1	7.177	1	1567	62	1.3
43086.3	10000	41.1073	93.8517	-715	QKA	2.6	0	6.8	0	0.9	-1	0.376	1	2.807	1	7.470	1	1541	49	1.3
43086.2	10000	41.1078	93.8517	-719	QKA	2.5	0	6.1	-1	0.9	-1	0.404	1	2.728	1	6.754	0	1520	57	1.3
43086.1	10000	41.1083	93.8517	-723	QKA	2.5	0	5.9	-2	0.9	-1	0.419	1	2.761	1	6.583	0	1501	46	1.3
43086.0	10000	41.1088	93.8517	-727	QKA	2.5	0	6.1	-1	0.9	-1	0.364	0	2.552	1	7.017	0	1480	42	1.3
43085.9	10000	41.1094	93.8516	-731	QKA	2.5	0	6.3	-1	0.9	-2	0.349	0	2.553	1	7.309	1	1489	41	1.3
43085.8	10000	41.1099	93.8516	-734	QKA	2.4	0	6.0	-1	0.9	-2	0.344	0	2.425	1	7.045	0	1474	56	1.3
43085.7	10000	41.1104	93.8516	-739	QKA	2.2	0	6.2	-1	0.9	-2	0.346	0	2.489	1	7.193	1	1485	45	1.3
43085.6	10000	41.1109	93.8516	-743	QKA	2.1	-1	5.9	-2	0.8	-2	0.358	0	2.484	1	6.944	0	1490	56	1.3
43085.5	10000	41.1115	93.8516	-747	QKA	1.9	-1	6.4	-1	0.9	-2	0.300	-1	2.270	0	7.562	1	1507	42	1.3
43085.4	10000	41.1120	93.8516	-752	QKA	1.8	-1	6.9	0	0.9	-2	0.263	-1	2.088	0	7.940	2	1516	52	1.3
43085.3	10000	41.1125	93.8516	-755	QKA	1.9	-1	6.7	-1	0.9	-2	0.280	-1	2.158	0	7.707	1	1532	48	1.3
43085.2	10000	41.1131	93.8516	-759	QKA	1.8	-1	7.1	0	0.9	-1	0.246	-1	1.872	-1	7.613	1	1550	49	1.3
43085.1	10000	41.1136	93.8516	-763	QKA	2.0	-1	7.2	0	1.0	-1	0.274	-1	2.035	0	7.427	1	1586	34	1.3
43085.0	10000	41.1141	93.8516	-767	QKA	2.1	-1	7.2	0	1.1	0	0.293	-1	2.012	0	6.867	0	1603	45	1.3
43084.9	10000	41.1146	93.8516	-771	QKA	2.1	-1	7.6	1	1.1	1	0.277	-1	1.918	-1	6.931	0	1631	50	1.3
43084.8	10000	41.1152	93.8515	-776	QKA	2.2	0	7.8	1	1.2	1	0.278	-1	1.877	-1	6.752	0	1642	40	1.3
43084.7	10000	41.1157	93.8515	-780	QKA	2.1	-1	7.3	0	1.2	1	0.284	-1	1.759	-1	6.194	-1	1655	44	1.3
43084.6	10000	41.1162	93.8515	-783	QKA	2.1	-1	7.4	0	1.2	1	0.287	-1	1.809	-1	6.309	0	1652	47	1.3
43084.5	10000	41.1167	93.8515	-787	QKA	2.1	-1	7.1	0	1.2	1	0.297	-1	1.794	-1	6.045	-1	1644	47	1.3
43084.4	10000	41.1173	93.8515	-790	QKA	2.0	-1	7.2	0	1.2	1	0.272	-1	1.677	-1	6.160	-1	1626	42	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43084.3	10000	41.1178	93.8515	-794	QKA	1.8	-1	7.2	0	1.1	0	0.245	-1	1.610	-1	6.569	0	1623	53	1.3
43084.2	10000	41.1183	93.8515	-797	QKA	1.9	-1	7.1	0	1.1	0	0.259	-1	1.711	-1	6.599	0	1630	41	1.3
43084.1	10000	41.1188	93.8515	-801	QKA	2.0	-1	7.2	0	1.0	0	0.281	-1	1.947	-1	6.918	0	1645	50	1.3
43084.0	10000	41.1194	93.8515	-804	QKA	2.1	-1	7.8	1	1.0	0	0.268	-1	2.044	0	7.614	1	1680	45	1.3
43083.9	10000	41.1199	93.8515	-808	QKA	2.1	-1	8.0	1	1.1	0	0.266	-1	2.015	0	7.589	1	1719	50	1.3
43083.8	10000	41.1204	93.8515	-811	QKA	2.2	-1	8.2	1	1.1	0	0.263	-1	2.026	0	7.689	1	1751	53	1.3
43083.7	10000	41.1209	93.8515	-814	QKA	2.1	-1	8.1	1	1.0	0	0.258	-1	2.031	0	7.866	1	1784	39	1.3
43083.6	10000	41.1215	93.8515	-817	QKA	2.4	0	8.5	2	1.0	0	0.280	-1	2.290	0	8.180	2	1813	52	1.3
43083.5	10000	41.1220	93.8514	-821	QKA	2.3	0	8.3	2	1.1	0	0.281	-1	2.163	0	7.707	1	1819	59	1.3
43083.4	10000	41.1225	93.8514	-824	QKA	2.2	0	8.3	2	1.1	0	0.271	-1	2.014	0	7.428	1	1824	48	1.3
43083.3	10000	41.1231	93.8514	-828	QKA	2.2	0	8.2	1	1.2	1	0.272	-1	1.928	-1	7.077	0	1825	46	1.3
43083.2	10000	41.1236	93.8514	-831	QKA	2.2	0	8.1	1	1.2	1	0.272	-1	1.885	-1	6.930	0	1818	50	1.3
43083.1	10000	41.1241	93.8514	-834	QKA	2.2	0	8.0	1	1.2	1	0.280	-1	1.937	-1	6.921	0	1826	53	1.3
43083.0	10000	41.1246	93.8514	-836	QKA	2.4	0	8.2	1	1.2	1	0.291	-1	1.940	-1	6.674	0	1842	45	1.3
43082.9	10000	41.1252	93.8514	-840	QKA	2.1	-1	8.0	1	1.2	1	0.259	-1	1.654	-1	6.398	0	1830	52	1.3
43082.8	10000	41.1257	93.8514	-843	QKA	2.2	0	8.3	1	1.2	1	0.262	-1	1.768	-1	6.743	0	1842	39	1.3
43082.7	10000	41.1262	93.8514	-846	QKA	2.4	0	8.2	1	1.2	1	0.286	-1	1.941	-1	6.788	0	1857	48	1.3
43082.6	10000	41.1267	93.8514	-849	QKA	2.5	0	7.9	1	1.2	1	0.320	0	2.064	0	6.452	0	1860	52	1.3
43082.5	10000	41.1273	93.8514	-853	QKA	2.7	1	7.7	1	1.2	1	0.350	0	2.250	0	6.422	0	1874	55	1.3
43082.4	10000	41.1278	93.8513	-856	QKA	2.8	1	7.9	1	1.2	1	0.356	0	2.326	0	6.525	0	1867	48	1.3
43082.3	10000	41.1283	93.8513	-859	QKA	2.7	1	7.8	1	1.2	1	0.350	0	2.342	0	6.698	0	1847	49	1.3
43082.2	10000	41.1288	93.8513	-862	QKA	2.9	1	7.5	0	1.1	1	0.386	1	2.529	1	6.547	0	1836	41	1.3
43082.1	10000	41.1294	93.8513	-865	QKA	2.9	1	7.5	0	1.1	0	0.387	1	2.537	1	6.557	0	1818	38	1.3
43082.0	10000	41.1299	93.8513	-868	QKA	2.6	0	7.1	0	1.1	0	0.368	0	2.319	0	6.293	0	1784	43	1.3
43081.9	10000	41.1304	93.8513	-871	QKA	2.4	0	7.2	0	1.1	0	0.332	0	2.200	0	6.623	0	1757	58	1.3
43081.8	10000	41.1309	93.8513	-874	QKA	2.2	0	7.1	0	1.1	0	0.312	0	2.070	0	6.631	0	1723	50	1.3
43081.7	10000	41.1315	93.8513	-877	QKA	2.3	0	7.0	0	1.1	0	0.330	0	2.149	0	6.503	0	1705	44	1.3
43081.6	10000	41.1320	93.8513	-879	QKA	2.4	0	7.0	0	1.1	0	0.340	0	2.254	0	6.621	0	1694	41	1.3
43081.5	10000	41.1325	93.8513	-882	QKA	2.2	0	7.1	0	1.1	0	0.310	0	2.058	0	6.642	0	1687	36	1.3
43081.4	10000	41.1331	93.8513	-885	QKA	2.2	-1	6.6	-1	1.1	0	0.326	0	2.029	0	6.232	-1	1673	43	1.3
43081.3	10000	41.1336	93.8513	-889	QKA	2.1	-1	6.8	0	1.1	0	0.306	0	1.931	-1	6.314	0	1678	37	1.3
43081.2	10000	41.1341	93.8513	-891	QKA	2.1	-1	6.7	-1	1.1	0	0.307	0	1.922	-1	6.255	-1	1672	42	1.3
43081.1	10000	41.1346	93.8512	-893	QKA	2.0	-1	7.1	0	1.1	0	0.283	-1	1.824	-1	6.439	0	1679	50	1.3
43081.0	10000	41.1352	93.8512	-896	QKA	1.7	-1	7.1	0	1.1	0	0.239	-1	1.572	-1	6.576	0	1665	40	1.3
43080.9	10000	41.1357	93.8512	-898	QKA	1.6	-2	6.8	0	1.1	0	0.229	-2	1.472	-2	6.426	0	1641	43	1.3
43080.8	10000	41.1362	93.8512	-900	QKA	1.7	-1	6.8	0	1.0	0	0.248	-1	1.628	-1	6.619	0	1643	45	1.3
43080.7	10000	41.1367	93.8512	-902	QKA	1.7	-1	7.1	0	1.0	-1	0.238	-1	1.717	-1	7.219	1	1625	44	1.3
43080.6	10000	41.1373	93.8512	-904	QKA	2.0	-1	7.0	0	0.9	-1	0.281	-1	2.126	0	7.573	1	1604	48	1.3
43080.5	10000	41.1378	93.8512	-906	QKA	2.2	0	7.0	0	0.9	-1	0.312	0	2.449	0	7.854	1	1582	47	1.3
43080.4	10000	41.1383	93.8512	-909	QKA	2.3	0	6.4	-1	0.8	-2	0.358	0	2.728	1	7.621	1	1538	41	1.3
43080.3	10000	41.1388	93.8512	-911	QKA	2.1	-1	6.3	-1	0.8	-2	0.335	0	2.611	1	7.785	1	1513	50	1.3
43080.2	10000	41.1394	93.8512	-913	QKA	2.2	0	6.2	-1	0.8	-2	0.352	0	2.712	1	7.705	1	1492	45	1.3
43080.1	10000	41.1399	93.8512	-914	QKA	2.1	-1	6.1	-1	0.8	-2	0.348	0	2.595	1	7.454	1	1467	49	1.3
43080.0	10000	41.1404	93.8512	-916	QKA	2.1	-1	6.5	-1	0.8	-2	0.319	0	2.448	1	7.684	1	1466	34	1.3
43079.9	10000	41.1409	93.8512	-918	QKA	1.8	-1	6.5	-1	0.8	-2	0.281	-1	2.220	0	7.902	2	1470	44	1.3
43079.8	10000	41.1415	93.8511	-920	QKA	1.6	-2	6.5	-1	0.8	-2	0.248	-1	1.931	-1	7.794	1	1475	53	1.3
43079.7	10000	41.1420	93.8511	-921	QKA	1.5	-2	7.0	0	0.9	-1	0.218	-2	1.692	-1	7.754	1	1505	44	1.3
43079.6	10000	41.1425	93.8511	-922	QKA	1.6	-2	7.2	0	1.0	-1	0.219	-2	1.631	-1	7.457	1	1521	54	1.3
43079.5	10000	41.1431	93.8511	-923	QKA	1.5	-2	7.6	1	1.0	-1	0.199	-2	1.545	-1	7.769	1	1557	47	1.3
43079.4	10000	41.1436	93.8511	-924	QKA	1.6	-2	7.4	0	1.0	-1	0.214	-2	1.634	-1	7.622	1	1573	53	1.3
43079.3	10000	41.1441	93.8511	-925	QKA	1.6	-2	6.8	0	1.0	-1	0.233	-2	1.634	-1	7.008	0	1584	46	1.3
43079.2	10000	41.1446	93.8511	-925	QKA	1.6	-2	6.9	0	1.0	0	0.240	-1	1.607	-1	6.708	0	1589	47	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43079.1	10000	41.1452	93.8511	-926	QKA	1.8	-1	7.0	0	1.1	0	0.259	-1	1.711	-1	6.607	0	1613	46	1.3
43079.0	10000	41.1457	93.8511	-926	QKA	1.8	-1	6.7	-1	1.0	0	0.266	-1	1.730	-1	6.513	0	1611	44	1.3
43078.9	10000	41.1462	93.8511	-927	QKA	2.0	-1	6.8	0	1.0	0	0.294	-1	1.908	-1	6.482	0	1632	56	1.3
43078.8	10000	41.1467	93.8511	-927	QKA	2.1	-1	6.5	-1	1.0	0	0.321	0	2.004	0	6.248	-1	1627	45	1.3
43078.7	10000	41.1473	93.8510	-927	QKA	1.9	-1	6.7	-1	1.0	-1	0.284	-1	1.871	-1	6.596	0	1612	56	1.3
43078.6	10000	41.1478	93.8510	-928	QKA	1.7	-1	7.0	0	1.0	0	0.242	-1	1.673	-1	6.901	0	1596	54	1.3
43078.5	10000	41.1483	93.8510	-928	QKA	1.7	-1	6.9	0	1.0	-1	0.247	-1	1.709	-1	6.925	0	1578	42	1.3
43078.4	10000	41.1488	93.8510	-928	QKA	1.5	-2	6.7	-1	1.0	-1	0.271	-2	1.595	-1	6.897	0	1543	35	1.3
43078.3	10000	41.1494	93.8510	-928	QKA	1.5	-2	6.6	-1	0.9	-1	0.233	-2	1.637	-1	7.030	0	1535	41	1.4
43078.2	10000	41.1499	93.8510	-928	QKA	1.4	-2	6.4	-1	0.9	-1	0.226	-2	1.632	-1	7.234	1	1513	57	1.4
43078.1	10000	41.1504	93.8510	-927	QKA	1.4	-2	6.2	-1	0.9	-1	0.227	-2	1.618	-1	7.120	1	1495	53	1.4
43078.0	10000	41.1509	93.8510	-927	QKA	1.6	-2	6.1	-1	0.9	-1	0.266	-1	1.844	-1	6.928	0	1488	36	1.4
43077.9	10000	41.1515	93.8510	-926	QKA	1.9	-1	5.8	-2	0.9	-2	0.326	0	2.211	0	6.779	0	1481	44	1.4
43077.8	10000	41.1520	93.8510	-925	QKA	1.9	-1	5.7	-2	0.8	-2	0.343	0	2.336	0	6.802	0	1475	46	1.4
43077.7	10000	41.1525	93.8510	-925	QKA	2.0	-1	5.7	-2	0.8	-2	0.356	0	2.452	0	6.886	0	1470	43	1.4
43077.6	10000	41.1531	93.8510	-924	QKA	2.1	-1	5.7	-2	0.8	-2	0.370	0	2.525	1	6.817	0	1459	54	1.4
43077.5	10000	41.1536	93.8510	-923	QKA	2.2	0	5.4	-2	0.8	-2	0.410	1	2.604	1	6.360	0	1443	35	1.4
43077.4	10000	41.1541	93.8509	-922	QKA	2.2	0	5.7	-2	0.9	-1	0.385	1	2.493	0	6.484	0	1444	45	1.4
43077.3	10000	41.1546	93.8509	-921	QKA	2.1	-1	5.9	-2	0.9	-2	0.363	0	2.485	0	6.843	0	1445	46	1.4
43077.2	10000	41.1552	93.8509	-919	QKA	2.0	-1	6.0	-2	0.9	-2	0.339	0	2.333	0	6.880	0	1449	37	1.4
43077.1	10000	41.1557	93.8509	-918	QKA	2.0	-1	6.2	-1	0.9	-1	0.331	0	2.343	0	7.070	0	1458	53	1.4
43077.0	10000	41.1562	93.8509	-917	QKA	2.0	-1	6.3	-1	0.9	-1	0.322	0	2.297	0	7.141	1	1484	42	1.4
43076.9	10000	41.1567	93.8509	-915	QKA	2.1	-1	6.5	-1	0.9	-1	0.331	0	2.339	0	7.065	0	1516	36	1.4
43076.8	10000	41.1573	93.8509	-914	QKA	2.1	-1	6.9	0	1.0	-1	0.300	-1	2.167	0	7.216	1	1564	49	1.4
43076.7	10000	41.1578	93.8509	-913	QKA	2.1	-1	6.8	0	1.0	-1	0.301	-1	2.142	0	7.118	1	1604	60	1.4
43076.6	10000	41.1583	93.8509	-912	QKA	2.1	-1	6.9	0	1.0	-1	0.302	-1	2.102	0	6.957	0	1639	47	1.4
43076.5	10000	41.1588	93.8509	-911	QKA	2.2	0	7.2	0	1.0	0	0.308	0	2.168	0	7.029	0	1665	44	1.4
43076.4	10000	41.1594	93.8509	-912	QKA	2.2	0	6.8	0	1.0	-1	0.318	0	2.158	0	6.785	0	1682	37	1.4
43076.3	10000	41.1599	93.8508	-911	QKA	2.1	-1	6.9	0	1.0	-1	0.309	0	2.123	0	6.879	0	1688	56	1.4
43076.2	10000	41.1604	93.8508	-910	QKA	2.1	-1	7.0	0	1.0	-1	0.300	-1	2.094	0	6.986	0	1680	42	1.4
43076.1	10000	41.1610	93.8508	-908	QKA	2.2	0	6.7	-1	1.0	-1	0.333	0	2.351	0	7.054	1	1650	42	1.4
43076.0	10000	41.1615	93.8508	-906	QKA	2.2	0	6.9	0	1.0	-1	0.327	0	2.339	0	7.146	1	1631	51	1.3
43075.9	10000	41.1620	93.8508	-904	QKA	2.3	0	6.7	-1	1.0	-1	0.343	0	2.409	0	7.022	0	1619	44	1.3
43075.8	10000	41.1625	93.8508	-903	QKA	2.3	0	6.4	-1	1.0	-1	0.356	0	2.402	0	6.737	0	1617	71	1.4
43075.7	10000	41.1631	93.8508	-901	QKA	2.3	0	6.6	-1	1.0	-1	0.354	0	2.390	0	6.747	0	1613	39	1.4
43075.6	10000	41.1636	93.8508	-899	QKA	2.5	0	6.3	-1	1.0	-1	0.394	1	2.541	1	6.453	0	1604	52	1.4
43075.5	10000	41.1641	93.8508	-897	QKA	2.5	0	6.3	-1	1.0	-1	0.391	1	2.591	1	6.627	0	1619	47	1.4
43075.4	10000	41.1646	93.8508	-896	QKA	2.5	0	6.4	-1	1.0	-1	0.387	1	2.559	1	6.607	0	1646	41	1.4
43075.3	10000	41.1652	93.8508	-894	QKA	2.4	0	6.7	-1	1.0	-1	0.355	1	2.434	0	6.853	0	1665	37	1.4
43075.2	10000	41.1657	93.8508	-892	QKA	2.4	0	6.7	-1	1.0	-1	0.351	0	2.470	0	7.040	0	1688	52	1.4
43075.1	10000	41.1662	93.8508	-890	QKA	2.6	0	7.0	0	1.0	-1	0.367	0	2.620	1	7.135	1	1702	42	1.4
43075.0	10000	41.1667	93.8507	-889	QKA	2.8	0	7.5	1	0.9	-1	0.366	0	2.919	1	7.984	2	1730	29	1.3
43074.9	10000	41.1673	93.8507	-888	QKA	2.8	0	7.8	1	1.0	-1	0.355	0	2.756	1	7.772	1	1776	45	1.3
43074.8	10000	41.1678	93.8507	-887	QKA	2.6	0	7.8	2	1.0	-1	0.314	0	2.563	1	8.166	2	1774	54	1.3
43074.7	10000	41.1683	93.8507	-885	QKA	2.6	0	8.0	2	1.0	0	0.296	-1	2.535	1	8.563	2	1782	46	1.3
43074.6	10000	41.1689	93.8507	-884	QKA	2.7	0	8.4	2	1.0	0	0.325	0	2.696	1	8.292	2	1778	43	1.3
43074.5	10000	41.1694	93.8507	-883	QKA	2.8	1	8.2	2	1.0	0	0.335	0	2.669	1	7.960	2	1766	52	1.3
43074.4	10000	41.1699	93.8507	-881	QKA	2.7	1	7.7	1	1.0	0	0.328	0	2.674	1	8.147	2	1749	51	1.3
43074.3	10000	41.1704	93.8507	-881	QKA	2.5	0	7.5	1	1.0	-1	0.322	0	2.419	1	7.506	1	1702	52	1.3
43074.2	10000	41.1710	93.8507	-880	QKA	2.3	0	7.1	0	1.0	-1	0.315	0	2.391	1	7.591	1	1646	35	1.3
43074.1	10000	41.1715	93.8507	-880	QKA	2.3	0	7.1	0	1.0	-1	0.329	0	2.394	1	7.274	1	1598	44	1.3
43074.0	10000	41.1720	93.8507	-880	QKA	2.2	0	6.1	-1	1.0	-1	0.352	0	2.247	0	6.382	0	1552	47	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43073.9	10000	41.1725	93.8506	-879	QKA	2.2	0	5.6	-2	0.9	-1	0.397	1	2.363	0	5.945	-1	1512	58	1.3
43073.8	10000	41.1730	93.8506	-880	QKA	2.2	0	5.2	-2	0.9	-1	0.419	1	2.441	0	5.825	-1	1483	37	1.3
43073.7	10000	41.1736	93.8506	-880	QKA	2.0	-1	5.0	-3	0.9	-1	0.396	1	2.274	0	5.750	-1	1465	44	1.3
43073.6	10000	41.1741	93.8506	-879	QKA	2.0	-1	5.0	-3	0.9	-1	0.412	1	2.298	0	5.580	-1	1467	40	1.3
43073.5	10000	41.1746	93.8506	-879	QKA	2.2	0	5.0	-3	0.9	-2	0.437	1	2.527	1	5.789	-1	1470	42	1.3
43073.4	10000	41.1752	93.8506	-879	QKA	2.3	0	4.6	-3	0.8	-2	0.492	2	2.684	1	5.454	-2	1492	56	1.3
43073.3	10000	41.1757	93.8506	-880	QKA	2.5	0	5.3	-2	0.8	-2	0.471	2	3.098	2	6.581	0	1509	51	1.3
43073.2	10000	41.1762	93.8506	-880	QKA	2.5	0	5.7	-2	0.8	-2	0.437	1	3.090	2	7.077	0	1520	39	1.3
43073.1	10000	41.1768	93.8506	-881	QKA	2.5	0	6.2	-1	0.8	-2	0.402	1	3.049	2	7.592	1	1524	51	1.3
43073.0	10000	41.1773	93.8506	-881	QKA	2.6	0	6.2	-1	0.8	-2	0.426	1	3.236	2	7.602	1	1531	44	1.3
43072.9	10000	41.1778	93.8506	-882	QKA	2.5	0	6.3	-1	0.8	-2	0.402	1	3.181	2	7.905	2	1549	49	1.3
43072.8	10000	41.1783	93.8506	-883	QKA	2.7	1	6.3	-1	0.8	-2	0.424	1	3.217	2	7.592	1	1575	44	1.3
43072.7	10000	41.1788	93.8506	-885	QKA	2.5	0	6.8	0	0.9	-1	0.368	0	2.813	1	7.644	1	1602	36	1.3
43072.6	10000	41.1794	93.8505	-886	QKA	2.5	0	6.8	0	1.0	-1	0.370	0	2.623	1	7.095	1	1627	49	1.3
43072.5	10000	41.1799	93.8505	-888	QKA	2.4	0	6.7	-1	1.0	-1	0.362	0	2.524	1	6.976	0	1662	40	1.3
43072.4	10000	41.1804	93.8505	-889	QKA	2.4	0	6.6	-1	1.0	0	0.362	0	2.369	1	6.540	0	1703	41	1.4
43072.3	10000	41.1810	93.8505	-890	QKA	2.3	0	7.3	0	1.1	0	0.321	0	2.169	0	6.765	0	1745	46	1.4
43072.2	10000	41.1815	93.8505	-892	QKA	2.5	0	7.2	0	1.1	0	0.348	0	2.202	0	6.324	0	1785	52	1.4
43072.1	10000	41.1820	93.8505	-893	QKA	2.3	0	7.2	0	1.2	1	0.320	0	1.992	-1	6.227	-1	1806	51	1.4
43072.0	10000	41.1826	93.8506	-895	QKA	2.6	0	7.5	1	1.2	1	0.347	0	2.228	0	6.415	0	1822	46	1.4
43071.9	10000	41.1831	93.8506	-897	QKA	2.5	0	7.5	0	1.2	1	0.331	0	2.129	0	6.432	0	1835	39	1.4
43071.8	10000	41.1836	93.8506	-898	QKA	2.6	0	7.8	1	1.2	1	0.328	0	2.144	0	6.543	0	1845	43	1.4
43071.7	10000	41.1842	93.8506	-900	QKA	2.5	0	7.9	1	1.2	1	0.317	0	2.102	0	6.639	0	1853	42	1.4
43071.6	10000	41.1847	93.8507	-902	QKA	2.6	0	7.6	1	1.2	1	0.340	0	2.193	0	6.456	0	1853	44	1.4
43071.5	10000	41.1853	93.8507	-903	QKA	2.4	0	7.8	1	1.2	1	0.302	-1	2.009	0	6.650	0	1841	47	1.4
43071.4	10000	41.1858	93.8507	-905	QKA	2.5	0	7.9	1	1.2	1	0.314	0	2.117	0	6.747	0	1846	41	1.3
43071.3	10000	41.1863	93.8508	-906	QKA	2.3	0	7.8	1	1.2	1	0.296	-1	1.954	-1	6.596	0	1854	53	1.3
43071.2	10000	41.1869	93.8508	-907	QKA	2.3	0	7.8	1	1.2	1	0.292	-1	1.895	-1	6.501	0	1846	47	1.3
43071.1	10000	41.1874	93.8508	-909	QKA	2.1	-1	7.9	1	1.2	1	0.263	-1	1.736	-1	6.606	0	1854	42	1.4
43071.0	10000	41.1880	93.8508	-910	QKA	2.3	0	7.9	1	1.2	1	0.292	-1	1.909	-1	6.536	0	1847	48	1.4
43070.9	10000	41.1885	93.8509	-911	QKA	2.3	0	7.6	1	1.2	1	0.304	-1	1.931	-1	6.345	0	1834	48	1.4
43070.8	10000	41.1890	93.8509	-912	QKA	2.5	0	7.7	1	1.2	1	0.326	0	2.077	0	6.379	0	1828	50	1.4
43070.7	10000	41.1896	93.8509	-913	QKA	2.3	0	7.7	1	1.2	1	0.305	0	2.021	0	6.627	0	1803	47	1.4
43070.6	10000	41.1901	93.8510	-913	QKA	2.3	0	7.5	0	1.2	1	0.314	0	2.013	0	6.420	0	1780	37	1.4
43070.5	10000	41.1907	93.8510	-915	QKA	2.5	0	7.6	1	1.2	1	0.326	0	2.155	0	6.604	0	1783	41	1.4
43070.4	10000	41.1912	93.8510	-916	QKA	2.5	0	7.4	0	1.2	1	0.332	0	2.110	0	6.355	0	1756	52	1.4
43070.3	10000	41.1917	93.8510	-917	QKA	2.2	0	7.9	1	1.2	1	0.279	-1	1.904	-1	6.814	0	1749	46	1.4
43070.2	10000	41.1923	93.8511	-917	QKA	2.1	-1	8.2	1	1.2	1	0.258	-1	1.810	-1	7.016	0	1758	51	1.4
43070.1	10000	41.1928	93.8511	-918	QKA	2.1	-1	8.1	1	1.1	1	0.261	-1	1.859	-1	7.129	0	1763	42	1.4
43070.0	10000	41.1934	93.8511	-919	QKA	2.2	0	8.1	1	1.1	1	0.274	-1	1.956	-1	7.143	0	1779	57	1.4
43069.9	10000	41.1939	93.8512	-920	QKA	2.2	0	8.3	1	1.1	1	0.270	-1	2.009	0	7.436	1	1770	51	1.4
43069.8	10000	41.1944	93.8512	-920	QKA	2.3	0	8.0	1	1.1	1	0.282	-1	2.093	0	7.417	1	1743	53	1.4
43069.7	10000	41.1950	93.8512	-921	QKA	2.4	0	7.9	1	1.0	1	0.301	-1	2.264	0	7.532	1	1727	53	1.4
43069.6	10000	41.1955	93.8512	-921	QKA	2.4	0	7.3	0	1.0	0	0.330	0	2.317	0	7.020	1	1695	41	1.4
43069.5	10000	41.1961	93.8513	-922	QKA	2.3	0	7.2	0	1.0	0	0.325	0	2.276	0	6.998	0	1661	48	1.4
43069.4	10000	41.1966	93.8513	-923	QKA	2.3	0	7.0	0	1.0	0	0.327	0	2.264	0	6.930	0	1640	44	1.4
43069.3	10000	41.1971	93.8513	-924	QKA	2.2	0	6.9	0	1.0	0	0.317	0	2.117	0	6.673	0	1616	47	1.4
43069.2	10000	41.1977	93.8514	-925	QKA	2.1	-1	6.9	0	1.1	0	0.310	0	2.030	0	6.548	0	1629	44	1.4
43069.1	10000	41.1982	93.8514	-925	QKA	1.9	-1	7.3	1	1.1	0	0.269	-1	1.846	-1	6.875	0	1649	50	1.4
43069.0	10000	41.1988	93.8514	-926	QKA	1.9	-1	7.5	1	1.0	0	0.258	-1	1.844	-1	7.156	1	1662	50	1.4
43068.9	10000	41.1993	93.8514	-927	QKA	2.0	-1	7.8	1	1.0	0	0.252	-1	1.880	-1	7.468	1	1679	59	1.4
43068.8	10000	41.1998	93.8515	-928	QKA	2.0	-1	7.6	1	1.0	0	0.263	-1	1.908	-1	7.249	1	1678	32	1.4

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43068.7	10000	41.2004	93.8515	-928	QKA	2.0	-1	7.5	0	1.1	0	0.262	-1	1.852	-1	7.074	0	1669	42	1.4
43068.6	10000	41.2009	93.8515	-929	QKA	2.0	-1	7.6	1	1.0	0	0.270	-1	1.989	-1	7.368	1	1663	47	1.4
43068.5	10000	41.2015	93.8516	-929	QKA	2.0	-1	7.3	0	1.0	-1	0.275	-1	1.993	-1	7.246	1	1642	40	1.4
43068.4	10000	41.2020	93.8516	-930	QKA	1.8	-1	7.1	0	1.0	0	0.252	-1	1.762	-1	6.990	0	1620	41	1.4
43068.3	10000	41.2025	93.8516	-931	QKA	1.7	-1	6.8	0	1.0	0	0.254	-1	1.681	-1	6.605	0	1607	51	1.4
43068.2	10000	41.2031	93.8516	-932	QKA	1.8	-1	6.3	-1	1.0	-1	0.280	-1	1.794	-1	6.410	0	1598	47	1.4
43068.1	10000	41.2036	93.8517	-932	QKA	2.1	-1	6.2	-1	0.9	-1	0.336	0	2.215	0	6.594	0	1594	57	1.4
43068.0	10000	41.2042	93.8517	-934	QKA	2.0	-1	6.2	-1	0.9	-1	0.323	0	2.197	0	6.799	0	1589	50	1.4
43067.9	10000	41.2047	93.8517	-935	QKA	1.8	-1	6.2	-1	0.9	-1	0.297	-1	1.984	-1	6.690	0	1579	53	1.4
43067.8	10000	41.2052	93.8518	-936	QKA	2.0	-1	6.3	-1	0.9	-1	0.322	0	2.200	0	6.824	0	1582	50	1.4
43067.7	10000	41.2058	93.8518	-936	QKA	2.5	0	6.0	-1	1.0	-1	0.423	1	2.671	1	6.315	0	1592	50	1.4
43067.6	10000	41.2063	93.8518	-937	QKA	2.5	0	6.2	-1	0.9	-1	0.408	1	2.734	1	6.695	0	1608	47	1.4
43067.5	10000	41.2069	93.8518	-937	QKA	2.6	0	6.7	-1	0.9	-1	0.387	1	2.815	1	7.282	1	1635	47	1.4
43067.4	10000	41.2074	93.8519	-938	QKA	2.3	0	7.0	0	1.0	0	0.333	0	2.294	0	6.879	0	1683	51	1.4
43067.3	10000	41.2079	93.8519	-939	QKA	2.3	0	7.0	0	1.1	0	0.325	0	2.144	0	6.588	0	1723	41	1.4
43067.2	10000	41.2085	93.8519	-940	QKA	2.4	0	7.2	0	1.1	0	0.334	0	2.107	0	6.305	0	1766	51	1.4
43067.1	10000	41.2090	93.8520	-941	QKA	2.5	0	7.1	0	1.2	1	0.353	0	2.166	0	6.141	-1	1805	41	1.4
43067.0	10000	41.2096	93.8520	-942	QKA	2.3	0	7.4	0	1.2	1	0.314	0	1.984	-1	6.315	0	1825	57	1.4
43066.9	10000	41.2101	93.8520	-943	QKA	2.4	0	7.6	1	1.2	1	0.314	0	1.965	-1	6.256	-1	1836	48	1.4
43066.8	10000	41.2106	93.8520	-944	QKA	2.3	0	7.5	0	1.3	1	0.303	-1	1.824	-1	6.019	-1	1832	52	1.5
43066.7	10000	41.2112	93.8521	-945	QKA	2.3	0	7.6	1	1.2	1	0.306	0	1.884	-1	6.159	-1	1819	51	1.5
43066.6	10000	41.2117	93.8521	-946	QKA	2.4	0	7.9	1	1.2	1	0.298	-1	1.992	-1	6.689	0	1803	47	1.5
43066.5	10000	41.2123	93.8521	-947	QKA	2.5	0	7.9	1	1.1	0	0.318	0	2.194	0	6.893	0	1793	45	1.5
43066.4	10000	41.2128	93.8522	-949	QKA	2.3	0	7.9	1	1.1	0	0.292	-1	2.024	0	6.923	0	1763	46	1.5
43066.3	10000	41.2133	93.8522	-950	QKA	2.3	0	7.8	1	1.1	0	0.291	-1	2.087	0	7.167	1	1740	52	1.5
43066.2	10000	41.2139	93.8522	-951	QKA	2.3	0	7.7	1	1.1	0	0.296	-1	2.012	0	6.804	0	1734	39	1.5
43066.1	10000	41.2144	93.8522	-953	QKA	2.3	0	7.4	0	1.1	0	0.307	0	2.062	0	6.711	0	1723	53	1.5
43066.0	10000	41.2150	93.8523	-954	QKA	2.3	0	7.2	0	1.1	0	0.327	0	2.129	0	6.514	0	1715	39	1.5
43065.9	10000	41.2155	93.8523	-955	QKA	2.5	0	6.6	-1	1.1	0	0.371	0	2.190	0	5.902	-1	1707	40	1.5
43065.8	10000	41.2160	93.8523	-956	QKA	2.3	0	6.5	-1	1.1	0	0.347	0	1.984	-1	5.720	-1	1685	50	1.5
43065.7	10000	41.2166	93.8524	-958	QKA	2.1	-1	6.7	-1	1.1	0	0.322	0	1.922	-1	5.963	-1	1674	45	1.5
43065.6	10000	41.2171	93.8524	-959	QKA	1.9	-1	6.8	0	1.1	0	0.285	-1	1.727	-1	6.069	-1	1666	48	1.5
43065.5	10000	41.2177	93.8524	-961	QKA	1.9	-1	6.9	0	1.1	0	0.276	-1	1.779	-1	6.433	0	1649	45	1.5
43065.4	10000	41.2182	93.8524	-963	QKA	2.0	-1	6.9	0	1.1	0	0.281	-1	1.779	-1	6.321	0	1635	41	1.5
43065.3	10000	41.2187	93.8525	-964	QKA	1.8	-1	7.2	0	1.1	0	0.247	-1	1.634	-1	6.614	0	1631	41	1.5
43065.2	10000	41.2193	93.8525	-965	QKA	1.6	-2	7.4	0	1.1	0	0.211	-2	1.454	-2	6.875	0	1626	56	1.5
43065.1	10000	41.2198	93.8525	-966	QKA	1.7	-1	7.3	0	1.1	0	0.231	-2	1.546	-1	6.687	0	1645	37	1.5
43065.0	10000	41.2204	93.8526	-968	QKA	1.7	-1	7.1	0	1.1	0	0.236	-1	1.509	-1	6.399	0	1674	44	1.5
43064.9	10000	41.2209	93.8526	-972	QKA	2.0	-1	7.0	0	1.2	1	0.284	-1	1.664	-1	5.859	-1	1704	46	1.4
43064.8	10000	41.2214	93.8526	-978	QKA	2.0	-1	7.1	0	1.2	1	0.284	-1	1.679	-1	5.920	-1	1720	50	1.4
43064.7	10000	41.2220	93.8526	-979	QKA	1.7	-1	7.2	0	1.2	1	0.240	-1	1.454	-2	6.060	-1	1727	39	1.4
43064.6	10000	41.2225	93.8527	-977	QKA	2.0	-1	6.7	-1	1.2	1	0.302	-1	1.692	-1	5.600	-1	1722	57	1.4
43064.5	10000	41.2231	93.8527	-978	QKA	2.0	-1	6.8	0	1.2	1	0.298	-1	1.748	-1	5.860	-1	1718	43	1.4
43064.4	10000	41.2236	93.8527	-978	QKA	1.9	-1	6.7	-1	1.2	1	0.282	-1	1.727	-1	6.125	-1	1690	37	1.4
43064.3	10000	41.2241	93.8528	-979	QKA	2.0	-1	6.7	-1	1.2	1	0.299	-1	1.949	-1	6.513	0	1637	45	1.4
43064.2	10000	41.2247	93.8528	-980	QKA	1.8	-1	6.6	-1	1.1	0	0.276	-1	1.947	-1	7.056	0	1585	54	1.4
43064.1	10000	41.2252	93.8528	-982	QKA	1.6	-2	6.2	-1	1.0	-1	0.263	-1	1.777	-1	6.757	0	1551	43	1.4
43064.0	10000	41.2258	93.8528	-983	QKA	1.7	-1	6.1	-1	0.9	-1	0.281	-1	1.892	-1	6.732	0	1530	46	1.4
43063.9	10000	41.2263	93.8529	-985	QKA	1.4	-2	6.0	-1	0.9	-1	0.215	-2	1.612	-1	7.495	1	1508	45	1.4
43063.8	10000	41.2268	93.8529	-986	QKA	1.6	-2	6.3	-1	0.9	-1	0.261	-1	1.777	-1	6.809	0	1501	43	1.4
43063.7	10000	41.2274	93.8529	-987	QKA	1.6	-2	6.3	-1	1.0	-1	0.257	-1	1.656	-1	6.432	0	1516	55	1.4
43063.6	10000	41.2279	93.8530	-987	QKA	1.7	-1	6.4	-1	1.0	0	0.264	-1	1.654	-1	6.262	-1	1550	54	1.4

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43063.5	10000	41.2285	93.8530	-989	QKA	1.7	-1	6.6	-1	1.1	0	0.256	-1	1.555	-1	6.072	-1	1586	49	1.4
43063.4	10000	41.2290	93.8530	-990	QKA	1.8	-1	6.6	-1	1.1	0	0.265	-1	1.622	-1	6.124	-1	1623	39	1.4
43063.3	10000	41.2295	93.8530	-991	QKA	2.0	-1	7.0	0	1.1	0	0.288	-1	1.796	-1	6.229	-1	1664	45	1.4
43063.2	10000	41.2301	93.8531	-992	QKA	2.0	-1	7.0	0	1.1	0	0.283	-1	1.814	-1	6.416	0	1706	47	1.4
43063.1	10000	41.2306	93.8531	-993	QKA	1.9	-1	7.6	1	1.1	0	0.253	-1	1.719	-1	6.794	0	1732	56	1.4
43063.0	10000	41.2312	93.8531	-994	QKA	2.2	0	7.9	1	1.1	0	0.282	-1	2.022	0	7.165	1	1765	43	1.4
43062.9	10000	41.2317	93.8531	-995	QKA	2.4	0	8.0	1	1.1	0	0.296	-1	2.098	0	7.094	0	1809	43	1.4
43062.8	10000	41.2322	93.8532	-996	QKA	2.6	1	8.4	2	1.1	0	0.317	0	2.424	0	7.656	1	1824	52	1.4
43062.7	10000	41.2328	93.8532	-997	QKA	2.9	1	8.5	2	1.1	0	0.340	0	2.639	1	7.763	1	1842	52	1.4
43062.6	10000	41.2333	93.8532	-998	QKA	2.7	1	8.1	1	1.1	0	0.336	0	2.536	1	7.556	1	1836	46	1.4
43062.5	10000	41.2339	93.8533	-998	QKA	3.0	1	7.8	1	1.1	0	0.386	1	2.817	1	7.290	1	1820	54	1.4
43062.4	10000	41.2344	93.8533	-999	QKA	3.0	1	7.5	0	1.1	0	0.402	1	2.842	1	7.062	0	1821	60	1.4
43062.3	10000	41.2349	93.8533	-1000	QKA	3.0	1	7.2	0	1.1	0	0.413	1	2.772	1	6.718	0	1807	43	1.4
43062.2	10000	41.2355	93.8533	-1001	QKA	2.7	1	7.2	0	1.0	0	0.374	1	2.573	1	6.885	0	1792	42	1.4
43062.1	10000	41.2360	93.8534	-1001	QKA	2.7	1	7.1	0	1.1	0	0.376	1	2.366	0	6.301	0	1806	33	1.4
43062.0	10000	41.2366	93.8534	-1001	QKA	2.6	0	7.1	0	1.2	1	0.363	0	2.222	0	6.125	-1	1804	44	1.4
43061.9	10000	41.2371	93.8534	-1002	QKA	2.6	0	7.1	0	1.2	1	0.372	0	2.175	0	5.849	-1	1827	38	1.4
43061.8	10000	41.2376	93.8535	-1001	QKA	2.5	0	7.2	0	1.3	1	0.348	0	1.980	-1	5.687	-1	1831	43	1.4
43061.7	10000	41.2382	93.8535	-1001	QKA	2.5	0	7.1	0	1.3	2	0.345	0	1.891	-1	5.476	-2	1836	35	1.3
43061.6	10000	41.2387	93.8535	-1003	QKA	2.4	0	7.3	0	1.3	2	0.324	0	1.839	-1	5.671	-1	1828	52	1.3
43061.5	10000	41.2393	93.8535	-1004	QKA	2.8	1	6.9	0	1.3	1	0.400	1	2.165	0	5.407	-2	1822	57	1.3
43061.4	10000	41.2398	93.8536	-1006	QKA	2.8	1	6.7	-1	1.2	1	0.416	1	2.309	0	5.552	-1	1799	42	1.3
43061.3	10000	41.2403	93.8536	-1006	QKA	2.8	1	6.7	-1	1.2	1	0.419	1	2.381	0	5.682	-1	1782	47	1.3
43061.2	10000	41.2409	93.8536	-1007	QKA	2.9	1	6.8	0	1.1	0	0.425	1	2.623	1	6.168	-1	1753	37	1.3
43061.1	10000	41.2414	93.8537	-1007	QKA	2.8	1	7.1	0	1.1	0	0.397	1	2.561	1	6.444	0	1758	55	1.3
43061.0	10000	41.2420	93.8537	-1007	QKA	2.9	1	7.0	0	1.0	-1	0.417	1	2.917	1	6.990	0	1749	45	1.3
43060.9	10000	41.2425	93.8537	-1008	QKA	2.8	1	7.3	0	1.0	0	0.384	1	2.743	1	7.145	1	1750	45	1.3
43060.8	10000	41.2430	93.8537	-1008	QKA	2.3	0	7.8	1	1.0	0	0.293	-1	2.218	0	7.561	1	1744	37	1.3
43060.7	10000	41.2436	93.8538	-1008	QKA	2.0	-1	7.8	1	1.1	0	0.261	-1	1.895	-1	7.249	1	1756	49	1.3
43060.6	10000	41.2441	93.8538	-1008	QKA	1.9	-1	7.8	1	1.1	0	0.250	-1	1.803	-1	7.225	1	1740	51	1.3
43060.5	10000	41.2447	93.8538	-1007	QKA	1.9	-1	8.0	1	1.1	0	0.238	-1	1.771	-1	7.428	1	1741	53	1.3
43060.4	10000	41.2452	93.8539	-1007	QKA	1.8	-1	8.0	1	1.1	0	0.219	-2	1.660	-1	7.576	1	1729	38	1.3
43060.3	10000	41.2457	93.8539	-1007	QKA	1.8	-1	8.3	2	1.1	0	0.220	-2	1.719	-1	7.805	1	1717	47	1.3
43060.2	10000	41.2463	93.8539	-1010	QKA	2.1	-1	8.3	1	1.0	0	0.260	-1	2.072	0	7.973	2	1727	49	1.3
43060.1	10000	41.2468	93.8539	-1010	QKA	2.5	0	7.8	1	1.1	0	0.319	0	2.283	0	7.148	1	1730	44	1.3
43060.0	10000	41.2474	93.8540	-1011	QKA	2.5	0	7.7	1	1.0	0	0.329	0	2.419	0	7.354	1	1721	41	1.3
43059.9	10000	41.2479	93.8540	-1011	QKA	2.9	1	7.5	1	1.1	0	0.387	1	2.740	1	7.070	0	1746	53	1.3
43059.8	10000	41.2484	93.8540	-1011	QKA	2.8	1	7.5	1	1.1	0	0.374	1	2.532	1	6.779	0	1750	44	1.3
43059.7	10000	41.2490	93.8540	-1011	QKA	3.0	1	7.2	1	1.1	0	0.419	1	2.825	1	6.736	0	1745	50	1.3
43059.6	10000	41.2495	93.8541	-1011	QKA	2.9	1	7.0	0	1.1	0	0.417	1	2.651	1	6.352	0	1736	47	1.3
43059.5	10000	41.2501	93.8541	-1012	QKA	2.7	1	6.9	0	1.1	0	0.392	1	2.524	1	6.436	0	1699	45	1.3
43059.4	10000	41.2506	93.8541	-1012	QKA	2.5	0	7.0	0	1.0	0	0.355	0	2.410	0	6.788	0	1678	41	1.3
43059.3	10000	41.2511	93.8542	-1013	QKA	2.5	0	7.0	0	1.0	0	0.352	0	2.400	0	6.811	0	1653	54	1.3
43059.2	10000	41.2517	93.8542	-1013	QKA	2.2	0	7.1	0	1.0	0	0.303	-1	2.142	0	7.077	0	1620	44	1.3
43059.1	10000	41.2522	93.8542	-1013	QKA	2.3	0	6.7	-1	1.0	-1	0.343	0	2.305	0	6.712	0	1592	38	1.3
43059.0	10000	41.2528	93.8542	-1014	QKA	2.2	-1	6.7	-1	1.0	-1	0.321	0	2.174	0	6.765	0	1573	46	1.3
43058.9	10000	41.2533	93.8543	-1014	QKA	2.1	-1	6.6	-1	1.0	-1	0.309	0	2.054	0	6.637	0	1570	49	1.3
43058.8	10000	41.2538	93.8543	-1015	QKA	2.0	-1	6.4	-1	1.1	0	0.305	-1	1.865	-1	6.110	-1	1583	35	1.3
43058.7	10000	41.2544	93.8543	-1016	QKA	1.9	-1	6.2	-1	1.0	0	0.311	-1	1.852	-1	5.954	-1	1570	50	1.3
43058.6	10000	41.2549	93.8544	-1016	QKA	2.0	-1	6.3	-1	1.1	0	0.309	-1	1.827	-1	5.920	-1	1575	46	1.3
43058.5	10000	41.2555	93.8544	-1016	QKA	2.1	-1	6.2	-1	1.0	0	0.332	0	1.969	-1	5.940	-1	1586	44	1.3
43058.4	10000	41.2560	93.8544	-1018	QKA	1.8	-1	6.8	0	1.0	0	0.259	-1	1.728	-1	6.683	0	1611	43	1.2

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43058.3	10000	41.2565	93.8544	-1018	QKA	1.8	-1	7.1	0	1.1	0	0.260	-1	1.705	-1	6.570	0	1638	45	1.2
43058.2	10000	41.2571	93.8545	-1019	QKA	2.0	-1	7.1	0	1.1	0	0.279	-1	1.886	-1	6.762	0	1644	41	1.2
43058.1	10000	41.2576	93.8545	-1020	QKA	2.2	0	6.9	0	1.0	0	0.322	0	2.110	0	6.563	0	1656	36	1.2
43058.0	10000	41.2582	93.8545	-1021	QKA	2.3	0	7.4	0	1.1	0	0.311	0	2.142	0	6.877	0	1686	55	1.2
43057.9	10000	41.2587	93.8546	-1021	QKA	2.2	0	7.3	0	1.1	0	0.304	0	2.039	0	6.704	0	1710	41	1.2
43057.8	10000	41.2592	93.8546	-1022	QKA	2.2	0	7.7	1	1.1	0	0.291	-1	1.989	-1	6.829	0	1728	37	1.2
43057.7	10000	41.2598	93.8546	-1024	QKA	2.4	0	6.9	0	1.1	0	0.349	0	2.119	0	6.074	-1	1739	43	1.2
43057.6	10000	41.2603	93.8546	-1025	QKA	2.6	0	6.8	0	1.1	0	0.383	1	2.293	0	5.987	-1	1740	42	1.2
43057.5	10000	41.2608	93.8547	-1026	QKA	2.5	0	6.7	-1	1.1	0	0.371	0	2.241	0	6.046	-1	1750	60	1.2
43057.4	10000	41.2614	93.8547	-1027	QKA	2.4	0	7.1	0	1.1	0	0.338	0	2.222	0	6.577	0	1741	46	1.2
43057.3	10000	41.2619	93.8547	-1027	QKA	2.5	0	7.0	0	1.0	0	0.360	0	2.439	0	6.776	0	1754	48	1.2
43057.2	10000	41.2625	93.8548	-1028	QKA	2.5	0	6.9	0	1.0	0	0.370	0	2.470	0	6.671	0	1747	44	1.2
43057.1	10000	41.2630	93.8548	-1030	QKA	2.4	0	6.9	0	1.1	0	0.345	0	2.204	0	6.398	0	1741	42	1.2
43057.0	10000	41.2636	93.8548	-1031	QKA	2.5	0	7.0	0	1.1	0	0.354	0	2.362	0	6.681	0	1729	47	1.2
43056.9	10000	41.2641	93.8549	-1032	QKA	2.4	0	7.1	0	1.1	0	0.335	0	2.218	0	6.623	0	1737	33	1.2
43056.8	10000	41.2647	93.8548	-1034	QKA	2.3	0	7.6	1	1.2	1	0.295	-1	1.958	-1	6.627	0	1744	42	1.2
43056.7	10000	41.2652	93.8548	-1036	QKA	2.2	0	7.7	1	1.2	1	0.286	-1	1.810	-1	6.327	0	1751	49	1.2
43056.6	10000	41.2658	93.8548	-1038	QKA	2.1	-1	7.5	0	1.3	2	0.286	-1	1.664	-1	5.825	-1	1735	50	1.2
43056.5	10000	41.2663	93.8548	-1040	QKA	2.1	-1	7.7	1	1.3	2	0.266	-1	1.587	-1	5.960	-1	1729	43	1.2
43056.4	10000	41.2669	93.8547	-1042	QKA	2.2	0	7.7	1	1.3	1	0.281	-1	1.687	-1	5.995	-1	1723	39	1.2
43056.3	10000	41.2674	93.8547	-1045	QKA	1.9	-1	7.8	1	1.3	2	0.241	-1	1.435	-2	5.955	-1	1720	45	1.2
43056.2	10000	41.2680	93.8547	-1046	QKA	1.8	-1	8.3	2	1.3	2	0.220	-2	1.395	-2	6.336	0	1709	41	1.2
43056.1	10000	41.2685	93.8546	-1048	QKA	1.9	-1	8.1	1	1.3	2	0.230	-2	1.427	-2	6.213	-1	1687	45	1.2
43056.0	10000	41.2691	93.8546	-1050	QKA	1.8	-1	7.9	1	1.3	1	0.223	-2	1.367	-2	6.137	-1	1676	49	1.2
43055.9	10000	41.2696	93.8546	-1052	QKA	1.7	-1	8.3	1	1.2	1	0.205	-2	1.373	-2	6.703	0	1663	47	1.2
43055.8	10000	41.2702	93.8546	-1054	QKA	1.9	-1	7.8	1	1.2	1	0.242	-1	1.573	-1	6.493	0	1660	52	1.2
43055.7	10000	41.2707	93.8546	-1056	QKA	1.8	-1	7.7	1	1.2	1	0.232	-2	1.506	-1	6.494	0	1673	40	1.2
43055.6	10000	41.2713	93.8545	-1058	QKA	2.3	0	7.9	1	1.2	1	0.287	-1	1.918	-1	6.693	0	1700	44	1.2
43055.5	10000	41.2719	93.8545	-1060	QKA	2.4	0	7.2	0	1.2	1	0.339	0	2.105	0	6.205	-1	1715	49	1.2
43055.4	10000	41.2724	93.8545	-1062	QKA	2.4	0	7.4	1	1.2	1	0.331	0	2.117	0	6.390	0	1756	48	1.2
43055.3	10000	41.2730	93.8545	-1063	QKA	2.4	0	7.9	1	1.2	1	0.306	0	2.083	0	6.810	0	1794	45	1.2
43055.2	10000	41.2735	93.8544	-1065	QKA	2.3	0	7.8	1	1.2	1	0.300	-1	1.980	-1	6.593	0	1827	40	1.2
43055.1	10000	41.2741	93.8544	-1067	QKA	2.5	0	8.3	2	1.2	1	0.305	0	2.191	0	7.174	1	1839	44	1.2
43055.0	10000	41.2746	93.8544	-1069	QKA	2.6	0	8.1	1	1.1	1	0.319	0	2.291	0	7.179	1	1831	44	1.2
43054.9	10000	41.2752	93.8544	-1070	QKA	2.4	0	8.0	1	1.1	0	0.300	-1	2.201	0	7.333	1	1816	48	1.2
43054.8	10000	41.2757	93.8543	-1072	QKA	2.3	0	8.3	2	1.1	0	0.276	-1	2.008	-1	7.263	1	1836	46	1.2
43054.7	10000	41.2763	93.8543	-1074	QKA	2.4	0	8.1	1	1.1	0	0.299	-1	2.147	0	7.173	1	1833	43	1.2
43054.6	10000	41.2768	93.8543	-1075	QKA	2.6	0	7.6	1	1.1	0	0.334	0	2.297	0	6.868	0	1826	43	1.2
43054.5	10000	41.2774	93.8543	-1076	QKA	2.6	0	7.5	1	1.1	0	0.349	0	2.434	0	6.967	0	1800	49	1.2
43054.4	10000	41.2780	93.8542	-1078	QKA	2.7	1	7.1	1	1.1	1	0.379	1	2.449	0	6.457	0	1788	49	1.2
43054.3	10000	41.2785	93.8542	-1079	QKA	2.7	1	7.2	1	1.1	1	0.375	1	2.424	0	6.470	0	1782	39	1.2
43054.2	10000	41.2791	93.8542	-1080	QKA	2.7	1	6.9	1	1.1	1	0.389	1	2.415	0	6.203	-1	1757	36	1.2
43054.1	10000	41.2796	93.8542	-1080	QKA	2.6	0	6.7	-1	1.0	-1	0.394	1	2.597	1	6.598	0	1702	39	1.2
43054.0	10000	41.2802	93.8541	-1083	QKA	2.7	1	6.5	-1	1.0	0	0.408	1	2.636	1	6.454	0	1682	44	1.2
43053.9	10000	41.2807	93.8541	-1088	QKA	2.7	1	6.5	-1	1.0	-1	0.411	1	2.663	1	6.483	0	1662	39	1.2
43053.8	10000	41.2813	93.8541	-1090	QKA	2.7	1	6.6	-1	1.0	0	0.410	1	2.608	1	6.364	0	1672	51	1.2
43053.7	10000	41.2818	93.8541	-1091	QKA	2.5	1	6.8	0	1.0	0	0.362	0	2.435	1	6.719	0	1689	48	1.2
43053.6	10000	41.2824	93.8540	-1093	QKA	2.4	1	7.0	0	1.0	0	0.347	0	2.379	1	6.861	0	1705	43	1.2
43053.5	10000	41.2830	93.8540	-1094	QKA	2.7	1	7.1	1	1.0	0	0.378	1	2.634	1	6.967	0	1741	52	1.2
43053.4	10000	41.2835	93.8540	-1096	QKA	2.9	1	7.2	1	1.1	0	0.400	1	2.621	1	6.559	0	1789	32	1.2
43053.3	10000	41.2841	93.8540	-1097	QKA	2.9	1	6.9	0	1.1	0	0.419	1	2.681	1	6.397	0	1802	45	1.3
43053.2	10000	41.2846	93.8539	-1099	QKA	2.7	1	6.9	0	1.1	0	0.389	1	2.479	0	6.375	0	1809	46	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43053.1	10000	41.2852	93.8539	-1100	QKA	2.9	1	6.8	0	1.1	0	0.424	1	2.617	1	6.171	-1	1813	41	1.3
43053.0	10000	41.2857	93.8539	-1102	QKA	2.9	1	6.6	-1	1.1	0	0.447	2	2.662	1	5.957	-1	1803	36	1.3
43052.9	10000	41.2863	93.8539	-1103	QKA	3.0	1	6.5	-1	1.1	0	0.459	2	2.716	1	5.921	-1	1796	42	1.3
43052.8	10000	41.2868	93.8538	-1105	QKA	2.6	0	6.9	0	1.1	1	0.380	1	2.268	0	5.966	-1	1800	58	1.3
43052.7	10000	41.2874	93.8538	-1107	QKA	2.4	0	6.9	0	1.1	0	0.342	0	2.094	0	6.116	-1	1782	37	1.3
43052.6	10000	41.2879	93.8538	-1109	QKA	2.2	0	7.4	0	1.2	1	0.301	-1	1.937	-1	6.428	0	1776	51	1.3
43052.5	10000	41.2885	93.8538	-1110	QKA	2.6	0	7.7	1	1.1	0	0.333	0	2.230	0	6.686	0	1794	46	1.3
43052.4	10000	41.2890	93.8537	-1111	QKA	2.7	1	7.5	0	1.1	0	0.355	0	2.341	0	6.601	0	1812	42	1.3
43052.3	10000	41.2896	93.8537	-1113	QKA	2.7	1	7.6	1	1.2	1	0.353	0	2.256	0	6.393	0	1840	41	1.3
43052.2	10000	41.2901	93.8537	-1114	QKA	2.7	1	7.4	0	1.2	1	0.360	0	2.213	0	6.153	-1	1844	45	1.3
43052.1	10000	41.2907	93.8537	-1115	QKA	2.8	1	7.0	0	1.2	1	0.401	1	2.325	0	5.799	-1	1838	48	1.3
43052.0	10000	41.2913	93.8536	-1116	QKA	3.0	1	7.0	0	1.2	1	0.425	1	2.448	0	5.766	-1	1844	48	1.3
43051.9	10000	41.2918	93.8536	-1117	QKA	2.9	1	7.0	0	1.2	1	0.423	1	2.476	0	5.853	-1	1851	57	1.3
43051.8	10000	41.2924	93.8536	-1118	QKA	2.9	1	7.1	0	1.2	1	0.405	1	2.309	0	5.697	-1	1862	47	1.3
43051.7	10000	41.2929	93.8536	-1119	QKA	2.8	1	7.3	0	1.2	1	0.386	1	2.302	0	5.963	-1	1861	51	1.3
43051.6	10000	41.2935	93.8535	-1120	QKA	2.9	1	7.1	0	1.2	1	0.413	1	2.399	0	5.813	-1	1851	48	1.3
43051.5	10000	41.2940	93.8535	-1121	QKA	3.0	1	7.2	0	1.2	1	0.417	1	2.420	0	5.800	-1	1866	37	1.3
43051.4	10000	41.2946	93.8535	-1122	QKA	2.8	1	7.6	1	1.3	1	0.369	0	2.199	0	5.954	-1	1863	39	1.3
43051.3	10000	41.2951	93.8535	-1123	QKA	2.7	1	7.6	1	1.3	2	0.355	0	2.074	0	5.843	-1	1872	43	1.3
43051.2	10000	41.2957	93.8534	-1123	QKA	2.8	1	7.4	0	1.3	2	0.378	1	2.112	0	5.580	-1	1881	45	1.3
43051.1	10000	41.2962	93.8534	-1123	QKA	2.9	1	7.3	0	1.3	2	0.399	1	2.212	0	5.540	-1	1884	47	1.3
43051.0	10000	41.2968	93.8534	-1122	QKA	2.9	1	7.1	0	1.4	2	0.405	1	2.113	0	5.215	-2	1893	38	1.3
43050.9	10000	41.2974	93.8534	-1124	QKA	2.8	1	7.4	0	1.3	2	0.377	1	2.098	0	5.571	-1	1898	47	1.3
43050.8	10000	41.2979	93.8533	-1125	QKA	2.6	1	7.4	0	1.4	2	0.356	0	1.942	-1	5.459	-2	1922	54	1.3
43050.7	10000	41.2985	93.8533	-1126	QKA	2.7	1	7.3	0	1.3	2	0.365	0	2.022	0	5.532	-1	1936	39	1.3
43050.6	10000	41.2990	93.8533	-1127	QKA	2.7	1	7.3	0	1.3	2	0.371	0	2.061	0	5.559	-1	1947	43	1.3
43050.5	10000	41.2996	93.8533	-1127	QKA	2.7	1	7.5	1	1.3	2	0.360	0	2.095	0	5.823	-1	1947	49	1.3
43050.4	10000	41.3001	93.8532	-1127	QKA	2.5	1	7.7	1	1.3	2	0.322	-1	1.938	-1	6.010	-1	1949	40	1.3
43050.3	10000	41.3007	93.8532	-1127	QKA	2.5	1	8.2	1	1.3	2	0.311	0	2.002	0	6.446	0	1962	50	1.3
43050.2	10000	41.3012	93.8532	-1127	QKA	2.5	1	8.0	1	1.3	2	0.310	-1	1.929	-1	6.218	-1	1959	51	1.3
43050.1	10000	41.3018	93.8532	-1127	QKA	2.7	1	7.9	1	1.3	2	0.336	0	2.062	-1	6.201	-1	1937	58	1.3
43050.0	10000	41.3023	93.8531	-1128	QKA	2.8	1	8.0	1	1.3	2	0.352	0	2.229	0	6.335	0	1932	46	1.3
43049.9	10000	41.3029	93.8531	-1128	QKA	2.9	1	8.1	1	1.2	2	0.356	0	2.339	0	6.572	0	1923	48	1.3
43049.8	10000	41.3034	93.8531	-1128	QKA	2.9	1	8.1	1	1.2	2	0.354	0	2.329	0	6.581	0	1921	43	1.3
43049.7	10000	41.3040	93.8531	-1129	QKA	3.0	1	7.9	1	1.2	2	0.383	1	2.507	0	6.548	0	1914	46	1.3
43049.6	10000	41.3046	93.8530	-1128	QKA	2.9	1	7.5	1	1.2	1	0.384	1	2.453	0	6.393	0	1886	44	1.3
43049.5	10000	41.3051	93.8530	-1128	QKA	2.8	1	7.6	1	1.1	1	0.370	0	2.467	0	6.670	0	1860	51	1.3
43049.4	10000	41.3057	93.8530	-1128	QKA	2.9	1	7.7	1	1.1	1	0.373	1	2.687	1	7.204	1	1840	55	1.3
43049.3	10000	41.3062	93.8530	-1128	QKA	2.8	1	7.5	1	1.1	1	0.370	0	2.541	0	6.874	0	1813	45	1.3
43049.2	10000	41.3068	93.8529	-1127	QKA	2.7	1	7.2	1	1.1	1	0.379	1	2.460	0	6.494	0	1796	37	1.3
43049.1	10000	41.3073	93.8529	-1127	QKA	2.6	1	6.9	0	1.2	1	0.382	1	2.233	-1	5.851	-1	1795	38	1.3
43049.0	10000	41.3079	93.8529	-1126	QKA	2.7	1	7.0	0	1.2	1	0.381	1	2.193	-1	5.752	-1	1792	58	1.3
43048.9	10000	41.3084	93.8529	-1125	QKA	2.7	1	7.0	0	1.2	1	0.378	1	2.209	-1	5.840	-1	1778	53	1.3
43048.8	10000	41.3090	93.8528	-1125	QKA	2.7	1	7.3	0	1.2	1	0.371	0	2.162	-1	5.820	-1	1789	34	1.3
43048.7	10000	41.3095	93.8528	-1124	QKA	2.6	1	7.3	0	1.2	1	0.357	0	2.058	-1	5.766	-1	1810	45	1.3
43048.6	10000	41.3101	93.8528	-1122	QKA	2.4	1	7.6	0	1.2	1	0.318	-1	1.957	-1	6.155	-1	1827	53	1.3
43048.5	10000	41.3107	93.8528	-1121	QKA	2.3	1	7.8	0	1.2	1	0.293	-1	1.872	-1	6.381	0	1832	49	1.3
43048.4	10000	41.3112	93.8527	-1122	QKA	2.2	1	8.0	0	1.1	1	0.278	-1	1.895	-1	6.806	0	1831	37	1.3
43048.3	10000	41.3118	93.8527	-1122	QKA	2.3	1	8.0	0	1.1	1	0.294	-1	2.110	-1	7.186	1	1837	39	1.3
43048.2	10000	41.3123	93.8527	-1121	QKA	2.5	1	8.3	0	1.1	1	0.301	-1	2.196	-1	7.293	1	1874	54	1.3
43048.1	10000	41.3129	93.8527	-1121	QKA	2.5	1	8.4	1	1.2	1	0.293	-1	2.123	-1	7.233	1	1905	51	1.2
43048.0	10000	41.3134	93.8526	-1119	QKA	2.3	0	8.3	2	1.2	1	0.276	-1	1.927	-1	6.992	0	1920	50	1.2

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43047.9	10000	41.3140	93.8526	-1118	QKA	2.4	0	8.4	2	1.2	1	0.280	-1	1.887	-1	6.727	0	1932	53	1.2
43047.8	10000	41.3145	93.8526	-1117	QKA	2.2	0	8.7	2	1.3	1	0.257	-1	1.775	-1	6.914	0	1950	53	1.2
43047.7	10000	41.3151	93.8526	-1116	QKA	2.4	0	8.6	2	1.3	1	0.278	-1	1.876	-1	6.742	0	1952	44	1.2
43047.6	10000	41.3157	93.8525	-1115	QKA	2.1	-1	8.5	2	1.3	2	0.248	-1	1.621	-1	6.544	0	1942	50	1.2
43047.5	10000	41.3162	93.8525	-1114	QKA	2.1	-1	8.4	2	1.3	2	0.244	-1	1.562	-1	6.414	0	1927	43	1.2
43047.4	10000	41.3168	93.8525	-1113	QKA	2.2	0	8.7	2	1.3	1	0.249	-1	1.687	-1	6.786	0	1923	45	1.2
43047.3	10000	41.3173	93.8525	-1112	QKA	2.3	0	8.7	2	1.3	2	0.264	-1	1.756	-1	6.652	0	1921	48	1.2
43047.2	10000	41.3179	93.8524	-1111	QKA	2.2	0	8.4	2	1.3	2	0.266	-1	1.704	-1	6.402	0	1924	44	1.2
43047.1	10000	41.3184	93.8524	-1110	QKA	2.4	0	7.9	1	1.3	2	0.299	-1	1.797	-1	6.000	-1	1914	39	1.2
43047.0	10000	41.3190	93.8524	-1109	QKA	2.4	0	8.1	1	1.3	2	0.297	-1	1.854	-1	6.234	-1	1898	47	1.2
43046.9	10000	41.3195	93.8524	-1107	QKA	2.7	0	7.6	1	1.3	2	0.349	0	1.998	-1	5.724	-1	1897	45	1.2
43046.8	10000	41.3201	93.8523	-1106	QKA	2.6	0	8.0	1	1.3	2	0.321	0	1.902	-1	5.919	-1	1902	44	1.2
43046.7	10000	41.3206	93.8523	-1105	QKA	2.6	0	7.6	1	1.4	2	0.341	0	1.899	-1	5.568	-1	1905	50	1.2
43046.6	10000	41.3212	93.8523	-1103	QKA	2.4	0	7.8	1	1.3	2	0.312	0	1.862	-1	5.964	-1	1880	44	1.2
43046.5	10000	41.3217	93.8523	-1102	QKA	2.7	0	7.7	1	1.3	2	0.349	0	2.095	0	6.002	-1	1877	59	1.2
43046.4	10000	41.3223	93.8522	-1100	QKA	2.7	1	8.4	2	1.3	1	0.325	0	2.131	0	6.550	0	1871	46	1.2
43046.3	10000	41.3228	93.8522	-1099	QKA	2.8	1	8.2	1	1.3	1	0.346	0	2.239	0	6.462	0	1878	50	1.2
43046.2	10000	41.3234	93.8522	-1097	QKA	2.7	1	7.7	1	1.3	1	0.340	0	2.235	0	6.582	0	1873	50	1.2
43046.1	10000	41.3240	93.8522	-1096	QKA	2.7	1	7.7	1	1.2	1	0.355	0	2.257	0	6.350	0	1860	46	1.2
43046.0	10000	41.3245	93.8521	-1094	QKA	2.8	1	7.5	1	1.2	1	0.377	1	2.396	0	6.350	0	1855	51	1.2
43045.9	10000	41.3251	93.8521	-1092	QKA	2.9	1	7.2	1	1.2	1	0.394	1	2.363	0	5.991	-1	1861	58	1.2
43045.8	10000	41.3256	93.8521	-1091	QKA	2.5	0	7.4	1	1.2	1	0.342	0	2.153	0	6.302	0	1847	51	1.2
43045.7	10000	41.3262	93.8521	-1089	QKA	2.4	0	6.8	1	1.2	1	0.361	0	2.012	0	5.576	-1	1861	64	1.2
43045.6	10000	41.3267	93.8521	-1087	QKA	2.2	0	7.1	1	1.2	1	0.306	0	1.751	-1	5.728	-1	1864	53	1.2
43045.5	10000	41.3273	93.8520	-1085	QKA	2.0	-1	7.9	1	1.3	2	0.250	-1	1.536	-1	6.149	-1	1886	33	1.2
43045.4	10000	41.3278	93.8520	-1083	QKA	2.1	-1	7.9	1	1.3	2	0.263	-1	1.621	-1	6.170	-1	1892	38	1.2
43045.3	10000	41.3284	93.8520	-1082	QKA	2.0	-1	8.2	1	1.3	2	0.246	-1	1.573	-1	6.392	0	1897	45	1.2
43045.2	10000	41.3289	93.8519	-1079	QKA	2.2	0	8.3	1	1.3	2	0.269	-1	1.743	-1	6.474	0	1901	55	1.2
43045.1	10000	41.3295	93.8519	-1078	QKA	2.6	0	8.0	1	1.3	1	0.326	0	2.053	0	6.300	0	1910	45	1.2
43045.0	10000	41.3301	93.8519	-1076	QKA	2.7	1	8.2	1	1.3	1	0.332	0	2.148	0	6.472	0	1902	46	1.2
43044.9	10000	41.3306	93.8519	-1074	QKA	2.8	1	8.1	1	1.3	1	0.353	0	2.250	0	6.369	0	1900	51	1.2
43044.8	10000	41.3312	93.8519	-1072	QKA	3.0	1	7.9	1	1.2	1	0.381	1	2.449	0	6.431	0	1899	46	1.2
43044.7	10000	41.3317	93.8518	-1070	QKA	3.0	1	8.0	1	1.3	1	0.371	0	2.370	0	6.392	0	1900	43	1.2
43044.6	10000	41.3323	93.8518	-1067	QKA	2.8	1	7.6	1	1.3	2	0.367	0	2.122	0	5.787	-1	1890	50	1.1
43044.5	10000	41.3328	93.8518	-1065	QKA	2.5	0	7.9	1	1.4	2	0.318	0	1.863	-1	5.857	-1	1900	48	1.1
43044.4	10000	41.3334	93.8517	-1062	QKA	2.3	0	7.9	1	1.4	2	0.290	-1	1.683	-1	5.809	-1	1898	43	1.1
43044.3	10000	41.3339	93.8517	-1060	QKA	2.4	0	8.0	1	1.4	2	0.298	-1	1.762	-1	5.912	-1	1902	36	1.1
43044.2	10000	41.3345	93.8517	-1057	QKA	2.4	0	7.7	1	1.4	2	0.312	0	1.762	-1	5.654	-1	1901	48	1.1
43044.1	10000	41.3350	93.8517	-1055	QKA	2.4	0	7.5	1	1.4	2	0.325	0	1.791	-1	5.518	-1	1889	47	1.1
43044.0	10000	41.3356	93.8517	-1053	QKA	2.2	0	7.3	1	1.4	2	0.308	0	1.645	-1	5.341	-2	1888	42	1.1
43043.9	10000	41.3362	93.8516	-1050	QKA	2.2	0	7.5	1	1.4	2	0.293	-1	1.619	-1	5.515	-1	1890	50	1.1
43043.8	10000	41.3367	93.8516	-1047	QKA	2.4	0	7.2	1	1.3	2	0.332	0	1.846	-1	5.555	-1	1868	46	1.1
43043.7	10000	41.3373	93.8516	-1045	QKA	2.5	0	7.3	1	1.3	2	0.348	0	1.935	-1	5.565	-1	1869	51	1.1
43043.6	10000	41.3378	93.8515	-1042	QKA	2.6	0	6.9	1	1.3	2	0.378	1	1.991	-1	5.268	-2	1865	52	1.1
43043.5	10000	41.3384	93.8515	-1039	QKA	2.7	1	6.8	1	1.3	1	0.396	1	2.128	0	5.369	-2	1855	45	1.1
43043.4	10000	41.3389	93.8515	-1036	QKA	2.7	1	7.0	1	1.3	1	0.379	1	2.117	0	5.587	-1	1841	34	1.1
43043.3	10000	41.3395	93.8515	-1032	QKA	2.9	1	7.2	1	1.2	1	0.396	1	2.331	0	5.882	-1	1832	48	1.1
43043.2	10000	41.3400	93.8515	-1029	QKA	2.9	1	7.4	1	1.2	1	0.397	1	2.402	0	6.044	-1	1820	41	1.1
43043.1	10000	41.3406	93.8514	-1026	QKA	2.9	1	7.1	1	1.2	1	0.406	1	2.302	0	5.671	-1	1818	39	1.1
43043.0	10000	41.3411	93.8514	-1022	QKA	2.7	1	7.1	1	1.2	1	0.380	1	2.181	0	5.740	-1	1803	47	1.1
43042.9	10000	41.3417	93.8514	-1019	QKA	2.5	1	7.6	1	1.2	1	0.333	0	2.072	0	6.223	-1	1796	48	1.1
43042.8	10000	41.3422	93.8513	-1015	QKA	2.5	0	8.1	1	1.2	1	0.305	0	1.974	-1	6.465	0	1810	53	1.1

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43042.7	10000	41.3428	93.8513	-1011	QKA	2.6	0	7.8	1	1.3	2	0.329	0	1.987	-1	6.038	-1	1816	45	1.1
43042.6	10000	41.3434	93.8513	-1008	QKA	2.5	0	7.2	1	1.3	1	0.340	0	1.960	-1	5.765	-1	1824	59	1.1
43042.5	10000	41.3439	93.8513	-1004	QKA	2.6	0	7.0	0	1.2	1	0.377	1	2.109	0	5.595	-1	1829	46	1.1
43042.4	10000	41.3445	93.8513	-1001	QKA	2.8	1	7.1	0	1.2	1	0.395	1	2.248	0	5.697	-1	1829	39	1.1
43042.3	10000	41.3450	93.8512	-998	QAL	3.0	1	7.0	0	1.2	1	0.432	1	2.525	0	5.850	0	1830	50	1.1
43042.2	10000	41.3456	93.8512	-995	QAL	3.0	1	6.9	0	1.1	0	0.443	1	2.649	1	5.985	0	1800	40	1.1
43042.1	10000	41.3461	93.8512	-991	QAL	2.9	1	6.4	0	1.1	0	0.455	1	2.605	1	5.719	-1	1762	44	1.1
43042.0	10000	41.3467	93.8512	-987	QAL	2.6	0	6.4	0	1.1	0	0.413	1	2.408	0	5.834	0	1727	44	1.1
43041.9	10000	41.3472	93.8511	-984	QAL	2.7	0	6.3	0	1.1	0	0.422	1	2.444	0	5.794	0	1688	42	1.1
43041.8	10000	41.3478	93.8511	-981	QAL	2.5	0	6.4	0	1.1	0	0.392	1	2.259	0	5.763	0	1672	56	1.1
43041.7	10000	41.3484	93.8511	-977	QAL	2.3	0	6.6	0	1.1	0	0.347	0	2.144	0	6.183	0	1662	45	1.1
43041.6	10000	41.3489	93.8511	-974	QAL	2.4	0	6.5	0	1.1	0	0.375	0	2.262	0	6.039	0	1641	50	1.1
43041.5	10000	41.3495	93.8511	-971	QAL	2.6	0	6.1	0	1.1	0	0.423	0	2.369	0	5.807	-1	1656	38	1.1
43041.4	10000	41.3500	93.8511	-968	QAL	2.7	0	6.1	0	1.1	0	0.440	1	2.464	0	5.597	-1	1672	41	1.1
43041.3	10000	41.3506	93.8511	-966	QAL	2.8	1	6.2	0	1.1	0	0.448	1	2.470	0	5.519	-1	1695	49	1.0
43041.2	10000	41.3511	93.8511	-964	QAL	2.8	1	6.8	1	1.2	1	0.408	1	2.411	0	5.910	0	1734	38	1.0
43041.1	10000	41.3517	93.8512	-961	QAL	2.9	1	7.0	0	1.1	0	0.421	1	2.510	1	6.382	0	1737	41	1.0
43041.0	10000	41.3522	93.8512	-959	QKA	2.9	1	6.8	1	1.2	1	0.421	1	2.510	1	5.966	-1	1747	58	1.0
43040.9	10000	41.3528	93.8512	-956	QKA	2.6	1	6.8	1	1.2	1	0.378	1	2.212	0	5.847	-1	1759	44	1.0
43040.8	10000	41.3533	93.8512	-954	QKA	2.3	0	7.1	1	1.2	1	0.325	0	1.963	-1	6.048	-1	1769	54	1.0
43040.7	10000	41.3539	93.8512	-952	QKA	2.1	-1	7.4	1	1.2	1	0.283	-1	1.751	-1	6.179	-1	1756	40	1.0
43040.6	10000	41.3544	93.8512	-949	QKA	2.2	0	7.5	1	1.1	0	0.295	-1	1.974	-1	6.696	0	1751	49	1.0
43040.5	10000	41.3550	93.8513	-948	QKA	2.4	0	7.2	1	1.1	0	0.330	0	2.077	0	6.298	0	1742	41	1.0
43040.4	10000	41.3555	93.8513	-946	QKA	2.4	0	7.1	0	1.2	0	0.333	0	2.066	0	6.209	-1	1737	42	1.0
43040.3	10000	41.3561	93.8513	-943	QKA	2.6	0	7.5	1	1.1	0	0.345	0	2.360	0	6.850	0	1730	53	1.0
43040.2	10000	41.3566	93.8513	-942	QKA	2.8	1	7.5	1	1.1	0	0.368	0	2.483	0	6.741	0	1742	45	1.0
43040.1	10000	41.3572	93.8513	-940	QKA	3.0	1	7.8	1	1.1	0	0.384	1	2.631	1	6.854	0	1744	54	1.0
43040.0	10000	41.3577	93.8513	-938	QKA	3.3	2	7.8	1	1.2	1	0.426	1	2.854	1	6.699	0	1776	54	1.0
43039.9	10000	41.3583	93.8514	-936	QKA	3.2	2	8.0	1	1.2	1	0.398	1	2.696	1	6.773	0	1777	42	1.0
43039.8	10000	41.3588	93.8514	-935	QKA	2.8	1	8.2	1	1.2	1	0.343	1	2.404	0	7.016	0	1774	51	1.0
43039.7	10000	41.3594	93.8514	-932	QKA	2.8	1	8.2	1	1.2	1	0.347	0	2.452	0	7.069	0	1770	52	1.0
43039.6	10000	41.3599	93.8514	-931	QKA	2.8	1	8.0	1	1.2	1	0.355	0	2.463	0	6.932	0	1754	37	1.0
43039.5	10000	41.3605	93.8515	-929	QKA	2.6	1	8.1	1	1.1	1	0.315	0	2.294	0	7.274	1	1753	46	1.0
43039.4	10000	41.3610	93.8515	-928	QKA	2.5	1	8.0	1	1.1	1	0.318	0	2.285	0	7.193	1	1739	45	1.0
43039.3	10000	41.3616	93.8515	-926	QKA	2.2	0	7.7	1	1.1	1	0.283	-1	1.996	-1	7.065	0	1697	48	1.0
43039.2	10000	41.3621	93.8515	-925	QKA	2.1	-1	7.5	1	1.0	0	0.279	-1	1.987	-1	7.112	1	1675	50	1.0
43039.1	10000	41.3627	93.8515	-924	QKA	2.2	0	7.5	1	1.1	0	0.290	-1	2.067	-1	7.124	1	1658	39	1.0
43039.0	10000	41.3632	93.8515	-923	QKA	2.0	-1	7.3	1	1.1	0	0.278	-1	1.921	-1	6.922	0	1662	35	1.0
43038.9	10000	41.3638	93.8516	-922	QKA	1.9	-1	7.0	1	1.1	0	0.273	-1	1.747	-1	6.393	0	1682	58	1.0
43038.8	10000	41.3643	93.8516	-921	QKA	1.9	-1	7.2	1	1.1	0	0.264	-1	1.688	-1	6.382	0	1693	49	1.0
43038.7	10000	41.3649	93.8516	-920	QKA	1.7	-1	7.3	1	1.1	0	0.240	-1	1.571	-1	6.550	0	1701	56	1.0
43038.6	10000	41.3655	93.8516	-919	QKA	1.8	-1	7.9	1	1.1	0	0.225	-2	1.591	-1	7.079	0	1728	33	1.0
43038.5	10000	41.3660	93.8516	-918	QKA	2.0	-1	7.5	1	1.2	1	0.261	-1	1.674	-1	6.401	0	1759	45	1.0
43038.4	10000	41.3666	93.8517	-917	QKA	2.2	0	7.5	1	1.2	1	0.288	-1	1.866	-1	6.488	0	1758	54	1.0
43038.3	10000	41.3671	93.8517	-915	QKA	2.4	0	7.8	1	1.2	1	0.295	-1	1.936	-1	6.556	0	1770	45	1.0
43038.2	10000	41.3677	93.8517	-916	QKA	2.4	0	8.0	1	1.2	1	0.298	-1	2.061	0	6.919	0	1781	43	1.0
43038.1	10000	41.3682	93.8517	-917	QKA	2.4	0	7.8	1	1.1	1	0.303	-1	2.050	0	6.769	0	1784	41	1.0
43038.0	10000	41.3688	93.8517	-916	QKA	2.3	0	7.7	1	1.2	1	0.302	-1	1.960	-1	6.490	0	1786	50	1.0
43037.9	10000	41.3693	93.8517	-915	QKA	2.5	0	7.3	1	1.2	1	0.336	0	2.090	0	6.229	-1	1791	48	1.0
43037.8	10000	41.3699	93.8518	-914	QKA	2.5	0	7.6	1	1.2	1	0.330	0	2.141	0	6.483	0	1793	52	1.0
43037.7	10000	41.3704	93.8518	-913	QKA	2.5	0	7.5	1	1.2	1	0.329	0	2.108	0	6.417	0	1807	57	1.0
43037.6	10000	41.3710	93.8518	-913	QKA	2.6	0	7.6	1	1.2	1	0.339	0	2.215	0	6.540	0	1802	39	1.0

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43037.5	10000	41.3715	93.8518	-912	QKA	2.3	0	7.6	1	1.2	1	0.306	0	2.011	0	6.567	0	1796	53	1.0
43037.4	10000	41.3721	93.8518	-911	QKA	2.4	0	7.9	1	1.2	1	0.309	0	2.095	0	6.779	0	1785	50	1.0
43037.3	10000	41.3726	93.8519	-908	QKA	2.6	1	7.9	1	1.2	1	0.335	0	2.262	0	6.743	0	1789	52	1.0
43037.2	10000	41.3732	93.8519	-907	QKA	2.6	1	7.9	1	1.1	0	0.337	0	2.354	0	6.990	0	1762	33	1.0
43037.1	10000	41.3737	93.8519	-906	QKA	2.6	0	7.9	1	1.1	0	0.331	0	2.433	0	7.341	1	1753	39	1.0
43037.0	10000	41.3743	93.8519	-904	QKA	2.5	0	7.9	1	1.1	0	0.315	0	2.346	0	7.439	1	1748	43	1.0
43036.9	10000	41.3748	93.8519	-903	QKA	2.3	0	7.6	1	1.1	0	0.307	0	2.222	0	7.233	1	1725	37	1.0
43036.8	10000	41.3754	93.8519	-902	QKA	2.4	0	7.7	1	1.1	0	0.306	0	2.238	0	7.316	1	1694	39	1.0
43036.7	10000	41.3759	93.8520	-900	QKA	2.4	0	7.3	0	1.0	0	0.328	0	2.338	0	7.128	1	1668	48	1.0
43036.6	10000	41.3765	93.8520	-898	QKA	2.2	-1	7.1	0	1.0	-1	0.302	-1	2.156	0	7.147	1	1631	55	1.0
43036.5	10000	41.3770	93.8520	-897	QKA	2.1	-1	7.0	0	1.0	-1	0.298	-1	2.179	0	7.321	1	1607	56	1.0
43036.4	10000	41.3776	93.8520	-895	QKA	2.3	0	6.9	0	1.0	-1	0.328	0	2.346	0	7.147	1	1587	39	1.0
43036.3	10000	41.3781	93.8521	-894	QKA	2.3	0	6.9	0	1.0	-1	0.324	0	2.315	0	7.140	1	1574	43	1.0
43036.2	10000	41.3787	93.8521	-893	QKA	2.3	0	7.2	0	1.0	-1	0.317	0	2.406	0	7.590	1	1573	48	1.0
43036.1	10000	41.3792	93.8521	-890	QKA	2.4	0	7.0	0	0.9	-1	0.347	0	2.656	1	7.659	1	1586	43	1.0
43036.0	10000	41.3798	93.8521	-888	QKA	2.5	0	7.1	0	0.9	-1	0.354	0	2.772	1	7.834	1	1595	48	1.0
43035.9	10000	41.3804	93.8521	-886	QKA	2.6	0	7.0	0	0.9	-1	0.374	1	2.927	1	7.833	1	1594	43	1.0
43035.8	10000	41.3809	93.8521	-886	QKA	2.5	0	7.3	0	0.9	-1	0.345	0	2.695	1	7.811	1	1616	41	1.0
43035.7	10000	41.3815	93.8522	-884	QKA	2.2	0	7.5	1	1.0	-1	0.290	-1	2.292	0	7.915	2	1614	41	1.0
43035.6	10000	41.3820	93.8522	-883	QKA	2.1	-1	7.2	0	0.9	-1	0.297	-1	2.276	0	7.655	1	1607	38	1.0
43035.5	10000	41.3826	93.8522	-882	QKA	2.0	-1	6.9	0	0.9	-1	0.293	-1	2.199	0	7.494	1	1592	46	1.0
43035.4	10000	41.3831	93.8522	-881	QKA	1.9	-1	6.8	0	1.0	-1	0.287	-1	2.046	0	7.122	1	1567	52	1.0
43035.3	10000	41.3837	93.8522	-881	QKA	1.9	-1	6.6	-1	0.9	-1	0.284	-1	2.000	-1	7.040	0	1552	50	1.0
43035.2	10000	41.3842	93.8522	-880	QKA	1.9	-1	6.8	0	0.9	-1	0.277	-1	2.040	0	7.357	1	1559	51	1.1
43035.1	10000	41.3848	93.8523	-880	QKA	1.9	-1	6.1	-1	0.9	-1	0.317	0	2.081	0	6.573	0	1536	60	1.1
43035.0	10000	41.3853	93.8523	-879	QKA	1.9	-1	6.2	-1	0.9	-1	0.307	0	2.045	0	6.662	0	1526	48	1.1
43034.9	10000	41.3859	93.8523	-879	QKA	2.1	-1	6.3	-1	0.9	-1	0.332	0	2.261	0	6.809	0	1521	29	1.1
43034.8	10000	41.3864	93.8523	-879	QKA	2.2	0	6.3	-1	1.0	-1	0.351	0	2.284	0	6.510	0	1534	59	1.1
43034.7	10000	41.3870	93.8523	-879	QKA	2.2	0	6.6	-1	1.0	-1	0.334	0	2.272	0	6.809	0	1558	46	1.1
43034.6	10000	41.3875	93.8524	-879	QKA	2.1	-1	7.0	0	1.0	-1	0.302	-1	2.129	0	7.052	0	1568	47	1.1
43034.5	10000	41.3881	93.8524	-880	QKA	1.9	-1	6.9	0	1.0	0	0.282	-1	1.924	-1	6.822	0	1567	46	1.1
43034.4	10000	41.3886	93.8524	-881	QKA	2.2	0	7.3	0	1.0	0	0.301	-1	2.138	0	7.107	1	1594	38	1.1
43034.3	10000	41.3892	93.8524	-882	QKA	2.2	0	7.2	0	1.0	0	0.308	0	2.132	0	6.917	1	1613	58	1.1
43034.2	10000	41.3897	93.8524	-883	QKA	2.2	0	7.4	0	1.1	0	0.296	-1	2.049	0	6.919	1	1633	51	1.1
43034.1	10000	41.3903	93.8524	-885	QKA	2.2	0	7.7	1	1.1	0	0.285	-1	2.050	0	7.188	1	1640	47	1.1
43034.0	10000	41.3908	93.8525	-886	QKA	2.2	0	7.5	0	1.1	0	0.299	-1	2.115	0	7.083	1	1633	48	1.1
43033.9	10000	41.3914	93.8525	-888	QKA	2.5	0	7.2	0	1.0	0	0.345	0	2.372	0	6.881	0	1638	35	1.1
43033.8	10000	41.3919	93.8525	-890	QKA	2.8	1	7.0	0	1.0	0	0.392	1	2.665	0	6.803	0	1646	52	1.1
43033.7	10000	41.3925	93.8525	-892	QKA	2.4	0	7.2	0	1.0	0	0.336	0	2.353	0	7.011	1	1644	53	1.1
43033.6	10000	41.3930	93.8525	-895	QKA	2.7	1	7.1	0	1.0	0	0.382	1	2.638	1	6.913	1	1644	43	1.1
43033.5	10000	41.3936	93.8526	-899	QKA	2.7	1	6.8	0	1.0	0	0.404	1	2.696	1	6.665	1	1643	45	1.1
43033.4	10000	41.3941	93.8526	-902	QKA	2.8	1	6.5	-1	1.0	0	0.432	1	2.786	1	6.449	1	1647	50	1.0
43033.3	10000	41.3947	93.8526	-905	QAL	2.8	1	6.4	0	1.0	0	0.434	1	2.692	1	6.199	1	1654	34	1.1
43033.2	10000	41.3952	93.8526	-909	QAL	2.7	0	6.5	0	1.0	0	0.411	0	2.632	1	6.397	1	1657	48	1.1
43033.1	10000	41.3958	93.8526	-913	QAL	2.5	0	6.7	0	1.0	0	0.375	0	2.479	1	6.603	1	1649	47	1.1
43033.0	10000	41.3964	93.8527	-917	QAL	2.8	1	6.2	0	1.0	0	0.447	1	2.770	1	6.201	1	1648	38	1.1
43032.9	10000	41.3969	93.8527	-922	QAL	2.5	0	6.0	0	1.0	0	0.407	0	2.461	0	6.045	1	1621	54	1.1
43032.8	10000	41.3975	93.8527	-926	QAL	2.0	-1	5.8	-1	1.0	-1	0.346	-1	2.027	-1	5.850	0	1603	40	1.1
43032.7	10000	41.3980	93.8527	-930	QAL	1.9	-1	5.8	-1	1.0	-1	0.336	-1	1.992	-1	5.938	0	1580	35	1.1
43032.6	10000	41.3986	93.8527	-935	QAL	2.2	0	5.7	-1	1.0	-1	0.387	0	2.251	0	5.812	0	1556	44	1.1
43032.5	10000	41.3991	93.8528	-939	QAL	2.1	-1	5.5	-1	1.0	-1	0.376	0	2.134	0	5.675	-1	1537	51	1.1
43032.4	10000	41.3997	93.8528	-944	QAL	2.2	0	5.3	-1	1.0	-1	0.415	0	2.293	0	5.527	-1	1531	46	1.1

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43032.3	10000	41.4002	93.8528	-948	QAL	2.0	-1	5.5	-1	1.0	-1	0.360	0	2.016	-1	5.599	-1	1527	36	1.1
43032.2	10000	41.4008	93.8528	-953	QAL	2.1	-1	5.9	-1	1.0	-1	0.359	0	2.178	0	6.071	0	1539	39	1.1
43032.1	10000	41.4013	93.8528	-957	QAL	2.5	0	6.2	0	1.0	-1	0.402	0	2.525	0	6.283	0	1540	41	1.1
43032.0	10000	41.4019	93.8528	-962	QAL	2.6	0	6.1	0	1.0	0	0.418	0	2.551	0	6.100	0	1570	47	1.1
43031.9	10000	41.4024	93.8529	-966	QAL	2.5	0	6.4	0	1.0	-1	0.389	0	2.480	0	6.371	0	1609	46	1.1
43031.8	10000	41.4030	93.8529	-972	QAL	2.6	0	6.5	0	1.0	0	0.398	0	2.492	0	6.264	0	1644	43	1.1
43031.7	10000	41.4035	93.8529	-976	QKA	2.9	1	6.8	0	1.1	0	0.418	1	2.623	1	6.271	-1	1680	51	1.1
43031.6	10000	41.4041	93.8529	-980	QKA	3.0	1	6.8	0	1.1	0	0.442	2	2.708	1	6.131	-1	1710	45	1.1
43031.5	10000	41.4046	93.8529	-984	QKA	3.1	1	6.5	-1	1.1	0	0.479	2	2.729	1	5.704	-1	1745	51	1.1
43031.4	10000	41.4052	93.8530	-989	QKA	3.3	2	7.0	0	1.1	0	0.467	2	3.013	2	6.454	0	1783	43	1.1
43031.3	10000	41.4057	93.8530	-993	QKA	3.3	2	7.5	0	1.1	0	0.440	1	3.014	2	6.848	0	1794	54	1.1
43031.2	10000	41.4063	93.8530	-997	QKA	3.2	2	7.3	0	1.1	0	0.433	1	2.945	1	6.807	0	1792	33	1.1
43031.1	10000	41.4068	93.8530	-1002	QKA	3.1	2	7.5	0	1.1	0	0.419	1	2.965	1	7.083	0	1803	43	1.1
43031.0	10000	41.4074	93.8530	-1006	QKA	2.9	1	7.3	0	1.0	0	0.392	1	2.774	1	7.068	0	1790	48	1.1
43030.9	10000	41.4079	93.8530	-1009	QKA	3.2	2	7.6	1	1.0	-1	0.423	1	3.380	2	7.997	2	1798	46	1.1
43030.8	10000	41.4085	93.8531	-1013	QKA	3.2	2	8.0	1	1.0	-1	0.397	1	3.292	2	8.289	2	1796	37	1.1
43030.7	10000	41.4090	93.8531	-1017	QKA	2.9	1	8.0	1	1.0	-1	0.370	0	3.012	2	8.150	2	1794	36	1.1
43030.6	10000	41.4096	93.8531	-1021	QKA	2.9	1	8.0	1	1.0	0	0.365	0	2.877	1	7.878	1	1783	49	1.1
43030.5	10000	41.4101	93.8531	-1025	QKA	2.9	1	7.9	1	1.0	-1	0.367	0	2.925	1	7.978	2	1757	44	1.1
43030.4	10000	41.4107	93.8531	-1029	QKA	3.0	1	7.8	1	1.0	0	0.383	1	2.930	1	7.653	1	1726	46	1.1
43030.3	10000	41.4113	93.8532	-1032	QKA	2.9	1	7.6	1	1.1	0	0.385	1	2.789	1	7.242	1	1725	53	1.1
43030.2	10000	41.4118	93.8532	-1036	QKA	2.5	0	7.4	0	1.1	0	0.339	0	2.402	0	7.075	0	1707	34	1.1
43030.1	10000	41.4124	93.8532	-1039	QKA	2.7	1	7.5	0	1.0	0	0.360	0	2.660	1	7.378	1	1682	50	1.1
43030.0	10000	41.4129	93.8532	-1043	QKA	2.6	0	7.4	0	1.0	0	0.350	0	2.543	1	7.267	1	1669	51	1.1
43029.9	10000	41.4135	93.8532	-1046	QKA	2.4	0	7.1	0	1.0	-1	0.341	0	2.482	0	7.286	1	1649	46	1.0
43029.8	10000	41.4140	93.8533	-1050	QKA	2.5	0	7.2	0	1.0	-1	0.347	0	2.489	0	7.181	1	1658	52	1.0
43029.7	10000	41.4146	93.8533	-1054	QKA	2.5	0	7.3	0	1.0	-1	0.343	0	2.517	1	7.331	1	1664	41	1.0
43029.6	10000	41.4151	93.8533	-1058	QKA	2.5	0	7.7	1	1.0	-1	0.328	0	2.539	1	7.734	1	1690	44	1.0
43029.5	10000	41.4157	93.8533	-1061	QKA	2.7	1	7.7	1	1.0	0	0.344	0	2.618	1	7.609	1	1693	46	1.0
43029.4	10000	41.4162	93.8533	-1065	QKA	2.7	1	7.3	0	1.0	0	0.364	0	2.577	1	7.090	0	1714	46	1.0
43029.3	10000	41.4168	93.8533	-1068	QKA	2.9	1	7.2	0	1.1	0	0.401	1	2.665	1	6.650	0	1728	43	1.0
43029.2	10000	41.4173	93.8534	-1071	QKA	3.2	2	7.5	1	1.1	0	0.421	1	2.938	1	6.972	0	1757	41	1.0
43029.1	10000	41.4179	93.8534	-1074	QKA	2.9	1	7.7	1	1.1	0	0.380	1	2.726	1	7.182	1	1779	36	1.0
43029.0	10000	41.4184	93.8534	-1077	QKA	2.8	1	7.7	1	1.1	0	0.370	1	2.601	1	7.028	0	1804	43	1.0
43028.9	10000	41.4190	93.8534	-1080	QKA	2.7	1	7.6	1	1.1	0	0.353	1	2.514	1	7.111	1	1796	42	1.0
43028.8	10000	41.4195	93.8534	-1082	QKA	2.4	0	7.6	1	1.1	0	0.320	0	2.255	0	7.039	0	1795	51	1.0
43028.7	10000	41.4201	93.8535	-1085	QKA	2.2	0	7.6	1	1.1	0	0.287	-1	2.009	0	7.001	0	1784	42	1.0
43028.6	10000	41.4206	93.8535	-1088	QKA	2.2	0	7.3	0	1.1	0	0.300	-1	2.059	0	6.853	0	1760	47	1.0
43028.5	10000	41.4212	93.8535	-1091	QKA	2.1	-1	7.2	0	1.1	0	0.289	-1	1.970	-1	6.820	0	1741	53	1.0
43028.4	10000	41.4217	93.8535	-1094	QKA	2.1	-1	7.0	0	1.1	0	0.307	0	2.033	0	6.624	0	1725	37	1.0
43028.3	10000	41.4223	93.8535	-1096	QKA	2.2	0	6.9	0	1.1	0	0.315	0	2.053	0	6.522	0	1697	46	1.0
43028.2	10000	41.4228	93.8535	-1099	QKA	2.1	-1	6.8	0	1.1	0	0.314	-1	1.993	-1	6.341	0	1668	51	1.0
43028.1	10000	41.4234	93.8536	-1101	QKA	2.1	-1	6.4	-1	1.0	0	0.336	0	2.049	0	6.106	-1	1644	50	1.0
43028.0	10000	41.4239	93.8536	-1104	QKA	2.4	0	6.7	-1	1.0	0	0.354	0	2.273	0	6.416	0	1636	45	1.0
43027.9	10000	41.4245	93.8536	-1106	QKA	2.4	0	6.5	-1	1.0	0	0.364	0	2.308	0	6.337	0	1628	49	1.1
43027.8	10000	41.4250	93.8536	-1109	QKA	2.3	0	6.4	-1	1.1	0	0.360	0	2.202	0	6.110	-1	1631	53	1.0
43027.7	10000	41.4256	93.8536	-1110	QKA	2.6	0	6.6	-1	1.1	0	0.389	1	2.401	0	6.168	-1	1631	53	1.0
43027.6	10000	41.4261	93.8537	-1110	QKA	2.7	1	6.5	-1	1.1	0	0.413	1	2.524	1	6.115	-1	1641	50	1.0
43027.5	10000	41.4267	93.8537	-1112	QKA	2.9	1	6.6	-1	1.0	0	0.434	1	2.770	1	6.387	0	1659	34	1.0
43027.4	10000	41.4272	93.8537	-1116	QKA	3.0	1	7.1	0	1.1	0	0.421	1	2.829	1	6.718	0	1683	38	1.0
43027.3	10000	41.4278	93.8537	-1118	QKA	2.9	1	6.8	0	1.1	0	0.427	1	2.694	1	6.309	0	1689	48	1.0
43027.2	10000	41.4284	93.8537	-1120	QKA	3.0	1	7.1	0	1.1	0	0.419	1	2.735	1	6.532	0	1697	40	1.0

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43027.1	10000	41.4289	93.8538	-1123	QKA	3.1	2	7.0	0	1.1	0	0.448	2	2.976	1	6.639	0	1694	51	1.0
43027.0	10000	41.4295	93.8538	-1125	QKA	2.9	1	6.6	-1	1.0	0	0.439	1	2.811	1	6.398	0	1685	52	1.1
43026.9	10000	41.4300	93.8538	-1126	QKA	2.6	0	6.7	-1	1.0	0	0.387	1	2.567	1	6.641	0	1662	45	1.1
43026.8	10000	41.4306	93.8538	-1127	QKA	2.5	0	6.2	-1	1.0	0	0.397	1	2.417	0	6.086	-1	1643	43	1.1
43026.7	10000	41.4311	93.8538	-1128	QKA	2.5	0	6.1	-1	1.0	0	0.413	1	2.491	0	6.027	-1	1637	53	1.1
43026.6	10000	41.4317	93.8539	-1129	QKA	2.5	0	6.2	-1	1.0	0	0.405	1	2.456	0	6.058	-1	1637	49	1.1
43026.5	10000	41.4322	93.8539	-1131	QKA	2.3	0	6.4	-1	1.0	-1	0.366	0	2.323	0	6.354	0	1644	47	1.1
43026.4	10000	41.4328	93.8539	-1132	QKA	2.0	-1	6.5	-1	1.0	0	0.307	0	1.962	-1	6.388	0	1652	45	1.1
43026.3	10000	41.4333	93.8539	-1133	QKA	2.2	-1	6.9	0	1.1	0	0.311	0	1.999	-1	6.424	0	1674	47	1.1
43026.2	10000	41.4339	93.8539	-1134	QKA	2.2	0	6.8	0	1.1	0	0.324	0	2.003	0	6.183	-1	1694	54	1.0
43026.1	10000	41.4344	93.8539	-1135	QKA	2.4	0	7.2	0	1.1	0	0.328	0	2.089	0	6.378	0	1729	54	1.0
43026.0	10000	41.4350	93.8540	-1136	QKA	2.3	0	7.2	0	1.1	0	0.320	0	2.042	0	6.381	0	1749	41	1.0
43025.9	10000	41.4355	93.8540	-1137	QKA	2.4	0	7.2	0	1.1	0	0.339	0	2.174	0	6.408	0	1776	40	1.0
43025.8	10000	41.4361	93.8540	-1138	QKA	2.3	0	7.4	0	1.2	1	0.312	0	1.983	-1	6.360	0	1799	48	1.0
43025.7	10000	41.4366	93.8540	-1139	QKA	2.6	0	7.5	0	1.2	1	0.345	0	2.117	0	6.131	-1	1822	40	1.0
43025.6	10000	41.4372	93.8540	-1140	QKA	2.5	0	7.2	0	1.2	1	0.341	0	2.026	0	5.948	-1	1844	39	1.0
43025.5	10000	41.4377	93.8540	-1141	QKA	2.5	0	7.4	0	1.2	1	0.335	0	2.071	0	6.178	-1	1864	49	1.0
43025.4	10000	41.4383	93.8541	-1141	QKA	2.4	0	7.8	1	1.2	1	0.306	0	1.987	-1	6.497	0	1869	50	1.0
43025.3	10000	41.4388	93.8541	-1142	QKA	2.5	0	7.6	1	1.2	1	0.326	0	2.039	0	6.249	-1	1877	41	1.0
43025.2	10000	41.4394	93.8541	-1142	QKA	2.4	0	7.7	1	1.2	1	0.316	0	1.964	-1	6.213	-1	1871	48	1.0
43025.1	10000	41.4399	93.8541	-1143	QKA	2.8	1	7.4	0	1.2	1	0.372	1	2.222	0	5.966	-1	1870	46	1.0
43025.0	10000	41.4405	93.8541	-1143	QKA	2.7	1	7.5	0	1.3	1	0.359	0	2.132	0	5.930	-1	1868	45	1.0
43024.9	10000	41.4410	93.8542	-1144	QKA	2.8	1	7.8	1	1.2	1	0.362	0	2.311	0	6.391	0	1844	51	1.0
43024.8	10000	41.4416	93.8542	-1146	QKA	2.9	1	7.9	1	1.2	1	0.361	0	2.294	0	6.361	0	1834	57	1.1
43024.7	10000	41.4421	93.8542	-1152	QKA	2.9	1	7.6	1	1.3	1	0.388	1	2.325	0	5.988	-1	1823	47	1.1
43024.6	10000	41.4427	93.8542	-1154	QKA	2.9	1	8.0	1	1.2	1	0.360	0	2.322	0	6.451	0	1813	42	1.1
43024.5	10000	41.4432	93.8542	-1154	QKA	2.7	1	8.0	1	1.2	1	0.340	0	2.306	0	6.791	0	1819	40	1.1
43024.4	10000	41.4438	93.8542	-1151	QKA	2.5	0	8.2	1	1.2	1	0.310	0	2.148	0	6.925	0	1828	39	1.1
43024.3	10000	41.4443	93.8542	-1150	QKA	2.6	0	8.2	1	1.1	0	0.313	0	2.267	0	7.248	1	1824	54	1.1
43024.2	10000	41.4449	93.8542	-1150	QKA	2.5	0	7.9	1	1.1	0	0.313	0	2.195	0	7.004	0	1826	48	1.1
43024.1	10000	41.4454	93.8543	-1150	QKA	2.6	0	7.5	0	1.1	0	0.344	0	2.290	0	6.659	0	1826	42	1.1
43024.0	10000	41.4460	93.8543	-1151	QKA	2.4	0	7.8	1	1.1	0	0.311	0	2.259	0	7.262	1	1799	56	1.1
43023.9	10000	41.4465	93.8543	-1152	QKA	2.4	0	7.8	1	1.1	0	0.301	-1	2.146	0	7.120	1	1792	46	1.1
43023.8	10000	41.4471	93.8543	-1152	QKA	2.4	0	7.9	1	1.1	0	0.302	-1	2.110	0	6.996	0	1760	48	1.1
43023.7	10000	41.4476	93.8543	-1153	QKA	2.3	0	7.9	1	1.1	0	0.287	-1	2.032	0	7.071	0	1739	44	1.1
43023.6	10000	41.4482	93.8543	-1153	QKA	2.2	0	8.1	1	1.2	1	0.267	-1	1.864	-1	6.974	0	1719	51	1.1
43023.5	10000	41.4487	93.8543	-1153	QKA	2.1	-1	7.9	1	1.2	1	0.265	-1	1.744	-1	6.577	0	1725	44	1.1
43023.4	10000	41.4493	93.8544	-1153	QKA	2.1	-1	8.2	1	1.2	1	0.253	-1	1.743	-1	6.900	0	1714	38	1.1
43023.3	10000	41.4498	93.8544	-1153	QKA	2.3	0	7.8	1	1.2	1	0.289	-1	1.860	-1	6.430	0	1722	47	1.1
43023.2	10000	41.4504	93.8544	-1154	QKA	2.4	0	7.4	0	1.2	1	0.316	0	1.972	-1	6.239	-1	1708	52	1.1
43023.1	10000	41.4509	93.8544	-1154	QKA	2.5	0	7.3	0	1.2	1	0.341	0	2.106	0	6.181	-1	1727	42	1.1
43023.0	10000	41.4515	93.8544	-1154	QKA	2.6	0	7.1	0	1.1	1	0.366	0	2.266	0	6.183	-1	1738	47	1.1
43022.9	10000	41.4520	93.8544	-1154	QKA	2.7	1	6.9	0	1.2	1	0.391	1	2.309	0	5.910	-1	1751	52	1.1
43022.8	10000	41.4526	93.8544	-1153	QKA	2.7	1	7.3	0	1.1	0	0.366	0	2.451	0	6.699	0	1728	51	1.1
43022.7	10000	41.4531	93.8544	-1153	QKA	2.5	1	7.4	0	1.1	0	0.342	0	2.336	0	6.825	0	1730	43	1.1
43022.6	10000	41.4537	93.8544	-1153	QKA	2.4	0	7.4	0	1.1	0	0.329	0	2.310	0	7.023	0	1723	38	1.1
43022.5	10000	41.4542	93.8544	-1153	QKA	2.4	0	7.5	0	1.0	0	0.318	0	2.325	0	7.306	1	1739	47	1.1
43022.4	10000	41.4548	93.8545	-1153	QKA	2.3	0	7.3	0	1.0	-1	0.312	0	2.323	0	7.437	1	1726	47	1.1
43022.3	10000	41.4553	93.8545	-1153	QKA	2.3	0	7.4	0	1.0	-1	0.308	0	2.273	0	7.379	1	1721	52	1.1
43022.2	10000	41.4559	93.8545	-1153	QKA	2.5	0	7.2	0	0.9	-1	0.344	0	2.625	1	7.628	1	1713	43	1.1
43022.1	10000	41.4564	93.8545	-1152	QKA	2.5	0	7.0	0	1.0	-1	0.356	0	2.550	1	7.169	1	1719	44	1.1
43022.0	10000	41.4570	93.8545	-1151	QKA	2.4	0	6.8	0	1.0	-1	0.358	0	2.510	1	7.011	0	1708	49	1.1

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43021.9	10000	41.4575	93.8545	-1151	QKA	2.6	0	7.2	0	1.0	-1	0.359	0	2.615	1	7.293	1	1702	51	1.1
43021.8	10000	41.4581	93.8545	-1151	QKA	2.5	0	6.9	0	1.0	-1	0.365	0	2.517	1	6.890	0	1678	43	1.1
43021.7	10000	41.4586	93.8546	-1150	QKA	2.5	0	6.7	-1	1.0	-1	0.379	1	2.535	1	6.696	0	1646	43	1.1
43021.6	10000	41.4591	93.8546	-1150	QKA	2.4	0	6.9	0	0.9	-1	0.353	0	2.558	1	7.245	1	1606	47	1.1
43021.5	10000	41.4597	93.8546	-1149	QKA	2.4	0	6.8	0	0.9	-1	0.358	0	2.662	1	7.428	1	1570	43	1.1
43021.4	10000	41.4602	93.8546	-1148	QKA	2.4	0	6.5	-1	0.9	-1	0.372	0	2.659	1	7.151	1	1547	53	1.1
43021.3	10000	41.4608	93.8546	-1147	QKA	2.5	0	6.7	-1	0.9	-1	0.363	0	2.792	1	7.682	1	1544	45	1.1
43021.2	10000	41.4613	93.8546	-1146	QKA	2.3	0	6.5	-1	0.9	-1	0.357	0	2.605	1	7.303	1	1540	40	1.1
43021.1	10000	41.4619	93.8546	-1146	QKA	2.1	-1	6.6	-1	0.9	-1	0.325	0	2.383	0	7.323	1	1543	56	1.1
43021.0	10000	41.4624	93.8546	-1145	QKA	1.9	-1	6.8	0	0.9	-1	0.285	-1	2.082	0	7.299	1	1560	52	1.1
43020.9	10000	41.4630	93.8546	-1145	QKA	2.1	-1	6.6	-1	1.0	-1	0.320	0	2.100	0	6.560	0	1591	51	1.1
43020.8	10000	41.4635	93.8547	-1144	QKA	1.8	-1	6.8	0	1.1	0	0.257	-1	1.664	-1	6.471	0	1622	55	1.1
43020.7	10000	41.4641	93.8547	-1144	QKA	1.9	-1	7.0	0	1.1	0	0.269	-1	1.753	-1	6.524	0	1658	34	1.1
43020.6	10000	41.4646	93.8547	-1143	QKA	2.2	0	6.5	-1	1.1	0	0.336	0	1.933	-1	5.755	-1	1681	38	1.1
43020.5	10000	41.4652	93.8547	-1142	QKA	2.3	0	6.6	-1	1.1	0	0.351	0	2.020	0	5.763	-1	1719	44	1.1
43020.4	10000	41.4657	93.8547	-1141	QKA	2.4	0	6.8	0	1.2	1	0.358	0	2.038	0	5.690	-1	1740	33	1.1
43020.3	10000	41.4663	93.8547	-1137	QKA	2.5	0	7.1	0	1.2	1	0.353	0	2.143	0	6.072	-1	1755	47	1.1
43020.2	10000	41.4668	93.8547	-1129	QKA	2.4	0	7.0	0	1.2	1	0.348	0	2.037	0	5.855	-1	1760	53	1.1
43020.1	10000	41.4674	93.8547	-1125	QKA	2.4	0	6.9	0	1.2	1	0.349	0	1.948	-1	5.575	-1	1770	51	1.1
43020.0	10000	41.4679	93.8548	-1134	QKA	2.5	0	7.1	0	1.2	1	0.350	0	2.007	0	5.731	-1	1768	37	1.1
43019.9	10000	41.4685	93.8548	-1136	QKA	2.5	0	7.6	1	1.2	1	0.321	0	2.009	0	6.261	-1	1775	49	1.1
43019.8	10000	41.4690	93.8548	-1134	QKA	2.3	0	7.6	1	1.2	1	0.296	-1	1.841	-1	6.212	-1	1775	37	1.1
43019.7	10000	41.4696	93.8548	-1132	QKA	2.4	0	7.7	1	1.2	1	0.307	0	1.948	-1	6.345	0	1779	42	1.1
43019.6	10000	41.4701	93.8548	-1130	QKA	2.3	0	7.4	0	1.2	1	0.315	0	1.895	-1	6.015	-1	1790	50	1.1
43019.5	10000	41.4707	93.8548	-1132	QKA	2.5	0	7.3	0	1.2	1	0.338	0	2.054	0	6.073	-1	1802	44	1.1
43019.4	10000	41.4712	93.8548	-1131	QKA	2.7	1	7.4	0	1.2	1	0.362	0	2.299	0	6.356	0	1802	46	1.1
43019.3	10000	41.4718	93.8548	-1130	QKA	2.6	0	7.4	0	1.2	1	0.353	0	2.245	0	6.365	0	1815	35	1.1
43019.2	10000	41.4723	93.8548	-1128	QKA	2.6	0	7.1	0	1.2	1	0.361	0	2.142	0	5.937	-1	1812	48	1.1
43019.1	10000	41.4729	93.8549	-1126	QKA	2.9	1	7.0	0	1.2	1	0.417	1	2.484	0	5.962	-1	1805	46	1.1
43019.0	10000	41.4734	93.8549	-1125	QKA	2.8	1	6.8	0	1.1	1	0.413	1	2.494	0	6.043	-1	1790	36	1.1
43018.9	10000	41.4740	93.8549	-1123	QKA	2.8	1	6.9	0	1.1	1	0.402	1	2.482	0	6.168	-1	1788	41	1.1
43018.8	10000	41.4745	93.8549	-1122	QKA	2.9	1	7.1	0	1.1	1	0.406	1	2.599	1	6.408	0	1786	51	1.1
43018.7	10000	41.4751	93.8549	-1122	QKA	3.0	1	6.8	0	1.1	1	0.436	1	2.710	1	6.209	-1	1798	46	1.1
43018.6	10000	41.4756	93.8549	-1121	QKA	2.9	1	6.9	0	1.1	1	0.422	1	2.740	1	6.496	0	1798	51	1.1
43018.5	10000	41.4762	93.8549	-1120	QKA	2.8	1	7.0	0	1.0	1	0.404	1	2.765	1	6.845	0	1786	45	1.1
43018.4	10000	41.4767	93.8549	-1119	QKA	2.7	1	7.4	0	1.0	0	0.360	1	2.614	1	7.254	1	1778	52	1.1
43018.3	10000	41.4772	93.8549	-1118	QKA	2.8	1	7.2	0	1.0	0	0.390	1	2.784	1	7.137	1	1769	55	1.1
43018.2	10000	41.4778	93.8549	-1117	QKA	3.0	1	7.1	0	1.0	0	0.423	1	2.924	1	6.907	0	1750	51	1.1
43018.1	10000	41.4783	93.8550	-1117	QKA	2.8	1	6.9	0	1.0	0	0.410	1	2.741	1	6.684	0	1726	48	1.1
43018.0	10000	41.4789	93.8550	-1115	QKA	2.5	1	7.3	0	1.0	0	0.344	1	2.473	1	7.197	1	1708	37	1.1
43017.9	10000	41.4794	93.8550	-1114	QKA	2.6	0	7.3	0	1.0	0	0.352	1	2.483	1	7.057	0	1691	46	1.1
43017.8	10000	41.4800	93.8550	-1113	QKA	2.6	0	7.2	0	1.1	0	0.363	1	2.426	0	6.688	0	1710	50	1.1
43017.7	10000	41.4805	93.8550	-1112	QKA	2.4	0	6.9	0	1.1	0	0.350	0	2.104	0	6.004	-1	1732	38	1.1
43017.6	10000	41.4811	93.8550	-1111	QKA	2.3	0	7.0	0	1.2	1	0.327	0	1.936	-1	5.917	-1	1756	47	1.1
43017.5	10000	41.4816	93.8550	-1110	QKA	2.3	0	7.3	0	1.2	1	0.315	0	1.899	-1	6.035	-1	1781	47	1.1
43017.4	10000	41.4822	93.8551	-1109	QKA	2.1	-1	7.3	0	1.2	1	0.290	-1	1.712	-1	5.912	-1	1802	35	1.1
43017.3	10000	41.4827	93.8551	-1107	QKA	2.3	0	7.2	0	1.3	1	0.317	0	1.781	-1	5.626	-1	1807	59	1.1
43017.2	10000	41.4833	93.8551	-1106	QKA	2.2	0	7.0	0	1.3	1	0.318	0	1.739	-1	5.471	-2	1815	48	1.1
43017.1	10000	41.4838	93.8551	-1105	QKA	2.4	0	7.2	0	1.3	1	0.331	0	1.878	-1	5.675	-1	1814	43	1.1
43017.0	10000	41.4844	93.8551	-1104	QKA	2.6	0	7.5	0	1.2	1	0.339	0	2.114	0	5.893	-1	1819	48	1.1
43016.9	10000	41.4849	93.8551	-1102	QKA	2.5	0	7.5	0	1.2	1	0.339	0	2.124	0	6.265	-1	1818	48	1.1
43016.8	10000	41.4855	93.8551	-1101	QKA	2.6	0	7.8	1	1.2	1	0.330	0	2.182	0	6.606	0	1827	43	1.1

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43016.7	10000	41.4860	93.8551	-1101	QKA	2.6	0	8.5	2	1.2	1	0.307	0	2.233	0	7.272	1	1831	52	1.1
43016.6	10000	41.4866	93.8551	-1100	QKA	2.6	1	8.3	1	1.2	1	0.320	0	2.175	0	6.798	0	1856	51	1.1
43016.5	10000	41.4871	93.8552	-1098	QKA	2.7	1	8.3	1	1.2	1	0.321	0	2.177	0	6.793	0	1854	53	1.1
43016.4	10000	41.4877	93.8552	-1097	QKA	2.5	0	7.9	1	1.2	1	0.320	0	2.073	0	6.470	0	1854	60	1.1
43016.3	10000	41.4882	93.8552	-1095	QKA	2.6	0	7.7	1	1.2	1	0.334	0	2.074	0	6.202	-1	1852	39	1.1
43016.2	10000	41.4888	93.8552	-1094	QKA	2.6	1	7.4	0	1.2	1	0.357	0	2.121	0	5.943	-1	1843	50	1.1
43016.1	10000	41.4893	93.8552	-1092	QKA	2.7	1	6.9	0	1.3	1	0.388	1	2.146	0	5.527	-1	1824	60	1.1
43016.0	10000	41.4899	93.8552	-1090	QKA	2.7	1	6.7	-1	1.2	1	0.400	1	2.138	0	5.342	-2	1823	48	1.1
43015.9	10000	41.4904	93.8552	-1088	QKA	2.4	0	6.8	0	1.2	1	0.355	0	1.996	-1	5.627	-1	1793	48	1.1
43015.8	10000	41.4910	93.8552	-1088	QKA	2.6	0	6.9	0	1.2	1	0.379	1	2.114	0	5.583	-1	1784	45	1.1
43015.7	10000	41.4915	93.8553	-1087	QKA	2.5	0	7.1	0	1.3	1	0.359	0	2.033	0	5.671	-1	1770	41	1.1
43015.6	10000	41.4921	93.8553	-1086	QKA	2.3	0	7.3	0	1.2	1	0.313	0	1.850	-1	5.918	-1	1744	51	1.1
43015.5	10000	41.4926	93.8553	-1085	QKA	2.2	0	7.1	0	1.2	1	0.310	0	1.797	-1	5.792	-1	1732	50	1.1
43015.4	10000	41.4932	93.8553	-1084	QKA	2.0	-1	7.1	0	1.2	1	0.288	-1	1.667	-1	5.787	-1	1732	38	1.1
43015.3	10000	41.4937	93.8553	-1082	QKA	2.3	0	6.7	-1	1.2	1	0.351	0	1.927	-1	5.490	-1	1727	47	1.1
43015.2	10000	41.4943	93.8553	-1081	QKA	2.6	0	6.7	-1	1.2	1	0.384	1	2.200	0	5.725	-1	1742	56	1.1
43015.1	10000	41.4948	93.8553	-1079	QKA	2.5	0	7.3	0	1.2	1	0.347	0	2.137	0	6.158	-1	1770	46	1.1
43015.0	10000	41.4953	93.8553	-1078	QKA	2.4	0	7.1	0	1.1	0	0.342	0	2.115	0	6.187	-1	1774	39	1.1
43014.9	10000	41.4959	93.8553	-1076	QKA	2.6	0	7.4	0	1.2	1	0.348	0	2.208	0	6.342	0	1805	45	1.1
43014.8	10000	41.4964	93.8554	-1075	QKA	2.8	1	7.6	1	1.2	1	0.365	0	2.311	0	6.329	0	1827	41	1.1
43014.7	10000	41.4970	93.8554	-1073	QKA	3.0	1	7.8	1	1.2	1	0.383	1	2.546	1	6.652	0	1819	49	1.1
43014.6	10000	41.4976	93.8554	-1071	QKA	2.9	1	7.9	1	1.2	1	0.363	0	2.484	0	6.850	0	1818	33	1.1
43014.5	10000	41.4981	93.8554	-1067	QKA	2.7	1	7.8	1	1.2	1	0.350	0	2.386	0	6.823	0	1809	39	1.1
43014.4	10000	41.4986	93.8554	-1063	QKA	2.9	1	7.1	0	1.2	1	0.402	1	2.427	0	6.041	-1	1806	27	1.1
43014.3	10000	41.4992	93.8554	-1062	QKA	3.0	1	7.2	0	1.2	1	0.419	1	2.447	0	5.845	-1	1825	37	1.0
43014.2	10000	41.4997	93.8554	-1064	QKA	2.9	1	6.8	0	1.3	1	0.431	1	2.321	0	5.388	-2	1822	25	1.0
43014.1	10000	41.5003	93.8554	-1062	QKA	2.7	1	6.8	0	1.3	1	0.403	1	2.180	0	5.408	-2	1825	55	1.0
43014.0	10000	41.5008	93.8555	-1060	QKA	2.6	0	6.8	0	1.4	2	0.380	1	1.918	-1	5.043	-2	1856	34	1.0
43013.9	10000	41.5014	93.8555	-1057	QKA	2.6	0	7.0	0	1.4	2	0.369	0	1.819	-1	4.925	-2	1878	33	1.0
43013.8	10000	41.5019	93.8555	-1055	QKA	2.6	0	7.0	0	1.5	3	0.371	0	1.785	-1	4.805	-2	1909	55	1.0
43013.7	10000	41.5025	93.8555	-1053	QKA	2.5	0	7.5	0	1.4	3	0.331	0	1.726	-1	5.212	-2	1913	54	1.0
43013.6	10000	41.5030	93.8555	-1051	QKA	2.6	0	7.5	0	1.4	2	0.348	0	1.892	-1	5.438	-2	1913	42	1.0
43013.5	10000	41.5036	93.8555	-1049	QKA	2.7	1	7.7	1	1.4	2	0.350	0	1.994	-1	5.694	-1	1917	47	1.0
43013.4	10000	41.5041	93.8555	-1046	QKA	3.0	1	7.8	1	1.3	2	0.382	1	2.219	0	5.813	-1	1924	51	1.0
43013.3	10000	41.5047	93.8555	-1044	QKA	3.1	2	7.8	1	1.3	1	0.403	1	2.450	0	6.086	-1	1910	41	1.0
43013.2	10000	41.5052	93.8555	-1041	QKA	3.1	1	7.5	1	1.2	1	0.410	1	2.491	0	6.081	-1	1886	45	1.1
43013.1	10000	41.5058	93.8556	-1039	QKA	3.3	2	7.4	0	1.2	1	0.443	2	2.685	1	6.066	-1	1864	58	1.1
43013.0	10000	41.5063	93.8556	-1036	QKA	3.2	2	6.9	0	1.2	1	0.462	2	2.588	1	5.599	-1	1822	47	1.1
43012.9	10000	41.5069	93.8556	-1034	QKA	2.8	1	7.0	0	1.2	1	0.410	1	2.308	0	5.636	-1	1773	43	1.1
43012.8	10000	41.5074	93.8556	-1033	QKA	2.8	1	7.1	0	1.2	1	0.403	1	2.345	0	5.819	-1	1724	52	1.1
43012.7	10000	41.5080	93.8556	-1031	QKA	2.6	0	6.7	-1	1.2	1	0.386	1	2.189	0	5.672	-1	1664	44	1.1
43012.6	10000	41.5085	93.8556	-1028	QKA	2.4	0	6.3	-1	1.1	0	0.381	1	2.085	0	5.480	-2	1619	42	1.1
43012.5	10000	41.5091	93.8556	-1026	QKA	2.3	0	6.2	-1	1.2	1	0.366	0	1.955	-1	5.346	-2	1600	47	1.1
43012.4	10000	41.5096	93.8556	-1023	QKA	2.2	0	6.3	-1	1.2	1	0.357	0	1.943	-1	5.445	-2	1578	50	1.1
43012.3	10000	41.5102	93.8557	-1021	QKA	2.3	0	6.4	-1	1.1	1	0.358	1	2.122	0	5.926	-1	1567	53	1.1
43012.2	10000	41.5107	93.8557	-1018	QKA	2.5	0	6.3	-1	1.1	1	0.389	1	2.309	0	5.934	-1	1575	46	1.1
43012.1	10000	41.5113	93.8557	-1016	QKA	2.4	0	6.0	-2	1.0	1	0.395	1	2.260	0	5.718	-1	1563	57	1.1
43012.0	10000	41.5118	93.8557	-1013	QKA	2.2	0	6.1	-1	1.0	0	0.367	0	2.201	0	5.999	-1	1546	37	1.1
43011.9	10000	41.5124	93.8557	-1009	QKA	2.3	0	6.2	-1	1.0	-1	0.374	1	2.369	1	6.328	0	1538	43	1.1
43011.8	10000	41.5129	93.8557	-1006	QKA	2.3	0	6.1	-1	0.9	-1	0.381	1	2.507	1	6.580	0	1515	37	1.1
43011.7	10000	41.5135	93.8557	-1003	QKA	2.1	-1	6.0	-2	0.9	-1	0.359	0	2.270	0	6.325	0	1503	41	1.1
43011.6	10000	41.5140	93.8557	-1000	QKA	2.0	-1	6.0	-1	1.0	-1	0.332	0	2.056	0	6.194	-1	1501	54	1.1

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43011.5	10000	41.5145	93.8557	-996	QKA	1.8	-1	5.9	-2	1.0	-1	0.306	0	1.849	-1	6.047	-1	1482	41	1.1
43011.4	10000	41.5151	93.8558	-993	QKA	2.1	-1	5.7	-2	1.0	-1	0.363	0	2.153	0	5.924	-1	1475	42	1.1
43011.3	10000	41.5156	93.8558	-989	QKA	2.2	0	5.4	-2	1.0	-1	0.418	1	2.344	0	5.611	-1	1473	44	1.1
43011.2	10000	41.5162	93.8558	-985	QKA	2.2	0	5.4	-2	1.0	-1	0.412	1	2.210	0	5.365	-2	1453	42	1.1
43011.1	10000	41.5168	93.8558	-982	QO	2.2	0	5.3	0	1.0	0	0.421	0	2.244	0	5.331	0	1427	40	1.1
43011.0	10000	41.5173	93.8558	-979	QO	2.2	0	5.1	0	0.9	-1	0.432	0	2.462	1	5.697	0	1390	37	1.1
43010.9	10000	41.5178	93.8558	-975	QO	2.2	0	4.9	0	0.9	-1	0.443	0	2.450	1	5.537	0	1337	46	1.1
43010.8	10000	41.5184	93.8558	-972	QO	2.1	0	4.6	-1	0.8	-1	0.464	1	2.508	1	5.406	0	1307	38	1.1
43010.7	10000	41.5190	93.8558	-969	QO	1.9	0	4.7	-1	0.9	-1	0.412	0	2.278	0	5.528	0	1286	36	1.1
43010.6	10000	41.5195	93.8559	-966	QO	1.9	0	4.7	-1	0.9	-1	0.393	0	2.126	0	5.407	0	1281	29	1.1
43010.5	10000	41.5200	93.8559	-963	QO	1.8	0	4.6	-1	0.9	-1	0.396	0	2.098	0	5.293	0	1286	45	1.1
43010.4	10000	41.5206	93.8559	-960	QO	1.9	0	4.7	-1	0.9	-1	0.407	0	2.196	0	5.399	0	1283	50	1.1
43010.3	10000	41.5211	93.8559	-957	QO	1.9	0	4.7	-1	0.9	-1	0.414	0	2.089	0	5.045	0	1292	42	1.1
43010.2	10000	41.5217	93.8559	-955	QO	2.0	0	4.9	0	0.9	-1	0.414	0	2.186	0	5.282	0	1317	38	1.1
43010.1	10000	41.5222	93.8559	-952	QO	2.0	0	5.0	0	0.9	-1	0.400	0	2.168	0	5.422	0	1313	50	1.1
43010.0	10000	41.5228	93.8559	-950	QO	1.8	0	5.1	0	0.9	-1	0.362	0	1.975	0	5.450	0	1304	40	1.1
43009.9	10000	41.5233	93.8559	-947	QO	1.9	0	5.0	0	0.9	-1	0.391	0	2.045	0	5.237	0	1304	49	1.1
43009.8	10000	41.5239	93.8559	-944	QO	2.2	0	5.0	0	0.9	-1	0.432	0	2.328	0	5.393	0	1308	41	1.1
43009.7	10000	41.5244	93.8560	-942	QO	2.1	0	5.1	0	0.9	-1	0.414	0	2.261	0	5.465	0	1324	49	1.1
43009.6	10000	41.5250	93.8560	-940	QO	2.2	0	5.0	0	0.9	-1	0.441	0	2.366	0	5.362	0	1329	44	1.1
43009.5	10000	41.5255	93.8560	-938	QO	2.2	0	4.9	0	1.0	-1	0.455	0	2.333	0	5.128	0	1350	43	1.1
43009.4	10000	41.5261	93.8560	-935	QO	2.3	0	4.8	-1	1.0	0	0.479	1	2.308	0	4.820	-1	1383	42	1.1
43009.3	10000	41.5266	93.8560	-927	QO	2.4	1	4.5	-1	1.0	0	0.538	1	2.449	1	4.554	-1	1408	61	1.1
43009.2	10000	41.5272	93.8560	-912	QO	2.4	1	4.4	-1	1.0	0	0.545	1	2.419	1	4.437	-1	1414	35	1.1
43009.1	10000	41.5277	93.8560	-914	QO	2.3	0	4.5	-1	1.1	0	0.501	1	2.130	0	4.249	-1	1414	42	1.1
43009.0	10000	41.5283	93.8561	-928	QO	2.3	1	4.2	-1	1.1	0	0.558	1	2.187	0	3.921	-2	1396	41	1.1
43008.9	10000	41.5289	93.8561	-929	QO	2.1	0	4.3	-1	1.1	0	0.490	1	1.929	0	3.935	-2	1400	49	1.1
43008.8	10000	41.5294	93.8561	-927	QO	2.0	0	4.3	-1	1.1	0	0.473	1	1.815	0	3.841	-2	1402	46	1.1
43008.7	10000	41.5300	93.8561	-925	QO	2.0	0	4.3	-1	1.1	0	0.453	1	1.758	0	3.885	-2	1405	35	1.1
43008.6	10000	41.5305	93.8561	-924	QO	2.1	0	4.6	-1	1.2	0	0.444	1	1.757	0	3.955	-1	1439	52	1.1
43008.5	10000	41.5311	93.8562	-923	QO	2.1	0	4.9	-1	1.2	0	0.430	1	1.794	0	4.170	-1	1482	45	1.1
43008.4	10000	41.5316	93.8562	-922	QO	2.1	0	5.0	0	1.2	0	0.418	1	1.781	0	4.259	-1	1522	44	1.1
43008.3	10000	41.5322	93.8562	-921	QO	1.9	0	5.6	1	1.2	0	0.348	1	1.607	-1	4.618	-1	1586	49	1.1
43008.2	10000	41.5328	93.8562	-920	QO	2.1	0	6.2	1	1.2	0	0.333	1	1.681	-1	5.056	0	1643	45	1.1
43008.1	10000	41.5333	93.8562	-919	QO	2.4	0	6.3	1	1.2	0	0.379	1	1.955	0	5.151	0	1696	50	1.1
43008.0	10000	41.5339	93.8563	-919	QO	2.5	0	6.4	1	1.3	0	0.393	1	1.986	0	5.051	0	1768	44	1.1
43007.9	10000	41.5344	93.8563	-918	QO	2.4	0	6.6	1	1.3	0	0.362	1	1.865	0	5.152	0	1808	45	1.1
43007.8	10000	41.5350	93.8563	-917	QO	2.4	0	6.8	1	1.3	0	0.361	1	1.897	0	5.251	0	1840	48	1.1
43007.7	10000	41.5356	93.8563	-917	QO	2.4	0	6.6	1	1.3	0	0.362	1	1.904	0	5.264	0	1862	53	1.1
43007.6	10000	41.5361	93.8564	-918	QKA	2.6	1	6.3	1	1.2	0	0.411	2	2.077	0	5.058	-2	1865	58	1.1
43007.5	10000	41.5367	93.8564	-918	QKA	2.7	1	6.1	1	1.2	0	0.443	2	2.208	1	4.988	-2	1863	34	1.1
43007.4	10000	41.5372	93.8564	-918	QKA	2.5	1	6.3	1	1.3	0	0.388	1	1.932	-1	4.984	-2	1863	30	1.1
43007.3	10000	41.5378	93.8564	-918	QKA	2.4	1	6.3	1	1.2	0	0.387	1	1.988	-1	5.138	-2	1818	49	1.1
43007.2	10000	41.5384	93.8564	-918	QKA	2.7	1	6.3	1	1.2	0	0.424	1	2.196	0	5.182	-2	1803	53	1.1
43007.1	10000	41.5389	93.8565	-918	QKA	2.7	1	6.2	1	1.3	0	0.436	1	2.209	0	5.069	-2	1793	36	1.1
43007.0	10000	41.5395	93.8565	-918	QKA	2.7	1	6.5	1	1.3	0	0.408	1	2.108	0	5.171	-2	1795	50	1.1
43006.9	10000	41.5400	93.8565	-917	QKA	2.6	1	6.8	1	1.3	0	0.386	1	2.129	0	5.509	-1	1788	52	1.1
43006.8	10000	41.5406	93.8565	-918	QKA	2.7	1	6.7	1	1.3	0	0.408	1	2.140	0	5.244	-2	1792	39	1.1
43006.7	10000	41.5412	93.8565	-918	QKA	2.7	1	6.8	1	1.3	0	0.401	1	2.161	0	5.392	-2	1801	57	1.1
43006.6	10000	41.5417	93.8566	-918	QKA	2.8	1	7.2	1	1.3	0	0.393	1	2.251	0	5.727	-1	1823	41	1.1
43006.5	10000	41.5423	93.8566	-918	QKA	2.8	1	7.3	1	1.3	0	0.385	1	2.221	0	5.775	-1	1825	57	1.1
43006.4	10000	41.5428	93.8566	-918	QKA	2.9	1	7.3	0	1.2	1	0.394	1	2.322	0	5.886	-1	1816	54	1.1

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43006.3	10000	41.5434	93.8566	-919	QKA	3.0	1	7.3	0	1.2	1	0.417	1	2.444	0	5.856	-1	1812	51	1.1
43006.2	10000	41.5439	93.8566	-920	QKA	2.7	1	7.7	1	1.2	1	0.354	0	2.212	0	6.245	-1	1810	46	1.1
43006.1	10000	41.5445	93.8567	-920	QKA	2.6	0	7.6	1	1.2	1	0.339	0	2.136	0	6.293	0	1797	39	1.1
43006.0	10000	41.5451	93.8567	-921	QKA	2.8	1	7.6	1	1.2	1	0.369	0	2.351	0	6.364	0	1770	59	1.1
43005.9	10000	41.5456	93.8567	-923	QKA	2.5	0	7.5	0	1.2	1	0.338	0	2.165	0	6.415	0	1756	42	1.1
43005.8	10000	41.5462	93.8567	-924	QKA	2.3	0	7.5	0	1.1	0	0.312	0	2.076	0	6.660	0	1744	38	1.1
43005.7	10000	41.5467	93.8568	-925	QKA	2.3	0	7.8	1	1.1	0	0.291	-1	2.042	0	7.025	0	1747	50	1.1
43005.6	10000	41.5473	93.8568	-926	QKA	2.2	0	7.8	1	1.1	0	0.282	-1	1.985	-1	7.042	0	1752	54	1.1
43005.5	10000	41.5479	93.8568	-927	QKA	2.4	0	7.2	0	1.1	0	0.335	0	2.140	0	6.396	0	1765	51	1.1
43005.4	10000	41.5484	93.8568	-928	QKA	2.6	0	7.3	0	1.1	0	0.352	0	2.353	0	6.681	0	1782	40	1.1
43005.3	10000	41.5490	93.8568	-929	QKA	2.4	0	7.5	0	1.1	0	0.317	0	2.124	0	6.689	0	1799	49	1.1
43005.2	10000	41.5495	93.8569	-928	QKA	2.7	1	7.4	0	1.1	0	0.369	0	2.417	0	6.544	0	1816	44	1.1
43005.1	10000	41.5501	93.8569	-927	QKA	2.8	1	7.4	0	1.1	1	0.379	1	2.432	0	6.421	0	1830	45	1.1
43005.0	10000	41.5507	93.8569	-927	QKA	2.7	1	7.4	0	1.2	1	0.371	0	2.297	0	6.191	-1	1828	64	1.1
43004.9	10000	41.5512	93.8569	-927	QKA	2.7	1	7.4	0	1.2	1	0.357	0	2.251	0	6.299	0	1822	47	1.1
43004.8	10000	41.5518	93.8569	-927	QKA	2.6	1	7.7	1	1.2	1	0.332	0	2.077	0	6.249	-1	1822	38	1.1
43004.7	10000	41.5523	93.8569	-927	QKA	2.3	0	7.6	1	1.2	1	0.308	0	1.873	-1	6.073	-1	1807	50	1.1
43004.6	10000	41.5529	93.8570	-926	QKA	2.3	0	7.4	0	1.3	1	0.312	0	1.842	-1	5.904	-1	1790	31	1.2
43004.5	10000	41.5535	93.8570	-925	QKA	2.2	0	7.8	1	1.2	1	0.284	-1	1.820	-1	6.415	0	1767	45	1.2
43004.4	10000	41.5540	93.8570	-924	QKA	2.3	0	7.7	1	1.2	1	0.291	-1	1.883	-1	6.474	0	1745	48	1.2
43004.3	10000	41.5546	93.8570	-922	QKA	2.2	0	7.4	0	1.2	1	0.303	-1	1.891	-1	6.243	-1	1734	35	1.2
43004.2	10000	41.5551	93.8571	-921	QKA	2.3	0	7.3	0	1.2	1	0.320	0	1.963	-1	6.144	-1	1705	45	1.2
43004.1	10000	41.5557	93.8571	-920	QKA	2.4	0	7.0	0	1.1	0	0.341	0	2.111	0	6.189	-1	1682	54	1.2
43004.0	10000	41.5563	93.8571	-919	QKA	2.6	0	6.8	0	1.1	0	0.378	1	2.335	0	6.168	-1	1651	44	1.2
43003.9	10000	41.5568	93.8571	-918	QKA	2.7	1	6.5	-1	1.0	1	0.408	1	2.613	1	6.411	0	1609	58	1.2
43003.8	10000	41.5574	93.8571	-917	QKA	2.5	0	6.0	-2	1.0	1	0.418	1	2.464	0	5.893	-1	1564	46	1.2
43003.7	10000	41.5579	93.8572	-915	QKA	2.7	1	5.8	-2	1.0	-1	0.465	2	2.728	1	5.867	-1	1527	46	1.2
43003.6	10000	41.5585	93.8572	-913	QKA	2.8	1	5.4	-2	0.9	-1	0.522	2	3.095	2	5.925	-1	1486	48	1.2
43003.5	10000	41.5590	93.8572	-913	QKA	2.8	1	5.2	-2	0.9	-1	0.539	3	3.224	2	5.983	-1	1489	49	1.2
43003.4	10000	41.5596	93.8572	-913	QKA	2.8	1	5.1	-3	0.9	-1	0.558	3	3.213	2	5.762	-1	1480	41	1.2
43003.3	10000	41.5602	93.8573	-911	QKA	2.6	0	4.9	-3	0.9	-1	0.527	3	2.788	1	5.288	-2	1469	41	1.2
43003.2	10000	41.5607	93.8573	-910	QKA	2.4	0	5.3	-2	1.0	-1	0.448	2	2.392	0	5.346	-2	1494	41	1.2
43003.1	10000	41.5613	93.8573	-908	QKA	2.4	0	5.0	-3	1.1	0	0.488	2	2.323	0	4.757	-2	1516	40	1.2
43003.0	10000	41.5619	93.8573	-907	QKA	2.2	0	5.3	-2	1.1	0	0.413	1	2.048	0	4.957	-2	1548	54	1.2
43002.9	10000	41.5624	93.8573	-905	QKA	1.9	-1	5.7	-2	1.1	0	0.336	0	1.788	-1	5.317	-2	1576	52	1.2
43002.8	10000	41.5630	93.8574	-903	QKA	1.9	-1	5.9	-2	1.1	0	0.322	0	1.796	-1	5.580	-1	1563	42	1.2
43002.7	10000	41.5635	93.8574	-903	QKA	1.8	-1	6.1	-1	1.0	0	0.301	-1	1.750	-1	5.819	-1	1556	46	1.2
43002.6	10000	41.5641	93.8574	-903	QKA	1.9	-1	6.5	-1	1.0	0	0.286	-1	1.814	-1	6.337	0	1561	39	1.2
43002.5	10000	41.5646	93.8574	-902	QKA	1.8	-1	6.1	-1	1.0	-1	0.294	-1	1.820	-1	6.192	-1	1555	47	1.2
43002.4	10000	41.5652	93.8574	-901	QKA	1.9	-1	6.4	-1	1.0	-1	0.292	-1	1.849	-1	6.336	0	1553	49	1.2
43002.3	10000	41.5658	93.8575	-899	QKA	1.9	-1	5.6	-2	1.0	-1	0.344	0	1.915	-1	5.570	-1	1543	48	1.2
43002.2	10000	41.5663	93.8575	-899	QKA	1.9	-1	5.2	-3	1.0	0	0.371	0	1.835	-1	4.946	-2	1527	30	1.2
43002.1	10000	41.5669	93.8575	-897	QKA	1.8	-1	4.9	-3	1.1	0	0.357	0	1.626	-1	4.551	-3	1531	35	1.2
43002.0	10000	41.5674	93.8575	-896	QKA	1.9	-1	5.2	-3	1.1	0	0.360	0	1.723	-1	4.786	-2	1532	47	1.2
43001.9	10000	41.5680	93.8575	-894	QKA	2.0	-1	5.3	-2	1.1	1	0.376	1	1.856	-1	4.943	-2	1540	55	1.2
43001.8	10000	41.5686	93.8576	-892	QKA	2.2	0	5.0	-3	1.0	1	0.438	1	2.098	0	4.794	-2	1531	52	1.2
43001.7	10000	41.5691	93.8576	-892	QKA	2.1	-1	5.1	-3	1.0	1	0.405	1	1.980	-1	4.886	-2	1541	42	1.2
43001.6	10000	41.5697	93.8576	-891	QKA	2.1	-1	5.6	-2	1.1	0	0.369	1	1.905	-1	5.156	-2	1539	36	1.2
43001.5	10000	41.5702	93.8576	-891	QKA	2.0	-1	5.9	-2	1.1	1	0.349	1	1.839	-1	5.267	-2	1563	51	1.2
43001.4	10000	41.5708	93.8577	-890	QKA	2.2	0	5.8	-2	1.1	1	0.386	1	2.072	0	5.372	-2	1565	54	1.2
43001.3	10000	41.5713	93.8577	-889	QKA	2.2	0	5.9	-2	1.1	1	0.374	1	1.981	-1	5.298	-2	1583	46	1.2
43001.2	10000	41.5719	93.8577	-888	QKA	2.2	0	5.6	-2	1.1	0	0.391	1	1.966	-1	5.027	-2	1581	37	1.2

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43001.1	10000	41.5725	93.8577	-888	QKA	2.1	-1	5.5	-2	1.2	1	0.371	0	1.761	-1	4.746	-2	1586	48	1.2
43001.0	10000	41.5730	93.8577	-887	QKA	2.1	-1	5.7	-2	1.2	1	0.364	0	1.794	-1	4.930	-2	1579	46	1.2
43000.9	10000	41.5736	93.8578	-887	QKA	1.8	-1	5.8	-2	1.2	1	0.314	0	1.535	-1	4.893	-2	1574	69	1.2
43000.8	10000	41.5742	93.8578	-886	QKA	1.7	-1	5.8	-2	1.2	1	0.289	-1	1.444	-2	4.988	-2	1551	40	1.2
43000.7	10000	41.5747	93.8578	-885	QKA	1.7	-1	5.6	-2	1.2	1	0.302	-1	1.411	-2	4.669	-3	1546	55	1.2
43000.6	10000	41.5753	93.8578	-885	QKA	1.7	-1	5.3	-2	1.2	1	0.332	0	1.484	-2	4.465	-3	1518	47	1.2
43000.5	10000	41.5758	93.8578	-885	QKA	1.8	-1	5.3	-2	1.2	1	0.348	0	1.486	-2	4.273	-3	1525	52	1.2
43000.4	10000	41.5764	93.8578	-884	QKA	2.1	-1	5.6	-2	1.2	1	0.365	0	1.753	-1	4.802	-2	1526	48	1.2
43000.3	10000	41.5769	93.8579	-883	QKA	1.9	-1	5.5	-2	1.2	1	0.351	0	1.676	-1	4.776	-2	1520	48	1.2
43000.2	10000	41.5775	93.8579	-883	QKA	2.1	-1	5.4	-2	1.2	1	0.377	1	1.778	-1	4.712	-2	1534	41	1.3
43000.1	10000	41.5781	93.8579	-883	QKA	2.1	-1	5.6	-2	1.2	1	0.372	1	1.851	-1	4.972	-2	1548	51	1.3
43000.0	10000	41.5786	93.8579	-883	QKA	2.1	-1	5.6	-2	1.2	1	0.370	0	1.849	-1	4.992	-2	1559	56	1.3
42999.9	10000	41.5792	93.8580	-883	QKA	2.2	0	5.7	-2	1.2	0	0.382	1	1.892	-1	4.952	-2	1574	48	1.3
42999.8	10000	41.5797	93.8580	-882	QKA	2.2	0	5.9	-2	1.2	0	0.375	1	1.940	-1	5.172	-2	1581	45	1.3
42999.7	10000	41.5803	93.8580	-881	QKA	1.9	-1	5.8	-2	1.2	1	0.317	0	1.551	-1	4.888	-2	1586	40	1.3
42999.6	10000	41.5809	93.8580	-881	QKA	1.9	-1	5.7	-2	1.2	1	0.341	0	1.600	-1	4.695	-2	1589	44	1.3
42999.5	10000	41.5814	93.8580	-880	QKA	2.1	-1	5.9	-2	1.2	1	0.362	0	1.786	-1	4.936	-2	1600	56	1.3
42999.4	10000	41.5820	93.8581	-879	QKA	2.1	-1	5.6	-2	1.2	1	0.375	1	1.741	-1	4.643	-3	1608	43	1.3
42999.3	10000	41.5825	93.8581	-879	QKA	1.8	-1	5.9	-2	1.2	1	0.308	0	1.528	-1	4.957	-2	1595	43	1.3
42999.2	10000	41.5831	93.8581	-878	QKA	1.9	-1	6.1	-1	1.2	1	0.306	0	1.598	-1	5.227	-2	1589	45	1.3
42999.1	10000	41.5837	93.8581	-877	QKA	1.8	-1	6.1	-1	1.1	0	0.288	-1	1.558	-1	5.414	-2	1565	41	1.3
42999.0	10000	41.5842	93.8582	-876	QKA	2.2	-1	6.1	-1	1.1	0	0.355	0	1.972	-1	5.549	-1	1566	53	1.3
42998.9	10000	41.5848	93.8582	-875	QKA	2.0	-1	6.1	-1	1.1	0	0.331	0	1.834	-1	5.542	-1	1571	54	1.3
42998.8	10000	41.5853	93.8582	-874	QKA	1.8	-1	5.9	-2	1.1	0	0.309	0	1.629	-1	5.266	-2	1559	43	1.3
42998.7	10000	41.5859	93.8582	-873	QKA	1.9	-1	5.9	-2	1.2	1	0.316	0	1.630	-1	5.161	-2	1550	49	1.3
42998.6	10000	41.5865	93.8582	-872	QKA	2.0	-1	6.1	-1	1.2	1	0.322	0	1.659	-1	5.151	-2	1551	52	1.3
42998.5	10000	41.5870	93.8583	-871	QKA	1.8	-1	6.0	-1	1.2	1	0.307	0	1.544	-1	5.031	-2	1548	45	1.3
42998.4	10000	41.5876	93.8583	-870	QKA	1.7	-1	6.0	-2	1.2	1	0.286	-1	1.378	-2	4.811	-3	1551	50	1.4
42998.3	10000	41.5881	93.8583	-869	QKA	1.3	-2	6.1	-1	1.3	2	0.214	-2	1.014	-2	4.745	-2	1551	42	1.4
42998.2	10000	41.5887	93.8583	-868	QKA	1.4	-2	6.5	-1	1.3	2	0.214	-2	1.056	-2	4.926	-2	1548	46	1.4
42998.1	10000	41.5892	93.8583	-867	QKA	1.4	-2	6.3	-1	1.3	1	0.219	-2	1.090	-2	4.983	-2	1546	59	1.4
42998.0	10000	41.5898	93.8584	-866	QKA	1.3	-2	6.4	-1	1.2	1	0.202	-2	1.054	-2	5.229	-2	1545	49	1.4
42997.9	10000	41.5904	93.8584	-865	QKA	1.2	-2	6.3	-1	1.2	1	0.196	-2	1.005	-2	5.132	-2	1547	36	1.4
42997.8	10000	41.5909	93.8584	-864	QKA	1.1	-3	6.3	-1	1.3	1	0.178	-2	0.901	-3	5.050	-2	1552	33	1.4
42997.7	10000	41.5915	93.8584	-864	QKA	1.2	-2	6.5	-1	1.2	1	0.191	-2	1.002	-2	5.251	-2	1550	45	1.4
42997.6	10000	41.5920	93.8584	-863	QKA	1.5	-2	6.4	-1	1.2	1	0.227	-2	1.230	-2	5.419	-2	1536	50	1.4
42997.5	10000	41.5926	93.8585	-862	QKA	1.5	-2	6.2	-1	1.1	0	0.237	-1	1.286	-2	5.428	-2	1533	47	1.4
42997.4	10000	41.5932	93.8585	-862	QKA	1.5	-2	6.6	-1	1.1	0	0.227	-2	1.356	-2	5.985	-1	1519	42	1.4
42997.3	10000	41.5937	93.8585	-861	QKA	1.5	-2	6.8	0	1.1	0	0.218	-2	1.341	-2	6.160	-1	1511	45	1.4
42997.2	10000	41.5943	93.8585	-860	QKA	1.5	-2	6.7	-1	1.1	0	0.224	-2	1.412	-2	6.312	0	1514	48	1.4
42997.1	10000	41.5948	93.8586	-859	QKA	1.5	-2	6.8	0	1.1	0	0.221	-2	1.387	-2	6.278	-1	1503	32	1.4
42997.0	10000	41.5954	93.8586	-859	QKA	1.6	-2	6.5	-1	1.1	0	0.252	-1	1.437	-2	5.697	-1	1500	40	1.4
42996.9	10000	41.5960	93.8586	-858	QKA	1.5	-2	6.4	-1	1.1	0	0.236	-1	1.351	-2	5.711	-1	1501	45	1.4
42996.8	10000	41.5965	93.8586	-858	QKA	1.6	-2	6.2	-1	1.1	0	0.253	-1	1.451	-2	5.729	-1	1503	47	1.4
42996.7	10000	41.5971	93.8586	-857	QKA	1.4	-2	5.8	-2	1.1	0	0.243	-1	1.217	-2	5.019	-2	1512	50	1.4
42996.6	10000	41.5976	93.8587	-856	QKA	1.4	-2	5.8	-2	1.2	0	0.234	-1	1.139	-2	4.864	-2	1519	44	1.4
42996.5	10000	41.5982	93.8587	-855	QKA	1.4	-2	5.9	-2	1.2	0	0.239	-1	1.183	-2	4.958	-2	1513	45	1.4
42996.4	10000	41.5987	93.8587	-854	QKA	1.5	-2	5.8	-2	1.1	0	0.254	-1	1.316	-2	5.182	-2	1523	40	1.4
42996.3	10000	41.5993	93.8587	-853	QKA	1.4	-2	6.1	-1	1.1	0	0.226	-2	1.302	-2	5.750	-1	1533	45	1.4
42996.2	10000	41.5999	93.8587	-853	QKA	1.4	-2	6.3	-1	1.1	0	0.224	-2	1.320	-2	5.887	-1	1534	41	1.4
42996.1	10000	41.6004	93.8587	-852	QKA	1.5	-2	6.5	-1	1.1	0	0.233	-2	1.405	-2	6.042	-1	1542	47	1.4
42996.0	10000	41.6010	93.8588	-852	QKA	1.7	-1	7.0	0	1.1	0	0.248	-1	1.615	-1	6.501	0	1549	46	1.4

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42995.9	10000	41.6016	93.8588	-851	QKA	2.0	-1	6.9	0	1.0	0	0.294	-1	1.980	-1	6.732	0	1547	48	1.4
42995.8	10000	41.6021	93.8588	-851	QKA	2.0	-1	6.7	-1	1.0	0	0.307	0	2.027	0	6.611	0	1555	37	1.4
42995.7	10000	41.6027	93.8588	-850	QKA	2.0	-1	6.6	-1	1.0	0	0.303	-1	1.966	-1	6.494	0	1549	58	1.4
42995.6	10000	41.6032	93.8589	-850	QKA	2.0	-1	6.6	-1	1.0	0	0.301	-1	1.976	-1	6.559	0	1555	57	1.4
42995.5	10000	41.6038	93.8589	-849	QKA	2.0	-1	6.7	-1	1.0	0	0.304	0	1.931	-1	6.364	0	1572	41	1.5
42995.4	10000	41.6043	93.8589	-849	QKA	1.9	-1	6.8	0	1.1	0	0.284	-1	1.801	-1	6.334	0	1568	48	1.5
42995.3	10000	41.6049	93.8589	-849	QKA	1.9	-1	6.6	-1	1.0	0	0.289	-1	1.825	-1	6.307	0	1570	45	1.5
42995.2	10000	41.6055	93.8589	-848	QKA	1.5	-2	6.7	-1	1.1	0	0.231	-2	1.388	-2	6.019	-1	1567	40	1.5
42995.1	10000	41.6060	93.8590	-848	QKA	1.5	-2	7.0	0	1.1	0	0.209	-2	1.321	-2	6.323	0	1549	46	1.5
42995.0	10000	41.6066	93.8590	-847	QKA	1.3	-2	6.7	-1	1.1	0	0.194	-2	1.163	-2	6.002	-1	1542	53	1.5
42994.9	10000	41.6071	93.8590	-847	QKA	1.4	-2	6.5	-1	1.1	0	0.209	-2	1.237	-2	5.917	-1	1533	52	1.5
42994.8	10000	41.6077	93.8590	-847	QKA	1.3	-2	6.4	-1	1.1	0	0.205	-2	1.221	-2	5.961	-1	1507	45	1.5
42994.7	10000	41.6083	93.8591	-847	QKA	1.5	-2	6.1	-1	1.0	0	0.242	-1	1.410	-2	5.815	-1	1492	43	1.5
42994.6	10000	41.6088	93.8591	-847	QKA	1.5	-2	5.9	-2	1.0	0	0.253	-1	1.428	-2	5.654	-1	1475	50	1.5
42994.5	10000	41.6094	93.8591	-847	QKA	1.8	-1	5.8	-2	1.0	-1	0.309	0	1.797	-1	5.818	-1	1455	62	1.5
42994.4	10000	41.6099	93.8591	-846	QKA	1.7	-1	5.5	-2	1.0	-1	0.306	0	1.693	-1	5.528	-1	1456	59	1.5
42994.3	10000	41.6105	93.8591	-846	QKA	2.1	-1	5.7	-2	0.9	-1	0.377	1	2.288	0	6.062	-1	1451	41	1.5
42994.2	10000	41.6111	93.8592	-846	QKA	1.9	-1	5.5	-2	0.9	-1	0.341	0	1.999	-1	5.863	-1	1430	39	1.4
42994.1	10000	41.6116	93.8592	-846	QKA	1.9	-1	5.5	-2	1.0	-1	0.347	0	1.993	-1	5.741	-1	1430	34	1.4
42994.0	10000	41.6122	93.8592	-846	QKA	1.6	-2	5.7	-2	1.0	-1	0.278	-1	1.577	-1	5.670	-1	1437	39	1.4
42993.9	10000	41.6127	93.8592	-846	QKA	1.8	-1	5.4	-2	1.0	-1	0.332	0	1.790	-1	5.395	-2	1440	42	1.4
42993.8	10000	41.6133	93.8592	-846	QKA	1.9	-1	5.3	-2	1.0	0	0.351	0	1.809	-1	5.150	-2	1470	51	1.4
42993.7	10000	41.6139	93.8593	-846	QKA	2.0	-1	5.2	-3	1.0	0	0.394	1	1.952	-1	4.953	-2	1478	46	1.4
42993.6	10000	41.6144	93.8593	-846	QKA	1.8	-1	5.1	-3	1.1	0	0.355	0	1.645	-1	4.629	-3	1485	44	1.4
42993.5	10000	41.6150	93.8593	-846	QKA	1.9	-1	5.6	-2	1.1	0	0.333	0	1.657	-1	4.978	-2	1516	54	1.4
42993.4	10000	41.6155	93.8593	-846	QKA	1.9	-1	5.7	-2	1.1	0	0.330	0	1.669	-1	5.062	-2	1536	46	1.4
42993.3	10000	41.6161	93.8593	-846	QKA	1.9	-1	5.6	-2	1.1	0	0.343	0	1.738	-1	5.073	-2	1543	43	1.4
42993.2	10000	41.6166	93.8593	-845	QKA	1.8	-1	6.0	-2	1.1	0	0.295	-1	1.613	-1	5.472	-2	1558	48	1.4
42993.1	10000	41.6171	93.8593	-845	QKA	1.6	-2	6.2	-1	1.1	0	0.253	-1	1.387	-2	5.482	-2	1562	38	1.4
42993.0	10000	41.6177	93.8593	-845	QKA	1.5	-2	6.5	-1	1.1	0	0.228	-2	1.316	-2	5.782	-1	1573	37	1.4
42992.9	10000	41.6182	93.8593	-844	QKA	1.7	-2	6.4	-1	1.1	0	0.257	-1	1.468	-2	5.716	-1	1592	40	1.4
42992.8	10000	41.6188	93.8593	-844	QKA	1.8	-1	6.3	-1	1.1	0	0.281	-1	1.559	-1	5.549	-1	1586	36	1.4
42992.7	10000	41.6193	93.8593	-844	QKA	1.9	-1	6.3	-1	1.2	1	0.305	0	1.649	-1	5.399	-2	1597	58	1.4
42992.6	10000	41.6199	93.8593	-844	QKA	2.1	-1	6.2	-1	1.2	1	0.341	0	1.773	-1	5.194	-2	1597	52	1.4
42992.5	10000	41.6204	93.8593	-844	QKA	1.9	-1	6.2	-1	1.2	1	0.312	0	1.623	-1	5.205	-2	1590	42	1.4
42992.4	10000	41.6210	93.8593	-844	QKA	2.1	-1	6.3	-1	1.2	1	0.333	0	1.819	-1	5.465	-2	1584	46	1.4
42992.3	10000	41.6215	93.8593	-843	QKA	2.2	0	6.0	-1	1.1	1	0.366	0	1.927	-1	5.259	-2	1580	47	1.4
42992.2	10000	41.6221	93.8593	-843	QKA	2.0	-1	6.3	-1	1.2	1	0.311	0	1.673	-1	5.371	-2	1575	44	1.4
42992.1	10000	41.6226	93.8593	-843	QKA	1.8	-1	6.0	-2	1.2	1	0.300	-1	1.536	-1	5.121	-2	1574	51	1.4
42992.0	10000	41.6232	93.8594	-843	QKA	1.8	-1	5.9	-2	1.1	0	0.298	-1	1.535	-1	5.155	-2	1574	49	1.4
42991.9	10000	41.6237	93.8594	-843	QKA	1.6	-2	6.0	-1	1.1	0	0.265	-1	1.446	-2	5.466	-2	1565	39	1.4
42991.8	10000	41.6242	93.8594	-843	QKA	1.6	-2	5.8	-2	1.1	0	0.279	-1	1.426	-2	5.107	-2	1574	50	1.4
42991.7	10000	41.6248	93.8594	-842	QKA	1.5	-2	5.8	-2	1.2	1	0.250	-1	1.254	-2	5.021	-2	1574	46	1.4
42991.6	10000	41.6253	93.8594	-841	QKA	1.5	-2	5.9	-2	1.2	1	0.258	-1	1.302	-2	5.046	-2	1575	43	1.4
42991.5	10000	41.6259	93.8594	-841	QKA	1.4	-2	5.8	-2	1.1	0	0.248	-1	1.286	-2	5.182	-2	1574	43	1.3
42991.4	10000	41.6264	93.8594	-841	QKA	1.9	-1	6.0	-1	1.1	0	0.308	0	1.693	-1	5.489	-1	1591	44	1.3
42991.3	10000	41.6270	93.8594	-841	QKA	1.7	-1	6.1	-1	1.1	0	0.286	-1	1.570	-1	5.498	-1	1587	44	1.3
42991.2	10000	41.6275	93.8594	-842	QKA	1.8	-1	5.9	-2	1.1	0	0.302	-1	1.538	-1	5.101	-2	1597	48	1.3
42991.1	10000	41.6281	93.8594	-843	QKA	1.8	-1	6.0	-2	1.1	0	0.301	-1	1.640	-1	5.440	-2	1584	48	1.3
42991.0	10000	41.6286	93.8594	-844	QKA	1.8	-1	6.0	-1	1.1	0	0.307	0	1.687	-1	5.498	-1	1573	57	1.3
42990.9	10000	41.6292	93.8594	-844	QKA	1.5	-2	6.2	-1	1.2	1	0.249	-1	1.319	-2	5.291	-2	1574	44	1.3
42990.8	10000	41.6297	93.8594	-844	QKA	1.5	-2	6.5	-1	1.2	1	0.235	-1	1.239	-2	5.272	-2	1586	41	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42990.7	10000	41.6303	93.8594	-844	QKA	1.1	-3	6.6	-1	1.3	1	0.164	-3	0.853	-3	5.219	-2	1576	53	1.3
42990.6	10000	41.6308	93.8594	-844	QKA	1.1	-3	6.5	-1	1.3	1	0.176	-2	0.894	-3	5.072	-2	1572	48	1.3
42990.5	10000	41.6313	93.8594	-844	QKA	1.3	-2	6.8	0	1.3	1	0.196	-2	1.047	-2	5.345	-2	1576	46	1.3
42990.4	10000	41.6319	93.8594	-844	QKA	1.2	-3	6.6	-1	1.3	2	0.175	-2	0.875	-3	5.003	-2	1571	55	1.3
42990.3	10000	41.6324	93.8594	-845	QKA	1.3	-2	6.5	-1	1.3	2	0.195	-2	0.973	-3	4.996	-2	1585	37	1.3
42990.2	10000	41.6330	93.8594	-846	QKA	1.5	-2	6.5	-1	1.2	1	0.235	-1	1.250	-2	5.312	-2	1576	43	1.3
42990.1	10000	41.6335	93.8595	-847	QKA	1.7	-1	6.2	-1	1.2	1	0.269	-1	1.428	-2	5.301	-2	1561	43	1.3
42990.0	10000	41.6341	93.8595	-848	QKA	1.9	-1	6.4	-1	1.2	1	0.296	-1	1.630	-1	5.508	-1	1567	44	1.3
42989.9	10000	41.6346	93.8595	-848	QKA	1.9	-1	6.4	-1	1.1	0	0.305	0	1.715	-1	5.622	-1	1568	34	1.2
42989.8	10000	41.6352	93.8595	-849	QKA	1.8	-1	6.3	-1	1.1	0	0.282	-1	1.643	-1	5.821	-1	1565	49	1.2
42989.7	10000	41.6357	93.8595	-849	QKA	2.0	-1	6.7	-1	1.1	0	0.301	-1	1.918	-1	6.364	0	1587	47	1.2
42989.6	10000	41.6363	93.8595	-849	QKA	2.0	-1	6.4	-1	1.1	0	0.306	0	1.795	-1	5.859	-1	1596	47	1.2
42989.5	10000	41.6368	93.8595	-849	QKA	2.0	-1	6.3	-1	1.1	0	0.313	0	1.756	-1	5.601	-1	1608	50	1.2
42989.4	10000	41.6374	93.8595	-849	QKA	2.2	0	6.3	-1	1.2	1	0.342	0	1.875	-1	5.480	-2	1622	46	1.2
42989.3	10000	41.6379	93.8595	-849	QKA	2.3	0	6.1	-1	1.2	1	0.371	0	1.969	-1	5.311	-2	1612	46	1.2
42989.2	10000	41.6384	93.8595	-849	QKA	2.2	0	6.2	-1	1.1	0	0.354	0	1.933	-1	5.456	-2	1593	51	1.2
42989.1	10000	41.6390	93.8595	-849	QKA	2.2	0	5.9	-2	1.2	1	0.370	0	1.810	-1	4.889	-2	1585	43	1.2
42989.0	10000	41.6395	93.8595	-849	QKA	2.1	-1	5.8	-2	1.2	1	0.355	0	1.734	-1	4.881	-2	1561	53	1.2
42988.9	10000	41.6401	93.8595	-849	QKA	2.1	-1	5.9	-2	1.2	1	0.363	0	1.827	-1	5.033	-2	1556	45	1.2
42988.8	10000	41.6406	93.8595	-850	QKA	2.0	-1	6.2	-1	1.1	0	0.323	0	1.789	-1	5.535	-1	1557	44	1.2
42988.7	10000	41.6412	93.8595	-850	QKA	1.9	-1	6.2	-1	1.1	0	0.312	0	1.713	-1	5.489	-1	1558	42	1.2
42988.6	10000	41.6417	93.8595	-850	QKA	1.9	-1	6.3	-1	1.1	0	0.304	0	1.695	-1	5.575	-1	1574	44	1.2
42988.5	10000	41.6423	93.8595	-850	QKA	2.0	-1	6.3	-1	1.1	0	0.320	0	1.762	-1	5.498	-1	1592	42	1.2
42988.4	10000	41.6428	93.8595	-850	QKA	2.1	-1	6.2	-1	1.1	0	0.335	0	1.925	-1	5.750	-1	1588	35	1.2
42988.3	10000	41.6434	93.8595	-850	QKA	2.1	-1	6.5	-1	1.1	0	0.331	0	1.937	-1	5.852	-1	1601	37	1.2
42988.2	10000	41.6439	93.8595	-849	QKA	2.0	-1	6.3	-1	1.1	0	0.323	0	1.943	-1	6.013	-1	1573	35	1.2
42988.1	10000	41.6445	93.8595	-848	QKA	2.1	-1	5.9	-2	1.1	0	0.352	0	1.945	-1	5.527	-1	1546	44	1.2
42988.0	10000	41.6450	93.8595	-848	QKA	2.1	-1	5.9	-2	1.0	0	0.358	0	2.056	-1	5.744	-1	1525	51	1.2
42987.9	10000	41.6455	93.8595	-850	QKA	2.0	-1	5.7	-2	1.0	0	0.358	0	2.074	-1	5.794	-1	1497	37	1.2
42987.8	10000	41.6461	93.8596	-850	QKA	2.2	0	5.6	-2	1.0	0	0.389	1	2.256	-1	5.793	-1	1496	52	1.2
42987.7	10000	41.6466	93.8596	-850	QKA	2.3	0	5.9	-2	1.0	0	0.392	1	2.331	-1	5.942	-1	1509	36	1.1
42987.6	10000	41.6472	93.8596	-849	QKA	2.2	0	5.8	-2	1.0	0	0.382	1	2.272	-1	5.947	-1	1512	39	1.1
42987.5	10000	41.6477	93.8596	-848	QKA	2.2	0	6.2	-1	1.1	0	0.359	1	2.083	-1	5.804	-1	1522	50	1.1
42987.4	10000	41.6483	93.8596	-848	QKA	2.5	0	6.1	-1	1.0	0	0.404	1	2.387	-1	5.905	-1	1539	44	1.1
42987.3	10000	41.6488	93.8596	-848	QKA	2.4	0	6.3	-1	1.0	0	0.380	1	2.308	-1	6.079	-1	1543	52	1.1
42987.2	10000	41.6494	93.8596	-847	QKA	2.5	0	6.3	-1	1.1	0	0.398	1	2.307	-1	5.795	-1	1556	56	1.1
42987.1	10000	41.6499	93.8596	-847	QKA	2.3	0	6.4	-1	1.1	0	0.359	1	2.113	-1	5.885	-1	1548	41	1.1
42987.0	10000	41.6505	93.8596	-847	QKA	2.2	0	6.5	-1	1.1	0	0.344	1	2.062	-1	6.003	-1	1538	46	1.1
42986.9	10000	41.6510	93.8596	-846	QKA	2.4	0	6.4	-1	1.1	0	0.377	1	2.206	-1	5.854	-1	1532	37	1.1
42986.8	10000	41.6516	93.8596	-846	QKA	2.3	0	6.1	-1	1.0	0	0.377	1	2.214	-1	5.879	-1	1530	59	1.1
42986.7	10000	41.6521	93.8596	-846	QKA	2.2	0	6.3	-1	1.0	0	0.348	1	2.078	-1	5.975	-1	1517	38	1.1
42986.6	10000	41.6526	93.8596	-846	QKA	2.2	0	6.1	-1	1.1	0	0.368	1	2.101	-1	5.708	-1	1516	48	1.1
42986.5	10000	41.6532	93.8596	-846	QKA	2.1	-1	5.8	-2	1.0	0	0.359	1	2.096	-1	5.839	-1	1494	52	1.1
42986.4	10000	41.6537	93.8596	-845	QKA	2.1	-1	5.8	-2	1.0	0	0.364	1	2.059	-1	5.665	-1	1482	57	1.1
42986.3	10000	41.6543	93.8596	-845	QKA	2.1	-1	5.6	-2	1.0	0	0.365	1	2.067	-1	5.662	-1	1463	53	1.1
42986.2	10000	41.6548	93.8596	-845	QKA	1.8	-1	5.6	-2	1.0	0	0.326	0	1.784	-1	5.467	-2	1452	50	1.1
42986.1	10000	41.6554	93.8596	-844	QKA	1.9	-1	5.3	-2	1.0	0	0.348	1	1.925	-1	5.534	-1	1426	42	1.1
42986.0	10000	41.6559	93.8596	-844	QKA	1.7	-1	5.2	-3	1.0	0	0.329	0	1.801	-1	5.481	-2	1412	47	1.1
42985.9	10000	41.6565	93.8596	-844	QKA	1.8	-1	5.4	-2	0.9	-1	0.336	0	1.888	-1	5.626	-1	1396	42	1.1
42985.8	10000	41.6570	93.8596	-843	QKA	1.6	-2	5.3	-2	0.9	-1	0.302	-1	1.743	-1	5.775	-1	1398	48	1.1
42985.7	10000	41.6576	93.8596	-843	QKA	1.7	-2	5.2	-3	1.0	-1	0.317	0	1.748	-1	5.521	-1	1402	47	1.1
42985.6	10000	41.6581	93.8596	-842	QKA	1.6	-2	5.2	-3	1.0	-1	0.316	0	1.709	-1	5.415	-2	1409	39	1.1

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42985.5	10000	41.6587	93.8597	-841	QKA	2.0	-1	5.2	-3	1.0	-1	0.384	1	2.066	0	5.378	-2	1410	63	1.1
42985.4	10000	41.6592	93.8597	-840	QKA	[illegible]	-1	5.1	-3	1.0	-1	0.380	1	2.003	0	5.271	-2	1438	50	1.1
42985.3	10000	41.6597	93.8597	-839	QKA	2.0	-1	5.4	-2	1.0	-1	0.372	0	2.032	0	5.464	-2	1456	45	1.1
42985.2	10000	41.6603	93.8597	-839	QKA	1.9	-1	5.5	-2	1.0	0	0.350	0	1.872	-1	5.355	-2	1472	38	1.1
42985.1	10000	41.6608	93.8597	-838	QKA	2.0	-1	5.1	-3	1.0	0	0.384	1	1.912	-1	4.980	-2	1473	52	1.1
42985.0	10000	41.6614	93.8597	-837	QKA	1.8	-1	5.1	-3	1.0	0	0.358	0	1.817	-1	5.079	-2	1476	47	1.1
42984.9	10000	41.6619	93.8597	-836	QKA	1.9	-1	5.3	-2	1.1	0	0.361	0	1.816	-1	5.035	-2	1485	49	1.1
42984.8	10000	41.6625	93.8597	-836	QKA	1.8	-1	5.3	-2	1.0	0	0.342	0	1.745	-1	5.095	-2	1490	50	1.1
42984.7	10000	41.6630	93.8597	-836	QKA	2.0	-1	5.5	-2	1.1	0	0.362	0	1.898	-1	5.248	-2	1487	41	1.1
42984.6	10000	41.6636	93.8597	-836	QKA	2.2	0	5.4	-2	1.0	0	0.407	1	2.168	0	5.325	-2	1475	37	1.1
42984.5	10000	41.6641	93.8597	-835	QKA	2.2	0	5.2	-3	1.1	0	0.430	1	2.135	0	4.964	-2	1479	45	1.1
42984.4	10000	41.6647	93.8597	-835	QKA	2.5	0	5.5	-2	1.0	0	0.450	2	2.393	0	5.323	-2	1485	32	1.1
42984.3	10000	41.6652	93.8597	-834	QKA	2.5	0	5.7	-2	1.1	0	0.448	2	2.405	0	5.369	-2	1486	44	1.1
42984.2	10000	41.6658	93.8597	-833	QKA	2.4	0	5.6	-2	1.0	0	0.425	1	2.300	0	5.408	-2	1483	43	1.1
42984.1	10000	41.6663	93.8597	-833	QKA	2.2	0	5.6	-2	1.0	0	0.400	1	2.137	0	5.341	-2	1487	58	1.1
42984.0	10000	41.6668	93.8597	-832	QKA	2.0	-1	5.7	-2	1.0	0	0.341	0	1.874	-1	5.500	-1	1485	42	1.1
42983.9	10000	41.6674	93.8597	-831	QKA	1.8	-1	5.7	-2	1.1	0	0.321	0	1.700	-1	5.304	-2	1500	44	1.1
42983.8	10000	41.6679	93.8597	-831	QKA	1.7	-1	6.1	-1	1.1	0	0.284	-1	1.625	-1	5.717	-1	1494	50	1.1
42983.7	10000	41.6685	93.8597	-830	QKA	1.4	-2	6.2	-1	1.1	0	0.231	-2	1.278	-2	5.531	-1	1494	46	1.1
42983.6	10000	41.6690	93.8597	-829	QKA	1.4	-2	6.1	-1	1.1	0	0.229	-2	1.282	-2	5.591	-1	1494	55	1.1
42983.5	10000	41.6696	93.8598	-829	QKA	1.5	-2	5.8	-2	1.1	0	0.264	-1	1.392	-2	5.271	-2	1489	34	1.1
42983.4	10000	41.6701	93.8598	-828	QKA	1.8	-1	5.7	-2	1.0	0	0.306	0	1.686	-1	5.502	-1	1474	50	1.1
42983.3	10000	41.6707	93.8598	-827	QKA	2.0	-1	5.5	-2	1.0	0	0.363	0	1.961	-1	5.397	-2	1476	44	1.1
42983.2	10000	41.6712	93.8598	-827	QKA	2.0	-1	5.8	-2	1.0	0	0.337	0	1.932	-1	5.730	-1	1472	56	1.1
42983.1	10000	41.6718	93.8598	-827	QKA	1.9	-1	5.8	-2	1.0	-1	0.328	0	1.912	-1	5.827	-1	1474	47	1.1
42983.0	10000	41.6723	93.8598	-827	QKA	2.1	-1	5.5	-2	0.9	-1	0.377	1	2.194	0	5.817	-1	1473	43	1.1
42982.9	10000	41.6729	93.8598	-826	QKA	2.1	-1	6.1	-1	1.0	-1	0.343	0	2.214	0	6.450	0	1482	35	1.1
42982.8	10000	41.6734	93.8598	-826	QKA	2.0	-1	6.5	-1	0.9	-1	0.303	-1	2.174	0	7.173	1	1492	53	1.1
42982.7	10000	41.6740	93.8598	-827	QKA	1.8	-1	6.9	0	1.0	-1	0.265	-1	1.884	-1	7.109	1	1512	45	1.1
42982.6	10000	41.6745	93.8598	-826	QKA	1.7	-1	6.9	0	1.0	-1	0.246	-1	1.702	-1	6.930	0	1520	50	1.2
42982.5	10000	41.6750	93.8598	-826	QKA	1.8	-1	6.8	0	1.0	-1	0.262	-1	1.733	-1	6.642	0	1542	43	1.2
42982.4	10000	41.6756	93.8598	-825	QKA	1.9	-1	6.7	0	1.0	-1	0.284	-1	1.841	-1	6.489	0	1542	39	1.2
42982.3	10000	41.6761	93.8598	-824	QKA	1.7	-2	7.0	-1	1.1	-1	0.235	-1	1.555	-1	6.626	0	1552	45	1.2
42982.2	10000	41.6767	93.8598	-824	QKA	1.5	-2	6.7	-1	1.1	-1	0.230	-2	1.446	-2	6.278	-1	1547	46	1.2
42982.1	10000	41.6772	93.8598	-823	QKA	1.5	-2	6.5	-1	1.1	-1	0.239	-1	1.395	-2	5.846	-1	1548	43	1.2
42982.0	10000	41.6778	93.8598	-822	QKA	1.7	-1	6.1	-1	1.1	-1	0.282	-1	1.561	-1	5.540	-1	1540	44	1.2
42981.9	10000	41.6783	93.8598	-821	QKA	1.8	-1	6.1	-1	1.1	-1	0.288	-1	1.638	-1	5.680	-1	1522	44	1.2
42981.8	10000	41.6789	93.8598	-821	QKA	1.6	-2	5.9	-2	1.1	-1	0.273	-1	1.502	-1	5.508	-1	1503	44	1.2
42981.7	10000	41.6794	93.8598	-820	QKA	1.7	-1	5.8	-2	1.1	-1	0.289	-1	1.525	-1	5.281	-2	1512	43	1.2
42981.6	10000	41.6800	93.8598	-819	QKA	1.8	-1	5.5	-2	1.1	0	0.330	0	1.715	-1	5.195	-2	1493	39	1.2
42981.5	10000	41.6805	93.8598	-818	QKA	2.2	-1	5.3	-2	1.1	0	0.409	1	2.020	0	4.932	-2	1489	49	1.2
42981.4	10000	41.6810	93.8598	-818	QKA	2.1	-1	5.4	-2	1.1	0	0.380	1	1.948	-1	5.121	-2	1474	32	1.2
42981.3	10000	41.6816	93.8598	-818	QKA	2.0	-1	5.6	-2	1.1	0	0.351	0	1.859	-1	5.292	-2	1483	49	1.2
42981.2	10000	41.6822	93.8599	-818	QKA	2.1	-1	5.5	-2	1.1	0	0.379	1	1.917	-1	5.055	-2	1499	48	1.2
42981.1	10000	41.6827	93.8599	-817	QKA	2.3	0	5.7	-2	1.1	0	0.405	1	2.090	0	5.153	-2	1516	42	1.2
42981.0	10000	41.6832	93.8599	-818	QKA	2.1	-1	5.7	-2	1.1	0	0.378	1	2.008	0	5.317	-2	1502	60	1.2
42980.9	10000	41.6838	93.8599	-817	QKA	2.1	-1	5.7	-2	1.1	0	0.363	0	1.899	-1	5.231	-2	1514	52	1.2
42980.8	10000	41.6843	93.8599	-817	QKA	1.8	-1	5.8	-2	1.1	0	0.309	0	1.618	-1	5.244	-2	1523	51	1.2
42980.7	10000	41.6849	93.8599	-816	QKA	1.8	-1	5.9	-2	1.1	0	0.311	0	1.684	-1	5.412	-2	1531	49	1.2
42980.6	10000	41.6854	93.8599	-816	QKA	1.9	-1	5.9	-2	1.1	0	0.332	0	1.777	-1	5.349	-2	1523	56	1.2
42980.5	10000	41.6860	93.8599	-815	QKA	2.1	-1	5.9	-2	1.1	0	0.348	0	1.899	-1	5.454	-2	1515	35	1.2
42980.4	10000	41.6865	93.8599	-814	QKA	1.8	-1	5.6	-2	1.1	0	0.321	0	1.671	-1	5.201	-2	1493	61	1.2

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42980.3	10000	41.6871	93.8599	-813	QKA	1.9	-1	5.9	-2	1.1	0	0.324	0	1.693	-1	5.228	-2	1496	46	1.2
42980.2	10000	41.6876	93.8599	-813	QKA	1.9	-1	5.7	-2	1.2	1	0.336	0	1.659	-1	4.935	-2	1497	46	1.2
42980.1	10000	41.6882	93.8599	-814	QKA	2.0	-1	6.0	-1	1.1	0	0.327	0	1.719	-1	5.254	-2	1483	46	1.2
42980.0	10000	41.6887	93.8599	-813	QKA	2.0	-1	5.6	-2	1.1	0	0.359	0	1.770	-1	4.935	-2	1488	50	1.2
42979.9	10000	41.6892	93.8599	-811	QKA	2.0	-1	5.6	-2	1.2	1	0.357	0	1.716	-1	4.811	-2	1495	61	1.3
42979.8	10000	41.6898	93.8599	-811	QKA	1.6	-2	5.8	-2	1.2	1	0.281	-1	1.386	-2	4.925	-2	1511	47	1.3
42979.7	10000	41.6903	93.8599	-814	QKA	1.9	-1	5.5	-2	1.2	1	0.336	0	1.578	-1	4.692	-2	1527	49	1.3
42979.6	10000	41.6909	93.8599	-815	QKA	1.9	-1	5.2	-3	1.2	1	0.365	0	1.642	-1	4.501	-3	1532	41	1.3
42979.5	10000	41.6914	93.8599	-814	QKA	1.9	-1	5.5	-2	1.2	1	0.347	0	1.598	-1	4.605	-3	1545	45	1.3
42979.4	10000	41.6920	93.8599	-813	QKA	1.9	-1	5.0	-3	1.2	1	0.385	1	1.636	-1	4.246	-3	1564	41	1.3
42979.3	10000	41.6925	93.8600	-813	QKA	2.0	-1	5.2	-3	1.2	1	0.380	1	1.602	-1	4.215	-3	1574	49	1.3
42979.2	10000	41.6931	93.8600	-813	QKA	1.9	-1	5.5	-2	1.2	1	0.348	0	1.549	-1	4.451	-3	1578	48	1.3
42979.1	10000	41.6936	93.8600	-813	QKA	2.1	-1	5.4	-2	1.2	1	0.385	1	1.668	-1	4.332	-3	1567	43	1.3
42979.0	10000	41.6942	93.8600	-813	QKA	2.0	-1	5.9	-2	1.2	1	0.343	0	1.647	-1	4.809	-2	1563	52	1.3
42978.9	10000	41.6947	93.8600	-813	QKA	1.9	-1	6.0	-2	1.2	1	0.317	0	1.542	-1	4.857	-2	1558	55	1.3
42978.8	10000	41.6953	93.8600	-813	QKA	2.0	-1	6.1	-1	1.2	1	0.327	0	1.704	-1	5.206	-2	1548	46	1.3
42978.7	10000	41.6958	93.8600	-813	QKA	1.9	-1	6.4	-1	1.1	0	0.296	-1	1.672	-1	5.650	-1	1536	45	1.3
42978.6	10000	41.6963	93.8600	-814	QKA	2.1	-1	6.5	-1	1.1	0	0.319	0	1.878	-1	5.888	-1	1535	52	1.3
42978.5	10000	41.6969	93.8600	-814	QKA	2.0	-1	6.5	-1	1.1	0	0.305	0	1.805	-1	5.916	-1	1523	38	1.3
42978.4	10000	41.6974	93.8600	-814	QKA	1.9	-1	6.5	-1	1.1	0	0.285	-1	1.753	-1	6.139	-1	1523	32	1.3
42978.3	10000	41.6980	93.8600	-813	QKA	1.7	-1	6.7	-1	1.1	0	0.257	-1	1.582	-1	6.158	-1	1525	52	1.3
42978.2	10000	41.6985	93.8600	-814	QKA	1.7	-1	6.9	0	1.0	0	0.251	-1	1.664	-1	6.627	0	1529	39	1.3
42978.1	10000	41.6991	93.8600	-814	QKA	1.7	-1	6.8	0	1.0	0	0.254	-1	1.645	-1	6.466	0	1530	46	1.3
42978.0	10000	41.6996	93.8600	-813	QKA	1.7	-1	6.7	-1	1.1	0	0.258	-1	1.545	-1	5.991	-1	1525	34	1.3
42977.9	10000	41.7002	93.8600	-814	QKA	1.5	-2	6.7	-1	1.1	0	0.217	-2	1.304	-2	6.017	-1	1518	44	1.3
42977.8	10000	41.7007	93.8600	-814	QKA	1.6	-2	6.6	-1	1.1	0	0.250	-1	1.490	-2	5.961	-1	1519	49	1.3
42977.7	10000	41.7013	93.8600	-813	QKA	1.8	-1	6.5	-1	1.1	0	0.272	-1	1.620	-1	5.947	-1	1538	49	1.3
42977.6	10000	41.7018	93.8600	-812	QKA	1.8	-1	6.5	-1	1.1	0	0.275	-1	1.587	-1	5.769	-1	1542	43	1.3
42977.5	10000	41.7024	93.8600	-811	QKA	2.0	-1	6.5	-1	1.1	0	0.305	0	1.745	-1	5.715	-1	1543	43	1.3
42977.4	10000	41.7029	93.8600	-811	QKA	1.9	-1	6.5	-1	1.1	0	0.290	-1	1.664	-1	5.736	-1	1534	43	1.3
42977.3	10000	41.7035	93.8600	-812	QKA	2.0	-1	6.4	-1	1.1	0	0.305	0	1.786	-1	5.846	-1	1532	46	1.3
42977.2	10000	41.7040	93.8600	-813	QKA	1.9	-1	6.4	-1	1.1	0	0.298	-1	1.689	-1	5.675	-1	1531	43	1.3
42977.1	10000	41.7046	93.8600	-812	QKA	1.8	-1	6.3	-1	1.2	1	0.291	-1	1.571	-1	5.391	-2	1526	50	1.3
42977.0	10000	41.7051	93.8600	-812	QKA	1.8	-1	6.1	-1	1.2	1	0.296	-1	1.524	-1	5.156	-2	1503	41	1.3
42976.9	10000	41.7057	93.8600	-811	QKA	2.0	-1	6.1	-1	1.1	0	0.322	0	1.717	-1	5.326	-2	1491	44	1.3
42976.8	10000	41.7062	93.8600	-811	QKA	1.7	-1	5.9	-2	1.2	1	0.290	-1	1.453	-2	5.026	-2	1486	57	1.3
42976.7	10000	41.7068	93.8600	-811	QKA	1.8	-1	5.9	-2	1.2	1	0.310	0	1.544	-1	4.988	-2	1492	55	1.3
42976.6	10000	41.7073	93.8600	-810	QKA	1.7	-1	5.7	-2	1.2	1	0.305	0	1.485	-2	4.862	-2	1492	49	1.3
42976.5	10000	41.7079	93.8600	-809	QKA	1.8	-1	5.7	-2	1.1	0	0.316	0	1.592	-1	5.033	-2	1496	43	1.3
42976.4	10000	41.7084	93.8600	-809	QKA	1.7	-1	5.9	-2	1.1	0	0.290	-1	1.524	-1	5.261	-2	1493	48	1.3
42976.3	10000	41.7090	93.8600	-809	QKA	1.5	-2	5.9	-2	1.1	0	0.263	-1	1.405	-2	5.339	-2	1498	43	1.3
42976.2	10000	41.7095	93.8600	-809	QKA	1.5	-2	5.5	-2	1.1	0	0.264	-1	1.290	-2	4.881	-2	1492	38	1.3
42976.1	10000	41.7101	93.8600	-809	QKA	1.4	-2	5.5	-2	1.1	0	0.270	-1	1.321	-2	4.896	-2	1484	41	1.3
42976.0	10000	41.7106	93.8600	-809	QKA	1.2	-2	5.3	-2	1.1	0	0.228	-2	1.055	-2	4.624	-3	1482	48	1.3
42975.9	10000	41.7112	93.8600	-809	QKA	1.4	-2	5.4	-2	1.1	0	0.250	-1	1.199	-2	4.788	-2	1489	45	1.3
42975.8	10000	41.7117	93.8600	-809	QKA	1.4	-2	5.4	-2	1.2	1	0.256	-1	1.187	-2	4.630	-3	1480	36	1.3
42975.7	10000	41.7123	93.8600	-808	QKA	1.3	-2	5.3	-2	1.2	1	0.242	-1	1.051	-2	4.347	-3	1487	52	1.3
42975.6	10000	41.7128	93.8600	-808	QKA	1.5	-2	5.5	-2	1.2	1	0.279	-1	1.298	-2	4.648	-3	1489	43	1.3
42975.5	10000	41.7134	93.8600	-808	QKA	1.4	-2	5.5	-2	1.1	0	0.258	-1	1.243	-2	4.823	-2	1495	54	1.3
42975.4	10000	41.7139	93.8600	-807	QKA	1.4	-2	6.1	-1	1.2	1	0.228	-2	1.189	-2	5.220	-2	1497	55	1.3
42975.3	10000	41.7145	93.8600	-807	QKA	1.5	-2	6.3	-1	1.1	0	0.237	-1	1.341	-2	5.659	-1	1488	46	1.3
42975.2	10000	41.7150	93.8600	-807	QKA	1.5	-2	5.8	-2	1.1	0	0.265	-1	1.421	-2	5.357	-2	1470	49	1.2

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42975.1	10000	41.7156	93.8600	-807	QKA	1.7	-1	5.6	-2	1.1	0	0.303	-1	1.603	-1	5.298	-2	1464	40	1.2
42975.0	10000	41.7161	93.8600	-807	QKA	2.0	-1	5.6	-2	1.0	0	0.350	0	1.889	-1	5.394	-2	1465	39	1.2
42974.9	10000	41.7167	93.8600	-807	QKA	1.9	-1	5.5	-2	1.1	0	0.335	0	1.757	-1	5.252	-2	1453	62	1.2
42974.8	10000	41.7172	93.8600	-807	QKA	2.0	-1	5.7	-2	1.0	0	0.354	0	1.932	-1	5.455	-2	1467	61	1.2
42974.7	10000	41.7178	93.8600	-806	QKA	2.1	-1	5.3	-2	1.0	0	0.403	1	2.068	0	5.134	-2	1473	46	1.2
42974.6	10000	41.7183	93.8600	-806	QKA	2.4	0	5.2	-3	1.0	0	0.472	2	2.372	0	5.027	-2	1484	44	1.2
42974.5	10000	41.7189	93.8600	-806	QKA	2.3	0	5.7	-2	1.0	0	0.401	1	2.207	0	5.504	-1	1491	37	1.2
42974.4	10000	41.7194	93.8600	-806	QKA	2.1	-1	5.9	-2	1.0	0	0.355	0	2.007	0	5.659	-1	1491	43	1.2
42974.3	10000	41.7200	93.8600	-806	QKA	1.9	-1	6.1	-1	1.1	0	0.318	0	1.842	-1	5.792	-1	1492	54	1.2
42974.2	10000	41.7205	93.8600	-805	QKA	2.0	-1	5.7	-2	1.1	0	0.354	0	1.882	-1	5.311	-2	1503	37	1.2
42974.1	10000	41.7211	93.8600	-805	QKA	1.8	-1	5.5	-2	1.1	0	0.334	0	1.615	-1	4.838	-2	1495	58	1.2
42974.0	10000	41.7216	93.8600	-805	QKA	2.0	-1	5.3	-2	1.1	0	0.369	0	1.742	-1	4.725	-2	1478	46	1.2
42973.9	10000	41.7222	93.8600	-805	QKA	1.6	-2	5.3	-2	1.2	1	0.308	0	1.427	-2	4.636	-3	1482	61	1.2
42973.8	10000	41.7227	93.8600	-805	QKA	1.6	-2	5.1	-3	1.2	1	0.308	0	1.341	-2	4.358	-3	1476	43	1.2
42973.7	10000	41.7233	93.8600	-805	QKA	1.5	-2	5.2	-3	1.2	1	0.299	-1	1.316	-2	4.407	-3	1489	47	1.2
42973.6	10000	41.7238	93.8600	-804	QKA	1.7	-2	5.4	-2	1.1	0	0.303	0	1.442	-2	4.755	-2	1499	47	1.2
42973.5	10000	41.7244	93.8600	-803	QKA	1.6	-2	5.5	-2	1.2	1	0.286	-1	1.359	-2	4.759	-2	1504	35	1.2
42973.4	10000	41.7250	93.8600	-803	QKA	1.8	-1	6.2	-1	1.1	0	0.290	-1	1.642	-1	5.660	-1	1510	40	1.2
42973.3	10000	41.7255	93.8600	-803	QKA	1.7	-1	6.6	-1	1.1	0	0.260	-1	1.518	-1	5.834	-1	1531	39	1.2
42973.2	10000	41.7261	93.8600	-802	QKA	1.6	-2	6.6	-1	1.1	0	0.248	-1	1.511	-1	6.086	-1	1523	44	1.2
42973.1	10000	41.7266	93.8600	-802	QKA	1.6	-2	6.7	-1	1.1	0	0.243	-1	1.511	-1	6.212	-1	1541	36	1.2
42973.0	10000	41.7272	93.8600	-802	QKA	1.5	-2	6.8	0	1.1	0	0.227	-2	1.425	-2	6.285	-1	1530	54	1.2
42972.9	10000	41.7277	93.8600	-802	QKA	1.4	-2	6.4	-1	1.1	0	0.220	-2	1.270	-2	5.784	-1	1528	56	1.2
42972.8	10000	41.7283	93.8600	-802	QKA	1.5	-2	6.4	-1	1.1	0	0.226	-2	1.314	-2	5.808	-1	1520	51	1.2
42972.7	10000	41.7288	93.8600	-802	QKA	1.2	-2	5.8	-2	1.2	1	0.213	-2	1.075	-2	5.048	-2	1521	44	1.2
42972.6	10000	41.7294	93.8600	-802	QKA	1.1	-3	5.9	-2	1.2	1	0.187	-2	0.918	-3	4.913	-2	1510	39	1.2
42972.5	10000	41.7299	93.8600	-802	QKA	1.2	-2	5.8	-2	1.2	1	0.212	-2	1.006	-2	4.748	-2	1510	40	1.2
42972.4	10000	41.7305	93.8600	-801	QKA	1.1	-3	5.7	-2	1.2	1	0.196	-2	0.931	-3	4.748	-2	1492	47	1.2
42972.3	10000	41.7310	93.8600	-800	QKA	1.2	-3	5.5	-2	1.3	1	0.210	-2	0.927	-3	4.408	-3	1497	58	1.2
42972.2	10000	41.7316	93.8600	-800	QKA	1.1	-3	5.3	-2	1.2	1	0.215	-2	0.920	-3	4.282	-3	1469	41	1.2
42972.1	10000	41.7321	93.8600	-800	QKA	0.9	-3	5.4	-2	1.2	1	0.167	-2	0.752	-3	4.493	-3	1455	42	1.2
42972.0	10000	41.7327	93.8600	-799	QKA	1.0	-3	5.1	-3	1.2	1	0.194	-2	0.825	-3	4.263	-3	1437	45	1.2
42971.9	10000	41.7332	93.8600	-799	QKA	1.2	-2	4.9	-3	1.2	1	0.249	-1	1.049	-2	4.209	-3	1429	55	1.2
42971.8	10000	41.7338	93.8600	-799	QO	1.3	-2	4.8	-3	1.2	1	0.271	-1	1.099	-1	4.058	-1	1422	50	1.2
42971.7	10000	41.7343	93.8600	-800	QO	1.5	-1	4.9	-1	1.1	1	0.303	-1	1.320	-1	4.356	-1	1426	51	1.2
42971.6	10000	41.7349	93.8600	-799	QO	1.8	-1	4.9	-1	1.1	0	0.358	0	1.625	-1	4.534	-1	1423	41	1.2
42971.5	10000	41.7354	93.8600	-799	QO	1.8	-1	5.0	0	1.0	0	0.360	0	1.713	0	4.760	-1	1424	43	1.2
42971.4	10000	41.7360	93.8600	-799	QO	2.1	0	5.0	0	1.1	0	0.412	0	1.955	0	4.740	-1	1424	50	1.2
42971.3	10000	41.7365	93.8600	-799	QO	2.1	0	5.5	0	1.0	0	0.387	0	2.036	0	5.254	0	1424	40	1.2
42971.2	10000	41.7371	93.8600	-800	QO	2.1	0	5.4	0	1.0	0	0.387	0	2.032	0	5.245	0	1424	49	1.2
42971.1	10000	41.7376	93.8600	-800	QO	2.1	0	5.3	0	1.0	0	0.401	0	2.071	0	5.168	0	1428	38	1.2
42971.0	10000	41.7382	93.8600	-800	QO	2.0	0	4.9	0	1.1	0	0.415	0	1.846	0	4.448	-1	1429	50	1.2
42970.9	10000	41.7387	93.8600	-800	QO	1.9	0	4.9	0	1.1	0	0.379	0	1.673	-1	4.408	-1	1424	49	1.2
42970.8	10000	41.7393	93.8600	-799	QO	2.1	0	5.1	0	1.1	0	0.413	0	1.849	0	4.472	-1	1435	39	1.2
42970.7	10000	41.7398	93.8600	-798	QO	2.3	0	4.9	0	1.1	0	0.463	1	2.058	0	4.441	-1	1456	45	1.2
42970.6	10000	41.7404	93.8600	-799	QO	2.3	0	4.9	0	1.0	0	0.470	1	2.186	0	4.655	-1	1451	41	1.2
42970.5	10000	41.7409	93.8600	-799	QO	2.3	0	5.0	0	1.1	0	0.466	1	2.199	0	4.720	-1	1467	39	1.2
42970.4	10000	41.7415	93.8600	-799	QO	2.3	0	5.0	0	1.1	0	0.461	1	2.173	0	4.716	-1	1470	44	1.2
42970.3	10000	41.7420	93.8600	-798	QO	2.3	0	5.0	0	1.0	0	0.427	0	2.293	0	5.369	0	1481	43	1.2
42970.2	10000	41.7426	93.8600	-798	QO	2.2	0	5.0	0	1.0	0	0.397	0	2.214	0	5.583	0	1475	64	1.2
42970.1	10000	41.7431	93.8600	-798	QO	2.0	0	4.9	0	1.0	0	0.352	0	2.069	0	5.879	1	1476	52	1.2
42970.0	10000	41.7437	93.8600	-798	QO	1.7	-1	5.8	0	1.0	0	0.286	-1	1.643	-1	5.741	1	1473	29	1.2

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42969.9	10000	41.7442	93.8600	-797	QQ	1.6	-1	5.9	0	1.1	0	0.264	-1	1.420	-1	5.370	0	1485	56	1.2
42969.8	10000	41.7448	93.8600	-797	QQ	1.4	-1	6.0	1	1.1	0	0.236	-1	1.292	-1	5.481	0	1484	48	1.2
42969.7	10000	41.7453	93.8600	-797	QQ	1.3	-2	6.1	1	1.1	0	0.208	-2	1.181	-1	5.676	0	1470	37	1.2
42969.6	10000	41.7459	93.8600	-797	QQ	1.4	-1	5.9	0	1.1	0	0.243	-1	1.300	-1	5.353	0	1470	41	1.2
42969.5	10000	41.7464	93.8600	-797	QQ	1.6	-1	5.7	0	1.1	1	0.275	-1	1.362	-1	4.949	0	1493	37	1.2
42969.4	10000	41.7470	93.8600	-798	QQ	1.4	-1	5.4	0	1.1	1	0.253	-1	1.194	-1	4.728	-1	1483	36	1.3
42969.3	10000	41.7476	93.8600	-798	QQ	1.5	-1	5.8	0	1.1	1	0.253	-1	1.278	-1	5.054	0	1477	41	1.3
42969.2	10000	41.7481	93.8600	-799	QQ	1.3	-2	6.0	0	1.1	1	0.215	-1	1.132	-1	5.276	0	1483	49	1.3
42969.1	10000	41.7486	93.8600	-800	QQ	1.2	-2	5.9	0	1.2	1	0.196	-2	0.973	-2	4.963	0	1488	47	1.3
42969.0	10000	41.7492	93.8600	-800	QQ	1.2	-2	5.9	0	1.3	1	0.198	-2	0.927	-2	4.682	-1	1509	46	1.3
42968.9	10000	41.7498	93.8600	-800	QQ	1.1	-2	5.9	0	1.2	1	0.189	-2	0.903	-2	4.788	-1	1508	62	1.3
42968.8	10000	41.7503	93.8600	-800	QQ	1.2	-2	5.9	0	1.2	1	0.198	-2	0.976	-2	4.935	0	1507	56	1.3
42968.7	10000	41.7509	93.8600	-799	QQ	1.4	-1	5.9	0	1.2	1	0.234	-1	1.133	-1	4.844	0	1535	48	1.3
42968.6	10000	41.7514	93.8600	-799	QQ	1.5	-1	5.7	0	1.2	1	0.267	-1	1.252	-1	4.685	-1	1554	41	1.3
42968.5	10000	41.7520	93.8600	-798	QQ	1.8	0	5.5	0	1.2	1	0.335	0	1.555	-1	4.638	-1	1549	40	1.3
42968.4	10000	41.7525	93.8600	-798	QQ	2.1	0	5.6	0	1.1	0	0.368	0	1.858	0	5.054	0	1546	43	1.3
42968.3	10000	41.7531	93.8600	-798	QQ	2.1	0	6.0	0	1.1	0	0.347	0	1.932	0	5.567	0	1538	50	1.3
42968.2	10000	41.7536	93.8600	-798	QQ	2.1	0	5.9	0	1.1	0	0.346	0	1.887	0	5.451	0	1540	51	1.3
42968.1	10000	41.7542	93.8600	-798	QQ	2.0	0	6.0	1	1.1	0	0.337	0	1.884	0	5.584	0	1527	55	1.3
42968.0	10000	41.7547	93.8600	-799	QQ	2.0	0	6.0	1	1.1	0	0.326	-1	1.856	0	5.687	0	1504	42	1.3
42967.9	10000	41.7553	93.8600	-799	QQ	1.9	0	6.1	1	1.0	0	0.318	-1	1.867	0	5.863	1	1486	44	1.3
42967.8	10000	41.7558	93.8600	-799	QQ	1.8	0	6.1	1	1.0	0	0.297	-1	1.745	0	5.869	1	1485	70	1.3
42967.7	10000	41.7564	93.8600	-799	QQ	1.8	0	6.0	1	1.0	0	0.303	-1	1.768	0	5.828	1	1478	37	1.3
42967.6	10000	41.7569	93.8600	-799	QQ	1.9	0	6.1	1	1.0	0	0.311	-1	1.822	0	5.865	1	1477	57	1.3
42967.5	10000	41.7575	93.8600	-798	QQ	1.8	-1	5.8	0	1.0	0	0.303	-1	1.793	0	5.919	1	1463	56	1.3
42967.4	10000	41.7580	93.8600	-798	QQ	1.9	0	6.0	0	1.0	0	0.322	-1	1.964	0	6.104	1	1454	45	1.3
42967.3	10000	41.7586	93.8600	-799	QQ	1.9	0	5.7	0	1.0	0	0.341	0	1.997	0	5.848	1	1464	51	1.4
42967.2	10000	41.7591	93.8600	-798	QQ	1.9	0	5.7	0	1.0	0	0.335	0	1.895	0	5.655	0	1464	39	1.4
42967.1	10000	41.7597	93.8600	-799	QQ	1.9	0	5.4	0	1.0	0	0.353	0	1.881	0	5.327	0	1461	55	1.4
42967.0	10000	41.7602	93.8600	-799	QQ	2.0	0	5.2	0	1.0	0	0.384	0	1.945	0	5.070	0	1466	48	1.4
42966.9	10000	41.7608	93.8600	-798	QQ	2.1	0	5.0	0	1.0	0	0.421	0	2.072	0	4.924	0	1468	50	1.4
42966.8	10000	41.7613	93.8600	-798	QQ	2.3	0	5.2	0	1.0	0	0.437	0	2.214	0	5.062	0	1472	46	1.4
42966.7	10000	41.7619	93.8600	-798	QQ	2.2	0	5.1	0	1.0	0	0.429	0	2.164	0	5.039	0	1482	56	1.4
42966.6	10000	41.7624	93.8600	-798	QQ	2.1	0	5.5	0	1.0	0	0.386	0	2.061	0	5.333	0	1477	38	1.4
42966.5	10000	41.7630	93.8600	-799	QQ	2.1	0	5.6	0	1.0	0	0.363	0	1.993	0	5.483	0	1487	45	1.4
42966.4	10000	41.7635	93.8600	-800	QQ	2.1	0	5.7	0	1.0	0	0.361	0	2.007	0	5.556	0	1487	31	1.4
42966.3	10000	41.7641	93.8600	-800	QQ	2.0	0	5.9	0	1.0	0	0.332	-1	1.900	0	5.724	0	1480	43	1.4
42966.2	10000	41.7646	93.8600	-800	QQ	2.0	0	6.0	0	1.1	0	0.327	-1	1.858	0	5.689	0	1481	45	1.4
42966.1	10000	41.7652	93.8600	-800	QQ	1.7	-1	5.8	0	1.1	1	0.297	-1	1.594	-1	5.363	0	1478	43	1.4
42966.0	10000	41.7657	93.8600	-800	QQ	1.7	-1	5.5	0	1.1	1	0.299	-1	1.476	-1	4.934	0	1488	39	1.4
42965.9	10000	41.7663	93.8600	-800	QQ	1.9	0	5.4	0	1.1	1	0.351	0	1.678	-1	4.775	-1	1504	56	1.4
42965.8	10000	41.7668	93.8600	-800	QQ	1.9	0	5.1	0	1.1	1	0.375	0	1.721	0	4.594	-1	1507	48	1.4
42965.7	10000	41.7674	93.8600	-800	QQ	2.1	0	5.0	0	1.1	1	0.420	0	1.982	0	4.714	-1	1525	46	1.4
42965.6	10000	41.7679	93.8600	-800	QQ	2.3	0	4.9	0	1.1	1	0.470	0	2.200	0	4.680	-1	1545	42	1.4
42965.5	10000	41.7685	93.8600	-800	QQ	2.3	0	4.9	0	1.1	1	0.468	0	2.168	0	4.629	-1	1560	50	1.4
42965.4	10000	41.7690	93.8600	-800	QQ	2.3	0	5.2	0	1.1	1	0.450	0	2.157	0	4.794	-1	1593	43	1.4
42965.3	10000	41.7696	93.8600	-800	QQ	2.3	0	5.4	0	1.1	1	0.424	0	2.150	0	5.070	0	1597	40	1.4
42965.2	10000	41.7701	93.8600	-801	QQ	2.3	0	5.8	0	1.1	1	0.390	0	2.133	0	5.469	0	1616	56	1.4
42965.1	10000	41.7707	93.8600	-801	QQ	2.4	0	6.2	0	1.1	1	0.390	0	2.272	0	5.831	0	1612	48	1.4
42965.0	10000	41.7712	93.8600	-802	QQ	2.2	0	6.0	0	1.1	1	0.354	0	2.018	0	5.705	0	1615	56	1.4
42964.9	10000	41.7718	93.8600	-802	QQ	1.9	0	6.0	0	1.1	1	0.314	-1	1.718	0	5.473	0	1611	43	1.4
42964.8	10000	41.7723	93.8600	-803	QQ	1.9	0	6.0	0	1.1	0	0.317	-1	1.778	0	5.603	0	1592	50	1.4

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42964.7	10000	41.7729	93.8600	-803	QW	2.1	0	5.9	1	1.1	0	0.356	0	1.975	0	5.547	1	1563	45	1.4
42964.6	10000	41.7735	93.8600	-803	QW	2.4	1	5.8	0	1.1	0	0.408	0	2.246	0	5.506	1	1568	51	1.4
42964.5	10000	41.7740	93.8600	-803	QW	2.2	1	5.4	0	1.0	0	0.408	0	2.178	-1	5.333	0	1547	43	1.4
42964.4	10000	41.7746	93.8600	-802	QW	2.0	0	5.1	0	1.0	0	0.398	0	2.001	0	5.033	0	1548	40	1.4
42964.3	10000	41.7751	93.8600	-803	QW	2.2	0	5.1	0	1.0	0	0.427	1	2.163	1	5.072	0	1544	41	1.4
42964.2	10000	41.7757	93.8600	-805	QW	2.3	1	5.4	0	1.0	-1	0.426	1	2.357	1	5.531	1	1539	38	1.4
42964.1	10000	41.7762	93.8600	-806	QW	2.3	1	5.2	0	1.0	-1	0.447	1	2.320	1	5.192	0	1545	45	1.4
42964.0	10000	41.7768	93.8600	-806	QW	2.4	1	5.0	-1	1.0	0	0.468	1	2.337	1	4.997	0	1557	43	1.4
42963.9	10000	41.7773	93.8600	-806	QW	1.9	0	4.9	-1	1.0	0	0.383	0	1.848	0	4.828	-1	1536	43	1.4
42963.8	10000	41.7779	93.8600	-806	QW	1.8	0	4.8	-1	1.0	-1	0.385	0	1.823	0	4.740	-1	1504	55	1.4
42963.7	10000	41.7784	93.8600	-806	QW	1.6	-1	4.8	-1	1.1	0	0.342	0	1.556	-1	4.546	-1	1473	26	1.4
42963.6	10000	41.7790	93.8600	-807	QW	1.5	-1	4.6	-1	1.1	0	0.321	-1	1.373	-1	4.284	-1	1465	51	1.4
42963.5	10000	41.7795	93.8600	-807	QW	1.3	-2	4.3	-2	1.1	1	0.304	-1	1.160	-2	3.820	-2	1452	38	1.4
42963.4	10000	41.7801	93.8600	-808	QW	1.3	-2	4.7	-1	1.1	1	0.287	-1	1.175	-2	4.088	-2	1450	50	1.4
42963.3	10000	41.7806	93.8600	-808	QW	1.2	-2	4.8	-1	1.1	1	0.256	-1	1.110	-2	4.331	-1	1446	48	1.4
42963.2	10000	41.7812	93.8600	-808	QW	1.3	-2	4.9	-1	1.1	1	0.272	-1	1.167	-2	4.288	-1	1452	43	1.4
42963.1	10000	41.7817	93.8601	-809	QW	1.5	-1	4.8	-1	1.2	1	0.319	-1	1.294	-1	4.059	-2	1480	47	1.4
42963.0	10000	41.7822	93.8601	-809	QW	1.7	-1	5.0	-1	1.2	1	0.340	0	1.434	-1	4.213	-2	1515	43	1.4
42962.9	10000	41.7828	93.8601	-809	QW	1.7	-1	5.2	0	1.2	1	0.331	0	1.485	-1	4.492	-1	1516	55	1.4
42962.8	10000	41.7833	93.8601	-810	QW	1.8	0	5.3	0	1.2	1	0.346	0	1.541	-1	4.452	-1	1537	37	1.4
42962.7	10000	41.7839	93.8601	-810	QW	1.8	0	5.0	-1	1.2	2	0.363	0	1.484	-1	4.091	-2	1548	49	1.4
42962.6	10000	41.7844	93.8601	-811	QW	1.8	0	5.1	-1	1.2	2	0.355	0	1.452	-1	4.086	-2	1545	62	1.4
42962.5	10000	41.7850	93.8601	-811	QW	1.8	0	5.4	0	1.2	1	0.333	0	1.490	-1	4.473	-1	1546	51	1.4
42962.4	10000	41.7855	93.8601	-811	QW	1.7	-1	5.7	0	1.2	1	0.291	-1	1.423	-1	4.888	0	1554	40	1.4
42962.3	10000	41.7861	93.8601	-812	QW	1.8	0	5.6	0	1.1	1	0.329	0	1.644	-1	5.004	0	1558	45	1.4
42962.2	10000	41.7866	93.8601	-812	QW	1.9	0	5.3	0	1.1	1	0.347	0	1.634	-1	4.704	-1	1553	50	1.4
42962.1	10000	41.7872	93.8602	-813	QW	1.7	-1	5.3	0	1.1	1	0.313	-1	1.469	-1	4.689	-1	1538	45	1.4
42962.0	10000	41.7877	93.8602	-813	QW	1.8	-1	5.3	0	1.1	1	0.330	0	1.569	-1	4.754	-1	1533	42	1.4
42961.9	10000	41.7883	93.8602	-813	QW	1.7	-1	5.3	0	1.1	1	0.315	-1	1.496	-1	4.745	-1	1532	53	1.4
42961.8	10000	41.7888	93.8602	-814	QW	1.7	-1	5.3	0	1.1	1	0.312	-1	1.452	-1	4.657	-1	1543	43	1.4
42961.7	10000	41.7893	93.8602	-814	QW	1.5	-1	5.2	0	1.1	1	0.286	-1	1.293	-1	4.527	-1	1531	52	1.4
42961.6	10000	41.7899	93.8602	-815	QW	1.3	-2	5.1	-1	1.2	1	0.265	-1	1.136	-2	4.292	-1	1504	42	1.4
42961.5	10000	41.7904	93.8602	-815	QW	1.2	-2	5.0	-1	1.2	1	0.240	-1	1.016	-2	4.233	-2	1495	43	1.4
42961.4	10000	41.7910	93.8602	-816	QW	1.4	-1	5.0	-1	1.2	1	0.284	-1	1.188	-2	4.184	-2	1499	45	1.4
42961.3	10000	41.7915	93.8602	-816	QW	1.2	-2	5.2	0	1.2	2	0.229	-1	0.965	-2	4.207	-2	1489	46	1.4
42961.2	10000	41.7921	93.8602	-818	QW	1.3	-2	5.3	0	1.2	2	0.251	-1	1.051	-2	4.189	-2	1492	48	1.4
42961.1	10000	41.7926	93.8602	-818	QW	1.5	-1	5.1	0	1.2	2	0.283	-1	1.164	-2	4.105	-2	1483	49	1.4
42961.0	10000	41.7932	93.8602	-819	QW	1.6	-1	5.2	0	1.3	2	0.306	-1	1.257	-1	4.113	-2	1485	42	1.3
42960.9	10000	41.7937	93.8603	-820	QW	1.6	-1	5.3	0	1.3	2	0.301	-1	1.253	-1	4.161	-2	1485	51	1.3
42960.8	10000	41.7943	93.8603	-820	QW	1.7	-1	5.5	0	1.3	2	0.301	-1	1.262	-1	4.196	-2	1506	42	1.3
42960.7	10000	41.7948	93.8603	-820	QW	1.7	-1	5.6	0	1.3	2	0.301	-1	1.267	-1	4.204	-2	1505	51	1.3
42960.6	10000	41.7953	93.8603	-821	QW	1.7	-1	5.5	0	1.3	2	0.307	-1	1.325	-1	4.314	-1	1509	34	1.3
42960.5	10000	41.7959	93.8603	-821	QW	1.7	-1	5.5	0	1.3	2	0.302	-1	1.292	-1	4.278	-1	1518	38	1.3
42960.4	10000	41.7964	93.8603	-822	QW	1.6	-1	5.4	0	1.3	2	0.302	-1	1.273	-1	4.210	-2	1522	41	1.3
42960.3	10000	41.7970	93.8603	-823	QW	1.8	0	5.4	0	1.3	2	0.330	0	1.376	-1	4.175	-2	1529	43	1.3
42960.2	10000	41.7975	93.8603	-823	QW	1.8	0	5.2	0	1.2	2	0.349	0	1.436	-1	4.115	-2	1533	41	1.3
42960.1	10000	41.7981	93.8603	-822	QW	2.0	0	5.2	0	1.2	1	0.388	0	1.668	-1	4.302	-1	1515	42	1.3
42960.0	10000	41.7986	93.8603	-820	QW	2.0	0	5.2	0	1.1	1	0.386	0	1.810	0	4.684	-1	1513	50	1.3
42959.9	10000	41.7992	93.8604	-819	QW	2.2	1	5.3	0	1.1	1	0.397	0	1.987	0	5.010	0	1512	57	1.3
42959.8	10000	41.7997	93.8604	-823	QW	2.1	0	5.3	0	1.1	1	0.392	0	1.928	0	4.922	0	1497	47	1.3
42959.7	10000	41.8002	93.8604	-827	QW	2.1	0	5.5	0	1.1	1	0.393	0	1.909	0	4.856	-1	1505	40	1.3
42959.6	10000	41.8008	93.8604	-828	QW	1.9	0	5.6	0	1.1	0	0.341	0	1.797	0	5.269	0	1498	37	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42959.5	10000	41.8013	93.8604	-829	QW	1.8	-1	6.1	1	1.1	0	0.291	-1	1.658	-1	5.688	1	1497	37	1.3
42959.4	10000	41.8019	93.8604	-831	QW	1.6	-1	6.2	1	1.1	0	0.256	-1	1.466	-1	5.725	1	1505	57	1.3
42959.3	10000	41.8024	93.8604	-831	QW	1.6	-1	6.5	1	1.1	0	0.242	-1	1.421	-1	5.875	1	1513	48	1.3
42959.2	10000	41.8030	93.8604	-832	QW	1.6	-1	6.2	1	1.1	0	0.262	-1	1.482	-1	5.656	1	1514	41	1.3
42959.1	10000	41.8035	93.8604	-832	QW	1.6	-1	6.4	1	1.1	1	0.248	-1	1.435	-1	5.779	1	1529	43	1.3
42959.0	10000	41.8041	93.8604	-833	QW	1.6	-1	6.4	1	1.1	0	0.243	-1	1.410	-1	5.808	1	1517	40	1.3
42958.9	10000	41.8046	93.8604	-834	QW	1.8	0	6.3	1	1.2	1	0.286	-1	1.554	-1	5.427	0	1528	52	1.3
42958.8	10000	41.8052	93.8605	-834	QW	1.9	0	6.1	1	1.1	1	0.314	-1	1.676	0	5.338	0	1526	38	1.3
42958.7	10000	41.8057	93.8605	-835	QW	2.0	0	6.1	1	1.1	1	0.330	0	1.776	0	5.377	0	1541	41	1.3
42958.6	10000	41.8063	93.8605	-835	QW	1.9	0	5.9	1	1.2	1	0.328	0	1.662	-1	5.064	0	1544	52	1.3
42958.5	10000	41.8068	93.8605	-836	QW	1.9	0	5.9	1	1.2	1	0.323	-1	1.603	-1	4.956	0	1555	36	1.3
42958.4	10000	41.8073	93.8605	-837	QW	1.9	0	5.9	1	1.2	1	0.314	-1	1.571	-1	4.998	0	1559	45	1.3
42958.3	10000	41.8079	93.8605	-839	QW	1.9	0	5.8	1	1.2	1	0.319	-1	1.568	-1	4.909	0	1567	46	1.3
42958.2	10000	41.8084	93.8605	-840	QW	1.8	0	5.8	1	1.1	1	0.313	-1	1.593	-1	5.086	0	1559	60	1.3
42958.1	10000	41.8090	93.8605	-841	QW	1.9	0	5.5	0	1.1	1	0.339	0	1.628	-1	4.805	-1	1563	46	1.3
42958.0	10000	41.8095	93.8605	-843	QW	1.8	0	5.1	0	1.1	1	0.355	0	1.633	-1	4.601	-1	1556	29	1.3
42957.9	10000	41.8101	93.8605	-845	QW	1.9	0	5.1	0	1.1	1	0.373	0	1.707	0	4.580	-1	1556	49	1.3
42957.8	10000	41.8106	93.8605	-847	QW	1.8	0	5.0	-1	1.1	1	0.364	0	1.615	-1	4.438	-1	1542	47	1.3
42957.7	10000	41.8112	93.8605	-849	QW	2.0	0	4.9	-1	1.1	0	0.414	0	1.865	0	4.507	-1	1528	38	1.3
42957.6	10000	41.8117	93.8606	-852	QW	1.9	0	4.9	-1	1.1	0	0.375	0	1.761	0	4.693	-1	1519	53	1.3
42957.5	10000	41.8123	93.8606	-853	QW	2.0	0	4.8	-1	1.1	0	0.416	0	1.848	0	4.440	-1	1515	47	1.3
42957.4	10000	41.8128	93.8606	-852	QW	2.0	0	5.2	0	1.1	0	0.393	0	1.875	0	4.774	-1	1532	47	1.3
42957.3	10000	41.8133	93.8606	-846	QW	1.9	0	5.6	0	1.2	1	0.333	0	1.604	-1	4.811	-1	1535	55	1.3
42957.2	10000	41.8139	93.8606	-839	QW	1.7	-1	5.8	1	1.2	1	0.286	-1	1.403	-1	4.907	0	1531	54	1.3
42957.1	10000	41.8144	93.8606	-837	QW	1.6	-1	6.2	1	1.2	1	0.266	-1	1.386	-1	5.205	0	1544	47	1.3
42957.0	10000	41.8150	93.8606	-839	QW	1.6	-1	6.2	1	1.2	1	0.253	-1	1.301	-1	5.151	0	1551	44	1.3
42956.9	10000	41.8155	93.8606	-843	QW	1.6	-1	6.7	2	1.2	1	0.239	-1	1.340	-1	5.599	1	1560	49	1.3
42956.8	10000	41.8161	93.8606	-845	QW	1.3	-2	6.8	2	1.2	1	0.196	-2	1.125	-2	5.742	1	1558	55	1.3
42956.7	10000	41.8166	93.8606	-847	QW	1.2	-2	6.7	2	1.2	1	0.186	-2	1.028	-2	5.524	1	1534	56	1.3
42956.6	10000	41.8172	93.8607	-849	QW	1.5	-1	6.6	2	1.1	1	0.222	-2	1.283	-1	5.775	1	1527	43	1.3
42956.5	10000	41.8177	93.8607	-849	QW	1.7	-1	6.2	1	1.1	0	0.280	-1	1.625	-1	5.804	1	1518	43	1.3
42956.4	10000	41.8183	93.8607	-851	QW	1.8	0	6.1	1	1.0	0	0.294	-1	1.733	0	5.887	1	1514	41	1.3
42956.3	10000	41.8188	93.8607	-852	QW	1.8	-1	6.4	1	1.1	0	0.277	-1	1.670	0	6.024	1	1507	49	1.3
42956.2	10000	41.8193	93.8607	-851	QW	1.9	0	5.7	1	1.1	0	0.332	0	1.760	0	5.309	0	1506	34	1.3
42956.1	10000	41.8199	93.8607	-852	QW	1.9	0	5.4	1	1.1	0	0.357	0	1.749	0	4.904	0	1504	35	1.3
42956.0	10000	41.8204	93.8607	-853	QW	2.1	0	5.5	1	1.1	0	0.380	0	1.949	0	5.122	0	1514	43	1.3
42955.9	10000	41.8210	93.8607	-853	QW	2.1	0	5.6	1	1.1	0	0.381	0	1.972	0	5.175	0	1509	38	1.3
42955.8	10000	41.8215	93.8607	-854	QW	1.9	0	5.9	1	1.1	1	0.323	-1	1.719	0	5.320	0	1514	46	1.3
42955.7	10000	41.8221	93.8607	-856	QW	2.0	0	5.8	1	1.1	1	0.340	0	1.781	0	5.236	0	1514	40	1.3
42955.6	10000	41.8226	93.8607	-858	QW	2.1	0	5.6	1	1.1	1	0.373	0	1.848	0	4.950	0	1526	57	1.3
42955.5	10000	41.8232	93.8608	-858	QW	2.1	0	5.8	1	1.1	1	0.369	0	1.912	0	5.182	0	1529	46	1.3
42955.4	10000	41.8237	93.8608	-859	QW	2.0	0	5.9	1	1.1	1	0.338	0	1.868	0	5.529	1	1532	38	1.3
42955.3	10000	41.8242	93.8608	-860	QW	2.0	0	6.1	1	1.1	1	0.322	-1	1.755	0	5.455	0	1550	45	1.3
42955.2	10000	41.8248	93.8608	-862	QW	1.8	0	6.1	1	1.1	1	0.302	-1	1.630	-1	5.392	0	1554	51	1.3
42955.1	10000	41.8253	93.8608	-861	QW	2.0	0	5.9	1	1.2	1	0.332	-1	1.697	-1	5.109	0	1563	42	1.3
42955.0	10000	41.8259	93.8608	-861	QW	2.0	0	6.0	1	1.2	1	0.324	-1	1.653	-1	5.107	0	1571	47	1.3
42954.9	10000	41.8264	93.8608	-861	QW	2.0	0	5.9	1	1.2	1	0.338	-1	1.712	-1	5.067	0	1574	46	1.3
42954.8	10000	41.8270	93.8608	-862	QW	1.9	0	5.7	1	1.2	1	0.332	-1	1.638	-1	4.935	0	1573	46	1.3
42954.7	10000	41.8275	93.8608	-863	QW	2.0	0	5.6	1	1.2	1	0.354	-1	1.680	-1	4.740	-1	1561	47	1.3
42954.6	10000	41.8281	93.8608	-864	QW	1.9	0	5.5	1	1.2	1	0.345	-1	1.650	-1	4.783	-1	1542	44	1.3
42954.5	10000	41.8286	93.8609	-865	QW	1.9	0	5.5	1	1.1	1	0.342	-1	1.662	-1	4.854	-1	1536	48	1.3
42954.4	10000	41.8292	93.8609	-867	QW	1.7	-1	5.3	0	1.1	0	0.321	-1	1.543	-1	4.811	-1	1529	49	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42954.3	10000	41.8297	93.8609	-869	QW	1.7	-1	5.4	0	1.1	0	0.310	-1	1.532	-1	4.945	0	1508	46	1.3
42954.2	10000	41.8302	93.8609	-869	QW	1.6	-1	5.9	1	1.1	0	0.278	-1	1.523	-1	5.483	0	1494	51	1.3
42954.1	10000	41.8308	93.8609	-869	QW	1.6	-1	5.9	1	1.1	0	0.275	-1	1.545	-1	5.622	1	1481	46	1.3
42954.0	10000	41.8313	93.8609	-869	QW	1.8	0	6.2	1	1.1	0	0.294	-1	1.714	0	5.835	1	1512	33	1.3
42953.9	10000	41.8319	93.8609	-870	QW	1.9	0	6.3	1	1.0	0	0.299	-1	1.811	0	6.056	1	1519	47	1.3
42953.8	10000	41.8324	93.8609	-870	QW	1.8	0	6.2	1	1.1	0	0.297	-1	1.682	0	5.665	1	1534	53	1.3
42953.7	10000	41.8330	93.8609	-870	QW	1.9	0	6.3	1	1.1	0	0.298	-1	1.745	0	5.862	1	1534	50	1.3
42953.6	10000	41.8335	93.8609	-871	QW	1.9	0	6.2	1	1.1	0	0.310	-1	1.777	0	5.726	1	1554	41	1.3
42953.5	10000	41.8341	93.8609	-872	QW	1.9	0	5.8	0	1.1	0	0.322	-1	1.720	0	5.345	0	1563	50	1.3
42953.4	10000	41.8346	93.8609	-872	QW	2.1	0	5.7	0	1.1	1	0.359	0	1.835	0	5.116	0	1579	42	1.3
42953.3	10000	41.8352	93.8610	-873	QW	2.0	0	5.4	0	1.2	1	0.365	0	1.725	0	4.728	-1	1571	51	1.3
42953.2	10000	41.8357	93.8610	-872	QW	1.9	0	5.2	0	1.2	1	0.362	0	1.564	-1	4.317	-1	1563	43	1.3
42953.1	10000	41.8362	93.8610	-873	QW	1.9	0	5.1	-1	1.2	1	0.378	0	1.640	-1	4.345	-1	1553	52	1.3
42953.0	10000	41.8368	93.8610	-873	QW	2.1	0	5.0	-1	1.2	1	0.415	0	1.727	0	4.158	-2	1557	51	1.3
42952.9	10000	41.8373	93.8610	-874	QW	2.0	0	4.9	-1	1.2	2	0.401	0	1.592	-1	3.965	-2	1544	58	1.3
42952.8	10000	41.8379	93.8610	-875	QW	2.1	0	4.8	-1	1.2	2	0.431	1	1.692	0	3.928	-2	1539	42	1.3
42952.7	10000	41.8384	93.8610	-875	QW	2.1	0	4.8	-1	1.2	1	0.431	1	1.745	0	4.046	-2	1526	36	1.3
42952.6	10000	41.8390	93.8610	-876	QW	2.1	0	5.0	-1	1.1	1	0.430	1	1.898	0	4.413	-1	1527	35	1.3
42952.5	10000	41.8395	93.8610	-876	QW	2.0	0	5.1	-1	1.1	1	0.399	0	1.829	0	4.585	-1	1527	57	1.3
42952.4	10000	41.8401	93.8610	-877	QW	2.0	0	5.5	0	1.1	1	0.353	0	1.725	0	4.892	0	1531	44	1.3
42952.3	10000	41.8406	93.8611	-877	QW	1.9	0	5.7	0	1.1	0	0.328	0	1.727	0	5.263	0	1526	43	1.3
42952.2	10000	41.8412	93.8611	-877	QW	2.0	0	5.7	0	1.0	0	0.350	0	1.917	0	5.479	0	1528	50	1.3
42952.1	10000	41.8417	93.8611	-878	QW	1.9	0	5.9	1	1.1	0	0.315	-1	1.737	0	5.517	1	1530	44	1.3
42952.0	10000	41.8422	93.8611	-878	QW	1.6	-1	6.3	1	1.1	0	0.253	-1	1.479	-1	5.842	1	1537	48	1.3
42951.9	10000	41.8428	93.8611	-878	QW	1.5	-1	6.4	1	1.1	0	0.234	-1	1.347	-1	5.755	1	1529	59	1.3
42951.8	10000	41.8433	93.8611	-879	QW	1.7	-1	6.3	1	1.1	0	0.263	-1	1.499	-1	5.694	1	1534	53	1.3
42951.7	10000	41.8439	93.8611	-880	QW	1.7	-1	5.8	1	1.1	0	0.295	-1	1.618	-1	5.478	0	1508	40	1.3
42951.6	10000	41.8444	93.8611	-881	QW	1.9	0	5.6	1	1.1	0	0.334	0	1.720	0	5.145	0	1491	57	1.3
42951.5	10000	41.8450	93.8611	-883	QW	1.9	0	5.6	1	1.1	0	0.342	0	1.785	0	5.220	0	1469	46	1.3
42951.4	10000	41.8455	93.8611	-884	QW	1.9	0	5.5	0	1.0	-1	0.342	0	1.865	0	5.460	0	1440	52	1.3
42951.3	10000	41.8461	93.8611	-885	QW	2.0	0	5.0	-1	1.0	-1	0.390	-1	1.992	0	5.101	0	1419	47	1.3
42951.2	10000	41.8466	93.8611	-887	QW	2.0	0	5.0	-1	1.0	-1	0.402	-1	2.062	0	5.125	0	1402	57	1.3
42951.1	10000	41.8472	93.8612	-887	QW	2.0	0	4.9	-1	1.0	-1	0.401	-1	2.051	0	5.115	0	1394	39	1.3
42951.0	10000	41.8477	93.8612	-887	QW	2.0	0	5.0	-1	1.0	-1	0.399	-1	1.973	0	4.951	0	1420	42	1.3
42950.9	10000	41.8483	93.8612	-887	QW	1.9	0	5.0	-1	1.0	-1	0.374	-1	1.887	0	5.050	0	1440	39	1.3
42950.8	10000	41.8488	93.8612	-886	QW	1.8	0	5.2	0	1.0	0	0.353	0	1.797	0	5.084	0	1472	47	1.3
42950.7	10000	41.8493	93.8612	-887	QW	1.9	0	5.2	0	1.0	0	0.369	0	1.860	0	5.039	0	1498	48	1.3
42950.6	10000	41.8499	93.8612	-888	QW	2.1	0	5.5	0	1.1	0	0.390	0	2.022	0	5.187	0	1525	48	1.3
42950.5	10000	41.8504	93.8612	-888	QW	2.4	1	5.5	0	1.0	1	0.433	1	2.298	1	5.309	1	1552	63	1.2
42950.4	10000	41.8510	93.8612	-889	QW	2.5	1	5.4	0	1.0	1	0.467	1	2.415	1	5.169	1	1564	54	1.2
42950.3	10000	41.8515	93.8612	-889	QW	2.8	2	5.7	1	1.1	1	0.487	1	2.625	2	5.390	2	1575	49	1.2
42950.2	10000	41.8521	93.8612	-889	QW	3.0	2	5.7	1	1.1	2	0.516	2	2.763	2	5.349	2	1583	45	1.2
42950.1	10000	41.8526	93.8613	-890	QW	3.1	2	5.6	1	1.1	2	0.543	2	2.837	2	5.225	2	1584	32	1.2
42950.0	10000	41.8532	93.8613	-890	QW	3.0	2	5.5	1	1.1	2	0.575	2	2.725	2	4.742	2	1583	52	1.2
42949.9	10000	41.8537	93.8613	-891	QW	3.1	2	5.5	1	1.1	2	0.601	2	2.784	2	4.630	2	1573	62	1.2
42949.8	10000	41.8542	93.8613	-892	QAL	2.8	1	5.1	0	1.1	1	0.549	2	2.492	2	4.538	2	1545	40	1.2
42949.7	10000	41.8548	93.8613	-893	QAL	2.7	1	5.0	-1	1.1	1	0.534	2	2.363	2	4.427	2	1523	32	1.2
42949.6	10000	41.8553	93.8613	-893	QAL	2.5	1	4.4	-2	1.1	1	0.569	2	2.317	2	4.070	3	1488	51	1.2
42949.5	10000	41.8559	93.8613	-893	QAL	2.4	1	4.4	-2	1.1	1	0.542	2	2.255	2	4.161	3	1455	50	1.2
42949.4	10000	41.8564	93.8613	-893	QAL	2.2	1	4.2	-2	1.1	1	0.529	2	2.164	2	4.087	3	1418	48	1.2
42949.3	10000	41.8570	93.8613	-894	QAL	2.3	1	4.3	-2	1.1	1	0.531	2	2.346	2	4.420	2	1389	48	1.2
42949.2	10000	41.8575	93.8613	-894	QAL	2.1	-1	4.3	-2	0.9	-1	0.495	1	2.268	0	4.585	-2	1356	56	1.2

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42949.1	10000	41.8581	93.8613	-894	QAL	2.1	-1	4.0	-3	0.9	-1	0.515	2	2.209	0	4.289	-2	1353	54	1.2
42949.0	10000	41.8586	93.8614	-894	QAL	2.0	-1	4.3	-2	0.9	-1	0.457	1	2.172	0	4.757	-2	1343	40	1.2
42948.9	10000	41.8592	93.8614	-894	QAL	2.1	-1	4.6	-2	0.9	-1	0.466	1	2.332	0	5.007	-1	1330	40	1.2
42948.8	10000	41.8597	93.8614	-894	QAL	1.8	-1	4.3	-2	0.9	-1	0.417	0	2.011	-1	4.821	-2	1331	38	1.2
42948.7	10000	41.8602	93.8614	-894	QAL	1.9	-1	4.5	-2	0.9	-1	0.423	0	2.070	0	4.894	-2	1346	41	1.2
42948.6	10000	41.8608	93.8614	-896	QAL	1.8	-1	4.7	-2	0.9	-1	0.384	0	1.901	-1	4.945	-2	1363	42	1.2
42948.5	10000	41.8613	93.8614	-897	QAL	1.7	-1	4.7	-2	1.0	-1	0.362	0	1.730	-1	4.775	-2	1385	42	1.2
42948.4	10000	41.8619	93.8614	-898	QAL	1.6	-1	5.1	-1	1.0	-1	0.324	-1	1.697	-1	5.237	-1	1395	48	1.2
42948.3	10000	41.8624	93.8614	-899	QW	1.6	-1	5.1	-1	1.0	-1	0.313	-1	1.617	-1	5.167	0	1416	39	1.2
42948.2	10000	41.8630	93.8614	-899	QW	1.3	-2	5.2	0	1.0	-1	0.248	-1	1.296	-1	5.214	0	1447	50	1.2
42948.1	10000	41.8635	93.8614	-899	QW	1.6	-1	5.4	0	1.0	0	0.292	-1	1.545	-1	5.283	0	1460	56	1.2
42948.0	10000	41.8641	93.8615	-900	QW	1.4	-1	5.4	0	1.0	0	0.254	-1	1.329	-1	5.231	0	1453	48	1.2
42947.9	10000	41.8646	93.8615	-900	QW	1.5	-1	5.4	0	1.0	-1	0.278	-1	1.495	-1	5.382	0	1435	42	1.2
42947.8	10000	41.8652	93.8615	-901	QW	1.4	-2	5.3	0	1.0	-1	0.254	-1	1.414	-1	5.561	1	1384	51	1.2
42947.7	10000	41.8657	93.8615	-902	QW	1.5	-1	4.8	-1	0.9	-1	0.308	-1	1.632	-1	5.305	0	1328	43	1.2
42947.6	10000	41.8662	93.8615	-904	QW	1.6	-1	4.3	-2	0.8	-2	0.365	0	1.867	0	5.121	0	1276	34	1.2
42947.5	10000	41.8668	93.8615	-905	QW	1.8	0	4.3	-2	0.8	-3	0.418	1	2.280	1	5.455	0	1238	46	1.2
42947.4	10000	41.8673	93.8615	-906	QW	1.7	-1	4.1	-2	0.8	-3	0.418	1	2.187	1	5.231	0	1213	36	1.2
42947.3	10000	41.8679	93.8615	-900	QW	1.8	0	4.1	-2	0.8	-3	0.441	1	2.360	1	5.351	0	1197	44	1.2
42947.2	10000	41.8684	93.8615	-875	QW	1.7	-1	3.9	-2	0.8	-3	0.438	1	2.214	1	5.051	0	1187	47	1.2
42947.1	10000	41.8689	93.8615	-801	QW	1.8	0	3.8	-2	0.8	-3	0.477	1	2.266	1	4.753	-1	1202	43	1.2
42947.0	10000	41.8695	93.8615	-678	QW	1.8	-1	4.0	-2	0.8	-2	0.438	1	2.095	0	4.786	-1	1230	34	1.2
42946.9	10000	41.8700	93.8615	-741	QW	1.9	0	4.4	-2	0.9	-2	0.424	1	2.179	1	5.135	0	1237	34	1.2
42946.8	10000	41.8705	93.8615	-902	QW	1.9	0	4.2	-2	0.9	-2	0.447	1	2.158	1	4.824	-1	1215	45	1.2
42946.7	10000	41.8711	93.8614	-945	QW	1.9	0	4.4	-2	0.8	-2	0.426	1	2.254	1	5.291	0	1189	38	1.2
42946.6	10000	41.8716	93.8614	-939	QW	1.9	0	4.1	-2	0.8	-3	0.468	1	2.553	1	5.451	0	1156	43	1.2
42946.5	10000	41.8721	93.8614	-926	QW	2.1	0	4.0	-2	0.7	-3	0.521	2	2.929	1	5.618	1	1126	43	1.2
42946.4	10000	41.8727	93.8614	-909	QW	2.2	0	3.9	-2	0.7	-4	0.556	2	3.141	1	5.648	1	1108	42	1.2
42946.3	10000	41.8732	93.8614	-880	QW	2.1	0	3.8	-2	0.6	-4	0.540	2	3.202	1	5.930	1	1080	47	1.2
42946.2	10000	41.8738	93.8614	-854	QW	2.0	0	3.8	-2	0.7	-4	0.522	2	2.881	1	5.516	1	1084	36	1.2
42946.1	10000	41.8743	93.8614	-873	QW	1.8	0	3.9	-2	0.7	-4	0.469	2	2.804	1	5.984	1	1098	47	1.2
42946.0	10000	41.8748	93.8614	-899	QW	1.7	-1	4.1	-2	0.7	-4	0.415	1	2.594	2	6.252	1	1124	54	1.2
42945.9	10000	41.8754	93.8614	-909	QW	1.4	-1	4.2	-2	0.7	-4	0.342	1	2.096	2	6.131	1	1141	40	1.2
42945.8	10000	41.8759	93.8614	-907	QW	1.4	-1	4.2	-2	0.7	-3	0.327	0	1.972	1	6.028	1	1160	44	1.2
42945.7	10000	41.8764	93.8613	-903	QW	1.2	-2	4.2	-2	0.7	-3	0.290	-1	1.691	1	5.826	1	1161	33	1.2
42945.6	10000	41.8770	93.8613	-899	QW	1.2	-2	4.2	-2	0.8	-3	0.291	-1	1.577	0	5.424	1	1161	38	1.2
42945.5	10000	41.8775	93.8613	-896	QW	1.2	-2	4.2	-2	0.7	-3	0.280	-1	1.616	-1	5.760	1	1147	37	1.2
42945.4	10000	41.8780	93.8613	-895	QW	1.1	-2	4.1	-2	0.7	-3	0.265	-1	1.456	-1	5.501	1	1136	35	1.2
42945.3	10000	41.8786	93.8613	-893	QW	1.1	-2	4.1	-2	0.8	-3	0.266	-1	1.430	-1	5.372	1	1133	46	1.2
42945.2	10000	41.8791	93.8613	-891	QW	1.2	-2	4.3	-2	0.8	-2	0.276	-1	1.459	-1	5.285	0	1161	49	1.2
42945.1	10000	41.8796	93.8613	-890	QW	0.9	-3	4.6	-1	0.9	-2	0.187	-2	0.968	-2	5.183	0	1170	40	1.2
42945.0	10000	41.8802	93.8613	-888	QW	0.9	-3	4.8	-1	0.9	-2	0.191	-2	1.049	-2	5.478	0	1197	49	1.2
42944.9	10000	41.8807	93.8613	-886	QW	1.1	-2	5.0	-1	0.9	-2	0.221	-2	1.249	-1	5.653	1	1225	37	1.2
42944.8	10000	41.8812	93.8613	-884	QW	1.3	-2	4.8	-1	0.9	-2	0.269	-1	1.428	-1	5.312	0	1250	43	1.2
42944.7	10000	41.8818	93.8613	-883	QW	1.3	-2	4.6	-1	0.9	-2	0.291	-1	1.511	-1	5.188	0	1243	47	1.2
42944.6	10000	41.8823	93.8613	-880	QW	1.6	-1	4.3	-2	0.8	-2	0.377	0	1.945	0	5.166	0	1218	47	1.2
42944.5	10000	41.8828	93.8612	-879	QW	1.8	0	3.9	-2	0.8	-2	0.467	1	2.217	1	4.749	-1	1187	54	1.2
42944.4	10000	41.8834	93.8612	-876	QAL	2.1	-1	4.1	-2	0.8	-2	0.513	2	2.644	1	5.156	-1	1211	33	1.2
42944.3	10000	41.8839	93.8612	-874	QAL	2.3	0	3.9	-2	0.8	-2	0.597	2	2.976	1	4.984	-1	1233	32	1.2
42944.2	10000	41.8845	93.8612	-871	QAL	2.1	-1	4.0	-2	0.8	-2	0.526	2	2.698	1	5.130	-1	1262	45	1.2
42944.1	10000	41.8850	93.8612	-869	QAL	2.0	-1	4.4	-2	0.8	-2	0.454	1	2.500	1	5.502	-1	1293	43	1.2
42944.0	10000	41.8855	93.8612	-867	QAL	2.1	-1	4.7	-2	0.9	-1	0.448	1	2.428	0	5.425	-1	1348	37	1.3

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42943.9	10000	41.8860	93.8612	-865	QAL	2.1	-1	4.8	-2	0.9	-1	0.438	1	2.289	0	5.230	-1	1399	45	1.3
42943.8	10000	41.8866	93.8612	-862	QAL	2.0	-1	5.1	-1	1.0	-1	0.388	0	2.063	0	5.321	-1	1453	33	1.3
42943.7	10000	41.8871	93.8612	-860	QAL	1.9	-1	5.2	-1	1.0	-1	0.365	0	1.908	-1	5.234	-1	1480	47	1.3
42943.6	10000	41.8877	93.8612	-857	QAL	1.7	-1	5.0	-1	1.1	0	0.347	0	1.660	-1	4.782	-2	1482	36	1.3
42943.5	10000	41.8882	93.8611	-855	QAL	1.9	-1	5.0	-1	1.1	0	0.376	0	1.770	-1	4.707	-2	1469	41	1.3
42943.4	10000	41.8887	93.8611	-853	QAL	1.9	-1	4.7	-2	1.1	0	0.406	0	1.710	-1	4.272	-2	1458	50	1.3
42943.3	10000	41.8893	93.8611	-851	QAL	1.8	-1	4.9	-2	1.1	0	0.367	0	1.593	-1	4.338	-2	1460	42	1.3
42943.2	10000	41.8898	93.8611	-849	QAL	1.6	-2	5.0	-1	1.2	1	0.310	-1	1.279	-2	4.128	-3	1481	40	1.3
42943.1	10000	41.8903	93.8611	-847	QAL	1.5	-2	5.0	-2	1.2	1	0.305	-1	1.256	-2	4.125	-3	1479	48	1.3
42943.0	10000	41.8909	93.8611	-845	QAL	1.4	-2	4.9	-2	1.2	1	0.283	-1	1.165	-2	4.117	-3	1469	55	1.3
42942.9	10000	41.8914	93.8611	-843	QAL	1.4	-2	5.2	-1	1.2	1	0.270	-1	1.194	-2	4.419	-2	1480	45	1.4
42942.8	10000	41.8919	93.8611	-841	QAL	1.6	-2	5.1	-1	1.1	0	0.312	-1	1.410	-2	4.517	-2	1504	44	1.4
42942.7	10000	41.8925	93.8611	-839	QAL	1.7	-1	5.3	-1	1.1	0	0.327	-1	1.538	-1	4.707	-2	1508	40	1.4
42942.6	10000	41.8930	93.8611	-836	QAL	1.7	-1	5.2	-1	1.0	0	0.334	-1	1.650	-1	4.934	-2	1510	37	1.4
42942.5	10000	41.8935	93.8611	-833	QAL	1.8	-1	5.0	-1	1.0	0	0.353	0	1.751	-1	4.953	-1	1510	47	1.4
42942.4	10000	41.8941	93.8611	-829	QAL	1.9	-1	5.1	-1	1.0	-1	0.372	0	1.907	-1	5.122	-1	1507	45	1.4
42942.3	10000	41.8946	93.8610	-826	QAL	2.2	0	5.0	-2	1.0	0	0.445	1	2.182	0	4.907	-2	1514	44	1.4
42942.2	10000	41.8952	93.8610	-822	QAL	2.2	0	5.1	-1	1.0	0	0.438	1	2.192	0	5.004	-1	1513	48	1.4
42942.1	10000	41.8957	93.8610	-819	QAL	2.1	-1	4.8	-2	1.0	0	0.444	1	2.020	-1	4.546	-2	1500	48	1.4
42942.0	10000	41.8962	93.8610	-815	QAL	1.9	-1	4.6	-2	1.0	0	0.415	0	1.851	-1	4.459	-2	1503	47	1.4
42941.9	10000	41.8968	93.8610	-811	QAL	1.9	-1	4.6	-2	1.1	0	0.420	0	1.819	-1	4.329	-2	1497	47	1.4
42941.8	10000	41.8973	93.8610	-807	QAL	2.1	-1	4.5	-2	1.0	0	0.465	1	2.041	0	4.391	-2	1487	37	1.4
42941.7	10000	41.8978	93.8610	-803	QAL	2.2	0	4.6	-2	1.0	0	0.475	1	2.112	0	4.443	-2	1488	46	1.4
42941.6	10000	41.8984	93.8610	-799	QAL	2.1	-1	4.7	-2	1.0	0	0.453	1	2.086	0	4.607	-2	1485	39	1.4
42941.5	10000	41.8989	93.8610	-795	QAL	2.1	-1	4.7	-2	1.0	0	0.446	1	2.020	-1	4.527	-2	1491	51	1.4
42941.4	10000	41.8994	93.8610	-791	QAL	2.0	-1	4.9	-2	1.0	0	0.414	1	1.967	-1	4.757	-2	1502	42	1.4
42941.3	10000	41.9000	93.8609	-788	QAL	2.0	0	5.2	0	1.1	0	0.389	0	1.915	0	4.927	-2	1508	40	1.4
42941.2	10000	41.9005	93.8609	-784	QAL	2.1	0	5.4	0	1.1	0	0.383	0	1.941	0	5.069	-2	1523	37	1.4
42941.1	10000	41.9010	93.8609	-780	QAL	2.0	0	5.7	0	1.1	0	0.343	0	1.856	0	5.409	-2	1539	47	1.5
42941.0	10000	41.9016	93.8609	-776	QAL	2.0	0	5.6	0	1.0	0	0.351	0	1.901	0	5.420	-1	1550	43	1.5
42940.9	10000	41.9021	93.8609	-770	QAL	2.0	0	5.6	0	1.0	0	0.348	0	1.930	0	5.543	-1	1552	30	1.5
42940.8	10000	41.9026	93.8609	-765	QAL	1.9	0	5.7	0	1.0	0	0.335	0	1.987	0	5.928	-1	1530	45	1.5
42940.7	10000	41.9032	93.8609	-760	QAL	1.9	0	5.6	0	0.9	-1	0.345	0	2.107	0	6.106	-1	1488	36	1.5
42940.6	10000	41.9037	93.8609	-755	QAL	2.1	0	5.4	0	0.9	-2	0.386	1	2.388	1	6.195	-2	1450	41	1.5
42940.5	10000	41.9042	93.8609	-748	QAL	2.0	-1	4.8	-2	0.8	-2	0.427	1	2.526	1	5.921	-1	1398	31	1.5
42940.4	10000	41.9048	93.8609	-743	QAL	2.1	-1	4.4	-3	0.8	-3	0.480	2	2.683	1	5.586	-1	1348	48	1.5
42940.3	10000	41.9053	93.8609	-736	QAL	1.9	-2	4.3	-3	0.7	-3	0.438	1	2.543	1	5.810	-1	1311	60	1.5
42940.2	10000	41.9058	93.8608	-730	QAL	1.9	-2	4.3	-3	0.7	-3	0.512	2	2.611	1	5.097	0	1289	38	1.5
42940.1	10000	41.9064	93.8608	-724	QAL	1.9	-2	4.3	-3	0.8	-3	0.540	2	2.459	1	4.551	-1	1286	36	1.5
42940.0	10000	41.9069	93.8608	-718	QAL	1.9	-2	4.3	-3	0.8	-3	0.480	1	2.344	1	4.887	0	1320	50	1.5
42939.9	10000	41.9074	93.8608	-712	QAL	1.8	-2	4.3	-3	0.8	-2	0.428	1	2.232	1	5.210	0	1344	42	1.5
42939.8	10000	41.9080	93.8608	-706	QAL	1.8	-1	4.3	-2	0.9	-2	0.363	0	2.076	0	5.714	0	1375	37	1.5
42939.7	10000	41.9085	93.8608	-699	QAL	1.7	-1	4.5	-2	0.9	-1	0.339	0	1.812	0	5.338	0	1400	55	1.5
42939.6	10000	41.9091	93.8608	-692	QAL	1.6	-1	4.5	-2	1.0	-1	0.321	-1	1.608	-1	5.010	0	1404	44	1.5
42939.5	10000	41.9096	93.8608	-685	QAL	1.6	-1	4.5	-2	1.0	-1	0.291	-1	1.605	-1	5.513	1	1412	55	1.5
42939.4	10000	41.9101	93.8608	-678	QAL	1.7	-1	4.5	-2	1.0	-1	0.296	-1	1.724	-1	5.830	1	1425	57	1.5
42939.3	10000	41.9107	93.8608	-671	QAL	1.7	-1	4.5	-2	1.0	-1	0.303	-1	1.789	-1	5.911	1	1415	56	1.5
42939.2	10000	41.9112	93.8607	-664	QAL	1.6	-1	4.5	-2	1.0	-1	0.275	-1	1.684	-1	6.134	2	1425	49	1.5
42939.1	10000	41.9117	93.8607	-656	QAL	1.6	-1	4.5	-2	1.0	-1	0.292	-1	1.708	-1	5.854	1	1434	58	1.5
42939.0	10000	41.9123	93.8607	-649	QAL	1.5	-1	4.4	-2	0.9	-1	0.280	-1	1.630	-1	5.815	1	1443	50	1.5
42938.9	10000	41.9128	93.8607	-641	QAL	1.6	-1	4.5	-2	0.9	-1	0.281	-1	1.786	-1	6.361	2	1451	39	1.5
42938.8	10000	41.9133	93.8607	-633	QAL	1.6	-1	5.9	1	0.9	-2	0.278	-1	1.864	0	6.696	2	1448	42	1.5

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42938.7	10000	41.9139	93.8607	-626	QW	1.7	-1	5.8	1	0.9	-2	0.295	-1	2.004	0	6.784	3	1436	48	1.5
42938.6	10000	41.9144	93.8607	-618	QW	1.8	0	5.9	1	0.9	-1	0.305	-1	1.950	0	6.403	2	1440	38	1.5
42938.5	10000	41.9149	93.8607	-609	QW	1.9	0	5.5	0	0.9	-2	0.337	0	2.065	0	6.129	2	1430	52	1.5
42938.4	10000	41.9155	93.8607	-602	QW	1.9	0	5.7	0	0.9	-1	0.332	0	2.112	0	6.355	2	1429	58	1.5
42938.3	10000	41.9160	93.8607	-593	QW	2.0	0	5.8	1	0.8	-2	0.336	0	2.308	1	6.871	3	1426	50	1.5
42938.2	10000	41.9165	93.8607	-585	QW	2.0	0	5.6	0	0.9	-2	0.353	0	2.304	1	6.522	2	1425	47	1.5
42938.1	10000	41.9171	93.8607	-577	QW	1.8	0	5.3	0	0.9	-1	0.338	0	1.967	0	5.814	1	1427	63	1.5
42938.0	10000	41.9176	93.8606	-569	QW	1.6	-1	5.3	0	0.9	-1	0.301	-1	1.728	0	5.743	1	1416	49	1.5
42937.9	10000	41.9181	93.8606	-562	QW	1.5	-1	5.1	-1	0.9	-1	0.302	-1	1.660	-1	5.493	0	1397	49	1.5
42937.8	10000	41.9187	93.8606	-554	QW	1.6	-1	5.0	-1	0.9	-2	0.323	-1	1.824	0	5.652	1	1386	41	1.5
42937.7	10000	41.9192	93.8606	-547	QW	1.5	-1	4.6	-1	0.9	-1	0.333	0	1.700	0	5.112	0	1378	50	1.5
42937.6	10000	41.9198	93.8606	-540	QW	1.7	-1	4.5	-1	0.9	-1	0.380	0	1.882	0	4.948	0	1349	46	1.5
42937.5	10000	41.9203	93.8606	-533	QW	1.8	-1	4.4	-2	0.9	-2	0.402	0	1.998	0	4.967	0	1334	51	1.5
42937.4	10000	41.9208	93.8606	-527	QW	1.6	-1	4.1	-2	0.8	-2	0.385	0	1.889	0	4.907	0	1321	46	1.5
42937.3	10000	41.9214	93.8606	-522	QW	1.7	-1	4.0	-2	0.8	-2	0.422	1	2.042	0	4.840	-1	1317	46	1.5
42937.2	10000	41.9219	93.8606	-517	QW	1.6	-1	4.2	-2	0.8	-2	0.370	0	1.862	0	5.031	0	1320	46	1.5
42937.1	10000	41.9224	93.8606	-512	QW	1.6	-1	4.3	-2	0.9	-2	0.373	0	1.844	0	4.940	0	1337	53	1.5
42937.0	10000	41.9230	93.8605	-508	QW	1.7	-1	4.3	-2	0.9	-2	0.397	0	1.933	0	4.873	-1	1340	40	1.5
42936.9	10000	41.9235	93.8605	-504	QW	1.7	-1	4.4	-1	0.9	-2	0.381	0	1.918	0	5.031	0	1366	50	1.5
42936.8	10000	41.9240	93.8605	-500	QW	1.7	-1	4.6	-1	0.9	-2	0.360	0	1.862	0	5.175	0	1381	49	1.5
42936.7	10000	41.9246	93.8605	-498	QW	2.0	0	4.6	-1	0.9	-1	0.436	1	2.150	1	4.929	0	1402	49	1.5
42936.6	10000	41.9251	93.8605	-496	QW	2.1	0	4.5	-1	1.0	-1	0.468	1	2.177	1	4.650	-1	1421	41	1.5
42936.5	10000	41.9256	93.8605	-495	QW	2.5	1	4.5	-1	1.0	-1	0.544	2	2.561	1	4.708	-1	1440	53	1.5
42936.4	10000	41.9262	93.8605	-493	QW	2.2	1	4.6	-1	1.0	0	0.488	1	2.186	1	4.481	-1	1441	54	1.5
42936.3	10000	41.9267	93.8605	-493	QW	2.2	0	4.9	-1	1.0	0	0.446	1	2.092	0	4.693	-1	1453	48	1.5
42936.2	10000	41.9272	93.8605	-492	QW	2.2	0	5.0	-1	1.1	0	0.429	1	2.023	0	4.715	-1	1448	35	1.5
42936.1	10000	41.9278	93.8605	-492	QW	2.0	0	4.8	-1	1.1	0	0.408	0	1.826	0	4.479	-1	1465	40	1.5
42936.0	10000	41.9283	93.8605	-492	QW	2.0	0	4.9	-1	1.1	0	0.414	0	1.859	0	4.491	-1	1478	41	1.5
42935.9	10000	41.9288	93.8605	-493	QW	2.0	0	5.0	-1	1.1	1	0.401	0	1.810	0	4.519	-1	1490	49	1.5
42935.8	10000	41.9294	93.8604	-494	QW	1.8	0	4.6	-1	1.1	1	0.387	0	1.589	-1	4.106	-2	1494	49	1.5
42935.7	10000	41.9299	93.8604	-495	QW	2.0	0	4.3	-2	1.1	1	0.460	1	1.799	0	3.907	-2	1490	53	1.5
42935.6	10000	41.9304	93.8604	-495	QW	1.9	0	4.0	-2	1.1	1	0.489	1	1.797	0	3.677	-2	1485	49	1.5
42935.5	10000	41.9310	93.8604	-496	QW	1.9	0	3.9	-2	1.1	1	0.490	1	1.752	0	3.579	-3	1483	50	1.5
42935.4	10000	41.9315	93.8604	-497	QW	2.0	0	3.7	-3	1.1	1	0.555	2	1.834	0	3.303	-3	1480	40	1.5
42935.3	10000	41.9320	93.8604	-497	QW	1.8	0	3.9	-2	1.1	1	0.467	1	1.680	0	3.595	-3	1468	51	1.5
42935.2	10000	41.9326	93.8604	-496	QW	1.8	0	3.8	-2	1.1	1	0.486	1	1.718	0	3.535	-3	1451	54	1.5
42935.1	10000	41.9331	93.8604	-496	QW	2.0	0	4.2	-2	1.1	1	0.468	1	1.839	0	3.933	-2	1444	36	1.5
42935.0	10000	41.9337	93.8604	-495	QW	2.0	0	4.3	-2	1.0	1	0.469	1	1.924	0	4.098	-2	1450	45	1.5
42934.9	10000	41.9342	93.8604	-493	QW	2.1	0	4.5	-1	1.0	1	0.474	1	2.127	0	4.488	-1	1465	44	1.5
42934.8	10000	41.9347	93.8604	-490	QW	2.2	1	4.6	-1	1.0	1	0.482	1	2.137	0	4.430	-1	1497	40	1.5
42934.7	10000	41.9352	93.8603	-487	QW	2.0	0	4.9	-1	1.0	0	0.409	1	1.965	0	4.807	-1	1512	39	1.5
42934.6	10000	41.9358	93.8603	-483	QW	2.1	0	5.1	-1	1.1	0	0.420	1	2.007	0	4.775	-1	1531	39	1.5
42934.5	10000	41.9363	93.8603	-479	QW	2.0	0	5.4	0	1.1	0	0.373	0	1.832	0	4.905	0	1561	42	1.5
42934.4	10000	41.9369	93.8603	-473	QW	1.8	0	5.6	0	1.1	0	0.326	0	1.623	-1	4.982	0	1589	46	1.5
42934.3	10000	41.9374	93.8603	-468	QW	1.7	-1	5.8	0	1.2	-1	0.296	-1	1.469	-1	4.969	0	1607	48	1.5
42934.2	10000	41.9379	93.8603	-461	QW	1.8	-1	6.1	1	1.2	-1	0.288	-1	1.436	-1	4.991	0	1617	35	1.5
42934.1	10000	41.9385	93.8603	-454	QW	1.6	-1	6.3	1	1.2	-1	0.262	-1	1.368	-1	5.227	0	1614	54	1.5
42934.0	10000	41.9390	93.8603	-445	QW	1.7	-1	6.2	1	1.2	-1	0.274	-1	1.419	-1	5.177	0	1611	42	1.5
42933.9	10000	41.9395	93.8603	-438	QW	1.7	-1	6.1	1	1.2	-1	0.280	-1	1.391	-1	4.974	0	1610	40	1.5
42933.8	10000	41.9401	93.8603	-431	QW	1.9	0	6.0	1	1.2	-1	0.312	-1	1.531	-1	4.902	0	1600	45	1.5
42933.7	10000	41.9406	93.8603	-424	QW	2.0	0	5.7	0	1.2	-1	0.347	0	1.660	-1	4.786	-1	1586	44	1.5
42933.6	10000	41.9411	93.8602	-418	QW	2.0	0	5.4	0	1.2	1	0.379	0	1.735	0	4.575	-1	1573	61	1.5

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42933.5	10000	41.9417	93.8602	-411	QW	1.9	0	4.6	-1	1.1	1	0.420	1	1.698	0	4.039	-2	1560	51	1.5
42933.4	10000	41.9422	93.8602	-404	QW	1.8	0	4.6	-1	1.1	1	0.399	0	1.621	-1	4.061	-2	1546	52	1.5
42933.3	10000	41.9427	93.8602	-397	QW	2.1	0	4.6	-1	1.2	1	0.456	1	1.767	0	3.878	-2	1565	45	1.5
42933.2	10000	41.9433	93.8602	-391	QW	2.0	0	5.0	-1	1.2	2	0.411	0	1.693	0	4.116	-2	1565	46	1.5
42933.1	10000	41.9438	93.8602	-385	QW	2.0	0	5.0	-1	1.2	1	0.399	0	1.705	0	4.274	-1	1574	40	1.5
42933.0	10000	41.9444	93.8602	-380	QW	2.0	0	5.1	-1	1.2	1	0.395	0	1.741	0	4.411	-1	1584	47	1.5
42932.9	10000	41.9449	93.8602	-375	QW	2.1	0	5.3	0	1.2	1	0.401	0	1.798	0	4.481	-1	1601	40	1.5
42932.8	10000	41.9454	93.8602	-371	QW	2.2	1	5.6	0	1.2	1	0.401	0	1.884	0	4.695	-1	1612	39	1.5
42932.7	10000	41.9460	93.8602	-367	QW	2.3	1	5.6	0	1.2	2	0.406	0	1.853	0	4.560	-1	1628	51	1.5
42932.6	10000	41.9465	93.8602	-364	QW	2.0	0	5.3	0	1.2	2	0.381	0	1.689	0	4.428	-1	1610	37	1.5
42932.5	10000	41.9470	93.8601	-362	QW	2.1	0	5.1	0	1.2	1	0.412	0	1.765	0	4.289	-1	1613	39	1.5
42932.4	10000	41.9476	93.8601	-360	QW	1.9	0	5.2	0	1.2	2	0.369	0	1.570	-1	4.256	-2	1614	47	1.5
42932.3	10000	41.9481	93.8601	-358	QW	1.9	0	5.2	0	1.2	2	0.372	0	1.560	-1	4.194	-2	1623	36	1.5
42932.2	10000	41.9486	93.8601	-356	QW	1.7	-1	5.6	0	1.2	2	0.308	-1	1.385	-1	4.495	-1	1617	42	1.5
42932.1	10000	41.9492	93.8601	-356	QW	1.5	-1	5.8	0	1.3	2	0.258	-1	1.167	-2	4.532	-1	1616	45	1.5
42932.0	10000	41.9497	93.8601	-355	QW	1.5	-1	5.7	0	1.2	2	0.271	-1	1.259	-1	4.652	-1	1608	42	1.5
42931.9	10000	41.9502	93.8601	-354	QW	1.6	-1	6.1	1	1.2	1	0.259	-1	1.314	-1	5.066	0	1608	50	1.5
42931.8	10000	41.9508	93.8601	-354	QW	1.5	-1	6.1	1	1.2	1	0.251	-1	1.319	-1	5.263	0	1602	44	1.5
42931.7	10000	41.9513	93.8601	-355	QW	1.7	-1	6.2	1	1.2	1	0.265	-1	1.427	-1	5.382	0	1590	38	1.5
42931.6	10000	41.9519	93.8601	-356	QW	1.6	-1	6.0	1	1.1	1	0.261	-1	1.408	-1	5.396	0	1563	47	1.5
42931.5	10000	41.9524	93.8601	-357	QW	1.6	-1	5.8	0	1.1	1	0.277	-1	1.419	-1	5.116	0	1560	36	1.5
42931.4	10000	41.9529	93.8601	-358	QW	1.7	-1	5.6	0	1.1	0	0.309	-1	1.575	-1	5.097	0	1557	46	1.5
42931.3	10000	41.9535	93.8601	-360	QW	1.8	0	5.6	0	1.1	0	0.324	0	1.597	-1	4.936	0	1559	50	1.5
42931.2	10000	41.9540	93.8601	-362	QW	1.8	-1	5.4	0	1.1	0	0.329	0	1.612	-1	4.895	0	1554	46	1.5
42931.1	10000	41.9546	93.8601	-365	QW	1.6	-1	5.5	0	1.1	1	0.290	-1	1.389	-1	4.794	-1	1545	50	1.5
42931.0	10000	41.9551	93.8601	-369	QW	1.6	-1	5.6	0	1.1	1	0.283	-1	1.377	-1	4.867	-1	1553	54	1.5
42930.9	10000	41.9557	93.8601	-371	QW	1.5	-1	5.7	0	1.2	1	0.266	-1	1.303	-1	4.900	0	1574	57	1.5
42930.8	10000	41.9562	93.8602	-375	QW	1.6	-1	5.8	0	1.1	1	0.278	-1	1.420	-1	5.107	0	1568	43	1.5
42930.7	10000	41.9568	93.8602	-378	QW	1.6	-1	6.0	1	1.1	1	0.265	-1	1.439	-1	5.435	0	1563	45	1.5
42930.6	10000	41.9573	93.8602	-381	QW	1.5	-1	6.2	1	1.1	1	0.241	-1	1.397	-1	5.809	1	1550	48	1.5
42930.5	10000	41.9578	93.8602	-384	QW	1.6	-1	6.3	1	1.1	1	0.250	-1	1.428	-1	5.721	1	1550	62	1.5
42930.4	10000	41.9584	93.8602	-386	QW	1.8	0	6.2	1	1.1	1	0.288	-1	1.665	-1	5.777	1	1547	36	1.5
42930.3	10000	41.9589	93.8602	-389	QW	1.7	-1	5.9	0	1.1	1	0.291	-1	1.602	-1	5.510	1	1556	30	1.5
42930.2	10000	41.9595	93.8602	-391	QW	1.9	0	6.0	1	1.1	1	0.313	-1	1.669	0	5.322	0	1548	52	1.5
42930.1	10000	41.9600	93.8602	-392	QW	1.9	0	6.0	1	1.1	1	0.310	-1	1.683	0	5.422	0	1553	36	1.5
42930.0	10000	41.9606	93.8602	-397	QW	1.7	-1	5.9	1	1.2	1	0.290	-1	1.475	-1	5.084	0	1560	49	1.5
42929.9	10000	41.9611	93.8602	-402	QW	1.7	-1	5.7	0	1.2	1	0.303	-1	1.453	-1	4.797	-1	1569	55	1.5
42929.8	10000	41.9617	93.8602	-406	QW	1.7	-1	5.9	1	1.2	1	0.285	-1	1.384	-1	4.856	-1	1576	45	1.5
42929.7	10000	41.9622	93.8602	-410	QW	1.8	-1	5.7	0	1.2	1	0.308	-1	1.489	-1	4.840	-1	1582	48	1.5
42929.6	10000	41.9627	93.8602	-412	QW	1.7	-1	5.8	1	1.2	1	0.286	-1	1.423	-1	4.982	0	1566	57	1.5
42929.5	10000	41.9633	93.8602	-414	QW	1.5	-1	5.8	1	1.2	1	0.249	-1	1.217	-1	4.890	0	1556	44	1.5
42929.4	10000	41.9638	93.8602	-416	QW	1.2	-2	5.8	1	1.2	2	0.214	-2	1.026	-2	4.785	-1	1541	55	1.5
42929.3	10000	41.9644	93.8603	-418	QW	1.4	-1	5.7	1	1.2	1	0.249	-1	1.190	-2	4.776	-1	1529	40	1.5
42929.2	10000	41.9649	93.8603	-419	QW	1.7	-1	5.8	1	1.2	1	0.288	-1	1.461	-1	5.070	0	1533	50	1.5
42929.1	10000	41.9655	93.8603	-421	QW	1.7	-1	5.8	1	1.2	1	0.292	-1	1.467	-1	5.019	0	1522	51	1.5
42929.0	10000	41.9660	93.8603	-423	QW	1.6	-1	6.1	1	1.2	1	0.258	-1	1.321	-1	5.127	0	1528	46	1.5
42928.9	10000	41.9666	93.8603	-425	QW	1.6	-1	6.3	1	1.2	1	0.255	-1	1.359	-1	5.333	0	1531	51	1.5
42928.8	10000	41.9671	93.8603	-428	QW	1.9	0	6.7	2	1.2	1	0.286	-1	1.806	0	6.315	2	1546	32	1.5
42928.7	10000	41.9677	93.8603	-429	QW	2.1	0	6.4	2	1.1	1	0.322	-1	2.014	0	6.257	2	1554	40	1.5
42928.6	10000	41.9682	93.8603	-430	QW	2.0	0	6.7	2	1.1	1	0.294	-1	1.934	0	6.588	2	1556	48	1.5
42928.5	10000	41.9687	93.8603	-432	QW	1.8	-1	6.7	2	1.1	1	0.266	-1	1.694	0	6.375	2	1544	43	1.5
42928.4	10000	41.9693	93.8603	-433	QW	1.7	-1	6.7	2	1.1	0	0.251	-1	1.586	-1	6.312	2	1547	44	1.5

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42928.3	10000	41.9698	93.8603	-435	QW	1.6	-1	6.5	2	1.1	0	0.251	-1	1.519	-1	6.061	1	1548	49	1.5
42928.2	10000	41.9704	93.8603	-435	QW	1.8	0	6.2	1	1.1	1	0.294	-1	1.649	-1	5.614	1	1551	35	1.5
42928.1	10000	41.9709	93.8603	-436	QW	1.5	-1	6.1	1	1.2	1	0.247	-1	1.291	-1	5.229	0	1534	43	1.5
42928.0	10000	41.9715	93.8604	-435	QW	1.5	-1	6.5	1	1.2	1	0.240	-1	1.316	-1	5.488	0	1538	56	1.5
42927.9	10000	41.9720	93.8604	-435	QW	1.6	-1	6.4	1	1.2	1	0.253	-1	1.380	-1	5.463	0	1548	39	1.5
42927.8	10000	41.9725	93.8604	-435	QW	1.6	-1	5.9	1	1.2	1	0.269	-1	1.385	-1	5.148	0	1557	50	1.5
42927.7	10000	41.9731	93.8604	-436	QW	1.9	0	5.8	1	1.1	1	0.322	-1	1.670	0	5.179	0	1554	45	1.5
42927.6	10000	41.9736	93.8604	-436	QW	1.9	0	5.5	0	1.1	0	0.338	0	1.770	0	5.243	0	1526	38	1.5
42927.5	10000	41.9742	93.8604	-436	QW	1.9	0	5.6	0	1.0	0	0.334	0	1.795	0	5.365	0	1512	51	1.5
42927.4	10000	41.9747	93.8604	-435	QW	1.9	0	5.4	0	1.1	0	0.343	0	1.756	0	5.119	0	1521	36	1.5
42927.3	10000	41.9753	93.8604	-435	QW	1.7	-1	5.4	0	1.0	0	0.326	0	1.665	-1	5.115	0	1514	43	1.5
42927.2	10000	41.9758	93.8604	-434	QW	1.6	-1	5.5	0	1.1	0	0.295	-1	1.551	-1	5.262	0	1507	43	1.5
42927.1	10000	41.9764	93.8604	-433	QW	1.6	-1	5.8	0	1.1	0	0.280	-1	1.514	-1	5.415	0	1503	37	1.5
42927.0	10000	41.9769	93.8604	-432	QW	1.4	-1	5.9	1	1.1	0	0.235	-1	1.266	-1	5.385	0	1508	43	1.5
42926.9	10000	41.9774	93.8604	-431	QW	1.4	-1	6.2	1	1.2	1	0.228	-2	1.215	-1	5.336	0	1522	40	1.5
42926.8	10000	41.9780	93.8604	-431	QW	1.3	-2	6.6	2	1.1	1	0.191	-2	1.138	-2	5.947	1	1537	54	1.5
42926.7	10000	41.9785	93.8604	-430	QW	1.5	-1	6.5	2	1.1	1	0.237	-1	1.393	-1	5.870	1	1528	57	1.5
42926.6	10000	41.9791	93.8604	-429	QW	1.6	-1	6.4	1	1.1	1	0.245	-1	1.374	-1	5.605	1	1529	51	1.5
42926.5	10000	41.9796	93.8605	-428	QW	1.7	-1	6.0	1	1.1	1	0.282	-1	1.486	-1	5.261	0	1516	40	1.5
42926.4	10000	41.9802	93.8605	-427	QW	1.6	-1	6.0	1	1.2	1	0.267	-1	1.387	-1	5.196	0	1515	51	1.5
42926.3	10000	41.9807	93.8605	-426	QW	1.7	-1	6.0	1	1.1	1	0.279	-1	1.519	-1	5.439	0	1499	41	1.5
42926.2	10000	41.9813	93.8605	-425	QW	1.8	-1	6.3	1	1.1	0	0.280	-1	1.638	-1	5.845	1	1499	54	1.5
42926.1	10000	41.9818	93.8605	-424	QW	1.8	0	5.8	1	1.1	1	0.314	-1	1.629	-1	5.193	0	1489	42	1.5
42926.0	10000	41.9824	93.8605	-424	QW	1.7	-1	5.8	0	1.1	1	0.289	-1	1.504	-1	5.195	0	1486	65	1.5
42925.9	10000	41.9829	93.8605	-423	QW	1.8	0	5.8	0	1.1	0	0.310	-1	1.625	-1	5.242	0	1488	43	1.5
42925.8	10000	41.9834	93.8605	-422	QW	1.8	0	6.1	1	1.1	1	0.297	-1	1.615	-1	5.436	0	1503	43	1.5
42925.7	10000	41.9840	93.8605	-422	QW	1.8	-1	6.2	1	1.1	0	0.286	-1	1.630	-1	5.698	1	1499	46	1.5
42925.6	10000	41.9845	93.8605	-422	QW	1.6	-1	6.2	1	1.1	1	0.255	-1	1.427	-1	5.585	1	1519	51	1.5
42925.5	10000	41.9851	93.8605	-421	QW	1.6	-1	6.1	1	1.1	1	0.267	-1	1.431	-1	5.367	0	1525	40	1.5
42925.4	10000	41.9856	93.8605	-421	QW	1.4	-1	6.0	1	1.1	0	0.241	-1	1.312	-1	5.433	0	1522	49	1.5
42925.3	10000	41.9862	93.8605	-422	QW	1.4	-1	5.9	1	1.1	1	0.230	-1	1.217	-1	5.285	0	1521	42	1.5
42925.2	10000	41.9867	93.8605	-422	QW	1.3	-2	6.1	1	1.1	1	0.210	-2	1.134	-2	5.385	0	1516	51	1.5
42925.1	10000	41.9873	93.8605	-422	QW	1.3	-2	6.1	1	1.1	0	0.216	-2	1.199	-1	5.561	1	1519	46	1.5
42925.0	10000	41.9878	93.8606	-421	QW	1.4	-1	6.1	1	1.1	1	0.230	-1	1.252	-1	5.432	0	1536	65	1.5
42924.9	10000	41.9883	93.8606	-421	QW	1.5	-1	6.2	1	1.1	1	0.243	-1	1.325	-1	5.448	0	1539	49	1.5
42924.8	10000	41.9889	93.8606	-422	QW	1.5	-1	5.9	1	1.1	1	0.256	-1	1.320	-1	5.162	0	1544	48	1.5
42924.7	10000	41.9894	93.8606	-422	QW	1.7	-1	6.0	1	1.2	1	0.280	-1	1.419	-1	5.068	0	1560	43	1.5
42924.6	10000	41.9900	93.8606	-423	QW	1.8	-1	6.2	1	1.2	1	0.286	-1	1.515	-1	5.299	0	1574	51	1.5
42924.5	10000	41.9905	93.8606	-422	QW	1.9	0	5.9	1	1.2	1	0.317	-1	1.626	-1	5.127	0	1586	54	1.5
42924.4	10000	41.9911	93.8606	-423	QW	1.7	-1	5.8	1	1.2	1	0.292	-1	1.457	-1	4.995	0	1582	55	1.5
42924.3	10000	41.9916	93.8606	-423	QW	1.8	0	5.7	0	1.1	1	0.315	-1	1.600	-1	5.071	0	1562	48	1.5
42924.2	10000	41.9922	93.8606	-422	QW	1.8	0	5.3	0	1.1	0	0.344	0	1.664	-1	4.830	-1	1551	51	1.5
42924.1	10000	41.9927	93.8606	-421	QW	1.9	0	5.5	0	1.1	0	0.341	0	1.759	0	5.156	0	1539	33	1.5
42924.0	10000	41.9932	93.8606	-420	QW	1.8	0	5.6	0	1.1	0	0.326	0	1.773	0	5.434	0	1529	42	1.5
42923.9	10000	41.9938	93.8606	-420	QW	1.7	-1	5.3	0	1.1	0	0.323	-1	1.677	0	5.199	0	1516	45	1.5
42923.8	10000	41.9943	93.8606	-423	QW	1.8	0	5.2	0	1.1	0	0.351	0	1.807	0	5.156	0	1494	35	1.5
42923.7	10000	41.9949	93.8607	-423	QW	1.9	0	5.0	-1	1.1	0	0.372	0	1.887	0	5.067	0	1464	56	1.5
42923.6	10000	41.9954	93.8607	-423	QW	1.6	-1	4.7	-1	1.0	-1	0.346	-1	1.647	-1	4.754	-1	1418	46	1.5
42923.5	10000	41.9960	93.8607	-422	QW	1.7	-1	4.4	-1	0.9	-1	0.396	-1	1.933	-1	4.878	-1	1369	55	1.5
42923.4	10000	41.9965	93.8607	-422	QW	1.5	-1	4.2	-2	0.9	-2	0.350	-1	1.684	-1	4.822	-1	1331	45	1.5
42923.3	10000	41.9971	93.8607	-421	QW	1.6	-1	4.1	-2	0.9	-2	0.381	0	1.747	0	4.589	-1	1316	54	1.5
42923.2	10000	41.9976	93.8607	-420	QW	1.7	-1	4.4	-2	0.9	-2	0.384	0	1.946	0	5.062	0	1309	46	1.5

LINE 1070 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42923.1	10000	41.9981	93.8607	-420	QW	1.5	-1	4.5	-1	0.9	-2	0.336	0	1.726	0	5.138	0	1311	41	1.5
42923.0	10000	41.9987	93.8607	-419	QW	1.6	-1	4.4	-2	0.9	-2	0.372	0	1.901	0	5.105	0	1316	59	1.5
42922.9	10000	41.9992	93.8607	-419	QW	1.8	0	4.5	-1	0.8	-2	0.404	0	2.148	1	5.314	0	1347	43	1.5
42922.8	10000	41.9998	93.8607	-418	QW	1.8	0	4.6	-1	0.9	-2	0.389	0	2.088	0	5.369	0	1376	52	1.5
42922.7	10000	42.0003	93.8607	-417	QW	2.0	0	4.6	-1	0.9	-2	0.429	1	2.272	1	5.299	0	1394	54	1.5

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43117.2	10000	41.0046	93.5083	-793	QKA	2.3	0	8.9	2	1.1	1	0.253	-1	1.968	-1	7.766	1	1835	46	1.3
43117.3	10000	41.0052	93.5083	-797	QKA	2.3	0	9.0	2	1.2	1	0.254	-1	1.924	-1	7.589	1	1847	43	1.3
43117.4	10000	41.0058	93.5083	-802	QKA	2.3	0	8.7	2	1.2	1	0.258	-1	1.911	-1	7.398	1	1846	59	1.3
43117.5	10000	41.0064	93.5084	-806	QKA	2.3	0	8.8	2	1.1	0	0.257	-1	2.009	0	7.815	1	1828	40	1.3
43117.6	10000	41.0071	93.5084	-810	QKA	2.1	-1	8.2	1	1.1	0	0.255	-1	1.929	-1	7.569	1	1798	41	1.3
43117.7	10000	41.0077	93.5085	-815	QKA	1.9	-1	7.8	1	1.1	0	0.245	-1	1.812	-1	7.391	1	1750	57	1.3
43117.8	10000	41.0083	93.5085	-819	QKA	2.0	-1	7.8	1	1.0	-1	0.258	-1	2.093	0	8.106	2	1709	52	1.3
43117.9	10000	41.0090	93.5085	-823	QKA	2.1	-1	7.2	1	0.9	-1	0.296	-1	2.304	0	7.774	1	1673	51	1.3
43118.0	10000	41.0096	93.5086	-827	QKA	2.3	0	7.0	0	0.9	-2	0.321	0	2.639	1	8.230	2	1640	43	1.3
43118.1	10000	41.0102	93.5086	-831	QKA	2.4	0	6.9	0	0.8	-2	0.346	0	2.965	1	8.581	2	1609	24	1.3
43118.2	10000	41.0108	93.5086	-835	QKA	2.5	0	6.7	-1	0.8	-2	0.367	0	2.990	1	8.150	2	1591	37	1.3
43118.3	10000	41.0115	93.5087	-839	QKA	2.6	0	7.1	0	0.8	-2	0.358	0	3.101	2	8.650	2	1607	41	1.3
43118.4	10000	41.0121	93.5087	-842	QKA	2.7	1	7.1	0	0.9	-1	0.374	0	3.006	2	8.037	2	1642	51	1.3
43118.5	10000	41.0127	93.5087	-845	QKA	2.6	0	7.0	0	0.9	-1	0.365	0	2.762	1	7.566	1	1660	44	1.3
43118.6	10000	41.0133	93.5088	-848	QKA	2.6	0	7.2	0	1.0	-1	0.355	0	2.664	1	7.499	1	1681	47	1.3
43118.7	10000	41.0140	93.5088	-852	QKA	2.4	0	7.3	0	1.0	-1	0.340	0	2.516	1	7.408	1	1682	52	1.3
43118.8	10000	41.0146	93.5089	-856	QKA	2.3	0	7.1	0	1.0	0	0.323	0	2.250	0	6.962	0	1699	40	1.3
43118.9	10000	41.0152	93.5089	-858	QKA	2.3	0	7.0	0	1.0	0	0.324	0	2.274	0	7.016	0	1706	40	1.3
43119.0	10000	41.0158	93.5089	-861	QKA	2.3	0	7.0	0	1.0	0	0.324	0	2.222	0	6.862	0	1707	43	1.3
43119.1	10000	41.0165	93.5090	-864	QKA	2.3	0	7.3	0	1.0	0	0.312	0	2.211	0	7.094	0	1691	36	1.3
43119.2	10000	41.0171	93.5090	-867	QKA	2.3	0	7.3	0	1.0	0	0.316	0	2.266	0	7.166	1	1691	57	1.3
43119.3	10000	41.0177	93.5090	-869	QKA	2.3	0	7.4	0	1.0	-1	0.307	0	2.263	0	7.373	1	1667	37	1.3
43119.4	10000	41.0183	93.5091	-872	QKA	2.3	0	7.0	0	1.0	0	0.321	0	2.211	0	6.890	0	1641	37	1.3
43119.5	10000	41.0190	93.5091	-874	QKA	2.3	0	7.0	0	1.0	-1	0.322	0	2.366	0	7.345	1	1602	33	1.3
43119.6	10000	41.0196	93.5091	-877	QKA	2.3	0	6.8	0	1.0	-1	0.327	0	2.251	0	6.884	0	1578	40	1.3
43119.7	10000	41.0202	93.5092	-879	QKA	2.2	0	6.6	-1	1.0	-1	0.344	0	2.351	0	6.839	0	1545	45	1.3
43119.8	10000	41.0208	93.5092	-881	QKA	2.4	0	5.9	-2	0.9	-1	0.410	1	2.594	1	6.323	0	1528	51	1.3
43119.9	10000	41.0215	93.5092	-882	QKA	2.2	0	5.9	-2	0.9	-1	0.381	1	2.421	0	6.351	0	1506	48	1.3
43120.0	10000	41.0221	93.5093	-884	QKA	2.4	0	5.8	-2	0.9	-1	0.414	1	2.613	1	6.314	0	1518	37	1.3
43120.1	10000	41.0227	93.5093	-884	QKA	2.4	0	6.0	-1	0.9	-1	0.396	1	2.542	1	6.425	0	1550	44	1.3
43120.2	10000	41.0233	93.5094	-885	QKA	2.3	0	6.0	-1	0.9	-1	0.378	1	2.482	1	6.561	0	1580	48	1.3
43120.3	10000	41.0240	93.5094	-885	QKA	2.3	0	6.4	-1	0.9	-1	0.351	1	2.423	0	6.902	0	1623	41	1.3
43120.4	10000	41.0246	93.5094	-884	QKA	2.2	0	6.6	-1	0.9	-1	0.335	0	2.445	1	7.307	1	1631	46	1.3
43120.5	10000	41.0252	93.5095	-883	QKA	2.1	-1	7.2	0	0.9	-1	0.287	-1	2.290	2	7.985	2	1638	39	1.3
43120.6	10000	41.0258	93.5095	-881	QKA	2.1	-1	7.2	0	0.9	-1	0.288	-1	2.249	1	7.822	1	1652	34	1.3
43120.7	10000	41.0265	93.5095	-878	QKA	2.0	-1	7.3	0	1.0	-1	0.278	-1	2.090	1	7.508	1	1659	44	1.3
43120.8	10000	41.0271	93.5096	-875	QKA	1.9	-1	7.4	0	0.9	-1	0.258	-1	2.033	1	7.891	1	1654	50	1.3
43120.9	10000	41.0277	93.5096	-871	QKA	1.8	-1	7.7	1	1.0	-1	0.229	-2	1.759	-1	7.684	1	1662	45	1.3
43121.0	10000	41.0284	93.5096	-867	QKA	1.7	-2	7.5	0	1.0	-1	0.222	-2	1.661	-1	7.469	1	1631	41	1.3
43121.1	10000	41.0290	93.5097	-860	QKA	1.6	-2	7.4	0	1.1	0	0.223	-2	1.553	-1	6.960	0	1624	41	1.3
43121.2	10000	41.0296	93.5097	-854	QKA	1.7	-1	7.3	0	1.1	0	0.234	-1	1.626	-1	6.936	0	1617	50	1.3
43121.3	10000	41.0302	93.5098	-850	QKA	1.7	-2	7.0	0	1.0	0	0.235	-1	1.599	-1	6.793	0	1605	46	1.3
43121.4	10000	41.0309	93.5098	-846	QKA	1.5	-2	7.1	0	1.0	-1	0.213	-2	1.509	-1	7.102	1	1595	33	1.3
43121.5	10000	41.0315	93.5098	-839	QKA	1.8	-1	6.8	0	1.0	-1	0.259	-1	1.811	-1	7.002	0	1596	50	1.3
43121.6	10000	41.0321	93.5099	-831	QKA	2.2	0	6.8	0	0.9	-1	0.324	0	2.376	0	7.346	1	1594	53	1.3
43121.7	10000	41.0327	93.5099	-823	QKA	2.5	0	7.0	0	0.9	-1	0.354	0	2.812	1	7.940	2	1604	40	1.3
43121.8	10000	41.0334	93.5099	-814	QKA	2.5	0	7.0	0	0.8	-2	0.356	0	2.989	1	8.396	2	1610	53	1.3
43121.9	10000	41.0340	93.5100	-806	QKA	2.6	0	6.8	0	0.8	-2	0.379	1	3.086	2	8.150	2	1573	38	1.3
43122.0	10000	41.0346	93.5100	-797	QKA	2.5	0	6.8	0	0.8	-2	0.374	1	3.124	2	8.362	2	1544	43	1.3
43122.1	10000	41.0352	93.5100	-787	QKA	2.7	1	6.6	-1	0.8	-2	0.414	1	3.415	2	8.243	2	1525	56	1.3
43122.2	10000	41.0359	93.5101	-778	QKA	2.7	1	6.8	-1	0.9	-2	0.404	1	3.181	2	7.875	1	1520	37	1.3
43122.3	10000	41.0365	93.5101	-767	QKA	2.5	0	6.2	-1	0.9	-1	0.394	1	2.802	1	7.115	1	1507	44	1.3

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43122.4	10000	41.0371	93.5101	-757	QKA	2.2	0	6.3	-1	0.9	-1	0.344	0	2.417	0	7.036	0	1503	45	1.3
43122.5	10000	41.0377	93.5102	-746	QKA	2.1	-1	6.6	-1	0.9	-1	0.313	0	2.239	0	7.148	1	1498	54	1.3
43122.6	10000	41.0384	93.5102	-735	QKA	2.1	-1	6.8	0	0.9	-1	0.308	0	2.340	0	7.599	1	1537	48	1.3
43122.7	10000	41.0390	93.5103	-725	QKA	2.3	0	7.0	0	0.9	-1	0.323	0	2.510	1	7.773	1	1559	49	1.3
43122.8	10000	41.0396	93.5103	-714	QKA	2.1	-1	7.2	0	0.9	-1	0.299	-1	2.328	0	7.796	1	1573	46	1.3
43122.9	10000	41.0402	93.5103	-704	QKA	2.0	-1	7.2	0	0.9	-2	0.274	-1	2.289	0	8.358	2	1554	48	1.3
43123.0	10000	41.0409	93.5104	-694	QKA	2.2	0	7.6	1	0.9	-2	0.289	-1	2.544	1	8.787	3	1580	49	1.3
43123.1	10000	41.0415	93.5104	-684	QKA	2.3	0	7.4	0	0.9	-1	0.314	0	2.539	1	8.089	2	1610	60	1.3
43123.2	10000	41.0421	93.5104	-675	QKA	2.6	0	7.2	0	1.0	-1	0.360	0	2.705	1	7.525	1	1651	46	1.3
43123.3	10000	41.0427	93.5105	-665	QKA	2.5	0	6.9	0	1.0	-1	0.363	0	2.538	1	6.995	0	1666	49	1.3
43123.4	10000	41.0434	93.5105	-657	QKA	2.5	0	7.1	0	1.1	0	0.347	0	2.356	0	6.784	0	1691	46	1.3
43123.5	10000	41.0440	93.5106	-648	QKA	2.5	0	7.1	0	1.1	0	0.349	0	2.277	0	6.521	0	1708	47	1.3
43123.6	10000	41.0446	93.5106	-640	QKA	2.4	0	7.2	0	1.1	0	0.340	0	2.176	0	6.408	0	1722	56	1.3
43123.7	10000	41.0453	93.5106	-633	QKA	2.3	0	6.8	0	1.1	0	0.332	0	2.027	0	6.114	-1	1694	48	1.3
43123.8	10000	41.0459	93.5107	-626	QKA	2.2	0	6.8	0	1.1	0	0.325	0	2.088	0	6.425	0	1663	51	1.3
43123.9	10000	41.0465	93.5107	-619	QKA	1.9	-1	6.9	0	1.0	-1	0.276	-1	1.936	-1	7.013	0	1616	38	1.3
43124.0	10000	41.0471	93.5107	-613	QKA	2.0	-1	6.6	-1	1.0	-1	0.299	-1	2.000	-1	6.691	0	1604	59	1.3
43124.1	10000	41.0477	93.5107	-607	QKA	2.1	-1	6.5	-1	0.9	-1	0.327	0	2.353	0	7.193	1	1596	41	1.3
43124.2	10000	41.0483	93.5107	-602	QKA	2.4	0	6.3	-1	0.8	-2	0.376	1	2.789	1	7.423	1	1595	56	1.3
43124.3	10000	41.0489	93.5107	-597	QKA	2.5	0	6.0	-1	0.9	-1	0.414	1	2.832	1	6.846	0	1609	42	1.3
43124.4	10000	41.0495	93.5107	-593	QKA	2.6	0	6.3	-1	0.9	-1	0.412	1	2.902	1	7.045	0	1632	48	1.3
43124.5	10000	41.0501	93.5107	-588	QKA	2.6	0	6.3	-1	0.9	-1	0.405	1	2.704	1	6.682	0	1641	36	1.3
43124.6	10000	41.0507	93.5107	-585	QKA	2.7	1	6.2	-1	1.0	-1	0.436	1	2.683	1	6.159	-1	1666	43	1.3
43124.7	10000	41.0513	93.5107	-582	QKA	2.6	0	6.5	-1	1.0	-1	0.395	1	2.671	1	6.767	0	1661	38	1.3
43124.8	10000	41.0519	93.5107	-579	QKA	2.5	0	6.2	-1	1.0	0	0.403	1	2.409	0	5.975	-1	1685	45	1.3
43124.9	10000	41.0525	93.5107	-577	QKA	2.4	0	6.3	-1	1.1	0	0.376	1	2.179	0	5.797	-1	1691	54	1.3
43125.0	10000	41.0531	93.5107	-574	QKA	2.4	0	6.3	-1	1.1	0	0.381	1	2.212	0	5.809	-1	1692	46	1.3
43125.1	10000	41.0537	93.5107	-573	QKA	2.2	0	5.7	-2	1.1	0	0.382	1	2.037	0	5.334	-2	1668	46	1.3
43125.2	10000	41.0543	93.5107	-572	QKA	2.4	0	5.6	-2	1.0	0	0.423	1	2.263	0	5.356	-2	1669	44	1.3
43125.3	10000	41.0549	93.5107	-573	QKA	2.3	0	5.5	-2	1.1	0	0.426	1	2.216	0	5.200	-2	1668	49	1.3
43125.4	10000	41.0555	93.5107	-575	QKA	2.3	0	5.8	-2	1.1	0	0.406	1	2.144	0	5.274	-2	1673	45	1.3
43125.5	10000	41.0561	93.5107	-577	QKA	2.3	0	6.1	-1	1.1	0	0.380	1	2.120	0	5.576	-1	1660	50	1.3
43125.6	10000	41.0567	93.5107	-579	QKA	2.6	0	6.3	-1	1.1	0	0.420	1	2.427	0	5.780	-1	1660	52	1.3
43125.7	10000	41.0573	93.5107	-582	QKA	2.5	0	6.4	-1	1.1	0	0.383	1	2.282	0	5.958	-1	1652	43	1.3
43125.8	10000	41.0579	93.5107	-586	QKA	2.5	0	7.2	0	1.1	0	0.344	1	2.328	0	6.776	0	1662	51	1.3
43125.9	10000	41.0585	93.5107	-590	QKA	2.5	0	7.5	0	1.1	0	0.331	1	2.290	0	6.917	0	1660	41	1.3
43126.0	10000	41.0592	93.5107	-595	QKA	2.4	0	7.8	1	1.1	0	0.307	1	2.293	0	7.461	1	1647	51	1.3
43126.1	10000	41.0598	93.5107	-600	QKA	2.2	0	7.5	0	1.0	0	0.294	-1	2.160	0	7.348	1	1623	47	1.3
43126.2	10000	41.0604	93.5108	-605	QKA	2.1	-1	7.3	0	0.9	-1	0.291	-1	2.284	0	7.850	1	1590	45	1.3
43126.3	10000	41.0610	93.5108	-611	QKA	1.8	-1	7.0	0	0.9	-1	0.260	-1	2.018	0	7.755	1	1558	47	1.3
43126.4	10000	41.0616	93.5108	-617	QKA	2.0	-1	7.0	0	0.9	-1	0.282	-1	2.258	0	8.008	2	1543	41	1.3
43126.5	10000	41.0622	93.5108	-624	QKA	2.0	-1	6.2	-1	0.9	-2	0.314	-1	2.258	0	7.190	1	1520	47	1.3
43126.6	10000	41.0628	93.5108	-631	QKA	1.9	-1	6.1	-1	0.9	-2	0.308	0	2.166	0	7.102	1	1518	53	1.3
43126.7	10000	41.0634	93.5108	-638	QKA	2.0	-1	5.9	-2	0.8	-2	0.346	0	2.499	1	7.223	1	1499	51	1.3
43126.8	10000	41.0640	93.5108	-646	QKA	2.0	-1	5.9	-2	0.8	-2	0.336	0	2.440	1	7.265	1	1504	48	1.3
43126.9	10000	41.0646	93.5108	-654	QKA	2.1	-1	5.7	-2	0.8	-2	0.366	0	2.519	1	6.879	0	1505	40	1.3
43127.0	10000	41.0652	93.5108	-661	QKA	2.1	-1	5.8	-2	0.8	-2	0.359	0	2.569	1	7.146	1	1490	47	1.3
43127.1	10000	41.0658	93.5108	-668	QKA	2.0	-1	5.7	-2	0.9	-2	0.354	0	2.385	1	6.735	0	1469	33	1.3
43127.2	10000	41.0664	93.5108	-674	QKA	2.0	-1	6.0	-1	0.9	-2	0.331	0	2.324	0	7.011	0	1468	54	1.3
43127.3	10000	41.0670	93.5108	-681	QKA	1.8	-1	6.1	-1	0.8	-2	0.302	-1	2.193	0	7.262	1	1460	37	1.3
43127.4	10000	41.0676	93.5108	-686	QKA	1.8	-1	6.0	-2	0.9	-2	0.303	0	2.130	0	7.018	0	1478	37	1.3
43127.5	10000	41.0682	93.5108	-691	QKA	2.2	0	5.6	-2	0.9	-2	0.391	1	2.544	1	6.508	0	1489	40	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43127.6	10000	41.0688	93.5108	-697	QKA	2.1	-1	5.7	-2	0.9	-1	0.370	0	2.394	0	6.462	0	1494	48	1.4
43127.7	10000	41.0694	93.5108	-701	QKA	2.0	-1	6.1	-1	0.9	-1	0.334	0	2.255	0	6.758	0	1534	61	1.4
43127.8	10000	41.0700	93.5108	-704	QKA	1.9	-1	6.4	-1	0.9	-1	0.304	0	2.159	0	7.098	1	1573	48	1.4
43127.9	10000	41.0706	93.5108	-707	QKA	2.1	-1	6.4	-1	0.9	-2	0.322	0	2.371	0	7.374	1	1589	45	1.4
43128.0	10000	41.0712	93.5108	-710	QKA	2.3	0	6.3	-1	0.9	-1	0.371	0	2.552	1	6.886	0	1601	40	1.4
43128.1	10000	41.0718	93.5108	-713	QKA	2.2	0	6.0	-1	0.9	-1	0.358	0	2.397	0	6.692	0	1590	52	1.4
43128.2	10000	41.0724	93.5108	-716	QKA	2.0	-1	6.5	-1	0.9	-1	0.302	-1	2.078	0	6.879	0	1577	48	1.4
43128.3	10000	41.0730	93.5108	-717	QKA	1.9	-1	6.6	-1	0.9	-1	0.290	-1	2.069	0	7.137	1	1576	44	1.4
43128.4	10000	41.0736	93.5108	-719	QKA	2.0	-1	6.4	-1	0.9	-1	0.321	0	2.243	0	6.984	0	1562	50	1.4
43128.5	10000	41.0743	93.5108	-721	QKA	2.0	-1	6.1	-1	0.9	-1	0.332	0	2.287	0	6.892	0	1538	30	1.3
43128.6	10000	41.0749	93.5108	-723	QKA	1.9	-1	6.2	-1	0.9	-1	0.298	-1	2.022	0	6.787	0	1528	50	1.3
43128.7	10000	41.0755	93.5108	-724	QKA	1.7	-1	6.6	-1	0.9	-1	0.256	-1	1.812	-1	7.072	0	1524	54	1.3
43128.8	10000	41.0761	93.5108	-725	QKA	1.7	-1	7.0	0	1.0	-1	0.248	-1	1.786	-1	7.201	1	1516	55	1.3
43128.9	10000	41.0767	93.5108	-726	QKA	1.6	-2	6.9	0	1.0	-1	0.227	-2	1.649	-1	7.269	1	1514	61	1.3
43129.0	10000	41.0773	93.5109	-728	QKA	1.8	-1	7.0	0	1.0	-1	0.251	-1	1.802	-1	7.191	1	1510	41	1.3
43129.1	10000	41.0779	93.5109	-730	QKA	1.4	-2	7.0	0	1.0	-1	0.192	-2	1.348	-2	7.013	0	1502	42	1.3
43129.2	10000	41.0785	93.5109	-733	QKA	1.6	-2	7.3	0	1.0	0	0.218	-2	1.548	-1	7.106	1	1497	51	1.3
43129.3	10000	41.0791	93.5109	-735	QKA	1.8	-1	7.2	0	1.0	-1	0.244	-1	1.748	-1	7.165	1	1502	41	1.3
43129.4	10000	41.0797	93.5109	-739	QKA	1.7	-1	6.9	0	1.0	-1	0.248	-1	1.774	-1	7.158	1	1489	41	1.3
43129.5	10000	41.0803	93.5109	-742	QKA	1.8	-1	6.7	-1	0.9	-1	0.268	-1	1.949	-1	7.287	1	1494	41	1.3
43129.6	10000	41.0809	93.5109	-746	QKA	1.8	-1	6.5	-1	0.9	-1	0.274	-1	1.995	-1	7.281	1	1476	46	1.3
43129.7	10000	41.0815	93.5109	-751	QKA	1.5	-2	6.3	-1	0.9	-1	0.234	-1	1.663	-1	7.096	1	1475	37	1.3
43129.8	10000	41.0821	93.5109	-757	QKA	1.6	-2	6.2	-1	0.8	-2	0.260	-1	1.909	-1	7.337	1	1468	39	1.3
43129.9	10000	41.0827	93.5109	-761	QKA	1.5	-2	6.4	-1	0.8	-2	0.234	-1	1.810	-1	7.725	1	1487	44	1.3
43130.0	10000	41.0833	93.5109	-767	QKA	1.5	-2	6.7	-1	0.9	-1	0.232	-2	1.763	-1	7.585	1	1509	36	1.3
43130.1	10000	41.0839	93.5109	-774	QKA	1.7	-2	6.8	0	1.0	-1	0.243	-1	1.748	-1	7.185	1	1541	60	1.3
43130.2	10000	41.0845	93.5109	-780	QKA	1.5	-2	7.0	0	1.0	-1	0.216	-2	1.519	-1	7.029	0	1555	43	1.3
43130.3	10000	41.0851	93.5109	-787	QKA	1.7	-1	7.5	0	1.0	-1	0.226	-2	1.683	-1	7.440	1	1595	46	1.3
43130.4	10000	41.0857	93.5109	-794	QKA	2.1	-1	7.7	1	1.0	-1	0.270	-1	2.111	0	7.813	1	1623	47	1.3
43130.5	10000	41.0863	93.5109	-802	QKA	2.2	0	7.6	1	1.0	-1	0.293	-1	2.204	0	7.514	1	1636	38	1.3
43130.6	10000	41.0869	93.5109	-809	QKA	2.2	0	7.3	0	1.1	0	0.296	-1	2.024	0	6.837	0	1658	45	1.3
43130.7	10000	41.0875	93.5109	-817	QKA	2.2	0	7.2	0	1.1	0	0.309	0	2.025	0	6.545	0	1674	49	1.3
43130.8	10000	41.0881	93.5109	-824	QKA	2.2	0	7.2	0	1.1	0	0.313	0	2.065	0	6.590	0	1687	39	1.3
43130.9	10000	41.0887	93.5109	-831	QKA	2.6	1	7.2	0	1.1	0	0.362	0	2.398	0	6.627	0	1721	50	1.3
43131.0	10000	41.0893	93.5109	-837	QKA	2.8	1	7.2	0	1.1	0	0.384	1	2.421	0	6.309	0	1735	34	1.3
43131.1	10000	41.0899	93.5109	-843	QKA	2.4	0	7.1	0	1.1	0	0.341	0	2.141	0	6.283	-1	1730	59	1.3
43131.2	10000	41.0906	93.5109	-850	QKA	2.4	0	7.3	0	1.1	0	0.332	0	2.120	0	6.388	0	1744	50	1.3
43131.3	10000	41.0911	93.5109	-856	QKA	2.5	1	7.6	1	1.1	0	0.331	0	2.266	0	6.837	0	1728	42	1.3
43131.4	10000	41.0918	93.5110	-861	QKA	2.3	0	7.5	1	1.1	0	0.304	0	2.089	0	6.871	0	1708	54	1.3
43131.5	10000	41.0924	93.5110	-865	QKA	2.2	0	7.3	0	1.1	0	0.306	0	2.066	0	6.757	0	1685	42	1.3
43131.6	10000	41.0930	93.5110	-869	QKA	1.9	-1	7.1	0	1.1	0	0.271	-1	1.758	-1	6.469	0	1648	53	1.3
43131.7	10000	41.0936	93.5110	-873	QKA	1.7	-1	7.2	0	1.1	0	0.241	-1	1.646	-1	6.820	0	1623	48	1.3
43131.8	10000	41.0942	93.5110	-877	QKA	1.7	-1	6.9	0	1.1	0	0.253	-1	1.636	-1	6.472	0	1606	44	1.3
43131.9	10000	41.0948	93.5110	-880	QKA	1.7	-1	6.7	-1	1.1	0	0.255	-1	1.619	-1	6.341	0	1581	51	1.3
43132.0	10000	41.0954	93.5110	-883	QKA	1.9	-1	6.4	-1	1.0	0	0.302	-1	1.871	-1	5.205	-1	1577	43	1.3
43132.1	10000	41.0960	93.5110	-886	QKA	2.1	-1	6.2	-1	1.0	-1	0.337	-1	2.072	0	5.152	-1	1569	46	1.3
43132.2	10000	41.0966	93.5110	-889	QKA	2.1	-1	6.4	-1	1.0	-1	0.328	0	2.113	0	6.450	0	1569	52	1.3
43132.3	10000	41.0972	93.5110	-891	QKA	2.3	0	6.7	-1	0.9	-1	0.340	0	2.399	0	7.062	1	1574	43	1.3
43132.4	10000	41.0978	93.5110	-893	QKA	2.3	0	6.5	-1	0.9	-1	0.357	1	2.536	1	7.106	1	1571	48	1.3
43132.5	10000	41.0984	93.5110	-896	QKA	2.5	1	6.6	-1	0.9	-1	0.370	1	2.727	1	7.379	1	1582	51	1.3
43132.6	10000	41.0990	93.5110	-899	QKA	2.7	1	6.7	-1	0.9	-2	0.397	1	3.091	2	7.786	1	1589	39	1.3
43132.7	10000	41.0996	93.5110	-901	QKA	2.4	0	6.8	0	0.9	-1	0.353	0	2.740	1	7.772	1	1596	51	1.3

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43132.8	10000	41.1002	93.5110	-904	QKA	2.6	0	7.0	0	0.9	-1	0.372	0	2.941	1	7.909	2	1597	52	1.2
43132.9	10000	41.1008	93.5110	-907	QKA	2.6	0	6.8	0	0.8	-2	0.383	1	3.090	2	8.064	2	1587	44	1.2
43133.0	10000	41.1014	93.5110	-910	QKA	2.5	0	6.5	-1	0.8	-2	0.381	1	2.945	1	7.737	1	1581	44	1.2
43133.1	10000	41.1020	93.5110	-913	QKA	2.5	0	6.9	0	0.9	-1	0.369	0	2.879	1	7.807	1	1602	41	1.2
43133.2	10000	41.1026	93.5110	-917	QKA	2.7	1	7.1	0	0.9	-1	0.378	1	2.958	1	7.828	1	1606	39	1.2
43133.3	10000	41.1032	93.5110	-921	QKA	2.5	0	6.8	0	0.9	-1	0.361	0	2.647	1	7.337	1	1615	38	1.2
43133.4	10000	41.1038	93.5110	-925	QKA	2.7	1	6.9	0	1.0	-1	0.384	1	2.672	1	6.952	0	1625	41	1.2
43133.5	10000	41.1044	93.5110	-930	QKA	2.4	0	7.2	0	1.0	-1	0.329	0	2.431	0	7.394	1	1632	45	1.2
43133.6	10000	41.1050	93.5110	-936	QKA	2.2	0	7.4	0	1.0	-1	0.301	-1	2.310	0	7.680	1	1630	52	1.2
43133.7	10000	41.1056	93.5110	-941	QKA	2.4	0	7.8	1	1.0	-1	0.310	0	2.504	1	8.083	2	1628	51	1.2
43133.8	10000	41.1062	93.5110	-947	QKA	2.6	1	7.1	0	1.0	-1	0.371	0	2.767	1	7.464	1	1616	41	1.2
43133.9	10000	41.1068	93.5110	-953	QKA	2.3	0	7.0	0	1.0	-1	0.330	0	2.374	0	7.193	1	1603	55	1.2
43134.0	10000	41.1074	93.5110	-960	QKA	2.2	0	7.1	0	1.0	-1	0.315	0	2.341	0	7.419	1	1602	58	1.2
43134.1	10000	41.1080	93.5110	-966	QKA	2.1	-1	7.1	0	1.0	-1	0.296	-1	2.159	0	7.302	1	1599	58	1.2
43134.2	10000	41.1087	93.5111	-973	QKA	2.3	0	6.6	-1	1.0	-1	0.354	0	2.450	0	6.922	0	1604	46	1.2
43134.3	10000	41.1093	93.5111	-981	QKA	2.7	1	6.7	-1	1.0	-1	0.398	1	2.753	1	6.918	0	1626	33	1.2
43134.4	10000	41.1099	93.5111	-989	QKA	2.5	0	6.6	-1	1.0	-1	0.384	1	2.593	1	6.746	0	1643	42	1.2
43134.5	10000	41.1105	93.5111	-996	QKA	2.2	0	6.9	0	1.0	0	0.325	0	2.223	0	6.833	0	1669	45	1.2
43134.6	10000	41.1111	93.5111	-1004	QKA	2.5	0	7.4	0	1.0	-1	0.337	0	2.472	0	7.333	1	1700	36	1.2
43134.7	10000	41.1117	93.5111	-1011	QKA	2.4	0	7.5	0	1.0	0	0.324	0	2.373	0	7.314	1	1716	51	1.2
43134.8	10000	41.1123	93.5111	-1018	QKA	2.6	0	7.5	0	1.0	-1	0.347	0	2.594	0	7.476	1	1719	48	1.2
43134.9	10000	41.1129	93.5111	-1026	QKA	2.4	0	7.7	1	1.0	0	0.308	0	2.346	0	7.615	1	1721	46	1.2
43135.0	10000	41.1135	93.5111	-1033	QKA	2.3	0	7.6	1	1.0	-1	0.303	0	2.289	0	7.545	1	1706	41	1.2
43135.1	10000	41.1141	93.5111	-1041	QKA	2.4	0	7.2	0	1.0	0	0.334	0	2.384	0	7.137	1	1685	32	1.2
43135.2	10000	41.1147	93.5111	-1048	QKA	2.3	0	6.8	0	1.0	-1	0.342	0	2.431	0	7.110	1	1640	32	1.2
43135.3	10000	41.1153	93.5111	-1056	QKA	2.6	0	6.4	-1	1.0	-1	0.400	1	2.607	1	6.522	0	1606	52	1.2
43135.4	10000	41.1159	93.5111	-1063	QKA	2.7	1	6.3	-1	1.0	-1	0.429	1	2.732	1	6.363	0	1567	43	1.2
43135.5	10000	41.1165	93.5111	-1070	QKA	2.6	1	6.5	-1	0.9	-1	0.407	1	2.872	1	7.061	0	1542	45	1.2
43135.6	10000	41.1171	93.5111	-1076	QKA	2.5	0	6.2	-1	0.9	-1	0.407	1	2.762	1	6.785	0	1504	43	1.2
43135.7	10000	41.1177	93.5111	-1083	QKA	2.5	0	6.1	-1	1.0	-1	0.414	1	2.653	1	6.412	0	1505	43	1.2
43135.8	10000	41.1183	93.5111	-1089	QKA	2.3	0	6.3	-1	1.0	-1	0.375	0	2.440	1	6.499	0	1518	53	1.2
43135.9	10000	41.1189	93.5111	-1095	QKA	2.6	0	6.7	-1	1.0	0	0.383	1	2.533	1	6.621	0	1558	48	1.2
43136.0	10000	41.1195	93.5111	-1100	QKA	2.6	0	6.8	0	1.0	-1	0.376	1	2.556	1	6.795	0	1600	44	1.2
43136.1	10000	41.1201	93.5111	-1106	QKA	2.4	0	7.2	0	1.0	0	0.340	0	2.379	1	6.997	0	1652	35	1.2
43136.2	10000	41.1207	93.5112	-1111	QKA	2.6	0	7.2	0	1.1	0	0.366	0	2.426	1	6.620	0	1697	51	1.2
43136.3	10000	41.1213	93.5112	-1115	QKA	2.9	1	7.2	0	1.1	0	0.398	1	2.626	1	6.597	0	1740	54	1.2
43136.4	10000	41.1219	93.5112	-1120	QKA	2.8	1	7.4	0	1.1	0	0.382	1	2.562	1	6.706	0	1759	51	1.2
43136.5	10000	41.1226	93.5112	-1125	QKA	2.8	1	7.4	0	1.1	0	0.379	1	2.543	1	6.716	0	1770	57	1.2
43136.6	10000	41.1232	93.5112	-1128	QKA	2.6	0	7.2	0	1.1	0	0.365	0	2.336	1	6.408	0	1754	46	1.2
43136.7	10000	41.1238	93.5113	-1132	QKA	2.3	0	7.2	0	1.1	0	0.322	0	2.049	0	6.364	0	1742	54	1.2
43136.8	10000	41.1244	93.5113	-1135	QKA	2.6	0	6.8	0	1.1	0	0.389	1	2.307	0	5.929	-1	1731	51	1.2
43136.9	10000	41.1250	93.5113	-1137	QKA	2.4	0	6.7	-1	1.1	0	0.365	0	2.128	0	5.834	-1	1698	55	1.2
43137.0	10000	41.1256	93.5113	-1139	QKA	2.3	0	6.8	-1	1.1	0	0.347	0	2.100	0	6.044	-1	1699	47	1.2
43137.1	10000	41.1262	93.5114	-1141	QKA	2.4	0	6.9	0	1.1	0	0.343	0	2.157	0	6.295	0	1689	37	1.2
43137.2	10000	41.1268	93.5114	-1143	QKA	2.5	0	7.0	0	1.1	0	0.354	0	2.221	0	6.282	-1	1685	45	1.2
43137.3	10000	41.1274	93.5114	-1144	QKA	2.5	0	7.2	0	1.1	0	0.351	0	2.314	0	6.589	0	1696	45	1.2
43137.4	10000	41.1280	93.5114	-1145	QKA	2.5	0	7.0	0	1.0	0	0.366	0	2.444	0	6.675	0	1679	50	1.2
43137.5	10000	41.1286	93.5114	-1145	QKA	2.6	0	7.0	0	1.0	-1	0.367	0	2.675	0	7.292	1	1652	58	1.2
43137.6	10000	41.1292	93.5115	-1145	QKA	2.8	1	6.9	0	0.9	-1	0.412	1	3.034	2	7.361	1	1646	38	1.2
43137.7	10000	41.1299	93.5115	-1145	QKA	2.7	1	7.0	0	0.9	-1	0.387	1	2.875	1	7.426	1	1627	38	1.2
43137.8	10000	41.1305	93.5115	-1145	QKA	2.6	0	7.0	0	0.9	-1	0.367	1	2.806	1	7.654	1	1612	39	1.2
43137.9	10000	41.1311	93.5115	-1145	QKA	2.5	0	7.0	0	0.9	-1	0.356	0	2.816	1	7.902	2	1607	47	1.2

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43138.0	10000	41.1317	93.5116	-1144	QKA	2.5	0	7.0	0	0.9	-1	0.351	0	2.772	1	7.898	1	1586	36	1.2
43138.1	10000	41.1323	93.5116	-1143	QKA	2.3	0	7.1	0	0.9	-1	0.330	0	2.497	0	7.570	1	1552	70	1.2
43138.2	10000	41.1329	93.5116	-1143	QKA	2.1	-1	7.3	0	1.0	-1	0.291	-1	2.115	0	7.272	1	1595	48	1.2
43138.3	10000	41.1335	93.5116	-1142	QKA	1.9	-1	7.4	0	1.0	-1	0.250	-1	1.898	-1	7.587	1	1593	51	1.2
43138.4	10000	41.1341	93.5116	-1141	QKA	1.8	-1	7.7	1	1.0	0	0.230	-2	1.715	-1	7.444	1	1595	34	1.2
43138.5	10000	41.1347	93.5117	-1141	QKA	1.5	-2	7.4	0	1.1	0	0.205	-2	1.414	-2	6.899	0	1599	55	1.2
43138.6	10000	41.1353	93.5117	-1141	QKA	1.6	-2	7.6	1	1.1	0	0.208	-2	1.425	-2	6.844	0	1598	46	1.2
43138.7	10000	41.1359	93.5117	-1141	QKA	1.7	-1	7.2	0	1.1	0	0.234	-1	1.548	-1	6.607	0	1591	39	1.2
43138.8	10000	41.1365	93.5117	-1140	QKA	1.7	-2	7.2	0	1.0	0	0.230	-2	1.611	-1	6.998	0	1567	50	1.2
43138.9	10000	41.1372	93.5118	-1140	QKA	1.7	-1	6.9	0	1.0	-1	0.255	-1	1.826	-1	7.163	1	1537	35	1.2
43139.0	10000	41.1378	93.5118	-1140	QKA	1.8	-1	6.8	0	1.0	-1	0.266	-1	1.870	-1	7.031	0	1529	44	1.2
43139.1	10000	41.1384	93.5118	-1140	QKA	2.1	-1	6.3	-1	0.9	-1	0.332	0	2.215	0	6.666	0	1531	55	1.2
43139.2	10000	41.1390	93.5118	-1140	QKA	2.4	0	6.1	-1	0.9	-1	0.391	1	2.576	1	6.593	0	1528	52	1.2
43139.3	10000	41.1396	93.5119	-1140	QKA	2.3	0	5.8	-2	0.9	-1	0.400	1	2.586	1	6.461	0	1531	45	1.2
43139.4	10000	41.1402	93.5119	-1139	QKA	2.2	0	6.2	-1	0.9	-1	0.347	0	2.416	0	6.961	0	1550	47	1.2
43139.5	10000	41.1408	93.5119	-1138	QKA	2.4	0	6.3	-1	0.9	-1	0.375	1	2.513	1	6.697	0	1583	37	1.2
43139.6	10000	41.1414	93.5119	-1138	QKA	2.3	0	6.6	-1	1.0	0	0.350	0	2.252	0	6.433	0	1622	57	1.2
43139.7	10000	41.1420	93.5119	-1138	QKA	2.3	0	6.5	-1	1.0	0	0.349	0	2.167	0	6.216	-1	1665	54	1.2
43139.8	10000	41.1426	93.5120	-1138	QKA	2.3	0	7.0	0	1.0	0	0.325	0	2.242	0	6.894	0	1656	46	1.2
43139.9	10000	41.1432	93.5120	-1138	QKA	2.1	-1	7.2	0	1.0	-1	0.292	-1	2.108	0	7.218	1	1637	59	1.2
43140.0	10000	41.1439	93.5120	-1137	QKA	2.0	-1	7.1	0	1.0	-1	0.285	-1	2.062	0	7.233	1	1623	41	1.2
43140.1	10000	41.1445	93.5120	-1137	QKA	2.2	0	7.0	0	1.0	-1	0.316	0	2.306	0	7.297	1	1596	40	1.2
43140.2	10000	41.1451	93.5121	-1136	QKA	2.2	-1	6.7	-1	0.9	-1	0.320	0	2.312	0	7.228	1	1562	43	1.3
43140.3	10000	41.1457	93.5121	-1136	QKA	2.3	0	6.7	-1	0.9	-1	0.335	0	2.481	0	7.403	1	1548	36	1.3
43140.4	10000	41.1463	93.5121	-1136	QKA	2.1	-1	6.6	-1	0.9	-1	0.323	0	2.376	0	7.354	1	1518	48	1.3
43140.5	10000	41.1469	93.5121	-1137	QKA	2.1	-1	6.7	-1	0.9	-1	0.317	0	2.341	0	7.396	1	1526	53	1.3
43140.6	10000	41.1475	93.5121	-1136	QKA	2.3	0	6.6	-1	0.9	-1	0.352	0	2.538	1	7.215	1	1543	37	1.3
43140.7	10000	41.1481	93.5122	-1136	QKA	2.4	0	6.4	-1	0.9	-1	0.379	1	2.762	1	7.289	1	1550	40	1.3
43140.8	10000	41.1487	93.5122	-1136	QKA	2.5	0	6.5	-1	0.9	-1	0.379	1	2.808	1	7.414	1	1560	41	1.3
43140.9	10000	41.1493	93.5122	-1137	QKA	2.3	0	6.8	-1	0.9	-2	0.340	1	2.721	1	8.010	2	1573	31	1.3
43141.0	10000	41.1499	93.5122	-1137	QKA	2.3	0	7.0	-1	0.8	-2	0.332	1	2.826	1	8.508	2	1575	43	1.3
43141.1	10000	41.1505	93.5123	-1137	QKA	2.3	0	7.4	-1	0.8	-2	0.314	1	2.881	1	9.165	3	1581	41	1.3
43141.2	10000	41.1512	93.5123	-1138	QKA	2.2	0	7.2	-1	0.8	-2	0.307	0	2.647	1	8.634	2	1581	39	1.3
43141.3	10000	41.1518	93.5123	-1138	QKA	2.1	-1	7.3	0	0.8	-2	0.284	-1	2.471	1	8.691	2	1583	52	1.3
43141.4	10000	41.1524	93.5123	-1138	QKA	1.9	-1	7.8	1	0.9	-1	0.242	-1	2.094	0	8.669	2	1579	54	1.3
43141.5	10000	41.1530	93.5123	-1139	QKA	2.0	-1	7.6	1	1.0	-1	0.259	-1	2.063	0	7.954	2	1599	33	1.3
43141.6	10000	41.1536	93.5124	-1139	QKA	2.2	0	7.8	1	1.0	0	0.281	-1	2.141	0	7.624	1	1630	40	1.3
43141.7	10000	41.1542	93.5124	-1139	QKA	1.9	-1	7.9	1	1.1	0	0.238	-1	1.749	-1	7.341	1	1647	52	1.3
43141.8	10000	41.1548	93.5124	-1139	QKA	1.7	-1	7.6	1	1.1	0	0.227	-2	1.541	-1	6.781	0	1669	53	1.3
43141.9	10000	41.1554	93.5124	-1138	QKA	1.7	-2	7.7	1	1.1	0	0.216	-2	1.466	-2	6.787	0	1688	49	1.3
43142.0	10000	41.1560	93.5125	-1137	QKA	1.7	-1	7.8	1	1.2	1	0.216	-2	1.449	-2	6.702	0	1702	40	1.3
43142.1	10000	41.1566	93.5125	-1140	QKA	2.0	-1	7.6	1	1.2	1	0.264	-1	1.730	-1	6.549	0	1711	45	1.3
43142.2	10000	41.1572	93.5125	-1142	QKA	1.8	-1	7.7	1	1.2	1	0.231	-2	1.523	-1	6.591	0	1706	48	1.3
43142.3	10000	41.1578	93.5125	-1142	QKA	1.5	-2	7.2	1	1.2	1	0.214	-2	1.308	-2	6.112	-1	1700	40	1.3
43142.4	10000	41.1585	93.5125	-1142	QKA	1.7	-2	7.0	1	1.2	1	0.238	-1	1.430	-2	5.998	-1	1695	46	1.3
43142.5	10000	41.1591	93.5126	-1141	QKA	1.8	-1	6.6	1	1.2	1	0.277	-1	1.563	-1	5.635	-1	1689	45	1.3
43142.6	10000	41.1597	93.5126	-1141	QKA	2.0	-1	6.8	1	1.2	1	0.302	-1	1.739	-1	5.[illegible]	-1	1699	51	1.3
43142.7	10000	41.1603	93.5126	-1140	QKA	2.2	0	6.8	1	1.2	1	0.319	0	1.791	-1	5.612	-1	1715	42	1.3
43142.8	10000	41.1609	93.5126	-1138	QKA	2.0	-1	6.9	1	1.2	1	0.286	-1	1.695	-1	5.921	-1	1733	52	1.3
43142.9	10000	41.1615	93.5127	-1137	QKA	2.0	-1	6.8	1	1.2	1	0.289	-1	1.693	-1	5.852	-1	1755	41	1.3
43143.0	10000	41.1621	93.5127	-1134	QKA	2.2	0	6.9	1	1.1	0	0.325	0	1.963	-1	6.039	-1	1771	37	1.3
43143.1	10000	41.1627	93.5127	-1140	QKA	2.7	1	7.0	0	1.2	1	0.382	1	2.275	0	5.953	-1	1795	49	1.3

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43143.2	10000	41.1633	93.5127	-1143	QKA	2.7	1	7.3	0	1.1	0	0.376	1	2.452	0	6.517	0	1800	53	1.3
43143.3	10000	41.1639	93.5128	-1143	QKA	2.7	1	7.1	0	1.1	0	0.373	1	2.405	0	6.446	0	1786	43	1.3
43143.4	10000	41.1645	93.5128	-1143	QKA	2.6	0	6.8	0	1.1	0	0.379	1	2.357	0	6.218	-1	1767	36	1.3
43143.5	10000	41.1651	93.5128	-1144	QKA	2.8	1	6.9	0	1.1	0	0.406	1	2.525	1	6.212	-1	1753	66	1.3
43143.6	10000	41.1657	93.5128	-1144	QKA	2.7	1	7.0	0	1.1	0	0.392	1	2.562	1	6.538	0	1727	42	1.3
43143.7	10000	41.1664	93.5128	-1144	QKA	2.4	0	7.0	0	1.1	0	0.338	0	2.253	0	6.675	0	1699	48	1.3
43143.8	10000	41.1670	93.5129	-1144	QKA	2.1	-1	6.9	0	1.0	0	0.309	0	2.067	0	6.688	0	1667	39	1.3
43143.9	10000	41.1676	93.5129	-1145	QKA	2.1	-1	6.7	-1	1.0	0	0.315	0	2.075	0	6.589	0	1635	45	1.3
43144.0	10000	41.1682	93.5129	-1145	QKA	2.1	-1	6.5	-1	1.0	0	0.327	0	2.065	0	6.316	0	1609	61	1.3
43144.1	10000	41.1688	93.5129	-1146	QKA	2.1	-1	6.7	-1	1.0	-1	0.304	0	2.063	0	6.779	0	1600	50	1.3
43144.2	10000	41.1694	93.5130	-1146	QKA	1.7	-1	6.6	-1	1.0	-1	0.265	-1	1.770	-1	6.674	0	1584	47	1.3
43144.3	10000	41.1700	93.5130	-1147	QKA	1.9	-1	6.4	-1	1.0	-1	0.293	-1	1.905	-1	6.506	0	1570	43	1.3
43144.4	10000	41.1706	93.5130	-1147	QKA	2.1	-1	6.5	-1	1.0	-1	0.315	0	2.111	0	6.693	0	1563	38	1.3
43144.5	10000	41.1712	93.5130	-1148	QKA	1.9	-1	6.7	-1	0.9	-1	0.289	-1	2.080	0	7.205	1	1552	39	1.3
43144.6	10000	41.1718	93.5130	-1149	QKA	1.7	-1	6.9	0	0.9	-1	0.246	-1	1.864	-1	7.563	1	1554	41	1.3
43144.7	10000	41.1724	93.5131	-1150	QKA	1.7	-2	7.2	0	0.9	-1	0.231	-2	1.833	-1	7.941	2	1558	42	1.3
43144.8	10000	41.1731	93.5131	-1150	QKA	1.7	-2	7.2	0	0.9	-1	0.232	-2	1.890	-1	8.148	2	1549	40	1.3
43144.9	10000	41.1737	93.5131	-1149	QKA	1.7	-1	6.7	-1	0.9	-2	0.258	-1	1.996	-1	7.743	1	1543	54	1.3
43145.0	10000	41.1743	93.5131	-1150	QKA	1.6	-2	6.9	0	0.9	-2	0.235	-1	1.875	-1	7.981	2	1543	55	1.3
43145.1	10000	41.1749	93.5132	-1150	QKA	1.6	-2	6.9	0	0.9	-1	0.225	-2	1.778	-1	7.903	2	1554	45	1.4
43145.2	10000	41.1755	93.5132	-1149	QKA	1.7	-2	6.8	0	0.9	-1	0.245	-1	1.854	-1	7.552	1	1571	40	1.4
43145.3	10000	41.1761	93.5132	-1149	QKA	1.8	-1	6.7	-1	0.9	-1	0.277	-1	1.974	-1	7.119	1	1592	42	1.4
43145.4	10000	41.1767	93.5132	-1148	QKA	1.8	-1	6.9	0	0.9	-1	0.261	-1	1.911	-1	7.321	1	1596	45	1.4
43145.5	10000	41.1773	93.5132	-1148	QKA	1.9	-1	6.9	0	0.9	-1	0.279	-1	2.036	0	7.297	1	1611	54	1.4
43145.6	10000	41.1779	93.5133	-1149	QKA	2.0	-1	7.0	0	1.0	-1	0.279	-1	1.986	-1	7.107	1	1615	50	1.4
43145.7	10000	41.1785	93.5133	-1148	QKA	1.9	-1	6.9	0	1.0	-1	0.273	-1	1.919	-1	7.041	0	1628	45	1.4
43145.8	10000	41.1791	93.5133	-1147	QKA	2.1	-1	6.8	0	1.0	-1	0.309	0	2.107	0	6.813	0	1634	50	1.4
43145.9	10000	41.1797	93.5133	-1146	QKA	1.9	-1	6.7	-1	1.0	0	0.276	-1	1.809	-1	6.566	0	1617	47	1.4
43146.0	10000	41.1804	93.5134	-1145	QKA	1.7	-2	6.9	0	1.0	0	0.242	-1	1.602	-1	6.625	0	1588	46	1.4
43146.1	10000	41.1810	93.5134	-1144	QKA	1.7	-2	6.8	0	1.0	0	0.242	-1	1.614	-1	6.667	0	1587	46	1.4
43146.2	10000	41.1816	93.5134	-1143	QKA	1.3	-2	6.9	0	1.0	0	0.189	-2	1.287	-2	6.826	0	1574	34	1.4
43146.3	10000	41.1822	93.5134	-1142	QKA	1.3	-2	7.0	0	1.0	0	0.188	-2	1.295	-2	6.887	0	1592	38	1.4
43146.4	10000	41.1828	93.5135	-1141	QKA	1.3	-2	7.1	0	1.1	0	0.189	-2	1.270	-2	6.710	0	1607	42	1.4
43146.5	10000	41.1834	93.5135	-1139	QKA	1.4	-2	7.3	0	1.1	0	0.193	-2	1.273	-2	6.582	0	1628	30	1.4
43146.6	10000	41.1840	93.5135	-1137	QKA	1.4	-2	7.4	0	1.1	0	0.186	-2	1.256	-2	6.749	0	1642	47	1.4
43146.7	10000	41.1846	93.5135	-1136	QKA	1.4	-2	7.6	1	1.1	0	0.183	-2	1.211	-2	6.625	0	1681	42	1.4
43146.8	10000	41.1852	93.5135	-1136	QKA	1.6	-2	7.4	0	1.1	1	0.211	-2	1.354	-2	6.420	0	1701	31	1.4
43146.9	10000	41.1858	93.5136	-1134	QKA	1.9	-1	7.2	0	1.1	0	0.265	-1	1.681	-1	6.349	0	1701	43	1.4
43147.0	10000	41.1864	93.5136	-1133	QKA	1.9	-1	7.2	0	1.1	0	0.265	-1	1.678	-1	6.336	0	1690	48	1.4
43147.1	10000	41.1870	93.5136	-1132	QKA	2.0	-1	6.9	0	1.1	0	0.293	-1	1.871	-1	6.383	0	1663	41	1.4
43147.2	10000	41.1877	93.5136	-1131	QKA	1.8	-1	6.8	0	1.0	0	0.261	-1	1.712	-1	6.562	0	1629	43	1.4
43147.3	10000	41.1883	93.5137	-1130	QKA	2.0	-1	6.8	0	1.0	0	0.292	-1	1.890	-1	6.468	0	1622	50	1.4
43147.4	10000	41.1889	93.5137	-1128	QKA	2.1	-1	6.5	-1	1.0	-1	0.321	0	2.158	0	6.714	0	1605	51	1.4
43147.5	10000	41.1895	93.5137	-1127	QKA	2.2	0	6.6	-1	1.0	-1	0.338	0	2.244	0	6.636	0	1613	48	1.4
43147.6	10000	41.1901	93.5137	-1125	QKA	2.2	0	7.1	0	1.0	0	0.306	0	2.088	0	6.834	0	1653	49	1.4
43147.7	10000	41.1907	93.5137	-1124	QKA	2.3	0	6.9	0	1.0	0	0.325	0	2.187	0	6.727	0	1689	39	1.4
43147.8	10000	41.1913	93.5138	-1122	QKA	2.4	0	7.6	1	1.1	0	0.324	0	2.289	0	7.068	0	1724	55	1.4
43147.9	10000	41.1919	93.5138	-1120	QKA	2.7	1	7.6	1	1.1	0	0.350	0	2.412	0	6.883	0	1754	45	1.4
43148.0	10000	41.1925	93.5138	-1119	QKA	2.7	1	7.6	1	1.1	0	0.352	0	2.365	0	6.714	0	1780	40	1.4
43148.1	10000	41.1931	93.5138	-1117	QKA	2.6	1	7.8	1	1.2	1	0.335	0	2.188	0	6.536	0	1806	43	1.4
43148.2	10000	41.1937	93.5139	-1116	QKA	2.4	0	8.1	1	1.2	1	0.299	-1	2.000	-1	6.694	0	1816	50	1.4
43148.3	10000	41.1944	93.5139	-1114	QKA	2.6	0	7.6	1	1.2	1	0.334	0	2.085	0	6.247	-1	1816	47	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43148.4	10000	41.1949	93.5139	-1112	QKA	2.4	0	8.0	1	1.2	1	0.303	-1	1.998	-1	6.597	0	1809	43	1.4
43148.5	10000	41.1956	93.5139	-1110	QKA	2.4	0	7.6	1	1.2	1	0.317	0	1.984	-1	6.263	-1	1801	56	1.4
43148.6	10000	41.1962	93.5139	-1107	QKA	2.3	0	7.5	0	1.2	1	0.309	0	1.923	-1	6.215	-1	1788	39	1.4
43148.7	10000	41.1968	93.5140	-1104	QKA	2.2	0	7.5	0	1.2	1	0.290	-1	1.874	-1	6.456	0	1779	40	1.4
43148.8	10000	41.1974	93.5140	-1104	QKA	2.3	0	7.6	1	1.1	1	0.299	-1	1.967	-1	6.586	0	1753	44	1.4
43148.9	10000	41.1980	93.5140	-1103	QKA	2.2	0	7.1	0	1.2	1	0.314	0	1.915	-1	6.109	-1	1739	36	1.4
43149.0	10000	41.1986	93.5140	-1101	QKA	2.0	-1	7.1	0	1.1	0	0.276	-1	1.733	-1	6.277	-1	1707	57	1.4
43149.1	10000	41.1992	93.5141	-1099	QKA	1.8	-1	7.3	0	1.1	0	0.245	-1	1.578	-1	6.437	0	1680	52	1.4
43149.2	10000	41.1998	93.5141	-1097	QKA	1.7	-1	7.0	0	1.1	0	0.241	-1	1.521	-1	6.312	0	1666	48	1.4
43149.3	10000	41.2004	93.5141	-1095	QKA	1.6	-2	7.2	0	1.1	0	0.215	-2	1.454	-2	6.753	0	1646	46	1.4
43149.4	10000	41.2010	93.5141	-1093	QKA	1.6	-2	7.0	0	1.1	0	0.228	-2	1.473	-2	6.453	0	1629	41	1.4
43149.5	10000	41.2016	93.5142	-1091	QKA	1.6	-2	6.7	-1	1.1	0	0.243	-1	1.492	-2	6.152	-1	1623	45	1.4
43149.6	10000	41.2023	93.5142	-1089	QKA	1.5	-2	6.7	-1	1.1	0	0.222	-2	1.357	-2	6.107	-1	1605	42	1.4
43149.7	10000	41.2029	93.5142	-1088	QKA	1.7	-1	6.9	0	1.1	0	0.252	-1	1.565	-1	6.222	-1	1607	48	1.4
43149.8	10000	41.2035	93.5142	-1086	QKA	2.0	-1	6.6	-1	1.1	0	0.298	-1	1.832	-1	6.152	-1	1585	37	1.4
43149.9	10000	41.2041	93.5143	-1085	QKA	1.9	-1	6.6	-1	1.1	0	0.287	-1	1.695	-1	5.913	-1	1572	41	1.4
43150.0	10000	41.2047	93.5143	-1082	QKA	2.0	-1	6.3	-1	1.1	0	0.311	0	1.722	-1	5.542	-1	1574	41	1.4
43150.1	10000	41.2053	93.5143	-1080	QKA	1.8	-1	6.4	-1	1.1	0	0.284	-1	1.653	-1	5.813	-1	1554	50	1.4
43150.2	10000	41.2059	93.5143	-1078	QKA	1.7	-1	6.5	-1	1.1	0	0.258	-1	1.540	-1	5.977	-1	1554	49	1.4
43150.3	10000	41.2065	93.5143	-1077	QKA	2.0	-1	6.6	-1	1.0	-1	0.307	0	2.002	0	6.518	0	1545	55	1.4
43150.4	10000	41.2072	93.5143	-1077	QKA	1.9	-1	6.3	-1	1.0	-1	0.306	0	1.992	-1	6.503	0	1544	44	1.4
43150.5	10000	41.2078	93.5143	-1076	QKA	1.8	-1	6.6	-1	1.0	-1	0.278	-1	1.821	-1	6.540	0	1564	49	1.4
43150.6	10000	41.2084	93.5143	-1075	QKA	1.6	-2	6.8	0	1.0	-1	0.237	-1	1.667	-1	7.025	0	1563	42	1.4
43150.7	10000	41.2091	93.5143	-1073	QKA	1.8	-1	6.8	0	0.9	-1	0.258	-1	1.862	-1	7.214	1	1569	50	1.4
43150.8	10000	41.2097	93.5143	-1072	QKA	1.8	-1	6.9	0	1.0	-1	0.264	-1	1.906	-1	7.223	1	1582	43	1.4
43150.9	10000	41.2103	93.5143	-1071	QKA	1.9	-1	6.8	0	0.9	-1	0.277	-1	2.021	0	7.290	1	1571	46	1.4
43151.0	10000	41.2110	93.5143	-1070	QKA	1.7	-1	6.7	-1	0.9	-1	0.260	-1	1.871	-1	7.187	1	1576	38	1.4
43151.1	10000	41.2116	93.5143	-1069	QKA	1.7	-1	7.2	0	0.9	-1	0.242	-1	1.897	-1	7.847	1	1570	49	1.4
43151.2	10000	41.2122	93.5143	-1068	QKA	1.8	-1	7.1	0	0.9	-1	0.253	-1	1.970	-1	7.772	1	1573	53	1.4
43151.3	10000	41.2129	93.5143	-1066	QKA	2.0	-1	7.1	0	0.9	-1	0.279	-1	2.188	0	7.828	1	1572	30	1.4
43151.4	10000	41.2135	93.5143	-1065	QKA	2.0	-1	7.3	0	0.9	-1	0.274	-1	2.184	0	7.964	2	1575	41	1.4
43151.5	10000	41.2141	93.5143	-1064	QKA	2.1	-1	7.1	0	0.9	-1	0.290	-1	2.310	0	7.956	2	1591	46	1.4
43151.6	10000	41.2148	93.5143	-1063	QKA	2.2	0	7.3	0	0.9	-1	0.299	-1	2.383	0	7.973	2	1620	44	1.4
43151.7	10000	41.2154	93.5143	-1062	QKA	2.1	-1	7.6	1	0.9	-1	0.279	-1	2.232	0	7.998	2	1635	44	1.4
43151.8	10000	41.2160	93.5143	-1061	QKA	2.2	0	7.1	0	1.0	-1	0.315	0	2.301	1	7.315	1	1661	33	1.4
43151.9	10000	41.2167	93.5143	-1060	QKA	2.2	0	7.2	0	1.0	-1	0.309	0	2.279	1	7.385	1	1670	53	1.4
43152.0	10000	41.2173	93.5144	-1058	QKA	2.2	0	7.5	0	1.0	0	0.297	-1	2.149	0	7.231	1	1688	50	1.4
43152.1	10000	41.2179	93.5144	-1058	QKA	2.1	-1	7.3	0	1.0	0	0.291	-1	2.059	0	7.081	0	1694	43	1.4
43152.2	10000	41.2186	93.5144	-1057	QKA	2.1	-1	7.5	0	1.1	0	0.283	-1	1.971	-1	6.965	0	1689	48	1.4
43152.3	10000	41.2192	93.5144	-1057	QKA	2.0	-1	7.5	1	1.1	0	0.270	-1	1.868	-1	6.915	0	1689	50	1.4
43152.4	10000	41.2198	93.5144	-1056	QKA	2.1	-1	7.3	0	1.1	0	0.280	-1	1.833	-1	6.544	0	1688	50	1.4
43152.5	10000	41.2205	93.5144	-1056	QKA	1.9	-1	7.4	0	1.2	1	0.261	-1	1.612	-1	6.173	-1	1685	40	1.4
43152.6	10000	41.2211	93.5144	-1056	QKA	1.9	-1	7.0	0	1.2	1	0.269	-1	1.591	-1	5.912	-1	1693	49	1.4
43152.7	10000	41.2217	93.5144	-1055	QKA	2.0	-1	6.9	-1	1.2	1	0.287	-1	1.689	-1	5.880	-1	1698	34	1.4
43152.8	10000	41.2224	93.5144	-1055	QKA	2.1	-1	7.1	-1	1.2	1	0.293	-1	1.734	-1	5.929	-1	1702	43	1.4
43152.9	10000	41.2230	93.5144	-1055	QKA	2.2	0	7.0	0	1.2	1	0.319	0	1.903	-1	5.957	-1	1716	49	1.3
43153.0	10000	41.2236	93.5144	-1055	QKA	2.2	0	7.1	0	1.1	0	0.314	0	1.960	-1	6.235	-1	1720	37	1.3
43153.1	10000	41.2243	93.5144	-1054	QKA	2.2	0	7.6	1	1.1	0	0.291	-1	2.011	0	6.911	0	1723	38	1.3
43153.2	10000	41.2249	93.5144	-1054	QKA	2.2	0	7.5	1	1.0	0	0.297	-1	2.168	0	7.293	1	1709	50	1.3
43153.3	10000	41.2255	93.5144	-1053	QKA	2.3	0	7.8	1	1.0	0	0.288	-1	2.159	0	7.499	1	1722	48	1.3
43153.4	10000	41.2262	93.5144	-1053	QKA	2.3	0	8.2	1	1.0	0	0.284	-1	2.249	0	7.919	2	1724	48	1.3
43153.5	10000	41.2268	93.5144	-1052	QKA	2.4	0	8.0	1	1.1	0	0.293	-1	2.227	0	7.593	1	1742	56	1.3

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43153.6	10000	41.2274	93.5144	-1052	QKA	2.3	0	8.0	1	1.1	0	0.286	-1	2.071	0	7.252	1	1746	45	1.3
43153.7	10000	41.2281	93.5144	-1052	QKA	2.4	0	7.8	1	1.1	0	0.302	-1	2.169	0	7.192	1	1745	42	1.3
43153.8	10000	41.2287	93.5144	-1052	QKA	2.5	0	7.5	1	1.1	0	0.335	0	2.324	0	6.941	0	1757	41	1.3
43153.9	10000	41.2293	93.5144	-1052	QKA	2.5	0	7.7	1	1.1	0	0.319	0	2.229	0	6.986	0	1778	48	1.3
43154.0	10000	41.2300	93.5144	-1052	QKA	2.7	1	7.6	1	1.1	0	0.358	0	2.489	0	6.946	0	1775	49	1.3
43154.1	10000	41.2306	93.5144	-1052	QKA	2.7	1	7.6	1	1.1	0	0.350	0	2.349	0	6.719	0	1783	44	1.3
43154.2	10000	41.2312	93.5144	-1052	QKA	2.8	1	7.4	0	1.1	0	0.377	1	2.632	1	6.978	0	1761	26	1.3
43154.3	10000	41.2318	93.5144	-1052	QKA	2.8	1	8.0	1	1.0	0	0.352	0	2.685	1	7.626	1	1777	56	1.3
43154.4	10000	41.2325	93.5144	-1053	QKA	2.8	1	7.9	1	1.1	0	0.361	0	2.651	1	7.335	1	1786	60	1.3
43154.5	10000	41.2331	93.5144	-1053	QKA	2.9	1	7.8	1	1.1	0	0.372	0	2.699	1	7.256	1	1784	51	1.3
43154.6	10000	41.2337	93.5144	-1054	QKA	2.9	1	7.6	1	1.0	0	0.385	1	2.789	1	7.242	1	1772	53	1.3
43154.7	10000	41.2344	93.5144	-1054	QKA	2.7	1	7.5	0	1.0	0	0.363	0	2.619	1	7.214	1	1773	48	1.3
43154.8	10000	41.2350	93.5144	-1055	QKA	2.9	1	7.1	0	1.0	0	0.414	1	2.871	1	6.942	0	1783	37	1.3
43154.9	10000	41.2356	93.5144	-1056	QKA	2.9	1	7.4	0	1.1	0	0.398	1	2.727	1	6.858	0	1811	43	1.3
43155.0	10000	41.2363	93.5144	-1057	QKA	2.9	1	6.7	-1	1.1	0	0.431	1	2.583	1	5.992	-1	1815	45	1.3
43155.1	10000	41.2369	93.5144	-1058	QKA	3.0	1	7.0	0	1.1	0	0.429	1	2.647	1	6.178	-1	1826	47	1.3
43155.2	10000	41.2375	93.5144	-1059	QKA	3.0	1	7.0	0	1.2	1	0.432	1	2.577	1	5.960	-1	1845	54	1.3
43155.3	10000	41.2382	93.5144	-1059	QKA	3.1	1	7.0	0	1.2	1	0.446	2	2.599	1	5.831	-1	1877	43	1.3
43155.4	10000	41.2388	93.5144	-1060	QKA	3.3	2	7.0	0	1.2	1	0.470	2	2.695	1	5.731	-1	1900	40	1.3
43155.5	10000	41.2394	93.5144	-1061	QKA	3.2	2	7.2	0	1.2	1	0.447	2	2.651	1	5.926	-1	1903	38	1.3
43155.6	10000	41.2401	93.5144	-1062	QKA	3.2	2	7.1	0	1.2	1	0.446	2	2.593	1	5.820	-1	1900	39	1.3
43155.7	10000	41.2407	93.5144	-1063	QKA	3.2	2	7.6	1	1.2	1	0.416	1	2.670	1	6.411	0	1883	35	1.3
43155.8	10000	41.2413	93.5144	-1065	QKA	3.1	2	7.4	0	1.3	1	0.427	1	2.513	1	5.883	-1	1882	37	1.3
43155.9	10000	41.2420	93.5144	-1065	QKA	3.1	1	7.6	1	1.2	1	0.413	1	2.568	1	6.225	-1	1891	44	1.3
43156.0	10000	41.2426	93.5144	-1066	QKA	3.0	1	7.8	1	1.2	1	0.392	1	2.443	0	6.232	-1	1891	36	1.3
43156.1	10000	41.2432	93.5144	-1067	QKA	2.8	1	7.7	1	1.2	1	0.360	0	2.245	0	6.240	-1	1885	48	1.3
43156.2	10000	41.2439	93.5145	-1069	QKA	2.7	1	8.0	1	1.2	1	0.341	0	2.190	0	6.414	0	1883	56	1.2
43156.3	10000	41.2445	93.5145	-1070	QKA	2.9	1	8.0	1	1.2	1	0.359	0	2.346	0	6.541	0	1892	49	1.2
43156.4	10000	41.2451	93.5145	-1071	QKA	2.8	1	7.9	1	1.2	1	0.349	0	2.296	0	6.575	0	1896	43	1.2
43156.5	10000	41.2458	93.5145	-1072	QKA	2.8	1	8.6	2	1.2	1	0.320	0	2.289	0	7.163	1	1913	29	1.2
43156.6	10000	41.2464	93.5145	-1073	QKA	2.8	1	8.8	2	1.2	1	0.321	0	2.281	1	7.112	1	1908	44	1.2
43156.7	10000	41.2470	93.5145	-1074	QKA	2.9	1	8.8	2	1.2	1	0.332	0	2.445	1	7.370	1	1894	49	1.2
43156.8	10000	41.2477	93.5145	-1073	QKA	2.7	1	8.9	2	1.2	1	0.303	-1	2.225	1	7.341	1	1875	38	1.2
43156.9	10000	41.2483	93.5145	-1071	QKA	3.0	1	8.9	2	1.2	1	0.334	0	2.522	1	7.556	1	1868	43	1.2
43157.0	10000	41.2489	93.5145	-1073	QKA	2.6	0	9.1	2	1.2	1	0.282	-1	2.095	1	7.437	1	1850	42	1.2
43157.1	10000	41.2496	93.5145	-1076	QKA	2.7	1	9.0	2	1.3	1	0.296	-1	2.111	1	7.133	1	1843	36	1.2
43157.2	10000	41.2502	93.5145	-1080	QKA	2.7	1	8.6	2	1.2	1	0.314	0	2.199	1	7.003	0	1826	42	1.2
43157.3	10000	41.2508	93.5145	-1082	QKA	2.7	1	8.4	2	1.2	1	0.324	0	2.254	0	6.963	0	1805	48	1.2
43157.4	10000	41.2515	93.5145	-1083	QKA	2.8	1	8.5	2	1.2	1	0.325	0	2.318	1	7.144	1	1804	62	1.2
43157.5	10000	41.2521	93.5145	-1085	QKA	2.8	2	8.5	2	1.2	1	0.376	0	2.688	1	7.152	1	1808	44	1.2
43157.6	10000	41.2527	93.5145	-1087	QKA	2.8	2	8.1	2	1.3	1	0.347	0	2.249	1	6.473	0	1817	52	1.2
43157.7	10000	41.2534	93.5145	-1089	QKA	3.1	2	8.0	2	1.2	1	0.390	1	2.621	1	6.715	0	1817	45	1.2
43157.8	10000	41.2540	93.5145	-1091	QKA	3.4	2	8.2	2	1.2	1	0.421	1	2.952	1	7.011	0	1827	36	1.2
43157.9	10000	41.2546	93.5145	-1094	QKA	3.3	2	8.4	2	1.2	1	0.389	1	2.845	1	7.315	1	1827	38	1.2
43158.0	10000	41.2553	93.5145	-1098	QKA	3.2	2	8.5	2	1.1	0	0.381	1	2.851	1	7.478	1	1829	59	1.2
43158.1	10000	41.2559	93.5145	-1100	QAL	2.8	2	8.6	2	1.2	1	0.325	-1	2.299	1	7.063	1	1828	30	1.2
43158.2	10000	41.2565	93.5145	-1102	QAL	2.5	1	8.7	2	1.2	1	0.286	-1	2.045	1	7.144	1	1815	39	1.2
43158.3	10000	41.2572	93.5145	-1104	QAL	2.6	0	9.0	2	1.2	1	0.293	-1	2.216	1	7.576	2	1796	48	1.2
43158.4	10000	41.2578	93.5145	-1105	QAL	2.5	0	8.9	2	1.2	1	0.286	-1	2.139	1	7.480	2	1784	44	1.2
43158.5	10000	41.2584	93.5145	-1108	QAL	2.2	0	8.5	2	1.2	1	0.261	-1	1.833	-1	7.035	1	1759	46	1.2
43158.6	10000	41.2591	93.5145	-1110	QAL	2.2	0	8.0	1	1.2	1	0.274	-1	1.798	-1	6.571	1	1742	58	1.2
43158.7	10000	41.2597	93.5145	-1112	QAL	2.1	-1	7.6	1	1.2	1	0.271	-1	1.643	-1	6.060	0	1732	41	1.2

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43158.8	10000	41.2603	93.5145	-1114	QAL	2.3	0	7.1	0	1.2	1	0.323	-1	1.935	-1	5.983	0	1709	52	1.2
43158.9	10000	41.2610	93.5145	-1116	QAL	2.8	1	7.2	1	1.2	1	0.384	0	2.380	0	6.190	0	1721	33	1.2
43159.0	10000	41.2616	93.5145	-1117	QAL	2.7	0	7.0	0	1.1	1	0.380	0	2.319	0	6.109	0	1730	43	1.2
43159.1	10000	41.2622	93.5145	-1119	QAL	2.4	0	6.6	0	1.2	1	0.372	0	2.071	0	5.562	-1	1705	36	1.2
43159.2	10000	41.2628	93.5145	-1122	QAL	2.5	0	6.9	0	1.1	0	0.357	0	2.182	0	6.112	0	1710	41	1.2
43159.3	10000	41.2635	93.5145	-1124	QAL	2.5	0	7.3	1	1.1	0	0.339	0	2.167	0	6.385	0	1708	46	1.2
43159.4	10000	41.2641	93.5145	-1126	QKA	2.5	0	7.1	0	1.1	0	0.358	0	2.276	0	6.354	0	1711	41	1.2
43159.5	10000	41.2647	93.5145	-1127	QKA	2.6	0	7.3	0	1.1	0	0.354	0	2.320	0	6.549	0	1721	45	1.2
43159.6	10000	41.2654	93.5145	-1129	QKA	2.3	0	6.9	0	1.2	1	0.330	0	1.954	-1	5.914	-1	1733	35	1.2
43159.7	10000	41.2660	93.5145	-1131	QKA	2.3	0	7.2	0	1.2	1	0.317	0	1.859	-1	5.857	-1	1746	52	1.2
43159.8	10000	41.2667	93.5145	-1132	QKA	2.6	0	7.6	1	1.2	1	0.339	0	2.126	0	6.262	-1	1795	55	1.2
43159.9	10000	41.2673	93.5145	-1135	QKA	2.7	1	7.5	1	1.3	1	0.355	0	2.126	0	5.991	-1	1813	39	1.1
43160.0	10000	41.2679	93.5145	-1138	QKA	2.8	1	7.4	0	1.3	1	0.378	1	2.204	0	5.834	-1	1831	40	1.1
43160.1	10000	41.2686	93.5145	-1141	QKA	2.8	1	7.7	1	1.3	2	0.363	0	2.172	0	5.984	-1	1845	46	1.1
43160.2	10000	41.2692	93.5145	-1144	QKA	2.9	1	7.7	1	1.3	1	0.380	1	2.282	0	6.006	-1	1855	52	1.1
43160.3	10000	41.2698	93.5145	-1145	QKA	3.1	1	7.6	1	1.3	1	0.406	1	2.458	0	6.053	-1	1849	44	1.2
43160.4	10000	41.2704	93.5145	-1147	QKA	3.2	2	7.4	0	1.2	1	0.429	1	2.641	1	6.152	-1	1842	43	1.1
43160.5	10000	41.2711	93.5145	-1149	QKA	3.0	1	7.4	0	1.2	1	0.402	1	2.447	0	6.084	-1	1821	48	1.1
43160.6	10000	41.2717	93.5145	-1151	QKA	3.1	1	7.3	0	1.2	1	0.423	1	2.649	1	6.258	-1	1817	45	1.1
43160.7	10000	41.2723	93.5145	-1154	QKA	3.1	1	7.3	0	1.1	0	0.421	1	2.790	1	6.629	0	1803	40	1.1
43160.8	10000	41.2730	93.5145	-1156	QKA	3.2	2	7.4	0	1.0	0	0.431	1	3.050	2	7.083	0	1779	36	1.1
43160.9	10000	41.2736	93.5145	-1158	QKA	3.1	1	7.5	0	1.0	0	0.417	1	3.040	2	7.291	1	1754	48	1.1
43161.0	10000	41.2742	93.5145	-1161	QKA	3.0	1	7.6	1	0.9	-1	0.396	1	3.155	2	7.960	2	1743	45	1.1
43161.1	10000	41.2749	93.5146	-1163	QKA	3.1	1	7.5	0	0.9	-1	0.407	1	3.285	2	8.074	2	1716	51	1.1
43161.2	10000	41.2755	93.5146	-1165	QKA	3.3	2	7.4	0	0.9	-1	0.443	2	3.733	3	8.418	2	1717	49	1.1
43161.3	10000	41.2761	93.5146	-1166	QKA	3.3	2	7.2	0	0.9	-1	0.459	2	3.678	3	8.010	2	1701	45	1.1
43161.4	10000	41.2768	93.5146	-1168	QKA	3.4	2	6.9	0	0.9	-1	0.487	2	3.822	3	7.852	1	1717	53	1.1
43161.5	10000	41.2774	93.5146	-1170	QKA	3.2	2	7.0	0	1.0	-1	0.458	2	3.320	2	7.247	1	1732	45	1.1
43161.6	10000	41.2780	93.5146	-1171	QKA	3.2	2	6.9	0	1.0	-1	0.461	2	3.107	2	6.742	0	1756	45	1.1
43161.7	10000	41.2787	93.5146	-1172	QKA	3.1	1	6.9	0	1.1	-1	0.451	2	2.847	1	6.320	0	1764	41	1.1
43161.8	10000	41.2793	93.5146	-1174	QKA	2.9	1	6.8	0	1.1	0	0.426	1	2.546	0	5.976	-1	1794	52	1.1
43161.9	10000	41.2799	93.5146	-1175	QKA	2.6	1	7.2	0	1.2	1	0.365	1	2.222	0	6.096	-1	1801	49	1.1
43162.0	10000	41.2806	93.5146	-1176	QKA	2.3	1	7.4	0	1.2	1	0.310	0	1.910	-1	6.155	-1	1806	47	1.1
43162.1	10000	41.2812	93.5146	-1177	QKA	2.2	0	7.5	0	1.3	1	0.294	-1	1.751	-1	5.955	-1	1807	50	1.1
43162.2	10000	41.2818	93.5146	-1177	QKA	2.2	0	7.7	1	1.3	1	0.281	-1	1.702	-1	6.052	-1	1816	41	1.1
43162.3	10000	41.2825	93.5146	-1178	QKA	2.1	-1	8.0	1	1.3	2	0.262	-1	1.617	-1	6.170	-1	1823	48	1.1
43162.4	10000	41.2831	93.5146	-1178	QKA	2.2	0	7.9	1	1.3	1	0.274	-1	1.685	-1	6.141	-1	1810	48	1.1
43162.5	10000	41.2837	93.5146	-1179	QKA	2.3	0	8.4	2	1.3	1	0.275	-1	1.835	-1	6.682	0	1796	26	1.1
43162.6	10000	41.2844	93.5146	-1179	QKA	2.5	0	8.5	2	1.3	1	0.290	-1	1.934	-1	6.671	0	1802	49	1.1
43162.7	10000	41.2850	93.5146	-1179	QKA	2.5	0	8.9	2	1.3	1	0.277	-1	1.934	-1	6.977	0	1828	50	1.1
43162.8	10000	41.2856	93.5146	-1179	QKA	2.4	0	9.1	2	1.3	2	0.266	-1	1.868	-1	7.025	0	1839	47	1.1
43162.9	10000	41.2863	93.5146	-1180	QKA	2.4	0	9.1	2	1.3	2	0.261	-1	1.762	-1	6.746	0	1854	48	1.1
43163.0	10000	41.2869	93.5146	-1180	QKA	2.5	0	8.9	2	1.3	2	0.278	-1	1.872	-1	6.742	0	1863	41	1.1
43163.1	10000	41.2875	93.5146	-1180	QKA	2.5	0	9.3	2	1.3	2	0.273	-1	1.948	-1	7.131	1	1885	40	1.1
43163.2	10000	41.2882	93.5146	-1180	QKA	2.5	0	8.9	2	1.3	2	0.284	-1	1.899	-1	6.684	0	1899	45	1.1
43163.3	10000	41.2888	93.5146	-1180	QKA	2.5	0	8.6	2	1.3	2	0.297	-1	1.893	-1	6.375	0	1907	47	1.1
43163.4	10000	41.2894	93.5146	-1179	QKA	2.6	0	8.1	2	1.3	2	0.320	-1	1.889	-1	5.902	-1	1909	59	1.1
43163.5	10000	41.2901	93.5146	-1179	QKA	2.4	0	8.1	2	1.3	2	0.298	-1	1.785	-1	5.983	-1	1885	45	1.1
43163.6	10000	41.2907	93.5146	-1178	QKA	2.5	0	7.6	1	1.3	2	0.329	-1	1.969	-1	5.995	-1	1854	43	1.1
43163.7	10000	41.2913	93.5146	-1178	QKA	2.7	0	7.4	1	1.3	2	0.359	0	2.085	0	5.807	-1	1833	38	1.1
43163.8	10000	41.2920	93.5146	-1177	QKA	2.6	0	7.0	0	1.3	1	0.369	0	2.034	0	5.511	-1	1812	45	1.1
43163.9	10000	41.2926	93.5146	-1177	QKA	2.6	0	6.8	0	1.3	1	0.383	1	2.027	0	5.288	-2	1802	43	1.1

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43164.0	10000	41.2932	93.5146	-1176	QKA	2.5	0	6.6	-1	1.2	1	0.382	1	2.073	0	5.428	-2	1769	56	1.1
43164.1	10000	41.2939	93.5146	-1176	QKA	2.7	1	6.6	-1	1.1	0	0.413	1	2.386	0	5.772	-1	1739	48	1.1
43164.2	10000	41.2945	93.5146	-1175	QKA	3.1	1	6.5	-1	1.1	0	0.472	2	2.814	1	5.959	-1	1731	54	1.1
43164.3	10000	41.2951	93.5146	-1175	QKA	3.2	2	7.1	0	1.0	0	0.448	2	3.123	2	6.972	0	1732	42	1.1
43164.4	10000	41.2958	93.5146	-1174	QKA	3.2	2	7.3	0	1.0	0	0.445	2	3.194	2	7.176	1	1740	34	1.1
43164.5	10000	41.2964	93.5146	-1173	QKA	3.3	2	7.1	0	1.0	-1	0.464	2	3.262	2	7.028	0	1755	46	1.1
43164.6	10000	41.2970	93.5146	-1172	QKA	3.4	2	7.2	0	1.0	-1	0.475	2	3.508	3	7.380	1	1775	47	1.1
43164.7	10000	41.2977	93.5146	-1171	QKA	3.3	2	7.2	0	1.0	-1	0.454	2	3.266	2	7.200	1	1780	42	1.1
43164.8	10000	41.2983	93.5146	-1170	QKA	3.3	2	7.4	0	1.0	0	0.438	1	3.100	2	7.077	0	1800	47	1.1
43164.9	10000	41.2989	93.5146	-1169	QKA	2.9	1	7.6	1	1.1	0	0.386	1	2.654	1	6.880	0	1816	44	1.1
43165.0	10000	41.2996	93.5146	-1168	QKA	2.9	1	7.2	0	1.1	0	0.405	1	2.573	1	6.349	0	1840	37	1.1
43165.1	10000	41.3002	93.5146	-1167	QKA	2.8	1	7.1	0	1.1	0	0.392	1	2.458	0	6.264	-1	1839	43	1.1
43165.2	10000	41.3008	93.5146	-1167	QKA	3.0	1	7.6	1	1.2	1	0.395	1	2.585	1	6.545	0	1831	60	1.1
43165.3	10000	41.3014	93.5146	-1167	QKA	2.8	1	7.4	0	1.2	1	0.374	1	2.315	0	6.194	-1	1823	50	1.1
43165.4	10000	41.3020	93.5146	-1166	QKA	2.9	1	7.5	1	1.2	1	0.386	1	2.400	0	6.217	-1	1838	49	1.1
43165.5	10000	41.3026	93.5146	-1165	QKA	2.6	0	7.5	0	1.2	1	0.348	0	2.135	0	6.134	-1	1829	38	1.1
43165.6	10000	41.3032	93.5146	-1164	QKA	2.8	1	7.4	0	1.2	1	0.380	1	2.296	0	6.045	-1	1840	44	1.1
43165.7	10000	41.3038	93.5146	-1163	QKA	2.9	1	7.6	1	1.3	1	0.378	1	2.285	0	6.041	-1	1845	44	1.1
43165.8	10000	41.3044	93.5146	-1162	QKA	2.7	1	7.9	1	1.3	1	0.342	0	2.113	0	6.180	-1	1856	58	1.1
43165.9	10000	41.3050	93.5146	-1161	QKA	2.4	0	7.8	1	1.3	2	0.306	0	1.815	-1	5.928	-1	1882	39	1.1
43166.0	10000	41.3056	93.5146	-1160	QKA	2.4	0	8.0	1	1.3	2	0.301	-1	1.866	-1	6.195	-1	1885	33	1.1
43166.1	10000	41.3063	93.5146	-1158	QKA	2.3	0	8.3	2	1.3	2	0.276	-1	1.765	-1	6.394	0	1886	41	1.1
43166.2	10000	41.3069	93.5146	-1156	QKA	2.5	0	8.3	2	1.2	1	0.302	-1	2.015	0	6.664	0	1873	47	1.1
43166.3	10000	41.3075	93.5146	-1154	QKA	2.4	0	8.2	1	1.2	1	0.294	-1	1.998	-1	6.804	0	1860	45	1.1
43166.4	10000	41.3081	93.5146	-1154	QKA	2.2	0	8.3	1	1.2	1	0.268	-1	1.833	-1	6.828	0	1828	56	1.1
43166.5	10000	41.3087	93.5146	-1153	QKA	2.3	0	8.3	2	1.2	1	0.272	-1	1.924	-1	7.068	0	1814	46	1.1
43166.6	10000	41.3093	93.5146	-1151	QKA	2.4	0	8.6	2	1.1	0	0.281	-1	2.192	0	7.806	1	1790	37	1.1
43166.7	10000	41.3099	93.5146	-1150	QKA	2.4	0	8.7	2	1.1	0	0.271	-1	2.145	0	7.907	2	1778	43	1.1
43166.8	10000	41.3105	93.5146	-1148	QKA	2.5	0	8.4	2	1.1	0	0.294	-1	2.324	0	7.916	2	1754	37	1.1
43166.9	10000	41.3111	93.5146	-1146	QAL	2.5	0	8.6	2	1.1	0	0.290	-1	2.306	0	7.945	2	1754	46	1.1
43167.0	10000	41.3117	93.5146	-1145	QAL	2.6	0	8.4	2	1.1	0	0.304	-1	2.327	0	7.647	2	1739	41	1.1
43167.1	10000	41.3123	93.5146	-1144	QAL	2.5	0	7.8	1	1.1	0	0.323	-1	2.288	0	7.092	1	1737	47	1.1
43167.2	10000	41.3129	93.5146	-1142	QAL	2.6	0	7.7	1	1.1	0	0.335	-1	2.310	0	6.897	1	1735	53	1.1
43167.3	10000	41.3135	93.5146	-1141	QAL	2.4	0	7.7	1	1.1	0	0.311	-1	2.117	0	6.804	1	1733	55	1.1
43167.4	10000	41.3141	93.5146	-1140	QAL	2.4	0	7.4	1	1.1	0	0.325	-1	2.199	0	6.764	1	1730	55	1.1
43167.5	10000	41.3147	93.5146	-1139	QAL	2.5	0	7.6	1	1.1	0	0.328	-1	2.199	0	6.701	1	1732	57	1.1
43167.6	10000	41.3153	93.5146	-1138	QAL	2.5	0	7.7	1	1.1	0	0.326	-1	2.172	0	6.662	1	1737	38	1.1
43167.7	10000	41.3159	93.5146	-1138	QAL	2.5	0	7.6	1	1.1	0	0.325	-1	2.158	0	6.643	1	1754	40	1.1
43167.8	10000	41.3165	93.5146	-1137	QAL	2.7	1	8.1	1	1.2	1	0.331	-1	2.397	0	7.244	1	1770	45	1.1
43167.9	10000	41.3171	93.5146	-1137	QAL	2.7	1	8.0	1	1.1	1	0.331	-1	2.320	0	7.001	1	1768	42	1.1
43168.0	10000	41.3177	93.5146	-1136	QAL	2.9	1	7.6	1	1.2	1	0.378	0	2.444	0	6.472	0	1751	40	1.0
43168.1	10000	41.3183	93.5146	-1134	QAL	2.9	1	7.5	1	1.2	1	0.390	0	2.577	0	6.617	1	1732	34	1.0
43168.2	10000	41.3189	93.5146	-1134	QAL	2.7	1	7.0	1	1.1	1	0.389	0	2.458	0	6.322	0	1725	44	1.0
43168.3	10000	41.3195	93.5146	-1133	QAL	2.6	1	6.7	1	1.1	1	0.394	0	2.371	0	6.025	0	1717	39	1.0
43168.4	10000	41.3201	93.5146	-1132	QAL	2.6	1	6.4	1	1.1	1	0.404	0	2.295	0	5.682	-1	1716	47	1.0
43168.5	10000	41.3207	93.5146	-1131	QAL	2.5	1	6.6	1	1.1	1	0.388	0	2.200	0	5.674	-1	1721	50	1.0
43168.6	10000	41.3213	93.5146	-1130	QAL	2.6	1	6.5	1	1.1	1	0.408	0	2.298	0	5.629	-1	1747	37	1.0
43168.7	10000	41.3219	93.5146	-1130	QAL	2.5	1	6.6	1	1.1	1	0.379	0	2.061	0	5.434	-1	1782	49	1.0
43168.8	10000	41.3225	93.5146	-1128	QAL	2.6	1	6.8	1	1.1	1	0.382	0	2.010	-1	5.254	-1	1812	44	1.0
43168.9	10000	41.3231	93.5146	-1127	QAL	2.9	1	7.3	1	1.2	1	0.402	0	2.213	0	5.508	-1	1842	35	1.0
43169.0	10000	41.3237	93.5146	-1126	QAL	2.9	1	7.3	1	1.3	1	0.419	0	2.209	0	5.267	-1	1854	59	1.0
43169.1	10000	41.3243	93.5146	-1124	QAL	3.3	2	7.3	1	1.3	1	0.449	1	2.552	0	5.684	-1	1863	42	1.0

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43169.2	10000	41.3250	93.5146	-1124	QAL	3.0	1	7.6	1	1.3	1	0.400	0	2.389	0	5.977	0	1879	53	1.0
43169.3	10000	41.3256	93.5146	-1123	QAL	3.0	1	7.4	1	1.2	1	0.407	0	2.432	0	5.969	0	1862	47	1.0
43169.4	10000	41.3262	93.5146	-1121	QAL	3.2	1	7.8	1	1.2	1	0.407	0	2.551	0	6.265	0	1854	63	1.0
43169.5	10000	41.3268	93.5146	-1121	QAL	3.0	1	7.9	1	1.2	1	0.383	0	2.514	0	6.558	1	1845	53	1.0
43169.6	10000	41.3274	93.5146	-1119	QAL	2.9	1	7.7	1	1.2	1	0.375	0	2.392	0	6.381	0	1849	49	1.0
43169.7	10000	41.3280	93.5146	-1118	QAL	3.0	1	7.9	1	1.2	1	0.376	0	2.467	0	6.566	1	1856	37	1.0
43169.8	10000	41.3286	93.5146	-1117	QAL	2.6	0	8.2	2	1.2	1	0.313	-1	2.182	0	6.965	1	1846	43	1.0
43169.9	10000	41.3292	93.5146	-1116	QAL	2.8	1	8.1	2	1.2	1	0.342	0	2.340	0	6.846	1	1831	40	1.0
43170.0	10000	41.3298	93.5146	-1115	QAL	2.6	0	8.2	2	1.2	1	0.314	-1	2.145	0	6.832	1	1824	41	1.0
43170.1	10000	41.3304	93.5146	-1114	QAL	2.3	0	8.1	2	1.2	1	0.288	-1	2.020	-1	7.002	1	1806	42	1.0
43170.2	10000	41.3310	93.5146	-1113	QAL	2.4	0	8.0	2	1.2	1	0.295	-1	1.979	-1	6.705	1	1799	45	1.0
43170.3	10000	41.3316	93.5146	-1113	QAL	2.1	-1	8.1	2	1.2	1	0.264	-1	1.845	-1	7.000	1	1751	42	1.0
43170.4	10000	41.3322	93.5146	-1112	QAL	2.1	-1	8.6	2	1.2	1	0.244	-2	1.767	-1	7.249	1	1728	48	1.0
43170.5	10000	41.3328	93.5146	-1112	QAL	2.1	-1	8.3	2	1.2	1	0.255	-1	1.768	-1	6.928	1	1707	60	1.0
43170.6	10000	41.3334	93.5145	-1112	QAL	2.1	-1	8.1	1	1.2	1	0.258	-1	1.703	-1	6.590	1	1702	43	1.0
43170.7	10000	41.3340	93.5145	-1111	QAL	2.2	0	8.1	1	1.3	1	0.273	-1	1.761	-1	6.444	0	1713	40	1.0
43170.8	10000	41.3346	93.5145	-1111	QAL	2.5	0	7.6	1	1.3	1	0.327	-1	1.975	-1	6.044	0	1725	40	1.0
43170.9	10000	41.3352	93.5145	-1109	QAL	2.7	0	7.8	1	1.3	1	0.341	0	2.155	0	6.319	0	1753	36	1.0
43171.0	10000	41.3358	93.5145	-1108	QAL	2.9	1	7.7	1	1.2	1	0.372	0	2.243	0	6.028	0	1792	58	1.0
43171.1	10000	41.3364	93.5145	-1107	QAL	2.9	1	7.7	1	1.2	1	0.373	0	2.313	0	6.202	0	1816	40	1.0
43171.2	10000	41.3370	93.5145	-1105	QK	2.9	1	7.7	1	1.3	1	0.378	0	2.277	0	6.029	-1	1846	55	1.0
43171.3	10000	41.3376	93.5145	-1104	QK	2.9	1	7.9	1	1.3	1	0.372	0	2.348	0	6.313	0	1847	48	1.0
43171.4	10000	41.3382	93.5145	-1103	QK	3.0	1	8.4	2	1.2	1	0.353	0	2.475	0	7.015	1	1842	43	1.0
43171.5	10000	41.3388	93.5145	-1102	QK	2.8	1	8.8	2	1.2	1	0.324	0	2.320	0	7.155	1	1846	53	1.0
43171.6	10000	41.3394	93.5145	-1101	QK	2.6	0	8.2	1	1.2	1	0.320	0	2.173	0	6.793	0	1803	54	1.0
43171.7	10000	41.3400	93.5145	-1099	QK	2.6	0	7.7	1	1.2	1	0.337	0	2.152	0	6.786	0	1786	47	1.0
43171.8	10000	41.3406	93.5145	-1098	QK	2.6	0	7.9	1	1.2	1	0.339	0	2.130	0	6.281	0	1776	46	1.0
43171.9	10000	41.3412	93.5145	-1096	QK	2.6	0	7.9	1	1.2	1	0.332	0	2.101	0	6.333	0	1776	44	1.0
43172.0	10000	41.3418	93.5145	-1096	QK	2.5	0	7.8	1	1.2	1	0.324	0	2.054	0	6.340	0	1776	44	1.0
43172.1	10000	41.3424	93.5145	-1095	QK	2.4	0	7.2	1	1.2	1	0.337	-1	1.970	-1	5.852	-1	1775	51	1.0
43172.2	10000	41.3430	93.5145	-1093	QK	2.4	0	6.9	1	1.2	1	0.352	-1	2.007	-1	5.708	-1	1780	42	1.0
43172.3	10000	41.3437	93.5145	-1093	QK	2.4	0	7.0	1	1.2	1	0.343	-1	2.003	-1	5.842	-1	1799	48	1.0
43172.4	10000	41.3443	93.5145	-1092	QK	2.4	0	7.4	1	1.2	1	0.326	0	2.069	0	6.343	0	1805	47	1.0
43172.5	10000	41.3449	93.5145	-1091	QK	2.4	0	7.4	1	1.1	1	0.325	0	2.126	0	6.546	0	1811	48	1.0
43172.6	10000	41.3455	93.5145	-1090	QK	2.6	0	7.2	1	1.1	1	0.353	0	2.360	0	6.686	0	1808	52	1.0
43172.7	10000	41.3461	93.5145	-1089	QK	2.7	0	7.1	1	1.1	1	0.377	0	2.524	0	6.693	0	1816	46	1.0
43172.8	10000	41.3467	93.5145	-1087	QK	2.7	0	7.4	1	1.0	1	0.368	0	2.624	0	7.125	1	1809	40	1.0
43172.9	10000	41.3473	93.5145	-1086	QK	2.7	0	7.7	1	1.0	1	0.346	0	2.599	0	7.508	1	1787	34	1.0
43173.0	10000	41.3479	93.5145	-1085	QK	2.7	0	8.0	1	1.1	1	0.332	0	2.492	0	7.518	1	1799	49	1.0
43173.1	10000	41.3485	93.5145	-1084	QK	3.0	0	7.9	1	1.1	1	0.384	0	2.813	0	7.331	1	1794	43	1.0
43173.2	10000	41.3491	93.5145	-1082	QK	2.7	0	8.1	1	1.1	1	0.337	0	2.570	0	7.619	2	1777	30	1.0
43173.3	10000	41.3497	93.5145	-1081	QK	2.6	0	8.3	1	1.1	1	0.312	0	2.359	0	7.566	2	1758	40	1.0
43173.4	10000	41.3503	93.5145	-1079	QK	2.5	0	8.5	1	1.1	1	0.300	0	2.294	0	7.650	2	1743	48	1.0
43173.5	10000	41.3509	93.5145	-1078	QK	2.5	0	8.5	2	1.1	1	0.296	0	2.221	0	7.516	2	1738	37	1.0
43173.6	10000	41.3515	93.5145	-1077	QK	2.6	0	8.3	1	1.1	1	0.311	0	2.362	0	7.602	2	1731	50	1.0
43173.7	10000	41.3521	93.5145	-1075	QK	2.7	0	8.6	2	1.1	1	0.320	0	2.615	0	8.173	2	1719	42	1.0
43173.8	10000	41.3527	93.5145	-1073	QK	2.3	0	8.4	2	1.1	1	0.275	-1	2.203	0	7.999	2	1716	39	1.0
43173.9	10000	41.3533	93.5145	-1073	QK	2.4	0	8.3	2	1.1	1	0.289	-1	2.236	0	7.736	2	1722	41	1.0
43174.0	10000	41.3539	93.5145	-1072	QK	2.4	0	8.4	2	1.0	1	0.283	-1	2.282	0	8.052	3	1729	33	1.0
43174.1	10000	41.3545	93.5145	-1071	QK	2.4	0	8.6	2	1.1	1	0.283	-1	2.349	0	8.341	3	1740	31	1.0
43174.2	10000	41.3551	93.5145	-1070	QK	2.5	0	8.7	2	1.1	1	0.283	-1	2.315	0	8.190	3	1748	49	1.0
43174.3	10000	41.3557	93.5145	-1069	QK	2.5	0	9.0	2	1.1	0	0.283	-1	2.369	0	8.371	3	1756	50	1.0

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43174.4	10000	41.3563	93.5145	-1070	QK	2.4	0	8.5	2	1.1	0	0.277	-1	2.170	0	7.828	2	1756	55	1.0
43174.5	10000	41.3569	93.5145	-1067	QK	2.6	0	8.7	2	1.1	0	0.298	-1	2.338	0	7.835	2	1783	45	1.0
43174.6	10000	41.3575	93.5145	-1066	QK	2.6	0	8.8	2	1.1	0	0.301	-1	2.416	0	8.014	2	1796	55	1.0
43174.7	10000	41.3581	93.5145	-1065	QK	2.8	0	8.3	1	1.1	0	0.332	0	2.421	0	7.302	1	1792	44	1.0
43174.8	10000	41.3587	93.5145	-1065	QK	2.7	0	7.9	1	1.1	0	0.336	0	2.357	0	7.010	1	1788	44	1.0
43174.9	10000	41.3593	93.5145	-1065	QK	2.7	0	7.6	0	1.1	0	0.363	0	2.466	0	6.797	0	1797	61	1.0
43175.0	10000	41.3599	93.5145	-1064	QK	2.6	0	7.5	0	1.1	0	0.347	0	2.335	0	6.723	0	1816	45	1.0
43175.1	10000	41.3605	93.5145	-1062	QK	2.8	1	7.9	1	1.1	0	0.355	0	2.461	0	6.923	1	1826	39	1.0
43175.2	10000	41.3611	93.5145	-1061	QK	2.5	0	8.3	1	1.2	0	0.301	-1	2.121	0	7.056	1	1821	47	1.0
43175.3	10000	41.3617	93.5145	-1061	QK	2.6	0	8.2	1	1.2	1	0.323	0	2.199	0	6.812	0	1828	50	1.0
43175.4	10000	41.3624	93.5145	-1061	QK	2.7	0	8.4	2	1.2	0	0.319	0	2.291	0	7.193	1	1849	35	1.0
43175.5	10000	41.3630	93.5145	-1060	QK	2.8	1	8.5	2	1.2	1	0.326	0	2.289	0	7.028	1	1865	41	1.0
43175.6	10000	41.3636	93.5145	-1059	QK	2.7	0	8.4	2	1.2	1	0.324	0	2.212	0	6.838	1	1873	41	1.0
43175.7	10000	41.3642	93.5145	-1059	QK	2.8	1	8.7	2	1.3	1	0.317	0	2.189	0	6.911	1	1869	41	1.0
43175.8	10000	41.3648	93.5145	-1058	QK	2.6	0	8.6	2	1.2	1	0.307	-1	2.177	0	7.082	1	1870	52	1.1
43175.9	10000	41.3654	93.5145	-1057	QK	2.9	1	8.4	2	1.1	0	0.351	0	2.551	1	7.276	1	1878	50	1.1
43176.0	10000	41.3660	93.5145	-1056	QK	2.9	1	8.2	1	1.1	0	0.351	0	2.643	1	7.530	1	1878	40	1.1
43176.1	10000	41.3666	93.5145	-1056	QK	2.8	1	8.4	2	1.1	0	0.330	0	2.550	1	7.734	2	1869	43	1.1
43176.2	10000	41.3672	93.5145	-1055	QK	2.8	1	8.6	2	1.0	-1	0.326	0	2.685	1	8.231	2	1864	40	1.1
43176.3	10000	41.3678	93.5145	-1055	QK	2.9	1	8.8	2	1.1	-1	0.323	0	2.713	1	8.397	3	1883	48	1.1
43176.4	10000	41.3684	93.5145	-1054	QK	3.0	1	8.4	2	1.1	-1	0.357	0	2.840	1	7.949	2	1902	45	1.1
43176.5	10000	41.3690	93.5145	-1053	QK	3.0	1	8.3	2	1.1	0	0.357	0	2.752	1	7.715	2	1924	52	1.1
43176.6	10000	41.3696	93.5145	-1052	QK	3.0	1	8.2	1	1.1	0	0.364	0	2.687	1	7.379	1	1907	44	1.1
43176.7	10000	41.3702	93.5145	-1052	QK	2.8	1	8.3	1	1.1	0	0.343	0	2.586	1	7.531	1	1885	36	1.1
43176.8	10000	41.3708	93.5145	-1051	QK	2.8	1	8.2	1	1.1	0	0.342	0	2.568	1	7.507	1	1870	50	1.1
43176.9	10000	41.3714	93.5144	-1049	QK	3.0	1	7.6	1	1.1	0	0.398	1	2.716	1	6.822	0	1845	41	1.1
43177.0	10000	41.3720	93.5144	-1048	QK	2.9	1	7.8	1	1.1	0	0.371	0	2.706	1	7.285	1	1805	44	1.1
43177.1	10000	41.3726	93.5144	-1047	QK	2.8	1	7.7	1	1.1	-1	0.360	0	2.604	1	7.243	1	1771	46	1.1
43177.2	10000	41.3732	93.5144	-1046	QK	2.9	1	7.7	1	1.1	0	0.380	0	2.702	1	7.116	1	1754	35	1.1
43177.3	10000	41.3738	93.5144	-1044	QK	2.8	1	7.4	1	1.1	0	0.373	0	2.453	1	6.581	0	1764	38	1.1
43177.4	10000	41.3744	93.5144	-1043	QK	2.9	1	7.8	1	1.1	0	0.377	0	2.548	1	6.757	0	1772	53	1.1
43177.5	10000	41.3750	93.5144	-1042	QK	2.9	1	7.9	1	1.2	0	0.363	0	2.440	1	6.725	0	1765	52	1.1
43177.6	10000	41.3756	93.5144	-1042	QK	2.5	1	8.3	1	1.2	-1	0.299	-1	2.103	1	7.023	1	1751	42	1.1
43177.7	10000	41.3762	93.5144	-1041	QK	2.4	0	8.0	1	1.2	-1	0.305	-1	2.108	1	6.921	1	1720	39	1.1
43177.8	10000	41.3768	93.5144	-1040	QK	2.2	-1	7.7	1	1.1	-1	0.285	-1	1.948	-1	6.826	0	1683	51	1.1
43177.9	10000	41.3774	93.5144	-1039	QK	2.0	-1	7.2	1	1.1	-1	0.273	-1	1.775	-1	6.509	0	1641	52	1.1
43178.0	10000	41.3780	93.5144	-1038	QK	2.1	-1	7.3	1	1.1	-1	0.284	-1	1.950	-1	6.856	1	1614	53	1.1
43178.1	10000	41.3786	93.5144	-1037	QK	2.0	-1	7.0	1	1.1	-1	0.293	-1	1.945	-1	6.642	0	1601	49	1.1
43178.2	10000	41.3792	93.5144	-1035	QK	2.2	-1	7.0	0	1.0	-1	0.313	-1	2.157	0	6.887	1	1609	38	1.1
43178.3	10000	41.3798	93.5144	-1033	QK	2.3	-1	6.9	0	1.0	-1	0.335	0	2.352	0	7.016	1	1622	50	1.1
43178.4	10000	41.3804	93.5144	-1031	QK	2.3	-1	7.1	0	1.0	-1	0.320	0	2.214	0	6.925	1	1659	49	1.1
43178.5	10000	41.3811	93.5144	-1028	QK	2.4	-1	7.7	1	1.1	-1	0.314	-1	2.281	0	7.261	1	1704	37	1.1
43178.6	10000	41.3817	93.5144	-1026	QK	2.4	0	8.0	1	1.1	0	0.303	-1	2.241	0	7.393	1	1746	41	1.1
43178.7	10000	41.3823	93.5144	-1024	QK	2.3	0	7.9	1	1.1	0	0.291	-1	2.081	0	7.141	1	1767	46	1.2
43178.8	10000	41.3829	93.5144	-1021	QK	2.4	0	7.8	1	1.1	1	0.312	-1	2.155	0	6.898	1	1783	39	1.2
43178.9	10000	41.3835	93.5144	-1020	QK	2.3	0	7.7	1	1.2	1	0.299	-1	1.950	-1	6.529	0	1798	59	1.2
43179.0	10000	41.3841	93.5144	-1020	QK	2.3	0	7.4	1	1.3	1	0.310	-1	1.805	-1	5.829	-1	1817	44	1.2
43179.1	10000	41.3847	93.5144	-1017	QK	2.4	0	7.7	1	1.3	1	0.312	-1	1.912	-1	6.118	-1	1826	48	1.2
43179.2	10000	41.3853	93.5144	-1015	QK	2.4	0	7.5	1	1.3	1	0.320	0	1.844	-1	5.763	-1	1833	49	1.2
43179.3	10000	41.3859	93.5144	-1012	QK	2.6	0	7.7	1	1.3	1	0.336	0	2.012	-1	5.979	-1	1836	54	1.2
43179.4	10000	41.3865	93.5144	-1009	QK	2.7	0	7.9	1	1.3	1	0.345	0	2.093	-1	6.064	-1	1849	43	1.2
43179.5	10000	41.3871	93.5144	-1006	QK	2.5	0	8.1	1	1.3	2	0.304	-1	1.883	-1	6.191	0	1866	48	1.2

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43179.6	10000	41.3877	93.5144	-1003	QK	2.6	0	7.9	1	1.3	2	0.334	0	2.037	0	6.096	-1	1861	50	1.2
43179.7	10000	41.3883	93.5144	-1001	QK	2.5	0	8.8	2	1.3	1	0.289	-1	1.989	-1	6.873	1	1860	46	1.2
43179.8	10000	41.3889	93.5144	-998	QK	2.3	0	8.6	2	1.3	2	0.272	-1	1.809	-1	6.657	0	1859	44	1.2
43179.9	10000	41.3895	93.5144	-995	QK	2.4	0	8.9	2	1.3	1	0.271	-1	1.891	-1	6.988	1	1857	62	1.2
43180.0	10000	41.3901	93.5144	-992	QK	2.1	-1	8.7	2	1.3	2	0.240	-2	1.605	-1	6.701	0	1853	33	1.2
43180.1	10000	41.3907	93.5144	-988	QK	2.1	-1	8.8	2	1.3	1	0.241	-2	1.658	-1	6.890	1	1841	47	1.2
43180.2	10000	41.3913	93.5144	-985	QK	2.3	0	8.4	2	1.3	2	0.277	-1	1.786	-1	6.446	0	1817	38	1.2
43180.3	10000	41.3919	93.5144	-981	QK	2.3	-1	8.3	2	1.3	1	0.270	-1	1.760	-1	6.515	0	1811	50	1.2
43180.4	10000	41.3925	93.5144	-977	QK	2.3	0	7.7	1	1.2	1	0.296	-1	1.877	-1	6.347	0	1797	52	1.2
43180.5	10000	41.3931	93.5144	-974	QK	2.5	0	7.6	1	1.2	1	0.325	0	2.057	0	6.319	0	1790	48	1.2
43180.6	10000	41.3937	93.5144	-970	QK	2.8	0	7.4	0	1.2	0	0.371	0	2.359	0	6.354	0	1792	56	1.2
43180.7	10000	41.3943	93.5144	-966	QK	2.9	1	7.4	0	1.1	0	0.395	1	2.550	1	6.462	0	1799	39	1.2
43180.8	10000	41.3949	93.5144	-963	QK	2.8	1	7.2	0	1.2	0	0.385	0	2.409	0	6.259	0	1798	45	1.2
43180.9	10000	41.3955	93.5144	-959	QK	2.6	0	7.7	1	1.1	0	0.336	0	2.274	0	6.765	0	1800	51	1.2
43181.0	10000	41.3961	93.5144	-954	QK	2.6	0	7.7	1	1.2	0	0.334	0	2.222	0	6.652	0	1803	46	1.2
43181.1	10000	41.3968	93.5143	-950	QK	2.7	0	7.6	1	1.2	0	0.356	0	2.302	0	6.470	0	1805	36	1.2
43181.2	10000	41.3974	93.5143	-945	QK	2.7	0	7.6	1	1.2	0	0.348	0	2.289	0	6.581	0	1815	52	1.2
43181.3	10000	41.3980	93.5143	-940	QK	2.4	0	7.8	1	1.2	0	0.305	-1	2.030	0	6.647	0	1811	47	1.1
43181.4	10000	41.3986	93.5143	-935	QK	2.2	-1	7.7	1	1.2	1	0.293	-1	1.879	-1	6.423	0	1810	44	1.1
43181.5	10000	41.3992	93.5143	-930	QK	2.3	0	7.8	1	1.2	1	0.297	-1	1.863	-1	6.266	0	1822	47	1.1
43181.6	10000	41.3998	93.5143	-924	QK	2.4	0	7.8	1	1.2	1	0.314	-1	2.023	-1	6.443	0	1836	42	1.1
43181.7	10000	41.4004	93.5143	-919	QK	2.3	-1	7.8	1	1.2	1	0.290	-1	1.894	-1	6.523	0	1833	37	1.1
43181.8	10000	41.4010	93.5143	-914	QK	2.4	0	7.7	1	1.2	0	0.306	-1	2.029	-1	6.636	0	1845	45	1.1
43181.9	10000	41.4016	93.5143	-909	QK	2.4	0	7.2	0	1.2	1	0.336	0	2.012	-1	5.985	-1	1858	42	1.1
43182.0	10000	41.4023	93.5143	-903	QK	2.5	0	7.0	0	1.2	1	0.353	0	2.003	-1	5.676	-1	1853	50	1.1
43182.1	10000	41.4029	93.5143	-897	QK	2.8	1	7.1	0	1.2	1	0.398	1	2.359	0	5.927	-1	1844	46	1.1
43182.2	10000	41.4035	93.5142	-891	QK	2.9	1	7.0	0	1.1	0	0.414	1	2.538	1	6.124	-1	1828	55	1.1
43182.3	10000	41.4041	93.5142	-886	QK	2.8	0	6.7	-1	1.2	1	0.411	1	2.262	0	5.499	-1	1824	50	1.1
43182.4	10000	41.4047	93.5142	-880	QK	3.0	1	6.4	-1	1.2	1	0.473	2	2.494	0	5.277	-2	1823	51	1.1
43182.5	10000	41.4053	93.5142	-873	QK	2.8	0	6.6	-1	1.3	1	0.415	1	2.174	0	5.242	-2	1813	44	1.1
43182.6	10000	41.4059	93.5142	-867	QK	2.9	1	6.8	-1	1.2	1	0.425	1	2.405	0	5.655	-1	1772	42	1.1
43182.7	10000	41.4065	93.5142	-861	QK	2.9	1	6.9	-1	1.2	1	0.427	1	2.484	0	5.816	-1	1768	54	1.1
43182.8	10000	41.4071	93.5142	-855	QK	2.8	1	7.2	0	1.2	1	0.391	1	2.403	0	6.152	0	1753	45	1.1
43182.9	10000	41.4077	93.5142	-850	QK	2.7	0	7.4	0	1.1	0	0.363	0	2.358	0	6.496	0	1756	42	1.1
43183.0	10000	41.4083	93.5142	-844	QK	2.7	0	7.7	1	1.1	0	0.346	0	2.415	0	6.982	1	1749	40	1.1
43183.1	10000	41.4090	93.5142	-838	QK	2.7	0	8.2	1	1.1	-1	0.331	0	2.558	1	7.725	2	1741	30	1.1
43183.2	10000	41.4096	93.5141	-832	QK	2.9	1	8.0	1	1.0	-1	0.357	0	2.813	1	7.883	2	1739	43	1.1
43183.3	10000	41.4102	93.5141	-827	QK	2.6	0	8.3	2	1.0	-1	0.307	-1	2.498	1	8.144	2	1739	56	1.1
43183.4	10000	41.4108	93.5141	-823	QK	2.4	0	8.4	2	1.0	-1	0.291	-1	2.333	1	8.017	2	1733	46	1.1
43183.5	10000	41.4114	93.5141	-820	QK	2.4	0	8.2	1	1.1	0	0.289	-1	2.215	1	7.658	2	1739	45	1.1
43183.6	10000	41.4120	93.5141	-816	QK	2.4	0	7.9	1	1.1	0	0.306	-1	2.253	1	7.356	1	1728	43	1.1
43183.7	10000	41.4126	93.5141	-813	QK	2.5	0	7.6	0	1.1	0	0.336	0	2.374	1	7.059	1	1719	48	1.1
43183.8	10000	41.4132	93.5141	-811	QK	2.4	0	7.9	1	1.1	-1	0.303	-1	2.203	1	7.266	1	1735	43	1.1
43183.9	10000	41.4138	93.5141	-810	QK	2.3	0	7.9	1	1.1	-1	0.293	-1	2.164	1	7.397	1	1728	52	1.1
43184.0	10000	41.4145	93.5141	-808	QK	2.4	0	7.8	1	1.1	-1	0.307	-1	2.269	1	7.393	1	1732	48	1.1
43184.1	10000	41.4151	93.5141	-807	QK	2.5	0	7.9	1	1.0	-1	0.322	-1	2.562	2	7.967	2	1728	53	1.1
43184.2	10000	41.4157	93.5141	-806	QK	2.4	0	8.0	1	1.0	-1	0.301	-1	2.464	2	8.193	2	1726	48	1.1
43184.3	10000	41.4163	93.5140	-806	QK	2.2	-1	8.1	1	1.0	-1	0.290	-1	2.429	2	8.378	3	1720	43	1.1
43184.4	10000	41.4169	93.5140	-805	QK	2.3	-1	8.5	2	1.0	-1	0.262	-1	2.339	2	8.934	3	1717	39	1.1
43184.5	10000	41.4175	93.5140	-805	QK	2.3	-1	8.0	1	0.9	-2	0.289	-1	2.491	3	8.626	3	1688	51	1.1
43184.6	10000	41.4181	93.5140	-805	QK	2.2	-1	8.5	2	0.9	-2	0.276	-1	2.343	3	8.482	3	1687	53	1.1
43184.7	10000	41.4187	93.5140	-805	QK	2.2	-1	8.5	2	0.9	-2	0.264	-1	2.487	3	9.434	4	1693	37	1.1

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43184.8	10000	41.4193	93.5140	-806	QK	2.3	0	8.1	1	0.9	-2	0.289	-1	2.493	0	8.614	3	1689	41	1.1
43184.9	10000	41.4199	93.5140	-806	QK	2.3	0	7.8	1	0.9	-2	0.297	-1	2.481	0	8.363	3	1689	45	1.1
43185.0	10000	41.4206	93.5140	-806	QK	2.4	0	8.0	1	0.9	-1	0.299	-1	2.516	1	8.426	3	1708	51	1.1
43185.1	10000	41.4212	93.5140	-806	QK	2.5	0	7.8	1	1.0	-1	0.324	0	2.636	1	8.132	2	1727	49	1.1
43185.2	10000	41.4218	93.5140	-807	QK	2.4	0	7.5	1	1.0	-1	0.313	-1	2.273	0	7.260	1	1766	36	1.1
43185.3	10000	41.4224	93.5139	-807	QK	2.3	0	7.3	0	1.1	0	0.315	-1	2.119	0	6.738	0	1774	46	1.1
43185.4	10000	41.4230	93.5139	-807	QK	2.4	0	7.0	0	1.2	1	0.340	0	1.976	-1	5.810	-1	1793	40	1.1
43185.5	10000	41.4236	93.5139	-807	QK	2.3	0	7.4	0	1.1	1	0.312	-1	1.822	-1	5.846	-1	1809	56	1.1
43185.6	10000	41.4242	93.5139	-806	QK	2.6	0	7.5	0	1.3	1	0.342	0	1.983	-1	5.797	-1	1829	46	1.1
43185.7	10000	41.4248	93.5139	-806	QK	2.3	-1	7.3	0	1.3	2	0.310	-1	1.740	-1	5.608	-1	1823	48	1.2
43185.8	10000	41.4254	93.5139	-805	QK	2.3	0	7.5	0	1.3	2	0.306	-1	1.744	-1	5.696	-1	1814	47	1.2
43185.9	10000	41.4261	93.5139	-804	QK	2.3	0	7.6	0	1.3	1	0.303	-1	1.777	-1	5.861	-1	1805	40	1.2
43186.0	10000	41.4267	93.5139	-803	QK	2.6	0	7.7	1	1.3	1	0.335	0	2.033	0	6.070	-1	1817	47	1.2
43186.1	10000	41.4273	93.5139	-801	QK	2.5	0	7.7	1	1.2	1	0.324	0	2.000	-1	6.178	0	1818	52	1.2
43186.2	10000	41.4279	93.5139	-800	QK	2.3	-1	7.7	1	1.2	1	0.293	-1	1.828	-1	6.237	0	1824	37	1.2
43186.3	10000	41.4285	93.5139	-798	QK	2.1	-1	7.5	0	1.2	1	0.275	-1	1.654	-1	6.002	-1	1811	44	1.2
43186.4	10000	41.4291	93.5138	-796	QK	2.1	-1	7.4	1	1.3	1	0.288	-1	1.691	-1	5.881	-1	1817	42	1.2
43186.5	10000	41.4297	93.5138	-794	QK	2.0	-1	7.2	1	1.3	1	0.277	-1	1.586	-1	5.725	-1	1812	50	1.2
43186.6	10000	41.4303	93.5138	-792	QK	1.8	-1	7.5	0	1.3	1	0.247	-1	1.427	-2	5.769	-1	1800	43	1.2
43186.7	10000	41.4309	93.5138	-790	QK	1.6	-2	7.7	1	1.3	2	0.205	-2	1.202	-2	5.861	-1	1783	53	1.2
43186.8	10000	41.4315	93.5138	-787	QK	1.6	-2	7.6	1	1.3	2	0.208	-2	1.211	-2	5.831	-1	1774	50	1.2
43186.9	10000	41.4322	93.5138	-785	QK	1.9	-1	7.6	1	1.3	1	0.247	-1	1.447	-2	5.858	-1	1780	52	1.2
43187.0	10000	41.4328	93.5138	-782	QK	1.8	-1	8.3	1	1.3	1	0.219	-2	1.406	-2	6.404	0	1788	58	1.2
43187.1	10000	41.4334	93.5138	-779	QK	2.1	-1	8.4	2	1.3	1	0.251	-1	1.651	-1	6.584	0	1777	34	1.2
43187.2	10000	41.4340	93.5138	-777	QK	2.1	-1	8.1	1	1.2	1	0.263	-1	1.728	-1	6.563	0	1768	43	1.2
43187.3	10000	41.4346	93.5137	-774	QK	2.3	-1	7.6	1	1.2	1	0.297	-1	1.933	-1	6.503	0	1758	50	1.2
43187.4	10000	41.4352	93.5137	-772	QK	2.3	0	7.5	0	1.2	0	0.307	-1	1.991	-1	6.494	0	1741	62	1.2
43187.5	10000	41.4358	93.5137	-771	QK	2.5	0	7.1	0	1.1	0	0.358	0	2.253	0	6.295	0	1714	41	1.3
43187.6	10000	41.4364	93.5137	-769	QK	2.2	-1	6.7	-1	1.1	0	0.336	0	2.066	0	6.150	0	1682	37	1.3
43187.7	10000	41.4370	93.5137	-767	QK	2.4	0	5.8	-2	1.1	0	0.419	1	2.294	0	5.480	-1	1643	41	1.3
43187.8	10000	41.4376	93.5137	-765	QK	2.3	-1	5.4	-2	1.1	-1	0.418	1	2.139	0	5.120	-2	1623	42	1.3
43187.9	10000	41.4382	93.5137	-763	QK	2.1	-1	5.5	-2	1.1	0	0.380	0	1.932	-1	5.080	-2	1605	42	1.3
43188.0	10000	41.4389	93.5137	-762	QK	2.3	0	5.4	-2	1.1	1	0.426	2	2.097	0	4.926	-2	1599	42	1.3
43188.1	10000	41.4395	93.5137	-762	QK	2.6	0	5.4	-3	1.1	2	0.487	2	2.442	0	5.009	-2	1614	48	1.3
43188.2	10000	41.4401	93.5137	-761	QK	2.5	0	5.5	-2	1.1	1	0.449	1	2.275	0	5.068	-2	1632	43	1.3
43188.3	10000	41.4407	93.5137	-761	QK	2.5	0	5.6	-2	1.1	1	0.439	1	2.246	0	5.123	-2	1624	39	1.3
43188.4	10000	41.4413	93.5136	-760	QK	2.3	0	5.5	-2	1.0	1	0.424	1	2.264	0	5.339	-2	1615	43	1.3
43188.5	10000	41.4419	93.5136	-760	QK	2.3	0	5.6	-2	1.0	1	0.410	1	2.265	0	5.527	-1	1597	50	1.3
43188.6	10000	41.4425	93.5136	-760	QK	2.3	0	5.7	-2	1.0	1	0.404	1	2.359	0	5.835	-1	1591	52	1.3
43188.7	10000	41.4431	93.5136	-759	QK	2.1	-1	6.0	-2	1.0	0	0.355	0	2.156	0	6.076	-1	1596	60	1.3
43188.8	10000	41.4437	93.5136	-760	QK	2.0	-1	6.0	-2	1.0	0	0.342	0	2.089	0	6.105	-1	1599	42	1.3
43188.9	10000	41.4444	93.5136	-760	QK	2.1	-1	6.4	-1	1.0	0	0.324	0	2.052	0	6.342	0	1601	47	1.3
43189.0	10000	41.4450	93.5136	-760	QK	2.2	-1	6.4	-1	1.0	0	0.343	0	2.266	0	6.610	0	1619	49	1.3
43189.1	10000	41.4456	93.5136	-761	QK	2.2	-1	6.4	-1	1.1	0	0.334	0	2.018	-1	6.037	-1	1648	31	1.4
43189.2	10000	41.4462	93.5136	-762	QK	2.4	0	6.6	-1	1.1	0	0.365	0	2.197	0	6.013	-1	1695	54	1.4
43189.3	10000	41.4468	93.5136	-763	QK	2.6	0	6.7	-1	1.1	1	0.390	1	2.348	0	6.028	-1	1733	54	1.4
43189.4	10000	41.4474	93.5135	-764	QK	2.6	0	6.6	-1	1.1	1	0.398	1	2.390	0	6.011	-1	1737	47	1.4
43189.5	10000	41.4480	93.5135	-767	QK	2.6	0	6.5	-1	1.1	1	0.395	1	2.396	0	6.066	-1	1731	44	1.4
43189.6	10000	41.4486	93.5135	-768	QK	2.5	0	6.4	-1	1.1	1	0.392	1	2.346	0	5.981	-1	1704	50	1.4
43189.7	10000	41.4492	93.5135	-771	QK	2.4	0	6.2	-1	1.1	0	0.384	0	2.196	0	5.712	-1	1692	45	1.4
43189.8	10000	41.4498	93.5135	-774	QK	2.2	-1	6.4	-1	1.0	-1	0.348	-1	2.113	0	6.073	-1	1686	33	1.4
43189.9	10000	41.4505	93.5135	-776	QK	2.0	-1	6.3	-1	1.1	-1	0.307	-1	1.842	-1	5.994	-1	1678	27	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43190.0	10000	41.4511	93.5135	-779	QK	1.8	-2	6.4	-1	1.1	0	0.276	-1	1.632	-1	5.902	-1	1668	35	1.4
43190.1	10000	41.4517	93.5135	-782	WATER	1.7	999	6.6	999	1.1	999	0.259	999	1.623	999	6.257	999	1669	56	1.4
43190.2	10000	41.4523	93.5135	-785	WATER	1.5	999	6.6	999	1.1	999	0.229	999	1.342	999	5.863	999	1676	55	1.4
43190.3	10000	41.4529	93.5135	-788	WATER	1.4	999	6.6	999	1.1	999	0.217	999	1.271	999	5.857	999	1705	59	1.4
43190.4	10000	41.4535	93.5135	-791	WATER	1.5	999	7.1	999	1.1	999	0.213	999	1.368	999	6.434	999	1743	59	1.4
43190.5	10000	41.4541	93.5134	-795	WATER	1.8	999	7.1	999	1.2	999	0.254	999	1.549	999	6.099	999	1770	37	1.4
43190.6	10000	41.4547	93.5134	-799	WATER	2.1	999	7.3	999	1.2	999	0.294	999	1.806	999	6.153	999	1787	49	1.4
43190.7	10000	41.4553	93.5134	-804	WATER	2.1	999	7.1	999	1.1	999	0.297	999	1.832	999	6.161	999	1785	45	1.4
43190.8	10000	41.4559	93.5134	-808	WATER	2.2	999	7.3	999	1.2	999	0.295	999	1.839	999	6.243	999	1785	54	1.4
43190.9	10000	41.4566	93.5134	-812	QAL	2.3	0	7.5	1	1.1	0	0.303	-1	2.040	0	6.736	1	1785	47	1.4
43191.0	10000	41.4572	93.5134	-817	QAL	2.3	0	7.8	1	1.1	0	0.291	-1	2.053	0	7.047	1	1782	50	1.4
43191.1	10000	41.4578	93.5134	-822	QAL	2.5	0	7.4	1	1.1	0	0.339	0	2.216	0	6.538	1	1780	48	1.4
43191.2	10000	41.4584	93.5134	-827	QAL	2.4	0	7.6	1	1.1	0	0.315	-1	2.223	0	7.062	1	1769	41	1.4
43191.3	10000	41.4590	93.5134	-832	QAL	2.1	-1	7.9	1	1.1	0	0.263	-1	1.848	-1	7.016	1	1766	34	1.4
43191.4	10000	41.4596	93.5134	-837	QAL	2.4	0	7.9	1	1.2	1	0.300	-1	2.022	-1	6.740	1	1776	46	1.4
43191.5	10000	41.4602	93.5134	-842	QAL	2.4	0	7.7	1	1.2	1	0.314	-1	2.046	0	6.508	0	1792	35	1.4
43191.6	10000	41.4608	93.5133	-847	QAL	2.5	0	7.4	1	1.2	1	0.333	-1	2.022	-1	6.074	0	1796	54	1.4
43191.7	10000	41.4614	93.5133	-852	QAL	2.6	0	6.9	0	1.2	1	0.380	0	2.138	0	5.621	-1	1795	31	1.4
43191.8	10000	41.4620	93.5133	-857	QAL	2.4	0	7.2	0	1.3	1	0.340	0	1.944	-1	5.716	-1	1781	46	1.4
43191.9	10000	41.4627	93.5133	-862	QAL	2.2	0	6.9	0	1.3	1	0.326	-1	1.779	-1	5.452	-1	1775	42	1.4
43192.0	10000	41.4633	93.5133	-868	QAL	2.4	0	6.5	0	1.2	1	0.371	0	2.017	-1	5.433	-1	1767	51	1.4
43192.1	10000	41.4639	93.5133	-873	QAL	2.7	0	6.4	0	1.2	1	0.421	0	2.226	0	5.284	-1	1775	55	1.4
43192.2	10000	41.4645	93.5133	-878	QAL	2.6	0	6.6	0	1.2	1	0.401	0	2.178	0	5.439	-1	1781	37	1.4
43192.3	10000	41.4651	93.5133	-883	QAL	2.4	0	6.6	0	1.3	1	0.367	0	1.919	-1	5.224	-1	1784	63	1.4
43192.4	10000	41.4657	93.5133	-888	QAL	2.3	0	6.9	0	1.3	2	0.335	-1	1.785	-1	5.333	-1	1800	53	1.4
43192.5	10000	41.4663	93.5133	-893	QAL	2.4	0	6.8	0	1.3	1	0.355	0	1.922	-1	5.413	-1	1800	52	1.4
43192.6	10000	41.4669	93.5132	-899	QAL	2.7	1	7.0	0	1.2	1	0.392	0	2.224	0	5.669	-1	1820	49	1.4
43192.7	10000	41.4675	93.5132	-904	QAL	2.7	0	7.3	1	1.3	1	0.367	0	2.081	0	5.671	-1	1845	46	1.4
43192.8	10000	41.4681	93.5132	-908	QAL	2.2	0	7.4	1	1.3	1	0.300	-1	1.747	-1	5.819	0	1853	31	1.4
43192.9	10000	41.4688	93.5132	-913	QAL	2.4	0	7.2	1	1.3	1	0.339	0	1.900	-1	5.598	-1	1847	48	1.4
43193.0	10000	41.4694	93.5132	-917	QAL	2.7	0	7.2	1	1.3	1	0.379	0	2.209	0	5.827	0	1861	46	1.4
43193.1	10000	41.4700	93.5132	-921	QAL	3.0	1	7.3	1	1.3	1	0.408	0	2.484	0	6.084	0	1867	39	1.4
43193.2	10000	41.4706	93.5132	-926	QAL	3.0	1	7.2	1	1.3	1	0.411	0	2.423	0	5.891	0	1869	44	1.4
43193.3	10000	41.4712	93.5132	-929	QAL	2.8	1	7.2	1	1.3	1	0.382	0	2.175	-1	5.695	-1	1868	33	1.4
43193.4	10000	41.4718	93.5132	-933	QAL	2.7	0	7.1	1	1.3	1	0.383	0	2.182	-1	5.703	-1	1850	49	1.4
43193.5	10000	41.4724	93.5132	-936	QAL	2.8	1	7.0	0	1.2	1	0.400	0	2.323	0	5.809	0	1825	51	1.4
43193.6	10000	41.4730	93.5132	-940	QAL	2.8	1	7.3	1	1.2	1	0.381	0	2.280	0	5.984	0	1820	38	1.4
43193.7	10000	41.4736	93.5131	-943	QAL	2.5	0	7.5	1	1.2	1	0.333	-1	2.024	-1	6.070	0	1800	41	1.4
43193.8	10000	41.4742	93.5131	-947	QAL	2.4	0	7.3	1	1.3	1	0.324	-1	1.889	-1	5.837	0	1791	46	1.4
43193.9	10000	41.4749	93.5131	-950	QAL	2.2	0	7.1	1	1.3	1	0.305	-1	1.696	-1	5.558	-1	1803	48	1.4
43194.0	10000	41.4755	93.5131	-953	QAL	2.4	0	7.2	1	1.3	1	0.338	0	1.893	-1	5.598	-1	1798	48	1.4
43194.1	10000	41.4761	93.5131	-956	QAL	2.4	0	7.3	1	1.3	1	0.329	-1	1.953	-1	5.935	0	1811	59	1.4
43194.2	10000	41.4767	93.5131	-958	QAL	2.4	0	7.6	1	1.3	1	0.316	-1	1.874	-1	5.931	0	1825	48	1.4
43194.3	10000	41.4773	93.5131	-961	QAL	2.4	0	7.1	1	1.3	1	0.337	-1	1.877	-1	5.572	-1	1826	43	1.4
43194.4	10000	41.4779	93.5131	-964	QAL	2.6	0	7.3	1	1.3	1	0.352	0	2.036	0	5.787	0	1844	45	1.4
43194.5	10000	41.4785	93.5131	-967	QAL	2.5	0	7.5	1	1.3	1	0.334	-1	1.973	-1	5.914	0	1840	45	1.4
43194.6	10000	41.4791	93.5130	-969	QAL	2.7	0	8.0	1	1.3	1	0.340	0	2.309	0	6.786	0	1836	42	1.4
43194.7	10000	41.4797	93.5130	-971	QAL	2.7	0	7.9	1	1.3	1	0.340	0	2.307	0	6.791	0	1851	48	1.4
43194.8	10000	41.4804	93.5130	-972	QAL	2.7	0	7.7	1	1.3	1	0.347	0	2.288	0	6.593	0	1851	56	1.4
43194.9	10000	41.4810	93.5130	-973	QAL	2.7	0	7.7	1	1.3	1	0.356	0	2.315	0	6.503	0	1856	43	1.4
43195.0	10000	41.4816	93.5130	-975	QAL	2.6	1	8.3	2	1.2	1	0.309	-1	2.184	0	7.075	1	1882	54	1.4
43195.1	10000	41.4822	93.5130	-976	QAL	2.4	0	8.0	1	1.2	1	0.303	-1	2.113	0	6.972	1	1871	36	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43195.2	10000	41.4828	93.5130	-977	QAL	2.5	0	7.8	1	1.1	0	0.317	-1	2.155	0	6.802	1	1888	47	1.4
43195.3	10000	41.4834	93.5130	-978	QAL	2.5	0	7.6	1	1.2	1	0.325	-1	2.077	0	6.389	0	1394	57	1.3
43195.4	10000	41.4840	93.5130	-979	QAL	2.5	0	8.0	1	1.2	1	0.311	-1	2.067	0	6.654	1	1890	54	1.3
43195.5	10000	41.4846	93.5130	-981	QAL	2.7	0	8.2	2	1.2	1	0.326	-1	2.220	0	6.818	1	1891	42	1.3
43195.6	10000	41.4852	93.5130	-983	QAL	2.6	0	8.0	1	1.1	0	0.319	-1	2.234	0	7.001	1	1882	62	1.3
43195.7	10000	41.4858	93.5130	-984	QAL	2.8	1	7.5	1	1.1	0	0.374	0	2.460	0	6.578	1	1851	57	1.3
43195.8	10000	41.4865	93.5129	-984	QAL	3.0	1	7.5	1	1.2	1	0.395	0	2.580	0	6.527	1	1852	34	1.3
43195.9	10000	41.4871	93.5129	-985	QAL	2.9	1	7.4	1	1.2	1	0.388	0	2.430	0	6.257	0	1831	49	1.3
43196.0	10000	41.4877	93.5129	-985	QAL	2.9	1	7.5	1	1.2	1	0.391	0	2.447	0	6.255	0	1829	44	1.3
43196.1	10000	41.4883	93.5129	-987	QAL	3.1	1	7.4	1	1.2	1	0.415	0	2.642	1	6.361	0	1828	44	1.3
43196.2	10000	41.4889	93.5129	-989	QAL	2.9	1	7.0	0	1.2	1	0.416	0	2.475	0	5.948	0	1810	50	1.3
43196.3	10000	41.4896	93.5130	-990	QAL	3.0	1	7.2	1	1.2	1	0.417	0	2.521	0	6.052	0	1804	43	1.3
43196.4	10000	41.4902	93.5130	-990	QAL	2.7	0	7.4	1	1.2	1	0.366	0	2.226	0	6.077	0	1804	27	1.3
43196.5	10000	41.4908	93.5130	-990	QAL	2.5	0	7.4	1	1.2	1	0.338	0	2.011	-1	5.943	0	1785	50	1.3
43196.6	10000	41.4915	93.5131	-989	QAL	2.6	0	7.4	1	1.2	1	0.349	0	2.120	0	6.071	0	1797	49	1.3
43196.7	10000	41.4921	93.5131	-989	QAL	2.5	0	7.1	1	1.2	1	0.352	0	2.093	0	5.942	0	1785	41	1.3
43196.8	10000	41.4927	93.5131	-994	QAL	2.3	0	7.1	1	1.2	1	0.320	-1	1.848	-1	5.771	0	1770	29	1.3
43196.9	10000	41.4934	93.5132	-995	QAL	2.2	0	7.1	1	1.2	1	0.311	-1	1.820	-1	5.860	0	1748	44	1.3
43197.0	10000	41.4940	93.5132	-995	QAL	2.2	0	6.9	0	1.2	1	0.323	-1	1.817	-1	5.630	-1	1748	53	1.3
43197.1	10000	41.4947	93.5132	-995	QAL	2.2	0	6.5	0	1.2	1	0.336	-1	1.870	-1	5.564	-1	1728	52	1.3
43197.2	10000	41.4953	93.5132	-996	QAL	2.4	0	6.5	0	1.1	0	0.366	0	2.101	0	5.737	0	1729	31	1.3
43197.3	10000	41.4959	93.5133	-997	QAL	2.6	0	6.7	0	1.1	0	0.394	0	2.482	0	6.303	0	1713	41	1.3
43197.4	10000	41.4966	93.5133	-998	QAL	2.5	0	6.6	0	1.0	0	0.383	0	2.504	0	6.531	1	1686	38	1.3
43197.5	10000	41.4972	93.5133	-998	QAL	2.7	0	6.5	0	1.0	0	0.412	0	2.614	1	6.345	0	1682	51	1.3
43197.6	10000	41.4978	93.5134	-998	QAL	2.6	0	6.7	0	1.0	0	0.390	0	2.580	0	6.610	1	1679	44	1.3
43197.7	10000	41.4985	93.5134	-998	QAL	2.6	0	6.8	0	1.0	0	0.377	0	2.509	0	6.660	1	1674	45	1.3
43197.8	10000	41.4991	93.5134	-999	QAL	2.6	0	6.9	0	1.0	0	0.379	0	2.525	0	6.671	1	1685	45	1.3
43197.9	10000	41.4998	93.5135	-999	QAL	2.7	1	6.9	0	1.1	0	0.398	0	2.596	1	6.520	1	1689	55	1.3
43198.0	10000	41.5004	93.5135	-1000	WATER	2.3	999	6.7	999	1.1	999	0.350	999	2.154	999	6.162	999	1684	45	1.3
43198.1	10000	41.5010	93.5135	-999	WATER	2.6	999	7.1	999	1.2	999	0.363	999	2.214	999	6.096	999	1711	47	1.3
43198.2	10000	41.5017	93.5136	-1000	WATER	2.3	999	7.0	999	1.2	999	0.331	999	1.977	999	5.969	999	1712	46	1.3
43198.3	10000	41.5023	93.5136	-1001	WATER	2.6	999	6.8	999	1.3	999	0.383	999	2.074	999	5.409	999	1756	42	1.3
43198.4	10000	41.5029	93.5136	-1000	WATER	2.3	999	6.9	999	1.3	999	0.339	999	1.811	999	5.346	999	1769	57	1.3
43198.5	10000	41.5036	93.5137	-1001	QAL	2.6	0	7.3	1	1.3	1	0.355	0	2.038	0	5.742	0	1795	51	1.3
43198.6	10000	41.5042	93.5137	-1001	QAL	2.4	0	7.6	1	1.3	2	0.313	-1	1.816	-1	5.800	0	1806	47	1.3
43198.7	10000	41.5048	93.5137	-1001	QAL	2.6	0	7.8	1	1.4	2	0.334	-1	1.905	-1	5.709	-1	1809	44	1.3
43198.8	10000	41.5055	93.5137	-1000	QAL	2.2	-1	7.4	1	1.4	2	0.294	-1	1.600	-1	5.434	-1	1802	50	1.3
43198.9	10000	41.5061	93.5138	-1001	QAL	2.5	0	7.5	1	1.3	2	0.336	-1	1.900	-1	5.659	-1	1821	38	1.3
43199.0	10000	41.5068	93.5138	-1001	QAL	2.4	0	7.4	1	1.3	1	0.316	-1	1.853	-1	5.861	0	1805	45	1.3
43199.1	10000	41.5074	93.5138	-999	QAL	2.7	0	7.3	1	1.2	1	0.376	0	2.240	0	5.958	0	1796	49	1.3
43199.2	10000	41.5080	93.5139	-998	QAL	2.6	0	7.1	1	1.2	1	0.374	0	2.191	0	5.858	0	1785	41	1.3
43199.3	10000	41.5087	93.5139	-997	QAL	2.9	0	6.8	0	1.2	1	0.421	0	2.392	0	5.684	-1	1790	51	1.3
43199.4	10000	41.5093	93.5139	-998	QAL	2.7	0	6.8	0	1.2	1	0.392	0	2.258	0	5.762	0	1793	52	1.3
43199.5	10000	41.5099	93.5140	-1003	QAL	2.7	0	7.4	1	1.2	1	0.358	0	2.262	0	6.311	0	1803	47	1.3
43199.6	10000	41.5106	93.5140	-1005	QAL	2.4	0	7.3	1	1.2	1	0.335	-1	2.028	-1	6.053	0	1790	43	1.3
43199.7	10000	41.5112	93.5140	-1004	QAL	2.4	0	7.1	1	1.2	1	0.333	-1	1.981	-1	5.948	0	1783	54	1.3
43199.8	10000	41.5119	93.5141	-1004	QAL	2.2	0	7.4	1	1.2	1	0.297	-1	1.821	-1	6.125	0	1799	44	1.3
43199.9	10000	41.5125	93.5141	-1004	QAL	2.0	-1	7.2	1	1.2	1	0.283	-1	1.653	-1	5.841	0	1791	61	1.3
43200.0	10000	41.5131	93.5141	-1004	QAL	2.0	-1	7.4	1	1.2	1	0.266	-1	1.620	-1	6.099	0	1777	30	1.3
43200.1	10000	41.5138	93.5141	-1004	QAL	1.9	-1	7.5	1	1.2	1	0.252	-1	1.577	-1	6.250	0	1772	49	1.3
43200.2	10000	41.5144	93.5142	-1004	QAL	2.3	0	7.0	0	1.2	1	0.331	-1	1.912	-1	5.773	0	1777	49	1.3
43200.3	10000	41.5151	93.5142	-1004	QAL	2.5	0	7.2	1	1.2	1	0.355	0	2.049	0	5.779	0	1773	46	1.3

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43200.4	10000	41.5157	93.5142	-1004	QAL	2.7	0	7.3	1	1.2	1	0.373	0	2.227	0	5.976	0	1774	48	1.3
43200.5	10000	41.5163	93.5143	-1004	QAL	2.8	1	7.0	0	1.2	1	0.394	0	2.323	0	5.901	0	1778	44	1.3
43200.6	10000	41.5170	93.5143	-1003	QAL	2.9	1	7.2	1	1.2	1	0.404	0	2.469	0	6.111	0	1793	44	1.3
43200.7	10000	41.5176	93.5143	-1005	QAL	2.9	1	6.8	0	1.2	1	0.432	1	2.474	0	5.720	-1	1820	41	1.3
43200.8	10000	41.5182	93.5144	-1005	QAL	3.2	1	6.7	0	1.2	1	0.473	1	2.632	1	5.561	-1	1843	51	1.3
43200.9	10000	41.5189	93.5144	-1006	QAL	2.9	1	7.2	1	1.2	1	0.401	0	2.356	0	5.877	0	1845	51	1.3
43201.0	10000	41.5195	93.5144	-1006	QAL	2.6	0	7.1	1	1.2	1	0.359	0	2.110	0	5.882	0	1860	48	1.3
43201.1	10000	41.5201	93.5145	-1006	QAL	2.5	0	7.2	1	1.2	1	0.349	0	2.048	0	5.864	0	1871	47	1.3
43201.2	10000	41.5208	93.5145	-1006	QAL	2.5	0	7.6	1	1.2	1	0.331	-1	2.003	-1	6.056	0	1873	47	1.3
43201.3	10000	41.5214	93.5145	-1006	QAL	2.5	0	7.6	1	1.3	1	0.327	-1	1.945	-1	5.953	0	1878	51	1.3
43201.4	10000	41.5221	93.5145	-1006	QAL	2.4	0	7.7	1	1.3	1	0.306	-1	1.854	-1	6.063	0	1860	63	1.3
43201.5	10000	41.5227	93.5146	-1007	QAL	2.3	0	7.7	1	1.3	1	0.295	-1	1.812	-1	6.136	0	1845	44	1.3
43201.6	10000	41.5233	93.5146	-1007	QAL	2.6	0	7.4	1	1.2	1	0.344	0	2.075	0	6.034	0	1842	41	1.3
43201.7	10000	41.5240	93.5146	-1007	QAL	2.8	1	7.3	1	1.2	1	0.388	0	2.391	0	6.159	0	1820	45	1.3
43201.8	10000	41.5246	93.5147	-1007	QAL	2.8	1	7.4	1	1.2	1	0.386	0	2.388	0	6.195	0	1808	47	1.3
43201.9	10000	41.5252	93.5147	-1007	QAL	2.9	1	6.8	0	1.1	0	0.421	0	2.502	0	5.942	0	1775	52	1.3
43202.0	10000	41.5259	93.5147	-1007	QAL	2.8	1	6.5	0	1.1	0	0.428	1	2.525	0	5.893	0	1735	52	1.3
43202.1	10000	41.5265	93.5148	-1007	QAL	2.8	1	6.6	0	1.1	0	0.425	1	2.558	0	6.017	0	1718	41	1.3
43202.2	10000	41.5272	93.5148	-1006	QAL	2.8	1	6.3	0	1.1	0	0.451	1	2.667	1	5.918	0	1718	39	1.3
43202.3	10000	41.5278	93.5148	-1005	QAL	2.8	1	6.3	0	1.1	0	0.452	1	2.607	1	5.772	0	1713	42	1.3
43202.4	10000	41.5284	93.5149	-1004	QAL	2.9	1	6.3	0	1.1	0	0.460	1	2.681	1	5.833	0	1732	43	1.3
43202.5	10000	41.5291	93.5149	-1003	QAL	2.8	1	6.5	0	1.1	0	0.422	0	2.580	0	6.112	0	1727	46	1.3
43202.6	10000	41.5297	93.5149	-1003	QAL	2.8	1	6.5	0	1.1	0	0.421	0	2.437	0	5.789	0	1743	44	1.3
43202.7	10000	41.5303	93.5150	-1002	QAL	2.9	1	6.5	0	1.1	0	0.446	1	2.516	0	5.638	-1	1764	42	1.3
43202.8	10000	41.5310	93.5150	-1001	QAL	3.0	1	6.3	0	1.2	1	0.475	1	2.584	0	5.436	-1	1782	40	1.3
43202.9	10000	41.5316	93.5150	-1001	QAL	3.0	1	6.4	0	1.2	1	0.476	1	2.540	0	5.337	-1	1795	52	1.3
43203.0	10000	41.5322	93.5150	-1000	QAL	2.8	1	6.4	0	1.2	1	0.439	1	2.339	0	5.331	-1	1798	38	1.3
43203.1	10000	41.5329	93.5151	-999	QAL	2.7	1	6.3	0	1.2	1	0.430	1	2.207	0	5.136	-1	1784	42	1.3
43203.2	10000	41.5335	93.5151	-998	QAL	3.0	1	5.9	-1	1.2	1	0.504	1	2.464	0	4.891	-2	1790	43	1.3
43203.3	10000	41.5342	93.5151	-998	QAL	2.9	1	6.0	-1	1.2	1	0.481	1	2.448	0	5.085	-1	1771	53	1.3
43203.4	10000	41.5348	93.5152	-995	QAL	2.8	1	6.1	0	1.2	1	0.458	1	2.304	0	5.028	-1	1768	42	1.3
43203.5	10000	41.5354	93.5152	-991	QAL	2.6	1	6.1	0	1.2	1	0.429	1	2.259	0	5.261	-1	1750	46	1.3
43203.6	10000	41.5361	93.5152	-989	QAL	2.6	0	5.8	-1	1.1	1	0.441	1	2.281	0	5.172	-1	1709	42	1.3
43203.7	10000	41.5367	93.5153	-993	QAL	2.7	0	5.7	-1	1.1	0	0.473	1	2.467	0	5.212	-1	1682	59	1.3
43203.8	10000	41.5373	93.5153	-994	QAL	2.6	0	6.1	0	1.1	0	0.417	1	2.384	0	5.721	-1	1664	48	1.3
43203.9	10000	41.5380	93.5153	-993	QAL	2.3	0	6.2	0	1.1	0	0.372	1	2.106	0	5.655	-1	1622	37	1.3
43204.0	10000	41.5386	93.5154	-992	QAL	2.5	0	6.1	0	1.1	0	0.406	1	2.334	0	5.756	0	1609	42	1.3
43204.1	10000	41.5393	93.5154	-991	QAL	2.4	0	6.0	-1	1.0	0	0.391	1	2.337	0	5.981	0	1586	55	1.3
43204.2	10000	41.5399	93.5154	-990	QAL	2.2	0	6.0	-1	1.0	0	0.364	1	2.114	0	5.802	0	1578	46	1.3
43204.3	10000	41.5405	93.5154	-989	QAL	2.2	0	6.5	0	1.0	0	0.340	1	2.155	0	6.346	0	1577	38	1.3
43204.4	10000	41.5412	93.5155	-988	QAL	2.1	-1	6.2	0	1.0	0	0.345	1	2.056	0	5.964	0	1580	54	1.4
43204.5	10000	41.5418	93.5155	-986	QAL	2.1	-1	6.1	0	1.0	0	0.342	1	1.998	-1	5.846	0	1581	53	1.4
43204.6	10000	41.5424	93.5155	-985	QAL	2.1	-1	6.3	0	1.1	0	0.337	1	2.039	0	6.050	0	1590	47	1.4
43204.7	10000	41.5431	93.5156	-985	QAL	2.0	-1	6.3	0	1.1	0	0.317	-1	1.847	-1	5.833	0	1610	42	1.4
43204.8	10000	41.5437	93.5156	-984	QAL	2.2	0	6.4	0	1.1	0	0.345	0	1.950	-1	5.645	-1	1613	49	1.4
43204.9	10000	41.5443	93.5156	-983	QAL	2.4	0	6.1	0	1.1	0	0.401	1	2.186	0	5.458	-1	1600	42	1.4
43205.0	10000	41.5450	93.5157	-982	QAL	2.3	0	6.1	0	1.1	0	0.377	0	2.018	-1	5.357	-1	1607	45	1.4
43205.1	10000	41.5456	93.5157	-981	QAL	2.4	0	6.1	0	1.1	0	0.388	0	2.098	0	5.409	-1	1597	55	1.4
43205.2	10000	41.5463	93.5157	-979	QAL	2.5	0	5.9	-1	1.1	0	0.419	0	2.205	0	5.257	-1	1605	41	1.4
43205.3	10000	41.5469	93.5157	-979	QAL	2.4	0	6.0	-1	1.1	0	0.395	0	2.047	0	5.187	-1	1617	50	1.4
43205.4	10000	41.5475	93.5158	-978	QAL	2.3	0	5.8	-1	1.1	0	0.386	-1	2.012	-1	5.213	-1	1596	45	1.4
43205.5	10000	41.5482	93.5158	-977	QAL	2.0	-1	6.1	0	1.1	0	0.331	-1	1.808	-1	5.463	-1	1604	44	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43205.6	10000	41.5488	93.5159	-976	QAL	1.9	-1	6.8	0	1.1	0	0.275	-1	1.629	-1	5.915	0	1617	44	1.4
43205.7	10000	41.5494	93.5159	-976	QAL	1.8	-1	6.6	0	1.1	0	0.279	-1	1.610	-1	5.765	0	1613	39	1.4
43205.8	10000	41.5501	93.5159	-974	QAL	1.7	-1	7.1	1	1.1	0	0.239	-2	1.497	-1	6.259	0	1607	51	1.4
43205.9	10000	41.5507	93.5159	-974	QAL	1.6	-1	6.9	0	1.1	0	0.237	-2	1.464	-2	6.175	0	1574	39	1.4
43206.0	10000	41.5514	93.5160	-973	QAL	1.8	-1	6.5	0	1.1	0	0.276	-1	1.697	-1	6.158	0	1544	53	1.4
43206.1	10000	41.5520	93.5160	-972	QAL	1.8	-1	6.6	0	1.0	0	0.279	-1	1.767	-1	6.339	0	1495	40	1.4
43206.2	10000	41.5526	93.5160	-971	QAL	1.9	-1	5.8	-1	0.9	-1	0.323	-1	1.975	-1	6.119	0	1412	43	1.4
43206.3	10000	41.5533	93.5161	-970	QAL	1.8	-1	4.9	-2	0.8	-2	0.357	0	2.088	0	5.842	0	1323	50	1.4
43206.4	10000	41.5539	93.5161	-969	QAL	1.5	-2	4.5	-2	0.8	-2	0.338	0	1.932	-1	5.721	-1	1239	41	1.4
43206.5	10000	41.5546	93.5161	-968	QAL	1.4	-2	3.6	-3	0.7	-2	0.398	0	1.995	-1	5.008	-1	1164	44	1.4
43206.6	10000	41.5552	93.5162	-968	QAL	1.4	-2	3.3	-3	0.7	-3	0.436	1	2.145	0	4.915	-2	1093	44	1.4
43206.7	10000	41.5558	93.5162	-967	QAL	1.2	-2	3.1	-3	0.6	-3	0.376	0	1.938	-1	5.158	-1	1024	41	1.4
43206.8	10000	41.5564	93.5162	-965	QAL	1.3	-2	3.0	-4	0.6	-3	0.425	1	2.167	0	5.096	-1	995	56	1.4
43206.9	10000	41.5571	93.5163	-964	QAL	1.2	-2	3.4	-3	0.5	-4	0.355	0	2.189	0	6.163	0	985	45	1.4
43207.0	10000	41.5577	93.5163	-963	QAL	1.4	-2	3.5	-3	0.6	-3	0.393	0	2.443	0	6.223	0	1008	41	1.4
43207.1	10000	41.5584	93.5163	-962	QAL	1.5	-2	3.4	-3	0.6	-3	0.450	1	2.641	1	5.871	0	1022	46	1.4
43207.2	10000	41.5590	93.5163	-961	QO	1.6	-1	3.6	-2	0.6	-3	0.428	0	2.644	1	6.175	1	1030	43	1.4
43207.3	10000	41.5596	93.5164	-960	QO	1.6	-1	3.6	-2	0.6	-3	0.443	0	2.642	1	5.969	1	1047	58	1.4
43207.4	10000	41.5603	93.5164	-959	QO	1.5	-1	3.6	-2	0.7	-2	0.432	0	2.376	0	5.505	0	1076	44	1.4
43207.5	10000	41.5609	93.5164	-958	QO	1.4	-1	3.6	-2	0.7	-2	0.395	0	2.111	0	5.349	0	1087	41	1.4
43207.6	10000	41.5616	93.5165	-957	QO	1.4	-1	3.7	-2	0.7	-2	0.373	0	1.946	0	5.223	0	1099	47	1.4
43207.7	10000	41.5622	93.5165	-956	QO	1.2	-2	3.7	-2	0.7	-2	0.328	-1	1.704	-1	5.189	0	1108	38	1.4
43207.8	10000	41.5628	93.5165	-955	QO	1.5	-1	4.1	-1	0.7	-2	0.377	0	2.201	0	5.842	1	1139	44	1.4
43207.9	10000	41.5635	93.5166	-953	QO	1.4	-1	4.3	-1	0.7	-2	0.332	-1	1.963	0	5.917	1	1177	40	1.4
43208.0	10000	41.5641	93.5166	-951	QO	1.5	-1	4.7	-1	0.8	-2	0.313	-1	1.953	0	6.230	1	1226	45	1.4
43208.1	10000	41.5647	93.5166	-949	QO	2.0	0	5.0	0	0.8	-1	0.399	0	2.455	1	6.160	1	1287	45	1.4
43208.2	10000	41.5654	93.5166	-947	QO	1.9	0	5.2	0	0.9	-1	0.375	0	2.259	1	6.031	1	1365	46	1.4
43208.3	10000	41.5660	93.5167	-945	QO	2.0	0	5.3	0	0.9	-1	0.380	0	2.273	1	5.981	1	1441	38	1.4
43208.4	10000	41.5667	93.5167	-944	QO	2.1	0	5.6	0	1.0	0	0.376	0	2.183	1	5.810	1	1508	54	1.4
43208.5	10000	41.5673	93.5167	-942	QO	2.0	0	5.9	0	1.0	0	0.344	0	2.010	1	5.839	1	1559	40	1.4
43208.6	10000	41.5679	93.5168	-942	QO	2.2	0	6.2	1	1.1	0	0.354	0	2.049	1	5.786	1	1606	46	1.4
43208.7	10000	41.5686	93.5168	-944	QO	2.4	0	6.2	1	1.1	0	0.383	0	2.251	1	5.876	1	1649	60	1.4
43208.8	10000	41.5692	93.5168	-947	QO	2.2	0	6.2	1	1.1	0	0.362	0	1.986	0	5.495	1	1674	47	1.4
43208.9	10000	41.5697	93.5168	-948	QO	2.4	0	6.2	1	1.1	0	0.379	0	2.070	0	5.463	0	1688	59	1.4
43209.0	10000	41.5703	93.5168	-948	QO	2.5	1	5.9	1	1.3	1	0.422	1	2.006	0	4.756	-1	1719	41	1.4
43209.1	10000	41.5709	93.5167	-944	QO	2.5	1	6.0	1	1.2	1	0.427	1	2.060	0	4.821	-1	1723	45	1.4
43209.2	10000	41.5715	93.5167	-942	QO	2.5	1	6.0	1	1.3	2	0.420	1	1.978	0	4.707	-1	1734	48	1.4
43209.3	10000	41.5721	93.5167	-940	QO	2.5	1	5.9	0	1.3	2	0.419	1	1.884	0	4.496	-1	1761	44	1.3
43209.4	10000	41.5727	93.5167	-938	QO	2.2	1	6.0	1	1.4	2	0.359	0	1.563	-1	4.350	-1	1762	51	1.3
43209.5	10000	41.5733	93.5167	-936	QO	2.1	1	6.2	1	1.4	2	0.340	0	1.569	-1	4.620	-1	1774	45	1.3
43209.6	10000	41.5739	93.5166	-935	QO	2.1	1	6.2	1	1.4	2	0.346	0	1.558	-1	4.505	-1	1779	45	1.3
43209.7	10000	41.5745	93.5166	-933	QO	2.2	1	6.9	1	1.4	2	0.322	-1	1.666	-1	5.170	0	1756	52	1.3
43209.8	10000	41.5751	93.5166	-932	QO	2.2	1	6.9	1	1.4	2	0.321	-1	1.642	-1	5.119	0	1774	48	1.3
43209.9	10000	41.5757	93.5166	-931	QO	2.2	1	6.8	1	1.3	2	0.324	-1	1.642	-1	5.072	0	1783	57	1.3
43210.0	10000	41.5763	93.5166	-930	QO	2.3	1	7.3	1	1.3	2	0.312	-1	1.702	-1	5.461	0	1779	42	1.3
43210.1	10000	41.5769	93.5166	-928	QO	2.6	1	7.2	1	1.3	2	0.363	0	2.005	0	5.530	0	1774	41	1.3
43210.2	10000	41.5775	93.5165	-927	QO	2.5	1	7.1	1	1.3	2	0.353	0	1.981	0	5.618	0	1764	38	1.3
43210.3	10000	41.5781	93.5165	-925	QO	2.5	1	7.5	1	1.3	2	0.329	-1	2.003	1	6.084	0	1766	36	1.3
43210.4	10000	41.5787	93.5165	-924	QO	2.3	1	6.8	1	1.2	1	0.326	-1	1.818	0	5.581	0	1751	40	1.3
43210.5	10000	41.5793	93.5165	-922	QO	2.3	1	6.3	1	1.2	1	0.360	0	1.831	0	5.085	0	1722	53	1.3
43210.6	10000	41.5798	93.5165	-921	QO	2.0	1	5.8	1	1.2	1	0.347	0	1.623	-1	4.684	-1	1671	43	1.3
43210.7	10000	41.5805	93.5165	-918	QO	1.9	0	5.3	0	1.2	1	0.363	0	1.590	-1	4.384	-1	1620	43	1.3

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43210.8	10000	41.5810	93.5164	-917	QW	1.7	-1	5.3	0	1.2	1	0.315	-1	1.395	-1	4.430	-1	1600	48	1.3
43210.9	10000	41.5816	93.5164	-917	QW	1.7	-1	5.2	0	1.2	1	0.323	-1	1.419	-1	4.391	-1	1572	41	1.3
43211.0	10000	41.5822	93.5164	-917	QW	1.8	0	5.1	0	1.2	1	0.352	0	1.547	-1	4.391	-1	1532	43	1.3
43211.1	10000	41.5828	93.5164	-917	QW	1.8	-1	5.5	0	1.1	1	0.317	-1	1.549	-1	4.878	-1	1512	49	1.3
43211.2	10000	41.5834	93.5164	-916	QW	1.6	-1	5.9	1	1.1	0	0.277	-1	1.507	-1	5.449	0	1481	38	1.3
43211.3	10000	41.5840	93.5164	-914	QW	1.8	-1	6.2	1	1.0	0	0.284	-1	1.713	0	6.033	1	1467	42	1.3
43211.4	10000	41.5846	93.5163	-914	QW	1.9	0	6.0	1	1.0	0	0.322	-1	1.912	0	5.936	1	1460	45	1.3
43211.5	10000	41.5852	93.5163	-914	QW	1.9	0	5.9	1	1.0	-1	0.320	-1	1.889	0	5.906	1	1441	57	1.3
43211.6	10000	41.5858	93.5163	-913	QW	1.8	0	5.8	0	1.0	0	0.311	-1	1.753	0	5.632	1	1428	36	1.3
43211.7	10000	41.5864	93.5163	-911	QW	1.7	-1	5.3	0	1.0	0	0.324	0	1.664	-1	5.131	0	1419	46	1.2
43211.8	10000	41.5870	93.5163	-913	QW	1.9	0	5.2	0	1.1	0	0.363	0	1.728	0	4.761	-1	1420	54	1.2
43211.9	10000	41.5876	93.5163	-913	QW	1.9	0	4.9	-1	1.1	0	0.387	0	1.741	0	4.496	-1	1437	45	1.2
43212.0	10000	41.5882	93.5162	-912	CULTRL	2.0	999	4.8	999	1.1	999	0.421	999	1.816	999	4.318	999	1462	38	1.2
43212.1	10000	41.5888	93.5162	-911	CULTRL	2.0	999	4.9	999	1.1	999	0.405	999	1.765	999	4.362	999	1467	44	1.2
43212.2	10000	41.5894	93.5162	-910	CULTRL	2.0	999	4.8	999	1.1	999	0.406	999	1.735	999	4.275	999	1470	49	1.2
43212.3	10000	41.5900	93.5162	-909	CULTRL	2.2	999	4.7	999	1.1	999	0.474	999	2.129	999	4.488	999	1470	44	1.2
43212.4	10000	41.5905	93.5162	-909	CULTRL	2.3	999	4.8	999	1.1	999	0.489	999	2.205	999	4.509	999	1478	55	1.2
43212.5	10000	41.5911	93.5162	-908	CULTRL	2.3	999	4.7	999	1.0	999	0.497	999	2.276	999	4.582	999	1484	47	1.2
43212.6	10000	41.5917	93.5161	-907	CULTRL	2.2	999	5.1	999	1.0	999	0.438	999	2.177	999	4.967	999	1500	53	1.2
43212.7	10000	41.5923	93.5161	-909	CULTRL	2.4	999	5.0	999	1.0	999	0.492	999	2.380	999	4.839	999	1507	46	1.2
43212.8	10000	41.5929	93.5161	-910	CULTRL	2.5	999	4.9	999	1.0	999	0.508	999	2.524	999	4.968	999	1525	48	1.2
43212.9	10000	41.5935	93.5161	-910	CULTRL	2.7	999	5.5	999	1.0	999	0.498	999	2.741	999	5.501	999	1539	38	1.2
43213.0	10000	41.5941	93.5161	-909	CULTRL	2.4	999	5.7	999	1.1	999	0.416	999	2.197	999	5.282	999	1541	43	1.2
43213.1	10000	41.5947	93.5161	-908	QW	2.2	1	6.0	1	1.1	1	0.373	0	2.005	0	5.378	0	1554	46	1.2
43213.2	10000	41.5953	93.5160	-908	QW	2.3	1	6.1	1	1.1	0	0.371	0	2.101	0	5.662	1	1551	45	1.2
43213.3	10000	41.5959	93.5160	-907	QW	2.4	1	6.0	1	1.1	0	0.397	0	2.292	0	5.781	1	1545	42	1.2
43213.4	10000	41.5965	93.5160	-906	QW	2.2	1	6.2	1	1.0	0	0.361	0	2.154	0	5.972	1	1529	44	1.2
43213.5	10000	41.5971	93.5160	-905	QW	2.1	1	6.5	2	1.1	1	0.328	0	2.019	0	6.155	2	1505	50	1.2
43213.6	10000	41.5977	93.5160	-903	QW	2.1	1	6.0	1	1.0	0	0.355	0	2.024	0	5.707	1	1489	52	1.2
43213.7	10000	41.5983	93.5159	-900	QW	2.3	1	5.8	1	1.0	0	0.400	0	2.318	0	5.799	1	1495	37	1.2
43213.8	10000	41.5989	93.5159	-896	QW	2.4	1	5.8	1	0.9	-1	0.411	0	2.540	1	6.175	2	1473	55	1.2
43213.9	10000	41.5995	93.5159	-897	QW	2.2	1	5.8	1	1.0	-1	0.374	0	2.240	1	5.982	1	1463	53	1.2
43214.0	10000	41.6001	93.5159	-901	QW	2.1	1	5.9	1	1.0	0	0.360	0	2.070	0	5.749	1	1457	37	1.2
43214.1	10000	41.6007	93.5159	-902	QW	2.0	1	5.8	1	1.0	0	0.348	0	1.923	0	5.530	1	1464	41	1.2
43214.2	10000	41.6012	93.5159	-902	QAL	2.0	0	5.4	-1	1.0	0	0.372	0	1.925	-1	5.180	-1	1465	40	1.2
43214.3	10000	41.6018	93.5158	-902	QAL	2.0	-1	5.5	-1	1.1	0	0.358	0	1.794	-1	5.006	-1	1478	48	1.2
43214.4	10000	41.6024	93.5158	-901	QAL	1.8	-1	5.3	-1	1.1	0	0.346	0	1.733	-1	5.010	-1	1482	38	1.2
43214.5	10000	41.6030	93.5158	-901	QAL	2.0	-1	5.5	-1	1.1	0	0.372	0	1.841	-1	4.955	-1	1504	53	1.1
43214.6	10000	41.6036	93.5158	-900	QAL	2.1	-1	5.4	-1	1.1	0	0.394	0	1.923	-1	4.882	-2	1520	38	1.1
43214.7	10000	41.6042	93.5158	-899	QAL	2.0	-1	5.3	-2	1.1	0	0.410	0	1.836	-1	4.479	-2	1524	40	1.1
43214.8	10000	41.6048	93.5158	-899	QAL	2.1	-1	5.4	-1	1.1	0	0.386	0	1.829	-1	4.742	-2	1538	60	1.1
43214.9	10000	41.6054	93.5157	-898	QAL	2.2	-1	5.5	-1	1.2	0	0.404	0	1.868	-1	4.628	-2	1553	49	1.1
43215.0	10000	41.6060	93.5157	-898	QAL	2.1	-1	5.5	-1	1.2	0	0.410	0	1.882	-1	4.596	-2	1549	45	1.1
43215.1	10000	41.6066	93.5157	-897	QAL	2.1	-1	5.5	-1	1.2	0	0.376	0	1.764	-1	4.689	-2	1555	55	1.1
43215.2	10000	41.6072	93.5157	-896	QAL	1.8	-1	5.4	-1	1.2	0	0.322	-1	1.464	-2	4.550	-2	1558	43	1.1
43215.3	10000	41.6078	93.5157	-895	QW	1.8	-1	5.3	0	1.2	0	0.330	0	1.490	-1	4.519	-1	1553	37	1.1
43215.4	10000	41.6084	93.5157	-895	QW	2.1	0	5.6	0	1.2	0	0.370	0	1.779	0	4.804	-1	1554	57	1.1
43215.5	10000	41.6090	93.5156	-894	QW	2.0	0	5.2	0	1.2	0	0.388	0	1.734	0	4.467	-1	1550	33	1.1
43215.6	10000	41.6096	93.5156	-893	QW	1.9	0	5.1	0	1.2	0	0.369	0	1.636	-1	4.439	-1	1543	42	1.1
43215.7	10000	41.6102	93.5156	-893	QW	1.8	0	5.0	0	1.2	0	0.316	-1	1.555	-1	4.928	0	1561	52	1.1
43215.8	10000	41.6108	93.5156	-893	QW	2.1	0	5.5	0	1.2	0	0.357	-1	1.898	0	5.309	0	1548	47	1.1
43215.9	10000	41.6114	93.5156	-893	QW	2.3	0	5.4	0	1.1	0	0.421	0	2.145	0	5.099	0	1530	51	1.2

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43216.0	10000	41.6119	93.5155	-891	QW	2.4	1	5.4	0	1.1	0	0.439	1	2.243	1	5.107	0	1517	29	1.2
43216.1	10000	41.6125	93.5155	-889	QW	2.4	1	5.2	0	1.0	0	0.457	1	2.375	1	5.202	0	1505	48	1.2
43216.2	10000	41.6131	93.5155	-887	QW	2.3	1	5.7	0	1.0	-1	0.404	0	2.309	1	5.708	1	1499	54	1.2
43216.3	10000	41.6137	93.5155	-887	QW	2.2	1	5.8	1	1.0	-1	0.380	0	2.278	1	5.990	1	1501	58	1.2
43216.4	10000	41.6143	93.5155	-887	QW	2.3	1	5.4	0	1.0	-1	0.432	1	2.342	1	5.426	0	1483	54	1.2
43216.5	10000	41.6149	93.5155	-887	QW	2.2	0	5.1	-1	1.0	0	0.429	1	2.143	0	4.995	0	1485	59	1.2
43216.6	10000	41.6155	93.5154	-889	QW	1.9	0	5.3	0	1.1	0	0.361	0	1.806	0	5.009	0	1490	38	1.2
43216.7	10000	41.6161	93.5154	-889	QW	1.8	-1	5.2	0	1.1	0	0.336	0	1.637	-1	4.867	-1	1499	48	1.2
43216.8	10000	41.6167	93.5154	-890	QW	1.7	-1	5.3	0	1.1	1	0.327	0	1.552	-1	4.745	-1	1506	49	1.2
43216.9	10000	41.6173	93.5154	-889	QW	1.7	-1	5.1	0	1.1	1	0.328	0	1.506	-1	4.586	-1	1504	57	1.2
43217.0	10000	41.6179	93.5154	-889	QW	1.9	0	5.0	-1	1.1	1	0.374	0	1.678	0	4.488	-1	1508	46	1.2
43217.1	10000	41.6185	93.5154	-888	QW	1.8	0	5.1	-1	1.1	0	0.354	0	1.682	0	4.745	-1	1511	50	1.2
43217.2	10000	41.6191	93.5153	-888	QW	1.8	0	5.4	0	1.1	0	0.338	0	1.684	0	4.989	0	1508	41	1.2
43217.3	10000	41.6197	93.5153	-888	QW	2.0	0	5.5	0	1.1	0	0.358	0	1.884	0	5.266	0	1509	48	1.2
43217.4	10000	41.6203	93.5153	-889	QW	2.1	0	5.8	1	1.0	0	0.356	0	1.971	0	5.534	1	1520	43	1.2
43217.5	10000	41.6209	93.5153	-890	QW	1.8	0	6.3	1	1.0	0	0.290	-1	1.742	0	6.003	1	1528	51	1.2
43217.6	10000	41.6215	93.5153	-890	QW	1.9	0	6.9	2	1.0	0	0.271	-1	1.798	0	6.623	2	1534	62	1.2
43217.7	10000	41.6221	93.5153	-889	QW	1.7	-1	7.0	2	1.1	0	0.247	-1	1.638	-1	6.634	2	1535	41	1.2
43217.8	10000	41.6226	93.5152	-888	QW	1.8	0	6.8	2	1.1	0	0.264	-1	1.662	-1	6.296	2	1549	41	1.2
43217.9	10000	41.6232	93.5152	-888	QW	2.0	0	6.9	2	1.1	1	0.295	-1	1.798	0	6.106	1	1567	42	1.2
43218.0	10000	41.6238	93.5152	-888	QW	2.0	0	6.8	2	1.1	1	0.294	-1	1.789	0	6.087	1	1570	50	1.2
43218.1	10000	41.6244	93.5152	-887	QW	1.8	0	6.7	2	1.1	1	0.271	-1	1.626	-1	5.990	1	1567	44	1.2
43218.2	10000	41.6250	93.5152	-887	QW	1.8	0	6.3	1	1.1	1	0.292	-1	1.640	-1	5.624	1	1565	37	1.2
43218.3	10000	41.6256	93.5152	-886	QW	1.9	0	6.0	1	1.1	1	0.326	0	1.701	0	5.216	0	1558	47	1.2
43218.4	10000	41.6262	93.5151	-886	QW	1.9	0	6.4	1	1.1	0	0.294	-1	1.695	0	5.770	1	1569	39	1.2
43218.5	10000	41.6268	93.5151	-885	QW	2.0	0	6.7	2	1.1	1	0.292	-1	1.769	0	6.057	1	1565	49	1.2
43218.6	10000	41.6274	93.5151	-836	QW	1.7	-1	6.6	2	1.1	0	0.257	-1	1.607	-1	6.264	2	1545	48	1.2
43218.7	10000	41.6280	93.5151	-886	QW	1.5	-1	6.7	2	1.1	0	0.220	-2	1.357	-1	6.157	2	1541	34	1.2
43218.8	10000	41.6286	93.5151	-888	QW	1.6	-1	6.7	2	1.1	0	0.235	-1	1.500	-1	6.378	2	1536	42	1.2
43218.9	10000	41.6292	93.5150	-888	QW	1.7	-1	6.6	2	1.0	0	0.259	-1	1.663	-1	6.419	2	1534	53	1.2
43219.0	10000	41.6298	93.5150	-888	QW	1.7	-1	6.2	2	1.0	0	0.271	-1	1.606	-1	5.928	1	1530	40	1.2
43219.1	10000	41.6304	93.5150	-887	QW	1.8	0	5.7	1	1.0	0	0.319	-1	1.757	0	5.499	0	1512	47	1.2
43219.2	10000	41.6310	93.5150	-886	QW	1.5	-1	5.5	1	1.0	0	0.272	-1	1.456	-1	5.347	0	1516	26	1.2
43219.3	10000	41.6316	93.5150	-886	QW	1.5	-1	5.7	1	1.1	0	0.256	-1	1.324	-1	5.173	0	1525	62	1.2
43219.4	10000	41.6322	93.5150	-885	QW	1.6	-1	5.4	1	1.1	1	0.298	-1	1.425	-1	4.773	-1	1530	48	1.2
43219.5	10000	41.6328	93.5150	-885	QW	1.6	-1	5.2	1	1.1	1	0.303	-1	1.382	-1	4.563	-1	1539	51	1.2
43219.6	10000	41.6333	93.5149	-885	QW	1.7	-1	5.1	1	1.2	1	0.332	0	1.398	-1	4.214	-2	1536	45	1.2
43219.7	10000	41.6339	93.5149	-884	QW	1.6	-1	5.4	1	1.2	1	0.303	-1	1.360	-1	4.491	-1	1539	47	1.2
43219.8	10000	41.6345	93.5149	-885	QW	1.7	-1	5.4	2	1.2	1	0.313	-1	1.390	-1	4.436	-1	1544	34	1.2
43219.9	10000	41.6351	93.5149	-885	QW	1.9	0	5.3	1	1.2	1	0.360	0	1.583	-1	4.398	-1	1537	40	1.2
43220.0	10000	41.6357	93.5149	-885	QW	2.0	0	5.3	1	1.2	1	0.370	0	1.696	0	4.580	-1	1541	53	1.2
43220.1	10000	41.6363	93.5148	-886	QW	1.9	0	5.5	1	1.1	1	0.354	0	1.760	0	4.976	0	1525	47	1.2
43220.2	10000	41.6369	93.5148	-885	QW	2.0	0	5.7	1	1.1	0	0.351	0	1.861	0	5.301	0	1520	59	1.2
43220.3	10000	41.6375	93.5148	-885	QW	1.8	-1	6.1	1	1.0	-1	0.288	-1	1.720	0	5.961	1	1519	51	1.2
43220.4	10000	41.6381	93.5148	-885	QW	1.9	-1	6.0	1	1.0	-1	0.322	-1	1.982	0	6.158	2	1516	49	1.2
43220.5	10000	41.6387	93.5148	-885	QW	1.8	-1	6.0	1	0.9	-2	0.297	-1	1.927	0	6.478	2	1514	50	1.2
43220.6	10000	41.6393	93.5148	-883	QW	1.7	-1	5.9	1	0.9	-2	0.293	-1	1.963	0	6.697	2	1507	36	1.2
43220.7	10000	41.6399	93.5147	-883	QW	1.9	0	5.5	1	0.9	-2	0.343	0	2.118	0	6.167	2	1497	39	1.2
43220.8	10000	41.6405	93.5147	-883	QW	2.0	0	5.6	1	0.9	-2	0.353	0	2.302	1	6.516	2	1496	32	1.2
43220.9	10000	41.6411	93.5147	-882	QW	2.0	0	5.6	1	0.8	-3	0.360	0	2.427	1	6.742	3	1470	46	1.2
43221.0	10000	41.6417	93.5147	-880	QW	2.2	0	5.4	1	0.8	-3	0.401	0	2.715	2	6.772	3	1448	39	1.3
43221.1	10000	41.6423	93.5147	-875	QW	2.1	0	5.3	0	0.8	-3	0.398	0	2.773	2	6.975	3	1436	46	1.3

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43221.2	10000	41.6429	93.5146	-871	QW	2.2	1	5.3	0	0.8	-3	0.417	0	2.807	2	6.731	2	1414	42	1.3
43221.3	10000	41.6434	93.5146	-878	QW	2.1	0	5.5	0	0.8	-3	0.383	0	2.623	2	6.842	3	1409	38	1.3
43221.4	10000	41.6440	93.5146	-884	QW	2.1	0	5.7	0	0.8	-3	0.368	0	2.654	2	7.210	3	1411	49	1.3
43221.5	10000	41.6446	93.5146	-886	QW	2.1	0	5.5	0	0.8	-2	0.384	0	2.618	1	6.815	3	1415	47	1.3
43221.6	10000	41.6452	93.5146	-886	QW	2.2	0	5.3	0	0.9	-2	0.405	0	2.455	1	6.060	1	1434	35	1.3
43221.7	10000	41.6459	93.5146	-884	QW	2.2	1	5.5	0	0.9	-1	0.408	0	2.367	1	5.806	1	1452	42	1.3
43221.8	10000	41.6465	93.5146	-883	QW	2.1	0	5.6	0	1.0	0	0.377	0	2.049	1	5.442	0	1474	47	1.3
43221.9	10000	41.6471	93.5147	-884	QW	2.0	0	6.1	0	1.1	0	0.335	0	1.894	0	5.653	1	1507	50	1.3
43222.0	10000	41.6477	93.5147	-885	QW	2.2	1	5.6	0	1.1	0	0.393	0	2.043	0	5.203	0	1512	52	1.3
43222.1	10000	41.6483	93.5148	-884	QW	2.0	0	5.7	0	1.1	0	0.349	0	1.852	0	5.311	0	1518	58	1.4
43222.2	10000	41.6489	93.5148	-883	QW	1.9	0	6.3	1	1.1	0	0.311	-1	1.852	0	5.952	1	1520	46	1.4
43222.3	10000	41.6496	93.5148	-883	QW	1.8	-1	6.4	1	1.0	0	0.275	-1	1.714	0	6.238	2	1518	47	1.4
43222.4	10000	41.6502	93.5148	-883	QW	1.6	-1	6.5	2	1.0	0	0.253	-1	1.641	-1	6.489	2	1505	45	1.4
43222.5	10000	41.6508	93.5149	-883	QW	1.6	-1	6.5	1	1.0	-1	0.244	-1	1.619	-1	6.646	2	1487	35	1.4
43222.6	10000	41.6514	93.5149	-883	QW	1.5	-1	6.1	1	1.0	-1	0.239	-1	1.518	-1	6.345	2	1469	44	1.4
43222.7	10000	41.6520	93.5150	-884	QW	1.3	-2	6.4	1	1.0	-1	0.202	-2	1.329	-1	6.575	2	1473	44	1.4
43222.8	10000	41.6527	93.5150	-884	QW	1.3	-2	6.3	1	1.0	0	0.212	-2	1.319	-1	6.214	2	1474	55	1.4
43222.9	10000	41.6533	93.5150	-884	QW	1.5	-1	5.8	1	1.1	0	0.250	-1	1.381	-1	5.528	1	1488	66	1.4
43223.0	10000	41.6539	93.5150	-884	QW	1.7	-1	5.9	1	1.0	0	0.280	-1	1.594	-1	5.687	1	1496	46	1.4
43223.1	10000	41.6545	93.5151	-884	QW	1.4	-1	5.8	0	1.1	0	0.251	-1	1.345	-1	5.357	0	1511	47	1.4
43223.2	10000	41.6551	93.5151	-884	QW	1.5	-1	5.8	1	1.1	0	0.253	-1	1.313	-1	5.179	0	1513	51	1.4
43223.3	10000	41.6558	93.5152	-883	QW	1.4	-1	5.7	0	1.1	0	0.251	-1	1.295	-1	5.156	0	1507	60	1.4
43223.4	10000	41.6564	93.5152	-883	QW	1.3	-2	5.8	1	1.1	1	0.227	-2	1.169	-2	5.154	0	1489	56	1.4
43223.5	10000	41.6570	93.5152	-883	QW	1.4	-1	5.8	0	1.1	1	0.240	-1	1.248	-1	5.209	0	1467	48	1.4
43223.6	10000	41.6576	93.5152	-883	QW	1.4	-1	5.7	0	1.0	0	0.255	-1	1.396	-1	5.471	0	1445	45	1.4
43223.7	10000	41.6582	93.5153	-882	QW	1.4	-2	5.4	0	1.1	0	0.249	-1	1.282	-1	5.147	0	1449	51	1.4
43223.8	10000	41.6588	93.5153	-882	QW	1.6	-1	5.5	0	1.0	-1	0.286	-1	1.571	-1	5.494	0	1440	42	1.4
43223.9	10000	41.6595	93.5154	-883	QW	1.7	-1	5.4	0	1.0	-1	0.317	-1	1.748	-1	5.516	1	1451	46	1.4
43224.0	10000	41.6601	93.5154	-885	QW	1.8	-1	5.3	0	0.9	-1	0.332	0	1.848	0	5.567	1	1458	43	1.4
43224.1	10000	41.6607	93.5154	-885	QW	1.8	-1	5.1	-1	0.9	-1	0.348	0	1.903	0	5.476	0	1451	39	1.4
43224.2	10000	41.6613	93.5155	-884	QW	1.9	0	5.2	0	1.0	-1	0.367	0	1.999	0	5.442	0	1470	28	1.4
43224.3	10000	41.6619	93.5155	-884	QW	1.8	0	5.3	0	1.1	0	0.348	0	1.743	0	5.003	-1	1482	39	1.4
43224.4	10000	41.6626	93.5155	-884	QW	1.8	-1	5.1	0	1.1	0	0.345	0	1.680	-1	4.867	-1	1476	42	1.4
43224.5	10000	41.6632	93.5155	-883	QW	1.7	-1	5.3	0	1.1	0	0.319	-1	1.605	-1	5.025	0	1481	39	1.4
43224.6	10000	41.6638	93.5156	-883	QW	1.7	-1	5.6	0	1.1	0	0.314	-1	1.660	-1	5.287	0	1478	45	1.4
43224.7	10000	41.6644	93.5156	-883	QW	1.8	0	5.7	0	1.1	0	0.323	-1	1.714	0	5.301	0	1492	47	1.4
43224.8	10000	41.6650	93.5157	-883	QW	2.1	0	6.1	1	1.1	0	0.353	0	1.924	0	5.453	0	1519	49	1.4
43224.9	10000	41.6657	93.5157	-882	QW	2.0	0	5.7	0	1.1	0	0.353	0	1.929	0	5.464	0	1515	50	1.4
43225.0	10000	41.6663	93.5157	-882	QW	2.0	0	5.8	0	1.0	0	0.341	0	1.937	0	5.683	1	1510	43	1.4
43225.1	10000	41.6669	93.5157	-881	QW	2.1	0	5.8	1	1.0	0	0.367	0	2.047	1	5.572	1	1518	41	1.4
43225.2	10000	41.6675	93.5158	-879	QW	2.2	1	5.7	1	1.1	1	0.394	0	1.994	0	5.057	0	1525	50	1.4
43225.3	10000	41.6681	93.5158	-876	QW	2.1	0	5.5	1	1.1	1	0.372	0	1.792	0	4.824	-1	1534	60	1.4
43225.4	10000	41.6688	93.5159	-876	QW	2.0	0	5.7	1	1.2	1	0.342	0	1.705	0	4.989	0	1536	52	1.4
43225.5	10000	41.6694	93.5159	-881	QW	1.7	-1	5.8	1	1.1	1	0.286	-1	1.460	-1	5.102	0	1532	46	1.4
43225.6	10000	41.6700	93.5159	-883	QW	1.7	-1	5.9	1	1.2	1	0.288	-1	1.404	-1	4.869	-1	1538	42	1.4
43225.7	10000	41.6706	93.5159	-882	QW	1.7	-1	5.9	1	1.2	1	0.296	-1	1.444	-1	4.877	-1	1550	44	1.4
43225.8	10000	41.6712	93.5160	-882	QW	1.6	-1	6.1	1	1.2	1	0.267	-1	1.421	-1	5.325	0	1544	39	1.4
43225.9	10000	41.6718	93.5160	-883	QW	1.6	-1	5.9	1	1.2	1	0.266	-1	1.370	-1	5.144	0	1550	48	1.4
43226.0	10000	41.6725	93.5161	-883	QW	1.5	-1	6.1	1	1.2	1	0.239	-1	1.288	-1	5.389	0	1539	39	1.4
43226.1	10000	41.6731	93.5161	-882	QW	1.5	-1	5.9	1	1.2	1	0.248	-1	1.264	-1	5.104	0	1540	48	1.4
43226.2	10000	41.6737	93.5161	-882	QW	1.7	-1	5.4	0	1.2	1	0.317	-1	1.474	-1	4.655	-1	1538	44	1.4
43226.3	10000	41.6743	93.5161	-881	QW	1.5	-1	5.6	0	1.1	1	0.264	-1	1.322	-1	5.009	0	1522	43	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43226.4	10000	41.6749	93.5162	-882	QW	1.4	-1	6.0	1	1.1	1	0.233	-1	1.242	-1	5.339	0	1527	44	1.4
43226.5	10000	41.6756	93.5162	-882	QW	1.2	-2	5.7	0	1.2	1	0.206	-2	1.019	-2	4.937	0	1532	37	1.4
43226.6	10000	41.6762	93.5163	-882	QW	1.2	-2	5.9	1	1.1	0	0.211	-2	1.144	-2	5.424	0	1516	47	1.4
43226.7	10000	41.6768	93.5163	-882	QW	1.3	-2	5.9	1	1.1	0	0.227	-2	1.215	-1	5.340	0	1525	46	1.4
43226.8	10000	41.6774	93.5163	-882	QW	1.5	-1	5.7	0	1.1	1	0.260	-1	1.347	-1	5.180	0	1513	43	1.4
43226.9	10000	41.6780	93.5163	-882	QW	1.4	-1	5.8	1	1.0	0	0.248	-1	1.393	-1	5.622	1	1499	43	1.4
43227.0	10000	41.6786	93.5164	-882	QW	1.6	-1	5.7	0	1.0	0	0.285	-1	1.580	-1	5.550	1	1513	35	1.4
43227.1	10000	41.6793	93.5164	-881	QW	1.6	-1	5.6	0	1.1	0	0.291	-1	1.544	-1	5.306	0	1520	41	1.4
43227.2	10000	41.6799	93.5164	-881	QW	1.7	-1	5.9	1	1.0	0	0.288	-1	1.642	-1	5.705	1	1508	53	1.4
43227.3	10000	41.6805	93.5165	-880	QW	1.8	0	5.8	0	1.1	0	0.312	-1	1.696	0	5.441	0	1510	35	1.4
43227.4	10000	41.6811	93.5165	-880	QW	1.9	0	5.8	0	1.0	0	0.337	0	1.883	0	5.588	1	1518	41	1.4
43227.5	10000	41.6817	93.5166	-880	QW	1.8	-1	6.0	1	1.0	0	0.292	-1	1.729	0	5.922	1	1517	59	1.4
43227.6	10000	41.6824	93.5166	-880	QW	1.7	-1	6.3	1	1.0	0	0.274	-1	1.645	-1	6.000	1	1530	44	1.4
43227.7	10000	41.6830	93.5166	-879	QW	1.7	-1	6.5	1	1.1	0	0.264	-1	1.559	-1	5.894	1	1539	45	1.4
43227.8	10000	41.6836	93.5166	-880	QW	1.9	0	6.7	2	1.1	0	0.281	-1	1.779	0	6.322	2	1526	54	1.4
43227.9	10000	41.6842	93.5167	-880	QW	2.0	0	6.6	2	1.1	0	0.300	-1	1.794	0	5.990	1	1550	43	1.4
43228.0	10000	41.6848	93.5167	-879	QW	1.7	-1	6.5	2	1.1	1	0.260	-1	1.517	-1	5.847	1	1552	41	1.4
43228.1	10000	41.6855	93.5168	-879	QW	1.7	-1	6.4	1	1.1	1	0.267	-1	1.509	-1	5.646	1	1545	38	1.4
43228.2	10000	41.6861	93.5168	-878	QW	1.8	0	6.3	1	1.1	1	0.285	-1	1.568	-1	5.495	0	1540	41	1.4
43228.3	10000	41.6867	93.5168	-878	QW	1.7	-1	6.2	1	1.2	1	0.277	-1	1.483	-1	5.350	0	1531	45	1.4
43228.4	10000	41.6873	93.5168	-877	QW	1.5	-1	6.2	1	1.1	1	0.248	-1	1.351	-1	5.448	0	1530	51	1.4
43228.5	10000	41.6879	93.5169	-878	QW	1.4	-1	5.8	1	1.1	1	0.239	-1	1.236	-1	5.171	0	1517	49	1.4
43228.6	10000	41.6886	93.5169	-876	QW	1.5	-1	5.9	1	1.1	0	0.261	-1	1.408	-1	5.389	0	1478	44	1.4
43228.7	10000	41.6892	93.5170	-878	QW	1.7	-1	5.9	1	1.0	0	0.292	-1	1.658	-1	5.686	1	1474	48	1.4
43228.8	10000	41.6898	93.5170	-877	QW	1.6	-1	6.0	1	1.0	0	0.267	-1	1.546	-1	5.786	1	1462	38	1.4
43228.9	10000	41.6904	93.5170	-877	QW	1.4	-1	5.9	1	1.0	-1	0.245	-1	1.446	-1	5.893	1	1453	50	1.4
43229.0	10000	41.6910	93.5170	-876	QW	1.5	-1	5.7	0	1.0	0	0.266	-1	1.497	-1	5.624	1	1457	39	1.4
43229.1	10000	41.6916	93.5171	-875	QW	1.7	-1	5.3	0	1.0	-1	0.325	0	1.716	0	5.273	1	1443	59	1.4
43229.2	10000	41.6923	93.5171	-875	QW	1.8	-1	5.4	0	1.0	0	0.325	0	1.753	0	5.401	0	1442	40	1.4
43229.3	10000	41.6929	93.5172	-874	QW	1.7	-1	5.3	0	1.0	0	0.316	-1	1.658	-1	5.253	0	1444	50	1.4
43229.4	10000	41.6935	93.5172	-874	QW	1.6	-1	5.1	0	1.0	0	0.311	-1	1.561	-1	5.023	0	1443	42	1.4
43229.5	10000	41.6941	93.5172	-874	QW	1.6	-1	5.1	0	1.0	0	0.311	-1	1.573	-1	5.054	0	1455	50	1.4
43229.6	10000	41.6947	93.5172	-873	QW	1.7	-1	5.1	0	1.0	-1	0.330	0	1.689	0	5.124	0	1475	51	1.4
43229.7	10000	41.6954	93.5173	-872	QW	1.6	-1	5.2	0	1.0	-1	0.307	-1	1.589	-1	5.184	0	1463	45	1.4
43229.8	10000	41.6960	93.5173	-869	QW	1.4	-1	5.4	0	1.0	0	0.255	-1	1.371	-1	5.372	0	1460	37	1.4
43229.9	10000	41.6966	93.5173	-869	QW	1.2	-2	5.0	-1	1.0	0	0.249	-1	1.217	-1	4.890	0	1453	47	1.4
43230.0	10000	41.6972	93.5174	-870	QW	1.2	-2	5.1	0	1.0	0	0.235	-1	1.201	-1	5.121	0	1454	52	1.4
43230.1	10000	41.6978	93.5174	-870	QW	1.1	-2	5.4	0	1.0	-1	0.202	-2	1.139	-2	5.627	1	1452	43	1.4
43230.2	10000	41.6984	93.5175	-869	QW	1.1	-2	5.6	0	1.0	0	0.206	-2	1.133	-2	5.510	1	1440	40	1.4
43230.3	10000	41.6991	93.5175	-868	QW	1.2	-2	5.6	0	1.0	0	0.217	-2	1.167	-2	5.384	0	1425	41	1.4
43230.4	10000	41.6997	93.5175	-868	QW	1.2	-2	5.4	0	1.0	-1	0.228	-2	1.242	-1	5.445	0	1431	36	1.4
43230.5	10000	41.7003	93.5175	-868	QW	1.5	-1	5.4	0	1.0	0	0.281	-1	1.511	-1	5.372	0	1435	54	1.4
43230.6	10000	41.7009	93.5176	-867	QW	1.4	-1	5.3	0	1.0	0	0.265	-1	1.383	-1	5.214	0	1455	51	1.4
43230.7	10000	41.7015	93.5176	-866	QW	1.4	-1	5.2	0	1.1	0	0.275	-1	1.339	-1	4.870	-1	1465	34	1.4
43230.8	10000	41.7022	93.5177	-866	QW	1.6	-1	5.4	0	1.1	0	0.290	-1	1.409	-1	4.867	-1	1474	45	1.4
43230.9	10000	41.7028	93.5177	-866	QW	1.6	-1	5.3	0	1.1	0	0.306	-1	1.518	-1	4.960	-1	1489	38	1.4
43231.0	10000	41.7034	93.5177	-868	QW	1.5	-1	5.1	-1	1.1	0	0.294	-1	1.418	-1	4.822	-1	1496	40	1.4
43231.1	10000	41.7040	93.5177	-867	QW	1.7	-1	5.5	0	1.1	0	0.307	-1	1.627	-1	5.308	0	1514	54	1.4
43231.2	10000	41.7046	93.5178	-867	QW	1.6	-1	5.6	0	1.0	0	0.289	-1	1.612	-1	5.585	1	1511	43	1.4
43231.3	10000	41.7053	93.5178	-866	QW	1.8	-1	5.9	1	1.0	0	0.300	-1	1.716	0	5.719	1	1513	45	1.4
43231.4	10000	41.7059	93.5179	-866	QW	1.8	0	6.2	1	1.0	-1	0.295	-1	1.848	0	6.260	2	1525	37	1.4
43231.5	10000	41.7065	93.5179	-865	QW	1.9	0	6.1	1	1.0	-1	0.315	-1	1.942	0	6.161	2	1521	47	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43231.6	10000	41.7071	93.5179	-865	QW	1.7	-1	5.9	1	1.0	-1	0.292	-1	1.718	0	5.877	1	1499	46	1.4
43231.7	10000	41.7077	93.5179	-864	QW	1.8	-1	5.9	1	1.0	0	0.301	-1	1.719	0	5.713	1	1491	45	1.4
43231.8	10000	41.7084	93.5180	-861	QW	1.7	-1	6.0	1	1.1	0	0.291	-1	1.607	-1	5.525	1	1489	50	1.4
43231.9	10000	41.7090	93.5180	-858	QW	1.6	-1	6.0	1	1.1	0	0.275	-1	1.506	-1	5.481	0	1481	43	1.4
43232.0	10000	41.7096	93.5181	-856	QW	1.7	-1	6.0	1	1.0	0	0.287	-1	1.674	0	5.840	1	1468	49	1.4
43232.1	10000	41.7102	93.5181	-860	QW	1.6	-1	5.7	0	1.1	0	0.286	-1	1.547	-1	5.402	0	1453	46	1.4
43232.2	10000	41.7108	93.5181	-863	QW	1.6	-1	5.5	0	1.1	0	0.297	-1	1.498	-1	5.045	0	1457	45	1.4
43232.3	10000	41.7115	93.5181	-863	QW	1.7	-1	5.8	0	1.1	1	0.299	-1	1.562	-1	5.217	0	1467	40	1.4
43232.4	10000	41.7121	93.5182	-862	QW	1.7	-1	5.9	1	1.1	0	0.281	-1	1.559	-1	5.541	1	1468	46	1.4
43232.5	10000	41.7127	93.5182	-861	QW	1.7	-1	5.7	0	1.0	-1	0.302	-1	1.719	0	5.692	1	1461	33	1.4
43232.6	10000	41.7133	93.5182	-859	QW	1.9	0	5.8	0	1.0	-1	0.327	0	1.885	0	5.768	1	1485	44	1.4
43232.7	10000	41.7139	93.5183	-856	QW	1.7	-1	5.8	0	1.1	0	0.292	-1	1.605	-1	5.501	1	1486	37	1.4
43232.8	10000	41.7145	93.5183	-855	QW	1.6	-1	5.9	1	1.1	0	0.266	-1	1.461	-1	5.498	0	1487	59	1.4
43232.9	10000	41.7152	93.5184	-858	QW	1.3	-2	6.1	1	1.1	0	0.219	-2	1.241	-1	5.679	1	1478	51	1.4
43233.0	10000	41.7158	93.5184	-859	QW	1.3	-2	6.0	1	1.1	0	0.214	-2	1.191	-1	5.569	1	1473	40	1.4
42524.5	10000	41.7163	93.5196	-865	QW	1.8	0	5.7	0	1.2	1	0.315	-1	1.547	-1	4.911	0	1561	55	1.4
42524.6	10000	41.7169	93.5196	-865	QW	1.8	0	5.5	0	1.1	1	0.333	0	1.596	-1	4.794	-1	1547	48	1.4
42524.7	10000	41.7176	93.5196	-864	QW	1.8	-1	5.7	0	1.1	1	0.311	-1	1.568	-1	5.037	0	1549	52	1.4
42524.8	10000	41.7182	93.5196	-864	QW	1.9	0	5.5	0	1.1	1	0.350	0	1.705	0	4.870	-1	1551	44	1.4
42524.9	10000	41.7189	93.5196	-863	QW	1.9	0	5.6	0	1.1	0	0.338	0	1.769	0	5.241	0	1536	42	1.4
42525.0	10000	41.7195	93.5196	-862	QW	2.2	1	5.3	0	1.0	-1	0.415	0	2.208	1	5.325	0	1523	49	1.4
42525.1	10000	41.7202	93.5196	-862	QW	2.1	0	5.3	0	1.0	0	0.398	0	2.067	0	5.194	0	1525	48	1.4
42525.2	10000	41.7208	93.5196	-861	QW	2.2	1	5.2	0	1.0	0	0.425	1	2.162	1	5.087	0	1526	48	1.4
42525.3	10000	41.7215	93.5196	-860	QW	2.4	1	5.3	0	1.0	0	0.448	1	2.282	1	5.096	0	1538	46	1.4
42525.4	10000	41.7221	93.5196	-857	QW	2.4	1	5.0	-1	1.0	0	0.480	1	2.307	1	4.810	-1	1531	40	1.4
42525.5	10000	41.7228	93.5196	-855	QW	2.3	1	5.0	-1	1.0	0	0.461	1	2.227	1	4.826	-1	1527	45	1.4
42525.6	10000	41.7234	93.5196	-857	QW	2.3	1	5.1	-1	1.1	0	0.445	1	2.144	1	4.818	-1	1532	48	1.4
42525.7	10000	41.7241	93.5196	-858	QW	2.1	0	5.2	-1	1.1	0	0.409	1	1.907	0	4.659	-1	1534	50	1.4
42525.8	10000	41.7247	93.5196	-858	QW	2.2	1	5.0	-1	1.1	0	0.445	1	2.038	0	4.583	-1	1515	52	1.4
42525.9	10000	41.7254	93.5196	-855	QW	2.3	1	5.2	-1	1.1	0	0.431	1	2.140	0	4.963	-1	1506	44	1.4
42526.0	10000	41.7260	93.5196	-852	QW	1.9	0	5.5	-1	1.1	0	0.349	0	1.797	0	5.155	-1	1501	49	1.4
42526.1	10000	41.7267	93.5196	-854	QW	1.8	0	6.1	-1	1.1	0	0.301	-1	1.720	0	5.712	-1	1495	41	1.4
42526.2	10000	41.7273	93.5196	-856	QW	1.8	0	6.3	-1	1.1	0	0.280	-1	1.700	0	6.075	-1	1487	45	1.4
42526.3	10000	41.7280	93.5196	-856	QW	1.8	0	6.2	-1	1.1	0	0.301	-1	1.763	0	5.854	-1	1491	43	1.4
42526.4	10000	41.7286	93.5196	-856	QW	2.0	0	6.2	-1	1.1	0	0.323	-1	1.883	0	5.837	-1	1499	35	1.4
42526.5	10000	41.7293	93.5196	-855	QW	2.0	0	6.2	-1	1.1	0	0.318	-1	2.000	0	6.286	-1	1493	40	1.4
42526.6	10000	41.7299	93.5196	-855	QW	1.9	0	6.1	-1	1.0	0	0.309	-1	1.900	0	6.143	-2	1488	41	1.4
42526.7	10000	41.7306	93.5196	-854	QW	2.0	0	6.1	-1	1.0	0	0.332	-1	2.130	0	6.412	-2	1485	50	1.4
42526.8	10000	41.7312	93.5196	-853	QW	2.1	0	6.3	-1	0.9	0	0.390	0	2.224	1	5.707	-1	1480	43	1.4
42526.9	10000	41.7319	93.5195	-853	QW	1.9	0	6.2	-1	0.9	0	0.377	0	2.071	0	5.499	-1	1480	47	1.4
42527.0	10000	41.7325	93.5195	-852	QW	1.7	-1	6.2	-1	0.9	0	0.311	-1	1.822	0	5.851	-1	1466	48	1.4
42527.1	10000	41.7332	93.5195	-851	QW	1.5	-1	6.3	-1	0.9	0	0.280	-1	1.554	-1	5.549	-1	1450	45	1.4
42527.2	10000	41.7338	93.5195	-851	QW	1.5	-1	6.3	-1	0.9	0	0.278	-1	1.492	-1	5.365	-1	1463	39	1.4
42527.3	10000	41.7345	93.5195	-850	QW	1.6	-1	6.1	-1	0.9	0	0.310	-1	1.578	-1	5.090	-1	1466	44	1.4
42527.4	10000	41.7351	93.5195	-849	QW	1.5	-1	6.0	-1	0.9	0	0.320	-1	1.508	-1	4.708	-2	1457	37	1.4
42527.5	10000	41.7358	93.5195	-849	QW	1.6	-1	6.0	-1	0.9	0	0.314	-1	1.548	-1	4.937	-1	1461	39	1.4
42527.6	10000	41.7364	93.5195	-848	QW	1.6	-1	6.0	-1	0.9	0	0.335	-1	1.788	-1	5.337	-1	1460	48	1.4
42527.7	10000	41.7371	93.5195	-847	QW	1.6	-1	6.2	-1	0.9	0	0.359	-1	1.941	-1	5.404	-1	1464	44	1.4
42527.8	10000	41.7377	93.5195	-847	QW	1.8	0	6.2	-1	0.9	0	0.384	-1	2.353	0	6.121	-1	1474	30	1.4
42527.9	10000	41.7384	93.5195	-846	QW	1.8	0	6.2	-1	0.9	0	0.382	-1	2.352	0	6.151	-1	1480	45	1.4
42528.0	10000	41.7390	93.5195	-845	QW	1.8	0	6.2	-1	0.9	0	0.396	-1	2.563	0	6.475	-1	1486	42	1.4
42528.1	10000	41.7397	93.5195	-844	QW	2.3	1	6.2	-2	0.9	0	0.368	0	2.561	1	6.962	3	1495	41	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42528.2	10000	41.7403	93.5195	-843	QW	2.3	1	6.4	1	0.9	-2	0.362	0	2.639	2	7.285	3	1501	47	1.4
42528.3	10000	41.7410	93.5195	-842	QW	2.3	1	6.2	1	0.9	-1	0.377	0	2.548	1	6.759	3	1519	46	1.4
42528.4	10000	41.7417	93.5195	-841	QW	2.3	1	6.4	1	1.0	-1	0.361	0	2.395	1	6.633	2	1538	49	1.4
42528.5	10000	41.7423	93.5195	-840	QW	2.3	1	6.2	1	1.0	-1	0.362	0	2.309	1	6.377	2	1543	44	1.4
42528.6	10000	41.7430	93.5195	-839	QW	2.2	1	6.2	1	1.0	-1	0.355	0	2.257	1	6.365	2	1543	42	1.4
42528.7	10000	41.7436	93.5195	-838	QW	2.1	0	6.4	1	1.0	-1	0.331	0	2.132	0	6.444	2	1553	48	1.4
42528.8	10000	41.7443	93.5195	-838	QW	2.3	1	6.3	1	1.0	0	0.374	0	2.303	1	6.155	2	1571	45	1.4
42528.9	10000	41.7449	93.5195	-838	QW	2.3	1	6.1	1	1.0	0	0.374	0	2.154	1	5.768	1	1578	48	1.5
42529.0	10000	41.7456	93.5195	-836	QW	2.1	0	6.0	1	1.1	0	0.355	0	2.033	0	5.730	1	1573	44	1.5
42529.1	10000	41.7462	93.5195	-835	QW	2.3	1	5.6	0	1.1	0	0.409	0	2.157	1	5.277	0	1577	38	1.5
42529.2	10000	41.7469	93.5195	-834	QW	2.1	0	5.8	0	1.1	0	0.369	0	1.975	0	5.357	0	1562	47	1.5
42529.3	10000	41.7475	93.5195	-831	QW	2.0	0	5.7	0	1.1	0	0.342	0	1.821	0	5.330	0	1556	40	1.5
42529.4	10000	41.7482	93.5195	-830	QW	1.7	-1	5.3	0	1.1	0	0.312	-1	1.542	-1	4.938	0	1545	50	1.5
42529.5	10000	41.7488	93.5195	-828	QW	1.6	-1	5.7	0	1.1	1	0.282	-1	1.434	-1	5.082	0	1543	60	1.5
42529.6	10000	41.7495	93.5195	-825	QW	1.7	-1	5.4	0	1.1	0	0.309	-1	1.539	-1	4.985	0	1529	42	1.5
42529.7	10000	41.7501	93.5195	-823	QW	1.8	0	5.5	0	1.1	0	0.327	0	1.708	0	5.230	0	1514	55	1.5
42529.8	10000	41.7508	93.5195	-825	QW	1.8	0	5.6	0	1.1	0	0.321	-1	1.696	0	5.284	0	1501	46	1.5
42529.9	10000	41.7514	93.5195	-826	QW	1.7	-1	5.3	0	1.1	0	0.316	-1	1.572	-1	4.969	0	1513	53	1.5
42530.0	10000	41.7521	93.5195	-825	QW	1.9	0	5.3	0	1.1	1	0.354	0	1.656	-1	4.675	-1	1511	48	1.5
42530.1	10000	41.7527	93.5195	-825	QW	2.1	0	5.5	0	1.2	1	0.375	0	1.796	0	4.790	-1	1523	53	1.5
42530.2	10000	41.7534	93.5195	-823	QW	2.0	0	4.9	-1	1.1	1	0.412	0	1.821	0	4.425	-1	1501	35	1.5
42530.3	10000	41.7540	93.5195	-822	QW	2.1	0	4.9	-1	1.1	1	0.437	1	1.922	0	4.402	-1	1509	56	1.5
42530.4	10000	41.7547	93.5195	-822	QW	2.0	0	4.7	-1	1.1	1	0.438	1	1.860	0	4.247	-2	1510	34	1.5
42530.5	10000	41.7553	93.5195	-821	QW	2.0	0	4.8	-1	1.1	0	0.417	0	1.871	0	4.489	-1	1501	33	1.5
42530.6	10000	41.7560	93.5195	-820	QW	2.0	0	4.6	-1	1.1	0	0.435	1	1.917	0	4.408	-1	1490	48	1.5
42530.7	10000	41.7566	93.5195	-818	QW	2.3	1	4.8	-1	1.0	0	0.472	1	2.213	1	4.683	-1	1501	59	1.5
42530.8	10000	41.7573	93.5195	-816	QW	2.3	1	4.6	-1	1.0	0	0.487	1	2.254	1	4.627	-1	1505	54	1.5
42530.9	10000	41.7579	93.5195	-815	QW	2.2	1	5.0	0	1.1	-1	0.441	1	2.129	0	4.830	-1	1512	39	1.5
42531.0	10000	41.7586	93.5195	-815	QW	1.9	0	5.3	0	1.1	0	0.366	0	1.835	0	5.013	0	1520	40	1.5
42531.1	10000	41.7592	93.5195	-814	QW	2.0	0	5.8	0	1.1	0	0.337	0	1.774	0	5.267	0	1538	46	1.5
42531.2	10000	41.7599	93.5195	-812	QW	2.0	0	5.6	0	1.1	0	0.364	0	1.812	0	4.982	0	1543	40	1.5
42531.3	10000	41.7605	93.5195	-811	QW	1.8	0	5.5	0	1.1	0	0.337	0	1.612	-1	4.786	-1	1548	56	1.5
42531.4	10000	41.7612	93.5195	-809	QW	1.6	-1	5.3	0	1.1	0	0.304	-1	1.431	-1	4.712	-1	1536	57	1.5
42531.5	10000	41.7618	93.5195	-808	QW	1.5	-1	5.5	0	1.1	1	0.280	-1	1.314	-1	4.701	-1	1534	51	1.5
42531.6	10000	41.7625	93.5195	-807	QW	1.6	-1	5.1	0	1.1	1	0.308	-1	1.419	-1	4.602	-1	1531	46	1.5
42531.7	10000	41.7631	93.5195	-807	QW	1.7	-1	4.9	-1	1.1	1	0.354	-1	1.563	-1	4.411	-1	1525	50	1.5
42531.8	10000	41.7638	93.5195	-804	QW	1.7	-1	4.7	-1	1.1	1	0.362	-1	1.616	-1	4.469	-1	1518	38	1.5
42531.9	10000	41.7644	93.5195	-803	QW	1.6	-1	5.0	0	1.1	1	0.326	-1	1.537	-1	4.719	-1	1525	39	1.5
42532.0	10000	41.7651	93.5195	-803	QW	1.9	0	5.7	0	1.1	0	0.341	0	1.863	0	5.456	0	1546	36	1.5
42532.1	10000	41.7657	93.5195	-802	QW	2.0	0	5.6	0	1.1	0	0.358	0	1.950	0	5.448	0	1557	54	1.5
42532.2	10000	41.7664	93.5195	-800	QW	2.1	0	5.3	0	1.1	0	0.395	0	2.083	0	5.275	0	1547	40	1.5
42532.3	10000	41.7670	93.5195	-801	QW	1.9	0	5.5	0	1.1	0	0.373	0	2.012	0	5.396	0	1550	35	1.5
42532.4	10000	41.7677	93.5195	-800	QW	1.9	0	5.2	0	1.1	0	0.335	0	1.859	0	5.545	1	1536	55	1.5
42532.5	10000	41.7683	93.5195	-798	QW	1.9	0	5.2	0	1.1	0	0.357	0	1.755	0	4.912	0	1533	48	1.5
42532.6	10000	41.7690	93.5195	-795	QW	2.0	0	4.7	-1	1.1	0	0.388	0	1.891	0	4.876	-1	1521	51	1.5
42532.7	10000	41.7696	93.5195	-796	QW	1.8	0	4.8	-1	1.1	0	0.394	0	1.810	0	4.591	-1	1508	49	1.5
42532.8	10000	41.7703	93.5195	-796	QW	1.8	0	5.1	0	1.1	0	0.376	0	1.693	0	4.506	-1	1522	42	1.5
42532.9	10000	41.7709	93.5195	-795	QW	1.9	0	4.9	-1	1.1	0	0.358	0	1.694	0	4.735	-1	1524	42	1.5
42533.0	10000	41.7716	93.5195	-793	QW	1.9	0	4.6	-1	1.1	0	0.387	0	1.770	0	4.573	-1	1520	47	1.5
42533.1	10000	41.7722	93.5195	-792	QW	2.0	0	4.8	-1	1.1	0	0.425	1	1.816	0	4.270	-1	1541	53	1.5
42533.2	10000	41.7729	93.5195	-791	QW	2.2	1	4.8	-1	1.1	0	0.453	1	1.961	0	4.328	-1	1547	32	1.5
42533.3	10000	41.7735	93.5195	-791	QW	2.1	1	4.8	-1	1.1	0	0.429	1	1.893	0	4.411	-1	1554	51	1.5

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42533.4	10000	41.7742	93.5195	-790	QW	2.2	1	5.1	-1	1.1	1	0.435	1	1.960	0	4.506	-1	1563	45	1.5
42533.5	10000	41.7748	93.5195	-790	QW	2.3	1	5.4	0	1.1	0	0.431	1	2.160	1	5.012	0	1551	45	1.5
42533.6	10000	41.7755	93.5195	-789	QW	2.5	1	5.6	0	1.1	0	0.452	1	2.321	1	5.137	0	1570	49	1.5
42533.7	10000	41.7761	93.5195	-789	QW	2.6	1	6.0	1	1.1	0	0.429	1	2.420	1	5.646	1	1574	49	1.5
42533.8	10000	41.7768	93.5195	-788	QW	2.6	2	6.0	1	1.0	-1	0.441	1	2.661	2	6.039	1	1574	54	1.5
42533.9	10000	41.7774	93.5195	-788	QW	2.4	1	5.9	1	0.9	-1	0.401	0	2.505	1	6.252	2	1561	47	1.5
42534.0	10000	41.7781	93.5195	-787	QW	2.5	1	6.0	1	1.0	-1	0.426	1	2.659	2	6.238	2	1560	54	1.5
42534.1	10000	41.7787	93.5195	-787	QW	2.4	1	5.9	1	1.0	-1	0.414	0	2.493	1	6.017	1	1547	44	1.5
42534.2	10000	41.7794	93.5195	-787	QW	2.2	1	5.4	0	1.0	-1	0.413	0	2.249	1	5.442	0	1549	45	1.5
42534.3	10000	41.7800	93.5195	-786	QW	2.1	0	5.2	0	1.0	0	0.410	0	2.070	0	5.046	0	1535	42	1.5
42534.4	10000	41.7807	93.5195	-785	QW	2.0	0	4.9	-1	1.0	0	0.404	0	1.909	0	4.727	-1	1528	55	1.5
42534.5	10000	41.7813	93.5195	-781	QW	2.0	0	5.2	0	1.1	0	0.379	0	1.780	0	4.700	-1	1529	50	1.5
42534.6	10000	41.7820	93.5195	-778	QW	2.2	1	5.4	0	1.1	1	0.414	0	1.976	0	4.769	-1	1550	52	1.5
42534.7	10000	41.7826	93.5195	-782	QW	2.1	0	5.5	0	1.1	1	0.383	0	1.910	0	4.993	0	1553	47	1.5
42534.8	10000	41.7833	93.5195	-784	QW	2.3	1	5.5	0	1.1	0	0.414	0	2.081	0	5.027	0	1574	62	1.5
42534.9	10000	41.7839	93.5195	-785	QW	2.4	1	5.3	0	1.1	0	0.450	1	2.245	1	4.992	0	1575	49	1.5
42535.0	10000	41.7846	93.5195	-785	QW	2.3	1	5.1	0	1.0	0	0.447	1	2.271	1	5.083	0	1575	44	1.5
42535.1	10000	41.7852	93.5195	-784	QW	2.4	1	5.7	0	1.0	0	0.416	0	2.272	1	5.467	0	1601	47	1.4
42535.2	10000	41.7859	93.5195	-784	QW	2.2	1	5.8	1	1.0	0	0.382	0	2.149	1	5.629	1	1608	33	1.4
42535.3	10000	41.7865	93.5195	-784	QW	2.0	0	6.0	1	1.0	0	0.333	0	1.999	0	6.003	1	1603	40	1.4
42535.4	10000	41.7872	93.5195	-784	QW	2.0	0	5.8	0	1.0	0	0.347	0	1.949	0	5.623	1	1588	40	1.4
42535.5	10000	41.7878	93.5195	-784	QW	2.2	1	5.6	0	1.0	-1	0.399	0	2.241	1	5.619	1	1572	40	1.4
42535.6	10000	41.7885	93.5195	-783	QW	2.2	0	6.0	1	1.0	-1	0.360	0	2.146	1	5.957	1	1565	40	1.4
42535.7	10000	41.7891	93.5195	-782	QW	2.3	1	6.1	1	1.0	-1	0.380	0	2.373	1	6.242	2	1566	47	1.4
42535.8	10000	41.7898	93.5195	-782	QW	2.3	1	5.6	0	1.0	-1	0.415	0	2.353	1	5.670	1	1544	36	1.4
42535.9	10000	41.7904	93.5195	-778	QW	2.5	1	5.3	-1	1.0	-1	0.476	0	2.631	2	5.523	1	1524	39	1.4
42536.0	10000	41.7911	93.5195	-776	QW	2.4	1	4.9	-1	1.0	-1	0.500	1	2.554	2	5.109	1	1504	39	1.4
42536.1	10000	41.7917	93.5195	-779	QW	2.6	1	4.8	-1	1.0	-1	0.549	1	2.757	2	5.021	1	1514	47	1.4
42536.2	10000	41.7924	93.5195	-781	QW	2.4	1	5.1	-1	1.0	-1	0.469	1	2.496	2	5.321	0	1503	47	1.4
42536.3	10000	41.7931	93.5195	-781	QW	2.4	1	5.0	-1	1.0	-1	0.482	1	2.478	2	5.135	0	1501	38	1.4
42536.4	10000	41.7937	93.5195	-781	QW	2.2	1	5.0	-1	1.0	0	0.448	1	2.209	1	4.934	0	1498	41	1.4
42536.5	10000	41.7944	93.5195	-784	QW	2.2	1	4.9	-1	1.0	0	0.456	1	2.521	2	4.873	-1	1498	45	1.4
42536.6	10000	41.7951	93.5195	-786	QW	2.1	1	4.8	-1	1.0	0	0.435	1	2.030	2	4.663	-1	1507	49	1.4
42536.7	10000	41.7957	93.5195	-785	QW	2.3	1	5.1	-1	1.1	0	0.447	1	2.050	2	4.583	-1	1530	57	1.4
42536.8	10000	41.7964	93.5195	-784	QW	1.9	1	5.4	0	1.1	1	0.348	0	1.689	1	4.855	-1	1538	35	1.4
42536.9	10000	41.7971	93.5195	-783	QW	1.8	1	5.5	0	1.2	1	0.329	0	1.558	1	4.735	-1	1553	43	1.4
42537.0	10000	41.7977	93.5195	-782	QW	2.1	1	5.5	0	1.1	1	0.374	0	1.838	1	4.918	0	1560	55	1.4
42537.1	10000	41.7984	93.5195	-781	QW	2.3	1	5.2	0	1.1	1	0.450	1	2.120	1	4.707	-1	1549	42	1.4
42537.2	10000	41.7990	93.5195	-778	QW	2.6	1	5.3	0	1.1	1	0.496	1	2.320	2	4.678	-1	1559	45	1.4
42537.3	10000	41.7997	93.5195	-776	QW	2.9	1	5.3	0	1.1	1	0.556	2	2.660	2	4.783	-1	1563	46	1.4
42537.4	10000	41.8004	93.5195	-768	QW	2.9	1	5.9	0	1.1	0	0.590	2	2.781	2	4.715	-1	1550	44	1.4
42537.5	10000	41.8011	93.5195	-766	QW	3.3	1	6.3	0	1.1	0	0.711	2	3.191	3	4.489	-1	1538	40	1.4
42537.6	10000	41.8017	93.5195	-778	QW	3.5	1	6.6	-1	1.1	0	0.810	3	3.525	3	4.352	-1	1551	55	1.4
42537.7	10000	41.8024	93.5195	-785	QW	3.1	1	6.9	-1	1.1	0	0.680	2	3.024	3	4.450	-1	1553	48	1.4
42537.8	10000	41.8030	93.5195	-787	QW	2.8	1	6.9	-1	1.1	0	0.576	2	2.714	2	4.708	-1	1569	38	1.4
42537.9	10000	41.8037	93.5195	-786	QW	2.6	1	6.2	-1	1.1	0	0.492	2	2.515	2	5.115	0	1563	50	1.4
42538.0	10000	41.8044	93.5195	-784	QW	2.4	1	5.8	-1	1.1	0	0.415	1	2.323	2	5.595	1	1559	43	1.4
42538.1	10000	41.8050	93.5195	-783	QW	2.4	1	6.2	-1	1.1	0	0.418	1	2.542	2	6.081	1	1551	55	1.4
42538.2	10000	41.8057	93.5195	-783	QW	2.1	1	6.4	-1	1.0	0	0.341	1	2.182	2	6.400	2	1549	37	1.4
42538.3	10000	41.8064	93.5195	-783	QW	1.9	1	6.1	-1	0.9	0	0.296	-1	2.034	3	6.861	3	1527	40	1.4
42538.4	10000	41.8070	93.5195	-782	QW	2.0	1	6.3	-1	1.0	0	0.327	-1	2.107	3	6.444	2	1527	44	1.4
42538.5	10000	41.8077	93.5195	-783	QW	2.0	0	6.3	-1	1.0	0	0.314	-1	2.043	3	6.498	2	1515	44	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42538.6	10000	41.8084	93.5195	-783	QW	2.0	0	6.0	1	1.0	0	0.375	0	1.996	0	5.950	1	1523	32	1.3
42538.7	10000	41.8090	93.5196	-780	QW	1.9	0	5.6	1	1.1	0	0.333	0	1.756	0	5.278	0	1513	34	1.3
42538.8	10000	41.8097	93.5196	-779	QW	1.7	-1	5.2	0	1.1	0	0.330	0	1.543	-1	4.674	-1	1522	49	1.3
42538.9	10000	41.8104	93.5196	-781	QW	1.9	0	4.7	-1	1.1	1	0.396	0	1.637	-1	4.131	-2	1515	34	1.3
42539.0	10000	41.8110	93.5196	-783	QW	1.9	0	4.4	-1	1.2	1	0.438	1	1.651	-1	3.769	-2	1518	45	1.3
42539.1	10000	41.8117	93.5196	-782	QW	1.8	0	4.6	-1	1.1	1	0.387	0	1.563	-1	4.036	-2	1499	62	1.3
42539.2	10000	41.8124	93.5196	-782	QW	1.6	-1	4.7	-1	1.2	1	0.350	0	1.415	-1	4.046	-2	1499	39	1.3
42539.3	10000	41.8130	93.5196	-782	QW	1.7	-1	5.0	-1	1.1	1	0.338	0	1.466	-1	4.340	-1	1487	37	1.3
42539.4	10000	41.8137	93.5196	-782	QW	1.7	-1	5.1	-1	1.1	1	0.328	0	1.493	-1	4.551	-1	1487	58	1.3
42539.5	10000	41.8144	93.5196	-782	QW	1.5	-1	5.6	0	1.1	1	0.268	-1	1.328	-1	4.952	0	1472	47	1.3
42539.6	10000	41.8150	93.5196	-782	QW	1.2	-2	5.9	1	1.1	1	0.203	-2	1.064	-2	5.230	0	1476	33	1.3
42539.7	10000	41.8157	93.5196	-781	QW	1.1	-2	6.0	1	1.1	1	0.179	-2	0.953	-2	5.330	0	1479	44	1.3
42539.8	10000	41.8164	93.5196	-778	QW	1.1	-2	5.8	1	1.2	1	0.197	-2	0.978	-2	4.964	0	1484	50	1.3
42539.9	10000	41.8170	93.5196	-778	QW	1.1	-2	5.8	0	1.1	1	0.198	-2	0.998	-2	5.040	0	1485	42	1.3
42540.0	10000	41.8177	93.5196	-780	QW	1.0	-2	5.7	0	1.1	1	0.172	-2	0.868	-2	5.035	0	1479	39	1.3
42540.1	10000	41.8184	93.5196	-779	QW	1.0	-2	5.9	1	1.2	1	0.169	-2	0.862	-2	5.089	0	1495	55	1.3
42540.2	10000	41.8190	93.5196	-776	QW	1.3	-2	5.8	1	1.1	1	0.229	-1	1.159	-2	5.053	0	1509	43	1.3
42540.3	10000	41.8197	93.5196	-777	QW	1.5	-1	5.7	0	1.2	1	0.271	-1	1.338	-1	4.943	0	1504	45	1.3
42540.4	10000	41.8204	93.5196	-779	QW	1.8	-1	5.7	0	1.2	1	0.310	-1	1.496	-1	4.832	-1	1507	47	1.3
42540.5	10000	41.8210	93.5196	-779	QW	1.8	-1	5.9	1	1.2	1	0.297	-1	1.509	-1	5.072	0	1509	53	1.3
42540.6	10000	41.8217	93.5196	-778	QW	1.8	-1	5.9	1	1.2	1	0.300	-1	1.482	-1	4.944	0	1505	41	1.3
42540.7	10000	41.8223	93.5196	-776	QW	1.7	-1	5.9	1	1.2	1	0.296	-1	1.454	-1	4.906	0	1524	47	1.3
42540.8	10000	41.8230	93.5196	-775	QW	1.9	0	5.8	0	1.1	1	0.330	0	1.662	-1	5.042	0	1518	38	1.3
42540.9	10000	41.8237	93.5196	-773	QW	1.8	-1	5.7	0	1.1	1	0.309	-1	1.575	-1	5.103	0	1516	38	1.3
42541.0	10000	41.8243	93.5196	-773	QW	2.0	0	5.7	0	1.1	0	0.349	0	1.843	0	5.283	0	1521	48	1.3
42541.1	10000	41.8250	93.5196	-773	QW	1.9	0	5.5	0	1.0	0	0.337	0	1.787	0	5.296	0	1521	49	1.3
42541.2	10000	41.8257	93.5196	-774	QW	2.0	0	5.3	0	1.0	0	0.372	0	1.920	0	5.165	0	1526	39	1.3
42541.3	10000	41.8263	93.5196	-775	QW	1.9	0	5.2	0	1.1	0	0.367	0	1.807	0	4.925	0	1527	51	1.3
42541.4	10000	41.8270	93.5196	-775	QW	2.0	0	5.5	0	1.1	0	0.364	0	1.846	0	5.072	0	1531	50	1.3
42541.5	10000	41.8277	93.5196	-774	QW	1.9	0	5.8	1	1.1	1	0.327	0	1.724	0	5.278	0	1535	47	1.3
42541.6	10000	41.8283	93.5197	-774	QW	1.9	0	5.9	1	1.2	1	0.325	0	1.650	-1	5.077	0	1537	30	1.3
42541.7	10000	41.8290	93.5197	-773	QW	1.7	-1	5.8	1	1.2	1	0.294	-1	1.462	-1	4.979	0	1529	45	1.3
42541.8	10000	41.8297	93.5197	-772	QW	1.6	-1	6.0	1	1.2	1	0.276	-1	1.373	-1	4.971	0	1530	58	1.3
42541.9	10000	41.8303	93.5197	-771	QW	1.9	0	6.1	1	1.2	1	0.308	-1	1.581	-1	5.141	0	1529	56	1.3
42542.0	10000	41.8310	93.5197	-768	QW	2.1	0	6.0	1	1.1	1	0.354	0	1.916	0	5.421	0	1532	49	1.3
42542.1	10000	41.8317	93.5197	-766	QW	2.5	1	5.3	0	1.1	1	0.465	1	2.323	1	4.994	0	1526	54	1.3
42542.2	10000	41.8323	93.5197	-768	QW	2.6	1	4.9	-1	1.0	0	0.519	2	2.444	1	4.712	-1	1519	39	1.3
42542.3	10000	41.8330	93.5197	-770	QW	2.6	1	4.7	-1	1.0	0	0.545	2	2.543	1	4.663	-1	1509	40	1.3
42542.4	10000	41.8337	93.5197	-770	QW	2.6	1	4.9	-1	1.0	0	0.519	2	2.468	1	4.760	-1	1515	52	1.3
42542.5	10000	41.8343	93.5197	-769	QW	2.5	1	5.2	0	1.0	0	0.478	1	2.371	1	4.964	0	1518	38	1.3
42542.6	10000	41.8350	93.5197	-768	QW	2.1	0	5.2	0	1.0	0	0.404	0	1.989	0	4.924	0	1517	53	1.3
42542.7	10000	41.8357	93.5197	-766	QW	2.0	0	5.7	0	1.1	0	0.355	0	1.828	0	5.148	0	1522	38	1.3
42542.8	10000	41.8363	93.5197	-766	QW	1.5	-1	5.9	1	1.1	1	0.254	-1	1.344	-1	5.290	0	1513	41	1.3
42542.9	10000	41.8370	93.5197	-766	QW	1.5	-1	5.8	1	1.1	1	0.266	-1	1.359	-1	5.110	0	1503	37	1.3
42543.0	10000	41.8377	93.5197	-766	QW	1.5	-1	6.0	1	1.1	1	0.255	-1	1.376	-1	5.389	0	1500	40	1.3
42543.1	10000	41.8383	93.5197	-765	QW	1.5	-1	6.0	1	1.1	1	0.258	-1	1.415	-1	5.490	0	1497	41	1.3
42543.2	10000	41.8390	93.5197	-765	QW	1.7	-1	5.4	1	1.0	1	0.307	-1	1.615	-1	5.258	0	1489	54	1.3
42543.3	10000	41.8396	93.5197	-764	QW	1.8	-1	5.4	0	1.0	0	0.334	-1	1.819	0	5.443	0	1486	53	1.3
42543.4	10000	41.8403	93.5197	-763	QW	2.0	0	5.1	0	0.9	-1	0.399	-1	2.149	1	5.386	0	1485	48	1.4
42543.5	10000	41.8410	93.5197	-762	QW	2.6	1	4.9	0	0.9	-1	0.533	-1	2.886	1	5.412	0	1497	44	1.4
42543.6	10000	41.8417	93.5197	-762	QW	2.6	1	5.1	0	0.9	-1	0.519	-1	3.008	1	5.798	1	1512	31	1.4
42543.7	10000	41.8423	93.5197	-762	QW	2.6	1	5.0	0	0.9	-1	0.519	-1	2.834	1	5.464	0	1520	47	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42543.8	10000	41.8430	93.5197	-761	QO	2.7	1	4.9	0	0.9	-1	0.548	1	3.041	1	5.547	0	1536	42	1.4
42543.9	10000	41.8437	93.5197	-760	QO	2.6	1	4.8	-1	0.9	-1	0.533	1	2.811	1	5.278	0	1555	42	1.4
42544.0	10000	41.8443	93.5197	-759	QO	2.9	2	4.6	-1	1.0	0	0.641	2	2.995	1	4.669	-1	1569	55	1.4
42544.1	10000	41.8450	93.5197	-758	QO	2.8	2	4.5	-1	0.9	-1	0.638	2	3.007	1	4.714	-1	1571	34	1.4
42544.2	10000	41.8456	93.5197	-757	QO	2.5	1	4.8	-1	0.9	-1	0.525	1	2.711	1	5.168	0	1570	53	1.4
42544.3	10000	41.8463	93.5197	-756	QO	2.4	1	4.8	-1	0.9	-1	0.501	1	2.558	1	5.105	0	1562	51	1.4
42544.4	10000	41.8470	93.5197	-755	QO	2.3	0	5.0	0	0.9	-1	0.463	1	2.433	1	5.260	0	1561	42	1.4
42544.5	10000	41.8476	93.5197	-755	QO	2.2	0	4.8	-1	1.0	0	0.458	1	2.178	0	4.754	-1	1555	43	1.4
42544.6	10000	41.8483	93.5197	-752	QO	2.5	1	5.2	0	1.0	0	0.477	1	2.489	1	5.216	0	1546	40	1.4
42544.7	10000	41.8490	93.5197	-751	QO	2.3	0	5.2	0	1.0	0	0.438	0	2.266	0	5.175	0	1535	39	1.4
42544.8	10000	41.8496	93.5197	-753	QO	2.2	0	5.3	0	1.0	0	0.421	0	2.128	0	5.055	0	1535	51	1.4
42544.9	10000	41.8503	93.5197	-753	QO	2.2	0	5.4	0	1.1	1	0.409	0	1.920	0	4.698	-1	1538	47	1.4
42545.0	10000	41.8510	93.5198	-752	QO	2.0	0	5.6	0	1.1	1	0.350	0	1.721	0	4.917	0	1539	41	1.4
42545.1	10000	41.8516	93.5198	-751	QO	1.9	0	5.8	0	1.2	1	0.338	0	1.690	-1	5.000	0	1551	58	1.4
42545.2	10000	41.8523	93.5198	-750	QO	2.0	0	6.0	1	1.1	0	0.341	0	1.851	0	5.429	0	1553	44	1.5
42545.3	10000	41.8530	93.5198	-749	QO	1.8	-1	5.8	0	1.1	0	0.307	-1	1.650	-1	5.376	0	1548	35	1.5
42545.4	10000	41.8536	93.5198	-748	QO	1.6	-1	6.1	1	1.1	0	0.256	-1	1.423	-1	5.554	0	1544	40	1.5
42545.5	10000	41.8543	93.5198	-748	QO	1.4	-1	6.1	1	1.1	0	0.234	-1	1.318	-1	5.631	0	1540	47	1.5
42545.6	10000	41.8550	93.5198	-747	QO	1.6	-1	5.9	0	1.0	0	0.270	-1	1.510	-1	5.590	0	1530	41	1.5
42545.7	10000	41.8556	93.5198	-747	QO	1.5	-1	5.8	0	1.1	0	0.257	-1	1.407	-1	5.467	0	1537	51	1.5
42545.8	10000	41.8563	93.5198	-747	QO	1.7	-1	5.7	0	1.1	0	0.302	-1	1.569	-1	5.204	0	1529	42	1.5
42545.9	10000	41.8570	93.5198	-747	QO	1.5	-1	5.5	0	1.1	0	0.269	-1	1.356	-1	5.044	0	1524	45	1.5
42546.0	10000	41.8576	93.5198	-747	QO	1.5	-1	5.5	0	1.1	1	0.276	-1	1.338	-1	4.846	0	1526	56	1.5
42546.1	10000	41.8583	93.5198	-746	QO	1.6	-1	5.4	0	1.1	0	0.296	-1	1.494	-1	5.052	0	1534	37	1.5
42546.2	10000	41.8589	93.5198	-745	QO	1.8	0	5.3	0	1.1	0	0.342	0	1.631	-1	4.775	-1	1535	47	1.5
42546.3	10000	41.8596	93.5198	-744	QO	1.8	-1	5.4	0	1.1	1	0.327	-1	1.566	-1	4.792	-1	1539	40	1.5
42546.4	10000	41.8603	93.5198	-743	QO	2.1	0	5.1	0	1.1	1	0.406	0	1.807	0	4.455	-1	1535	38	1.6
42546.5	10000	41.8610	93.5198	-742	QO	1.9	0	5.0	0	1.1	0	0.372	0	1.700	-1	4.576	-1	1535	42	1.6
42546.6	10000	41.8616	93.5198	-741	QO	2.0	0	5.2	0	1.1	0	0.394	0	1.890	0	4.796	-1	1545	37	1.6
42546.7	10000	41.8623	93.5198	-740	QO	2.2	0	5.4	0	1.1	0	0.396	0	1.997	0	5.039	0	1558	44	1.6
42546.8	10000	41.8630	93.5198	-740	QO	2.2	0	5.5	0	1.1	0	0.405	0	2.005	0	4.955	0	1566	48	1.6
42546.9	10000	41.8636	93.5198	-739	QO	2.4	1	5.6	0	1.1	0	0.419	0	2.130	0	5.087	0	1596	46	1.6
42547.0	10000	41.8643	93.5198	-738	QO	2.1	0	5.6	0	1.1	0	0.379	0	1.955	0	5.155	0	1605	45	1.6
42547.1	10000	41.8649	93.5198	-738	QO	2.1	0	5.6	0	1.1	0	0.376	0	1.918	0	5.103	0	1608	38	1.6
42547.2	10000	41.8656	93.5198	-737	QO	2.1	0	5.8	0	1.1	1	0.366	0	1.861	0	5.090	0	1600	47	1.6
42547.3	10000	41.8663	93.5198	-736	QO	2.0	0	5.7	0	1.2	1	0.356	0	1.696	-1	4.760	-1	1598	41	1.6
42547.4	10000	41.8669	93.5198	-736	QO	1.8	-1	5.7	0	1.2	1	0.308	-1	1.473	-1	4.780	-1	1586	50	1.6
42547.5	10000	41.8676	93.5198	-735	QO	1.7	-1	5.8	0	1.2	1	0.295	-1	1.417	-1	4.808	-1	1593	51	1.6
42547.6	10000	41.8683	93.5198	-734	QO	1.5	-1	5.7	0	1.2	1	0.256	-1	1.230	-1	4.803	-1	1565	43	1.6
42547.7	10000	41.8689	93.5198	-734	QO	1.6	-1	6.0	1	1.2	1	0.257	-1	1.272	-1	4.946	0	1548	44	1.6
42547.8	10000	41.8696	93.5198	-734	QO	1.6	-1	6.0	0	1.2	1	0.260	-1	1.323	-1	5.098	0	1543	46	1.6
42547.9	10000	41.8703	93.5198	-734	QO	1.6	-1	5.8	0	1.1	1	0.274	-1	1.406	-1	5.125	0	1535	43	1.6
42548.0	10000	41.8709	93.5199	-734	QO	1.4	-1	5.7	0	1.1	1	0.248	-1	1.297	-1	5.237	0	1510	37	1.7
42548.1	10000	41.8716	93.5199	-734	QO	1.4	-1	5.6	0	1.1	1	0.250	-1	1.321	-1	5.295	0	1498	45	1.7
42548.2	10000	41.8723	93.5199	-734	QO	1.4	-1	5.4	0	1.1	1	0.250	-1	1.280	-1	5.123	0	1472	46	1.7
42548.3	10000	41.8729	93.5199	-733	QO	1.3	-2	5.1	0	1.0	1	0.258	-1	1.269	-1	4.917	0	1464	63	1.7
42548.4	10000	41.8736	93.5199	-732	QO	1.4	-1	4.8	-1	1.0	1	0.299	-1	1.440	-1	4.812	-1	1458	55	1.7
42548.5	10000	41.8743	93.5199	-732	QO	1.4	-1	4.8	-1	1.0	1	0.293	-1	1.384	-1	4.720	-1	1446	64	1.7
42548.6	10000	41.8749	93.5199	-730	QO	1.3	-2	4.7	-1	1.1	1	0.274	-1	1.213	-1	4.427	-1	1452	42	1.7
42548.7	10000	41.8756	93.5199	-730	QO	1.4	-1	4.6	-1	1.1	1	0.313	-1	1.312	-1	4.199	-1	1470	55	1.7
42548.8	10000	41.8763	93.5199	-727	QO	1.4	-1	4.9	0	1.2	1	0.286	-1	1.193	-1	4.172	-1	1460	42	1.7
42548.9	10000	41.8769	93.5199	-721	QO	1.3	-2	4.7	-1	1.2	1	0.270	-1	1.067	-1	3.946	-2	1454	51	1.7

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42549.0	10000	41.8776	93.5199	-713	QO	1.1	-2	5.2	0	1.2	1	0.210	-2	0.884	-2	4.216	-1	1453	51	1.7
42549.1	10000	41.8783	93.5199	-712	QO	1.1	-2	5.5	0	1.2	1	0.203	-2	0.908	-2	4.475	-1	1459	41	1.7
42549.2	10000	41.8789	93.5199	-716	QO	1.1	-2	5.6	0	1.2	1	0.195	-2	0.890	-2	4.570	-1	1466	51	1.7
42549.3	10000	41.8796	93.5199	-723	QO	1.2	-2	5.8	0	1.2	1	0.208	-2	1.018	-2	4.884	0	1463	44	1.7
42549.4	10000	41.8802	93.5199	-728	QO	1.2	-2	6.0	1	1.1	1	0.204	-2	1.080	-1	5.298	0	1442	42	1.7
42549.5	10000	41.8809	93.5198	-726	QO	1.3	-2	5.6	0	1.1	0	0.227	-1	1.154	-1	5.091	0	1443	34	1.7
42549.6	10000	41.8816	93.5198	-727	QO	1.4	-1	5.6	0	1.0	0	0.258	-1	1.370	-1	5.304	0	1442	48	1.7
42549.7	10000	41.8822	93.5198	-727	QO	1.7	-1	5.1	0	1.0	0	0.327	-1	1.735	0	5.314	0	1434	44	1.7
42549.8	10000	41.8829	93.5198	-728	QO	1.5	-1	4.7	-1	1.0	0	0.309	-1	1.456	-1	4.718	-1	1436	37	1.7
42549.9	10000	41.8835	93.5198	-730	QO	1.6	-1	4.7	-1	1.0	0	0.337	0	1.599	-1	4.752	-1	1442	52	1.7
42550.0	10000	41.8842	93.5198	-730	QO	1.7	-1	4.5	-1	1.0	0	0.377	0	1.777	0	4.717	-1	1448	52	1.7
42550.1	10000	41.8849	93.5198	-731	QO	1.7	-1	4.2	-1	1.0	0	0.416	0	1.772	0	4.257	-1	1472	43	1.7
42550.2	10000	41.8855	93.5198	-731	QO	1.9	0	4.3	-1	0.9	-1	0.439	0	2.014	0	4.586	-1	1487	53	1.7
42550.3	10000	41.8862	93.5198	-730	QO	1.9	0	4.6	-1	0.9	-1	0.426	0	2.073	0	4.867	0	1507	47	1.7
42550.4	10000	41.8868	93.5198	-729	QO	1.8	0	5.1	0	1.0	0	0.360	0	1.876	0	5.211	0	1521	44	1.7
42550.5	10000	41.8875	93.5198	-729	QO	1.8	0	5.3	0	1.0	0	0.352	0	1.827	0	5.191	0	1537	53	1.7
42550.6	10000	41.8882	93.5197	-730	QO	1.7	-1	5.3	0	1.0	0	0.316	-1	1.626	-1	5.147	0	1553	42	1.7
42550.7	10000	41.8888	93.5197	-732	QO	1.8	-1	5.8	0	1.1	0	0.302	-1	1.666	-1	5.513	0	1571	47	1.7
42550.8	10000	41.8895	93.5197	-734	QO	1.6	-1	6.0	1	1.0	0	0.263	-1	1.519	-1	5.767	1	1581	51	1.7
42550.9	10000	41.8902	93.5197	-734	QO	1.9	0	5.9	0	1.0	0	0.313	-1	1.782	0	5.685	0	1588	46	1.7
42551.0	10000	41.8908	93.5197	-733	QO	1.8	0	5.8	0	1.1	0	0.312	-1	1.731	0	5.544	0	1573	46	1.7
42551.1	10000	41.8915	93.5197	-732	QO	2.0	0	5.4	0	1.0	0	0.366	0	1.884	0	5.152	0	1567	46	1.7
42551.2	10000	41.8921	93.5197	-731	QO	2.2	0	5.2	0	0.9	-1	0.416	0	2.377	0	5.711	0	1523	39	1.7
42551.3	10000	41.8928	93.5197	-732	QO	2.3	0	5.0	0	0.8	-1	0.467	1	2.761	1	5.915	1	1476	41	1.7
42551.4	10000	41.8935	93.5197	-732	QO	2.2	0	4.4	-1	0.9	-1	0.508	1	2.583	1	5.082	0	1449	49	1.7
42551.5	10000	41.8941	93.5197	-732	QO	2.2	0	4.8	-1	0.8	-1	0.470	1	2.695	1	5.734	1	1434	38	1.7
42551.6	10000	41.8948	93.5197	-734	QO	1.9	0	4.9	0	0.8	-1	0.391	0	2.261	0	5.787	1	1425	49	1.7
42551.7	10000	41.8954	93.5197	-735	QO	1.6	-1	5.2	0	0.8	-1	0.304	-1	1.952	0	6.411	1	1435	58	1.7
42551.8	10000	41.8961	93.5196	-735	QO	1.4	-1	5.3	0	0.8	-2	0.261	-1	1.753	0	6.725	2	1451	52	1.7
42551.9	10000	41.8968	93.5196	-736	QO	1.3	-1	6.0	1	0.8	-1	0.221	-1	1.571	-1	7.102	2	1507	39	1.7
42552.0	10000	41.8974	93.5196	-736	QO	1.3	-2	6.2	1	0.9	-1	0.207	-2	1.424	-1	6.879	2	1562	46	1.7
42552.1	10010	41.8981	93.5196	-736	QO	1.2	-2	6.2	1	0.8	-1	0.000	-3	0.000	-3	7.424	2	1590	53	1.7
42552.2	10000	41.8987	93.5196	-736	QO	1.3	-2	6.1	1	0.9	-2	0.212	-2	1.471	-1	6.947	3	1597	43	1.7
42552.3	10000	41.8994	93.5196	-736	QO	1.6	-1	6.4	1	0.9	-2	[illegible]	[illegible]	1.772	0	7.245	3	1618	55	1.7
42552.4	10000	41.9001	93.5196	-736	QO	2.0	0	5.8	1	0.9	-2	[illegible]	0	2.365	1	6.783	3	1622	53	1.7
42552.5	10000	41.9007	93.5196	-737	QO	2.2	0	5.6	0	0.9	-1	0.394	0	2.437	1	6.189	2	1628	44	1.7
42552.6	10000	41.9014	93.5196	-736	QO	2.0	0	5.1	0	0.9	-1	0.388	0	2.147	1	5.532	1	1598	41	1.7
42552.7	10000	41.9020	93.5196	-736	QO	1.9	0	5.2	0	0.9	-1	0.370	0	2.040	0	5.516	1	1580	46	1.7
42552.8	10000	41.9027	93.5196	-734	QO	1.8	0	5.3	0	0.9	-1	0.346	0	1.973	0	5.709	1	1563	45	1.7
42552.9	10000	41.9034	93.5195	-734	QO	1.9	0	4.8	-1	0.9	-1	0.395	0	2.088	0	5.281	0	1530	48	1.7
42553.0	10000	41.9040	93.5195	-738	QO	1.7	-1	4.4	-2	0.9	-2	0.386	0	1.869	0	4.846	-1	1488	47	1.7
42553.1	10000	41.9047	93.5195	-740	QO	1.5	-1	4.4	-2	0.9	-1	0.347	0	1.658	-1	4.785	-1	1456	52	1.7
42553.2	10000	41.9054	93.5195	-741	QO	1.4	-1	4.5	-1	0.9	-1	0.303	-1	1.507	-1	4.973	0	1422	49	1.7
42553.3	10000	41.9060	93.5195	-742	QO	1.4	-1	4.5	-1	0.9	-1	0.314	-1	1.535	-1	4.895	0	1409	52	1.7
42553.4	10000	41.9067	93.5195	-742	QO	1.5	-1	4.6	-1	0.9	-2	0.322	-1	1.677	0	5.207	0	1391	51	1.7
42553.5	10000	41.9073	93.5195	-743	QO	1.8	-1	4.5	-1	0.9	-1	0.390	0	1.880	0	4.818	-1	1389	44	1.6
42553.6	10000	41.9080	93.5195	-744	QO	1.7	-1	5.0	-1	1.0	-1	0.346	0	1.762	0	5.094	0	1416	43	1.6
42553.7	10000	41.9087	93.5195	-745	QO	1.5	-1	5.1	-1	1.0	0	0.303	-1	1.512	-1	4.995	0	1448	32	1.6
42553.8	10000	41.9093	93.5195	-745	QO	1.4	-1	5.2	0	1.1	0	0.271	-1	1.337	-1	4.937	0	1458	47	1.6
42553.9	10000	41.9100	93.5195	-746	QO	1.4	-1	5.0	-1	1.1	0	0.275	-1	1.217	-1	4.423	-1	1467	48	1.6
42554.0	10000	41.9107	93.5195	-746	QO	1.5	-1	5.0	-1	1.1	0	0.294	-1	1.339	-1	4.562	-1	1479	37	1.6
42554.1	10000	41.9113	93.5195	-746	QO	1.4	-1	4.7	-1	1.1	1	0.292	-1	1.246	-1	4.265	-1	1474	36	1.6

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42554.2	10000	41.9120	93.5194	-747	QW	1.3	-2	4.5	-1	1.1	0	0.279	-1	1.195	-1	4.282	-1	1456	58	1.6
42554.3	10000	41.9126	93.5194	-748	QW	1.5	-1	4.2	-2	1.0	0	0.352	0	1.432	-1	4.062	-2	1429	64	1.6
42554.4	10000	41.9133	93.5194	-749	QW	1.6	-1	4.1	-2	1.0	0	0.391	0	1.554	-1	3.971	-2	1408	49	1.6
42554.5	10000	41.9140	93.5194	-750	QW	1.6	-1	4.0	-2	1.1	0	0.396	0	1.464	-1	3.696	-2	1404	49	1.6
42554.6	10000	41.9146	93.5194	-751	QW	1.7	-1	4.1	-2	1.0	0	0.421	1	1.707	0	4.056	-2	1401	45	1.6
42554.7	10000	41.9153	93.5194	-752	QW	1.6	-1	3.8	-2	1.0	0	0.429	1	1.578	-1	3.681	-2	1380	44	1.6
42554.8	10000	41.9159	93.5194	-753	QW	1.6	-1	3.7	-3	1.1	0	0.432	1	1.520	-1	3.520	-3	1368	35	1.6
42554.9	10000	41.9166	93.5194	-753	QW	1.7	-1	3.9	-2	1.1	0	0.441	1	1.579	-1	3.578	-3	1374	52	1.6
42555.0	10000	41.9173	93.5194	-755	QW	1.6	-1	3.8	-2	1.1	0	0.423	1	1.520	-1	3.591	-3	1382	39	1.6
42555.1	10000	41.9179	93.5194	-756	QW	1.6	-1	4.0	-2	1.1	0	0.394	0	1.493	-1	3.791	-2	1377	46	1.6
42555.2	10000	41.9186	93.5194	-757	QW	1.8	0	4.2	-2	1.0	-1	0.438	1	1.859	0	4.247	-2	1386	50	1.6
42555.3	10000	41.9192	93.5193	-759	QW	1.7	-1	3.9	-2	1.0	0	0.420	1	1.626	-1	3.872	-2	1381	49	1.5
42555.4	10000	41.9199	93.5193	-760	QW	1.9	0	4.2	-2	1.1	0	0.465	1	1.768	0	3.799	-2	1401	33	1.5
42555.5	10000	41.9206	93.5193	-761	QW	1.9	0	4.1	-2	1.1	0	0.475	1	1.760	0	3.709	-2	1407	48	1.5
42555.6	10000	41.9212	93.5193	-762	QW	1.8	0	3.9	-2	1.1	0	0.469	1	1.692	0	3.611	-3	1393	55	1.5
42555.7	10000	41.9219	93.5193	-763	QW	1.5	-1	4.1	-2	1.1	-1	0.355	0	1.321	-1	3.723	-3	1365	51	1.5
42555.8	10000	41.9225	93.5193	-764	QW	1.6	-1	3.9	-2	1.0	0	0.396	0	1.489	-1	3.761	-2	1351	37	1.5
42555.9	10000	41.9232	93.5193	-765	QW	1.5	-1	4.0	-2	1.1	0	0.387	0	1.457	-1	3.770	-2	1335	51	1.5
42556.0	10000	41.9239	93.5193	-766	QW	1.6	-1	4.2	-2	1.0	0	0.392	0	1.592	-1	4.058	-2	1329	56	1.5
42556.1	10000	41.9245	93.5193	-767	QW	1.4	-1	4.3	-2	1.0	0	0.327	0	1.455	-1	4.448	-1	1307	36	1.5
42556.2	10000	41.9252	93.5193	-768	QW	1.4	-1	4.2	-2	1.0	-1	0.339	0	1.500	-1	4.424	-1	1300	53	1.5
42556.3	10000	41.9259	93.5193	-769	QW	1.3	-2	4.3	-2	1.0	-1	0.312	-1	1.365	-1	4.377	-1	1295	42	1.5
42556.4	10000	41.9265	93.5193	-770	QW	1.6	-1	4.3	-2	1.0	-1	0.368	0	1.639	-1	4.448	-1	1295	38	1.5
42556.5	10000	41.9272	93.5192	-772	QW	1.5	-1	4.0	-2	1.0	-1	0.376	0	1.510	-1	4.015	-2	1293	37	1.5
42556.6	10000	41.9278	93.5192	-773	QW	1.4	-1	3.8	-2	1.0	-1	0.383	0	1.445	-1	3.768	-2	1289	53	1.5
42556.7	10000	41.9285	93.5192	-774	QW	1.4	-1	3.6	-2	1.0	-1	0.388	0	1.460	-1	3.762	-2	1279	44	1.5
42556.8	10000	41.9292	93.5192	-776	QW	1.5	-1	3.7	-3	1.0	-1	0.403	0	1.544	-1	3.835	-2	1277	47	1.5
42556.9	10000	41.9298	93.5192	-777	QW	1.3	-2	3.9	-2	1.0	-1	0.338	0	1.328	-1	3.928	-2	1286	58	1.5
42557.0	10000	41.9305	93.5192	-778	QW	1.4	-1	3.9	-2	1.0	-1	0.360	0	1.444	-1	4.014	-2	1293	42	1.5
42557.1	10000	41.9311	93.5192	-779	QW	1.5	-1	3.6	-3	1.0	-1	0.407	0	1.473	-1	3.620	-3	1308	45	1.5
42557.2	10000	41.9318	93.5192	-780	QW	1.4	-1	3.9	-2	1.0	0	0.366	0	1.407	-1	3.844	-2	1312	65	1.5
42557.3	10000	41.9325	93.5192	-781	QW	1.3	-2	4.2	-2	1.0	0	0.308	-1	1.248	-1	4.050	-2	1313	47	1.5
42557.4	10000	41.9331	93.5192	-782	QW	1.3	-2	4.3	-2	1.1	0	0.300	-1	1.226	-1	4.088	-2	1325	53	1.5
42557.5	10000	41.9338	93.5192	-784	QW	1.2	-2	4.4	-2	1.1	0	0.284	-1	1.184	-2	4.173	-2	1323	37	1.5
42557.6	10000	41.9344	93.5191	-786	QW	1.3	-2	4.3	-2	1.1	0	0.290	-1	1.198	-1	4.126	-2	1324	57	1.5
42557.7	10000	41.9351	93.5191	-787	QW	1.2	-2	4.6	-1	1.1	0	0.256	-1	1.068	-2	4.179	-2	1346	50	1.5
42557.8	10000	41.9358	93.5191	-787	QW	1.1	-2	4.9	-1	1.1	0	0.233	-1	1.024	-2	4.401	-1	1368	46	1.5
42557.9	10000	41.9364	93.5191	-789	QW	1.1	-2	4.8	-1	1.1	0	0.227	-2	0.992	-2	4.362	-1	1385	38	1.5
42558.0	10000	41.9371	93.5191	-790	QW	1.2	-2	4.8	-1	1.2	0	0.250	-1	1.049	-2	4.197	-2	1400	45	1.5
42558.1	10000	41.9378	93.5191	-790	QW	1.2	-2	5.1	0	1.2	0	0.238	-1	1.047	-2	4.397	-1	1412	36	1.5
42558.2	10000	41.9384	93.5191	-792	QW	1.2	-2	5.0	-1	1.2	0	0.235	-1	1.026	-2	4.372	-1	1424	52	1.4
42558.3	10000	41.9391	93.5191	-793	QW	1.4	-2	5.4	0	1.2	0	0.253	-1	1.223	-1	4.834	-1	1424	43	1.4
42558.4	10000	41.9398	93.5191	-795	QW	1.4	-1	4.9	-1	1.0	0	0.289	-1	1.341	-1	4.633	-1	1414	43	1.4
42558.5	10000	41.9404	93.5191	-797	QW	1.5	-1	5.0	-1	1.0	0	0.306	-1	1.493	-1	4.874	-1	1401	51	1.4
42558.6	10000	41.9411	93.5191	-799	QW	1.7	-1	5.3	0	1.0	0	0.320	-1	1.648	-1	5.154	0	1404	53	1.4
42558.7	10000	41.9417	93.5191	-800	QW	1.7	-1	4.9	-1	0.9	-1	0.348	0	1.805	0	5.188	0	1409	53	1.4
42558.8	10000	41.9424	93.5191	-800	QW	1.8	-1	4.8	-1	0.9	-1	0.368	0	1.881	0	5.108	0	1396	39	1.4
42558.9	10000	41.9431	93.5190	-801	QW	1.8	0	4.8	-1	1.0	-1	0.377	0	1.878	0	4.985	0	1402	57	1.4
42559.0	10000	41.9437	93.5190	-803	QW	1.9	0	4.7	-1	1.0	-1	0.401	0	1.939	0	4.837	-1	1414	33	1.4
42559.1	10000	41.9444	93.5190	-803	QW	1.7	-1	5.1	0	1.0	-1	0.335	0	1.710	0	5.102	0	1421	41	1.4
42559.2	10000	41.9450	93.5190	-804	QW	1.6	-1	5.0	-1	1.0	-1	0.317	-1	1.526	-1	4.811	-1	1433	39	1.4
42559.3	10000	41.9457	93.5190	-804	QW	1.6	-1	5.0	-1	1.1	0	0.312	-1	1.440	-1	4.614	-1	1434	38	1.4

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42559.4	10000	41.9464	93.5190	-806	QW	1.5	-1	5.4	0	1.1	1	0.274	-1	1.331	-1	4.852	-1	1435	40	1.4
42559.5	10000	41.9470	93.5190	-808	QW	1.7	-1	5.3	0	1.2	1	0.314	-1	1.441	-1	4.588	-1	1456	54	1.4
42559.6	10000	41.9477	93.5190	-810	QW	1.7	-1	5.2	0	1.1	1	0.334	0	1.516	-1	4.543	-1	1461	30	1.4
42559.7	10000	41.9483	93.5190	-811	QW	1.6	-1	5.1	-1	1.2	1	0.313	-1	1.375	-1	4.400	-1	1475	59	1.4
42559.8	10000	41.9490	93.5190	-812	QW	1.9	0	4.8	-1	1.1	1	0.400	0	1.682	0	4.208	-2	1488	44	1.4
42559.9	10000	41.9497	93.5190	-813	QW	1.9	0	4.8	-1	1.1	1	0.385	0	1.632	-1	4.239	-2	1492	43	1.4
42560.0	10000	41.9503	93.5190	-815	QW	1.9	0	4.7	-1	1.1	1	0.405	0	1.672	0	4.128	-2	1504	49	1.4
42560.1	10000	41.9510	93.5189	-816	QW	2.0	0	4.7	-1	1.2	1	0.436	1	1.775	0	4.074	-2	1520	46	1.4
42560.2	10000	41.9516	93.5189	-818	QW	1.8	0	4.9	-1	1.1	1	0.373	0	1.602	-1	4.290	-1	1526	45	1.4
42560.3	10000	41.9523	93.5189	-819	QW	1.8	0	4.9	-1	1.1	1	0.365	0	1.552	-1	4.254	-2	1528	38	1.4
42560.4	10000	41.9530	93.5189	-821	QW	1.8	-1	5.0	-1	1.2	1	0.354	0	1.481	-1	4.183	-2	1523	42	1.4
42560.5	10000	41.9536	93.5189	-822	QW	1.4	-1	5.1	0	1.2	1	0.284	-1	1.207	-1	4.253	-2	1516	42	1.4
42560.6	10000	41.9543	93.5189	-823	QW	1.5	-1	5.3	0	1.2	1	0.285	-1	1.271	-1	4.459	-1	1508	40	1.4
42560.7	10000	41.9549	93.5189	-824	QW	1.3	-2	5.4	0	1.2	1	0.241	-1	1.089	-2	4.529	-1	1497	51	1.4
42560.8	10000	41.9556	93.5189	-825	QW	1.1	-2	5.1	0	1.2	2	0.223	-2	0.948	-2	4.248	-2	1476	51	1.4
42560.9	10000	41.9563	93.5189	-827	QW	1.2	-2	4.9	-1	1.2	1	0.246	-1	1.004	-2	4.077	-2	1448	34	1.4
42561.0	10000	41.9569	93.5189	-828	QW	1.2	-2	4.6	-1	1.2	1	0.255	-1	0.999	-2	3.920	-2	1436	37	1.4
42561.1	10000	41.9576	93.5189	-829	QW	1.4	-1	4.4	-2	1.1	1	0.316	-1	1.219	-1	3.858	-2	1415	45	1.4
42561.2	10000	41.9583	93.5188	-831	QW	1.4	-1	4.4	-1	1.1	1	0.323	-1	1.266	-1	3.915	-2	1409	49	1.4
42561.3	10000	41.9589	93.5188	-832	QW	1.2	-2	4.4	-2	1.1	1	0.271	-1	1.035	-2	3.819	-2	1418	40	1.4
42561.4	10000	41.9596	93.5188	-833	QW	1.3	-2	4.1	-2	1.1	0	0.307	-1	1.147	-2	3.740	-2	1404	50	1.3
42561.5	10000	41.9602	93.5188	-834	QW	1.4	-1	4.5	-1	1.1	0	0.322	-1	1.329	-1	4.125	-2	1402	45	1.3
42561.6	10000	41.9609	93.5188	-835	QW	1.6	-1	4.5	-1	1.1	1	0.343	0	1.413	-1	4.115	-2	1431	54	1.3
42561.7	10000	41.9616	93.5188	-837	QW	1.6	-1	5.0	-1	1.1	0	0.317	-1	1.451	-1	4.574	-1	1456	42	1.3
42561.8	10000	41.9622	93.5188	-838	QW	1.5	-1	5.2	0	1.1	1	0.280	-1	1.310	-1	4.681	-1	1475	38	1.3
42561.9	10000	41.9629	93.5188	-840	QW	1.5	-1	5.2	0	1.1	1	0.278	-1	1.283	-1	4.612	-1	1476	39	1.3
42562.0	10000	41.9635	93.5188	-841	QW	1.6	-1	5.4	0	1.1	0	0.302	-1	1.470	-1	4.864	-1	1473	43	1.3
42562.1	10000	41.9642	93.5188	-843	QW	1.7	-1	5.6	0	1.1	0	0.303	-1	1.535	-1	5.065	0	1492	36	1.3
42562.2	10000	41.9649	93.5188	-844	QW	1.5	-1	5.5	0	1.1	0	0.268	-1	1.355	-1	5.064	0	1505	55	1.3
42562.3	10000	41.9655	93.5188	-846	QW	1.4	-1	5.8	0	1.1	0	0.241	-1	1.292	-1	5.361	0	1509	53	1.3
42562.4	10000	41.9662	93.5188	-847	QW	1.6	-1	5.6	0	1.1	0	0.284	-1	1.504	-1	5.305	0	1510	42	1.3
42562.5	10000	41.9669	93.5187	-848	QW	1.6	-1	5.6	0	1.0	0	0.289	-1	1.562	-1	5.402	0	1524	47	1.3
42562.6	10000	41.9675	93.5187	-850	QW	1.9	0	5.9	1	1.0	0	0.313	-1	1.767	0	5.652	1	1551	59	1.3
42562.7	10000	41.9682	93.5187	-851	QW	1.9	0	5.9	1	1.1	0	0.326	0	1.763	0	5.410	0	1563	46	1.3
42562.8	10000	41.9688	93.5187	-853	QW	2.0	0	6.0	1	1.1	0	0.334	0	1.880	0	5.626	1	1576	48	1.3
42562.9	10000	41.9695	93.5187	-855	QW	2.1	0	6.2	1	1.0	0	0.343	0	2.018	0	5.889	1	1576	49	1.3
42563.0	10000	41.9702	93.5187	-858	QW	2.2	1	5.9	1	1.0	0	0.381	0	2.139	0	5.617	1	1570	43	1.3
42563.1	10000	41.9708	93.5187	-859	QW	1.9	0	6.0	1	1.0	0	0.314	-1	1.813	0	5.768	1	1560	45	1.3
42563.2	10000	41.9715	93.5187	-860	QW	2.1	0	6.2	1	1.0	0	0.343	0	2.058	0	6.009	1	1557	40	1.3
42563.3	10000	41.9721	93.5187	-861	QW	2.0	0	6.1	1	1.0	-1	0.333	0	2.081	0	6.245	2	1539	51	1.3
42563.4	10000	41.9728	93.5187	-864	QW	2.0	0	5.9	1	1.0	-1	0.338	0	2.035	0	6.017	1	1537	53	1.3
42563.5	10000	41.9735	93.5187	-866	QW	2.0	0	5.7	1	1.0	-1	0.350	0	1.986	0	5.681	1	1519	43	1.3
42563.6	10000	41.9741	93.5186	-868	QW	2.1	0	5.4	1	1.0	-1	0.397	1	2.172	0	5.478	0	1517	52	1.2
42563.7	10000	41.9748	93.5186	-871	QW	1.9	0	5.8	1	0.9	-1	0.328	0	2.010	0	6.122	2	1503	47	1.2
42563.8	10000	41.9754	93.5186	-873	QW	2.1	0	5.6	1	1.0	-1	0.383	1	2.171	0	5.664	1	1496	43	1.2
42563.9	10000	41.9761	93.5186	-875	QW	2.0	0	4.9	-1	1.0	-1	0.411	1	2.047	0	4.980	0	1478	49	1.2
42564.0	10000	41.9768	93.5186	-877	QW	2.0	0	4.8	-1	1.0	0	0.423	1	1.996	0	4.722	-1	1474	37	1.2
42564.1	10000	41.9774	93.5186	-879	QW	2.0	0	4.9	-1	1.0	-1	0.415	0	2.056	0	4.951	0	1469	56	1.2
42564.2	10000	41.9781	93.5186	-880	QW	2.1	0	5.1	-1	1.0	0	0.405	0	2.022	0	4.988	0	1478	39	1.2
42564.3	10000	41.9788	93.5186	-882	QW	1.8	0	5.1	-1	1.1	0	0.357	0	1.697	0	4.752	-1	1489	33	1.2
42564.4	10000	41.9794	93.5186	-884	QW	1.9	0	5.2	0	1.1	1	0.377	0	1.744	0	4.624	-1	1491	55	1.2
42564.5	10000	41.9801	93.5186	-886	QW	1.8	0	5.3	0	1.1	1	0.340	0	1.585	-1	4.661	-1	1508	40	1.2

LINE 1080 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42564.6	10000	41.9807	93.5186	-889	QW	1.9	0	5.8	1	1.1	1	0.325	0	1.654	-1	5.083	0	1527	42	1.2
42564.7	10000	41.9814	93.5186	-892	QW	1.7	-1	5.7	0	1.2	1	0.298	-1	1.454	-1	4.872	-1	1535	30	1.2
42564.8	10000	41.9821	93.5185	-894	QW	1.8	0	5.7	0	1.2	1	0.317	-1	1.549	-1	4.888	0	1550	47	1.2
42564.9	10000	41.9827	93.5185	-897	QW	1.8	0	5.8	1	1.1	1	0.317	-1	1.623	-1	5.124	0	1558	49	1.2
42565.0	10000	41.9834	93.5185	-898	QW	2.1	0	5.7	0	1.1	0	0.366	0	1.922	0	5.243	0	1560	36	1.2
42565.1	10000	41.9840	93.5185	-900	QW	2.1	0	5.4	0	1.1	0	0.392	0	1.998	0	5.098	0	1560	44	1.2
42565.2	10000	41.9847	93.5185	-902	QW	2.3	1	5.3	0	1.0	0	0.430	1	2.212	1	5.145	0	1555	51	1.2
42565.3	10000	41.9854	93.5185	-905	QW	2.1	0	5.5	0	1.0	0	0.387	0	2.032	0	5.255	0	1542	37	1.2
42565.4	10000	41.9860	93.5185	-907	QW	2.1	0	5.6	0	1.0	0	0.379	0	2.018	0	5.326	0	1533	56	1.2
42565.5	10000	41.9867	93.5185	-909	QW	2.0	0	5.7	0	1.1	0	0.354	0	1.854	0	5.237	0	1515	44	1.2
42565.6	10000	41.9874	93.5185	-911	QW	1.8	0	5.8	0	1.1	0	0.320	-1	1.686	0	5.271	0	1496	44	1.2
42565.7	10000	41.9880	93.5185	-913	QW	1.8	0	5.9	1	1.1	1	0.311	-1	1.654	-1	5.318	0	1491	45	1.2
42565.8	10000	41.9887	93.5185	-916	QW	1.9	0	5.8	1	1.1	1	0.319	-1	1.658	-1	5.200	0	1494	43	1.2
42565.9	10000	41.9893	93.5184	-918	QW	1.7	-1	5.8	1	1.2	1	0.291	-1	1.460	-1	5.017	0	1499	39	1.2
42566.0	10000	41.9900	93.5184	-921	QW	1.6	-1	5.6	0	1.2	1	0.296	-1	1.383	-1	4.680	-1	1493	59	1.2
42566.1	10000	41.9907	93.5184	-923	QW	1.7	-1	5.8	1	1.1	1	0.289	-1	1.460	-1	5.057	0	1490	41	1.2
42566.2	10000	41.9913	93.5184	-926	QW	1.8	-1	5.7	0	1.1	1	0.310	-1	1.573	-1	5.067	0	1486	58	1.2
42566.3	10000	41.9920	93.5184	-929	QW	1.7	-1	5.5	0	1.2	1	0.306	-1	1.452	-1	4.743	-1	1492	46	1.2
42566.4	10000	41.9926	93.5184	-932	QW	1.8	0	5.6	0	1.2	1	0.326	0	1.536	-1	4.705	-1	1492	36	1.2
42566.5	10000	41.9933	93.5184	-936	QW	1.6	-1	5.7	0	1.2	1	0.288	-1	1.413	-1	4.915	0	1481	45	1.2
42566.6	10000	41.9940	93.5184	-939	QW	1.9	0	5.8	1	1.1	0	0.330	0	1.739	0	5.266	0	1476	44	1.2
42566.7	10000	41.9946	93.5184	-941	QW	1.9	0	5.7	0	1.1	0	0.342	0	1.864	0	5.446	0	1489	40	1.2
42566.8	10000	41.9953	93.5184	-943	QW	2.3	1	5.3	0	1.1	0	0.424	1	2.121	0	5.001	0	1496	52	1.2
42566.9	10000	41.9959	93.5184	-946	QW	2.5	1	5.0	-1	1.0	0	0.495	1	2.414	1	4.876	-1	1492	41	1.2
42567.0	10000	41.9966	93.5184	-948	QW	2.8	2	4.9	-1	1.0	0	0.559	2	2.802	2	5.014	0	1504	41	1.2
42567.1	10000	41.9973	93.5184	-950	QW	2.4	1	4.6	-1	1.0	0	0.531	2	2.503	1	4.717	-1	1490	37	1.2
42567.2	10000	41.9979	93.5184	-953	QW	2.5	1	4.5	-1	1.0	0	0.554	2	2.467	1	4.453	-1	1484	50	1.2
42567.3	10000	41.9986	93.5184	-955	QW	2.3	1	4.4	-2	1.1	0	0.527	2	2.183	1	4.145	-2	1464	49	1.2
42567.4	10000	41.9993	93.5184	-958	QW	2.3	1	4.4	-1	1.1	0	0.518	2	2.124	0	4.102	-2	1440	47	1.2
42567.5	10000	41.9999	93.5185	-960	QW	2.1	0	4.5	-1	1.1	0	0.460	1	1.911	0	4.152	-2	1425	39	1.2

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50204.0	10000	41.0045	93.1661	-762	QK	1.7	-2	7.4	0	1.2	1	0.235	-2	1.450	-2	6.177	0	1801	58	1.2
50204.1	10000	41.0051	93.1662	-764	QK	1.9	-1	7.4	0	1.2	0	0.255	-1	1.600	-1	6.277	0	1804	36	1.2
50204.2	10000	41.0058	93.1662	-765	QK	1.7	-2	7.3	0	1.2	1	0.238	-2	1.445	-2	6.064	-1	1802	45	1.2
50204.3	10000	41.0064	93.1662	-766	QK	1.7	-2	7.6	0	1.2	1	0.229	-2	1.429	-2	6.231	0	1805	43	1.2
50204.4	10000	41.0070	93.1663	-768	QK	1.9	-1	7.1	0	1.2	0	0.261	-1	1.576	-1	6.040	-1	1796	46	1.2
50204.5	10000	41.0077	93.1663	-768	QK	1.9	-1	7.0	0	1.2	1	0.270	-1	1.603	-1	5.943	-1	1795	55	1.2
50204.6	10000	41.0083	93.1664	-768	QK	1.8	-2	7.3	0	1.2	1	0.244	-1	1.493	-2	6.128	-1	1788	42	1.2
50204.7	10000	41.0090	93.1664	-768	QK	1.8	-1	7.6	1	1.2	1	0.242	-2	1.543	-2	6.368	0	1783	32	1.2
50204.8	10000	41.0096	93.1664	-767	QK	1.7	-2	7.7	1	1.2	1	0.223	-2	1.431	-2	6.424	0	1777	43	1.1
50204.9	10000	41.0103	93.1665	-766	QK	1.8	-2	7.7	1	1.1	0	0.229	-2	1.566	-1	6.849	1	1758	49	1.1
50205.0	10000	41.0109	93.1665	-765	QK	1.8	-1	7.4	0	1.1	0	0.246	-1	1.639	-1	6.667	0	1743	48	1.1
50205.1	10000	41.0115	93.1665	-765	QK	1.7	-2	7.7	1	1.1	0	0.220	-2	1.546	-2	7.015	1	1755	49	1.1
50205.2	10000	41.0122	93.1666	-764	QK	1.7	-2	7.6	0	1.1	0	0.223	-2	1.546	-2	6.935	1	1760	33	1.1
50205.3	10000	41.0128	93.1666	-763	QK	1.7	-2	7.6	1	1.1	0	0.226	-2	1.566	-1	6.919	1	1770	31	1.1
50205.4	10000	41.0135	93.1667	-761	QK	1.9	-1	7.8	1	1.1	0	0.245	-1	1.776	-1	7.246	1	1797	48	1.1
50205.5	10000	41.0141	93.1667	-759	QK	2.0	-1	8.0	1	1.1	-1	0.248	-1	1.892	-1	7.642	2	1813	41	1.1
50205.6	10000	41.0148	93.1667	-757	QK	2.2	-1	8.1	1	1.1	0	0.271	-1	2.045	0	7.540	2	1862	32	1.1
50205.7	10000	41.0154	93.1668	-755	QK	2.2	-1	8.2	1	1.1	0	0.267	-1	2.001	-1	7.486	1	1906	42	1.1
50205.8	10000	41.0160	93.1668	-753	QK	2.3	-1	8.1	1	1.2	0	0.281	-1	1.965	-1	6.994	1	1922	57	1.1
50205.9	10000	41.0167	93.1668	-751	QK	2.1	-1	8.1	1	1.2	0	0.265	-1	1.846	-1	6.962	1	1938	35	1.2
50206.0	10000	41.0173	93.1669	-749	QK	2.1	-1	7.7	1	1.2	0	0.270	-1	1.785	-1	6.608	0	1949	44	1.2
50206.1	10000	41.0180	93.1669	-747	QK	2.1	-1	7.8	1	1.2	1	0.266	-1	1.704	-1	6.409	0	1943	47	1.2
50206.2	10000	41.0186	93.1669	-745	QK	2.0	-1	7.4	0	1.3	1	0.266	-1	1.544	-2	5.798	-1	1934	39	1.2
50206.3	10000	41.0193	93.1670	-744	QK	1.8	-2	7.2	0	1.3	1	0.245	-1	1.369	-2	5.583	-1	1901	43	1.2
50206.4	10000	41.0199	93.1670	-743	QK	1.8	-1	7.1	0	1.3	1	0.259	-1	1.454	-2	5.620	-1	1863	39	1.2
50206.5	10000	41.0205	93.1671	-742	QK	1.9	-1	6.9	0	1.2	1	0.275	-1	1.580	-1	5.749	-1	1845	45	1.2
50206.6	10000	41.0212	93.1671	-741	QK	2.2	-1	6.8	-1	1.2	0	0.324	-1	1.891	-1	5.834	-1	1819	43	1.2
50206.7	10000	41.0218	93.1671	-740	QK	2.4	0	7.1	0	1.1	0	0.346	0	2.184	0	6.314	0	1780	52	1.2
50206.8	10000	41.0225	93.1672	-740	QK	2.3	-1	6.9	0	1.0	-1	0.330	0	2.197	0	6.655	0	1735	58	1.2
50206.9	10000	41.0231	93.1672	-740	QK	2.4	0	6.6	-1	1.0	-1	0.362	0	2.474	0	6.839	1	1696	36	1.2
50207.0	10000	41.0238	93.1673	-740	QK	2.5	0	6.3	-1	0.9	-1	0.398	1	2.646	1	6.645	0	1664	37	1.2
50207.1	10000	41.0244	93.1673	-740	QK	2.6	0	6.1	-2	0.9	-2	0.420	1	2.738	1	6.527	0	1644	43	1.2
50207.2	10000	41.0250	93.1673	-741	QK	2.4	0	6.2	-1	0.9	-2	0.391	1	2.563	1	6.548	0	1616	44	1.2
50207.3	10000	41.0257	93.1674	-741	QK	2.3	-1	5.9	-2	0.9	-2	0.380	1	2.439	0	6.414	0	1597	41	1.2
50207.4	10000	41.0263	93.1674	-742	QK	2.3	0	5.4	-2	0.9	-2	0.424	1	2.438	0	5.750	-1	1575	54	1.2
50207.5	10000	41.0270	93.1674	-742	QK	2.3	0	5.1	-3	1.0	-1	0.457	1	2.404	0	5.258	-2	1587	37	1.2
50207.6	10000	41.0276	93.1675	-743	QK	2.3	0	5.4	-2	1.0	-1	0.434	1	2.369	0	5.453	-1	1600	29	1.2
50207.7	10000	41.0283	93.1675	-743	QK	2.3	-1	5.7	-2	1.0	-1	0.401	1	2.298	0	5.728	-1	1611	32	1.2
50207.8	10000	41.0289	93.1676	-744	QK	2.2	-1	6.1	-2	1.0	-1	0.364	0	2.194	0	6.030	-1	1618	48	1.3
50207.9	10000	41.0295	93.1676	-744	QK	2.1	-1	6.1	-2	1.0	-1	0.342	0	2.088	0	6.101	-1	1630	41	1.3
50208.0	10000	41.0302	93.1676	-745	QK	1.7	-2	6.3	-1	1.0	-1	0.271	-1	1.717	-1	6.325	0	1630	46	1.3
50208.1	10000	41.0308	93.1677	-746	QK	1.3	-3	6.5	-1	1.0	-1	0.196	-2	1.321	-2	6.732	0	1656	43	1.3
50208.2	10000	41.0315	93.1677	-746	QK	1.6	-2	6.5	-1	1.0	-1	0.241	-2	1.622	-1	6.737	0	1650	54	1.3
50208.3	10000	41.0321	93.1678	-747	QK	1.5	-2	6.7	-1	1.0	-1	0.219	-2	1.517	-2	6.932	1	1670	49	1.3
50208.4	10000	41.0328	93.1678	-748	QK	1.8	-2	7.0	0	0.9	-1	0.249	-1	1.857	-1	7.472	1	1685	31	1.3
50208.5	10000	41.0334	93.1678	-749	QK	1.8	-2	7.2	0	1.0	-1	0.244	-1	1.801	-1	7.389	1	1706	56	1.3
50208.6	10000	41.0340	93.1679	-749	QK	2.0	-1	7.1	0	1.0	-1	0.280	0	2.057	0	7.344	1	1720	40	1.3
50208.7	10000	41.0347	93.1679	-750	QK	2.3	-1	7.1	0	1.0	-1	0.319	0	2.285	1	7.163	1	1743	53	1.3
50208.8	10000	41.0353	93.1679	-751	QK	2.5	0	7.4	0	1.0	-1	0.345	0	2.534	1	7.348	1	1762	43	1.4
50208.9	10000	41.0360	93.1680	-752	QK	2.5	0	7.7	1	1.1	0	0.326	0	2.303	1	7.067	1	1810	53	1.4
50209.0	10000	41.0366	93.1680	-753	QK	2.5	0	7.2	0	1.1	0	0.339	0	2.282	1	6.735	0	1828	49	1.4
50209.1	10000	41.0373	93.1681	-754	QK	2.5	0	7.3	0	1.1	0	0.342	0	2.208	0	6.457	0	1845	42	1.4

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50209.2	10000	41.0379	93.1681	-756	QK	2.6	0	7.0	0	1.1	0	0.376	0	2.445	0	6.508	0	1858	37	1.4
50209.3	10000	41.0386	93.1681	-759	QK	2.7	0	7.1	0	1.1	0	0.378	0	2.472	0	6.533	0	1863	35	1.4
50209.4	10000	41.0392	93.1682	-761	QK	2.5	0	7.3	0	1.1	0	0.342	0	2.294	0	6.716	0	1863	41	1.4
50209.5	10000	41.0398	93.1682	-763	QK	2.6	0	6.9	0	1.1	0	0.378	0	2.400	0	6.357	0	1866	37	1.4
50209.6	10000	41.0405	93.1682	-765	QK	2.5	0	6.8	-1	1.0	-1	0.368	0	2.402	0	6.525	0	1852	44	1.4
50209.7	10000	41.0411	93.1683	-768	QK	2.5	0	7.1	0	1.1	-1	0.360	0	2.404	0	6.670	0	1843	46	1.5
50209.8	10000	41.0418	93.1683	-771	QK	2.5	0	7.0	0	1.1	0	0.358	0	2.313	0	6.460	0	1845	44	1.5
50209.9	10000	41.0424	93.1684	-774	QK	2.3	-1	6.8	-1	1.1	0	0.332	0	2.024	-1	6.093	-1	1836	54	1.5
50210.0	10000	41.0431	93.1684	-778	QK	2.1	-1	6.8	-1	1.1	0	0.308	-1	1.899	-1	6.177	0	1835	52	1.5
50210.1	10000	41.0437	93.1684	-782	QK	2.2	-1	6.6	-1	1.1	0	0.340	0	2.061	0	6.054	-1	1850	50	1.5
50210.2	10000	41.0443	93.1685	-785	QK	2.0	-1	6.7	-1	1.1	0	0.305	-1	1.841	-1	6.044	-1	1856	37	1.5
50210.3	10000	41.0450	93.1685	-789	QK	2.0	-1	7.0	0	1.2	0	0.289	-1	1.728	-1	5.981	-1	1876	42	1.5
50210.4	10000	41.0456	93.1685	-793	QK	1.9	-1	6.9	0	1.2	1	0.282	-1	1.627	-1	5.763	-1	1890	44	1.5
50210.5	10000	41.0463	93.1686	-797	QK	1.9	-1	6.9	0	1.1	0	0.273	-1	1.651	-1	6.054	-1	1885	44	1.5
50210.6	10000	41.0469	93.1685	-801	QK	2.0	-1	7.0	0	1.1	0	0.283	-1	1.728	-1	6.112	-1	1885	47	1.6
50210.7	10000	41.0475	93.1685	-806	QK	1.9	-1	6.7	-1	1.1	0	0.288	-1	1.716	-1	5.963	-1	1881	49	1.6
50210.8	10000	41.0482	93.1685	-811	QK	2.0	-1	6.8	-1	1.2	0	0.290	-1	1.700	-1	5.856	-1	1867	44	1.6
50210.9	10000	41.0488	93.1685	-816	QK	1.9	-1	6.7	-1	1.1	0	0.276	-1	1.640	-1	5.940	-1	1836	40	1.6
50211.0	10000	41.0495	93.1684	-821	QK	1.8	-1	6.5	-1	1.1	0	0.283	-1	1.701	-1	6.015	-1	1801	46	1.6
50211.1	10000	41.0501	93.1684	-825	QK	1.9	-1	6.5	-1	1.0	-1	0.283	-1	1.845	-1	6.509	0	1768	43	1.6
50211.2	10000	41.0508	93.1684	-830	QK	1.8	-2	6.5	-1	1.0	-1	0.276	-1	1.717	-1	6.218	0	1775	40	1.6
50211.3	10000	41.0514	93.1683	-835	QK	1.9	-1	6.6	-1	1.0	-1	0.283	-1	1.827	-1	6.451	0	1773	53	1.6
50211.4	10000	41.0520	93.1683	-840	QK	1.9	-1	6.7	-1	1.0	-1	0.280	-1	1.846	-1	6.584	0	1771	38	1.6
50211.5	10000	41.0527	93.1683	-844	QK	2.0	-1	6.6	-1	1.0	-1	0.298	-1	1.999	-1	6.709	0	1760	47	1.6
50211.6	10000	41.0533	93.1682	-849	QK	2.1	-1	6.6	-1	1.0	-1	0.322	0	2.187	0	6.802	0	1753	44	1.6
50211.7	10000	41.0540	93.1682	-854	QK	2.1	-1	6.6	-1	1.0	-1	0.313	-1	2.101	0	6.709	0	1734	36	1.6
50211.8	10000	41.0546	93.1682	-859	QK	2.2	-1	6.5	-1	1.0	-1	0.333	0	2.133	0	6.396	0	1729	49	1.7
50211.9	10000	41.0552	93.1681	-864	QK	2.2	-1	6.4	-1	1.0	-1	0.340	0	2.273	0	6.689	0	1682	41	1.7
50212.0	10000	41.0559	93.1681	-869	QK	2.0	-1	6.1	-1	1.0	-1	0.322	0	2.055	0	6.379	0	1670	44	1.7
50212.1	10000	41.0565	93.1681	-873	QK	2.2	-1	6.2	-1	1.0	-1	0.347	0	2.212	0	6.372	0	1667	55	1.7
50212.2	10000	41.0572	93.1680	-878	QK	2.1	-1	6.2	-1	1.0	-1	0.335	0	2.109	0	6.296	0	1683	46	1.7
50212.3	10000	41.0578	93.1680	-882	QK	2.1	-1	6.3	-1	1.0	-1	0.332	0	2.080	0	6.265	0	1711	34	1.7
50212.4	10000	41.0584	93.1680	-887	QK	2.2	-1	6.3	-1	1.0	-1	0.354	0	2.253	0	6.371	0	1712	46	1.7
50212.5	10000	41.0591	93.1679	-892	QK	2.4	0	6.3	-1	1.0	-1	0.386	0	2.497	0	6.461	0	1719	45	1.7
50212.6	10000	41.0597	93.1679	-897	QK	2.4	0	6.2	-1	1.0	-1	0.394	1	2.550	1	6.474	0	1723	32	1.7
50212.7	10000	41.0604	93.1679	-902	QK	2.3	-1	6.6	-1	0.9	-2	0.343	0	2.396	0	6.995	1	1711	43	1.7
50212.8	10000	41.0610	93.1678	-907	QK	2.1	-1	6.5	-1	0.9	-2	0.320	0	2.290	0	7.148	1	1691	45	1.7
50212.9	10000	41.0616	93.1678	-912	QK	1.9	-1	6.5	-1	0.9	-2	0.299	-1	2.133	0	7.135	1	1663	50	1.7
50213.0	10000	41.0623	93.1678	-917	QK	1.9	-1	6.5	-1	0.9	-2	0.289	-1	2.032	0	7.038	1	1623	35	1.7
50213.1	10000	41.0629	93.1677	-923	QK	1.8	-2	6.4	-1	0.9	-2	0.276	-1	1.928	-1	6.989	1	1611	42	1.7
50213.2	10000	41.0636	93.1677	-928	QK	1.5	-2	6.4	-1	0.9	-2	0.233	-2	1.639	-1	7.046	1	1576	44	1.7
50213.3	10000	41.0642	93.1677	-933	QK	1.5	-2	6.3	-1	0.9	-2	0.234	-2	1.596	-1	6.805	0	1573	43	1.7
50213.4	10000	41.0648	93.1676	-937	QK	1.6	-2	6.0	-2	0.9	-2	0.265	-1	1.771	-1	6.679	0	1566	40	1.8
50213.5	10000	41.0655	93.1676	-942	QK	1.6	-2	5.8	-2	0.9	-2	0.269	-1	1.780	-1	6.607	0	1556	53	1.8
50213.6	10000	41.0661	93.1676	-946	QK	1.4	-2	5.9	-2	0.9	-2	0.234	-2	1.551	-2	6.625	1	1564	41	1.8
50213.7	10000	41.0667	93.1675	-950	QK	1.5	-2	6.0	-2	0.9	-2	0.246	-1	1.707	-1	6.945	1	1580	40	1.8
50213.8	10000	41.0674	93.1675	-953	QK	1.5	-2	5.8	-2	0.9	-2	0.264	-1	1.808	-1	6.839	1	1594	39	1.8
50213.9	10000	41.0680	93.1675	-957	QK	1.5	-2	5.7	-2	0.8	-2	0.266	-1	1.821	-1	6.859	1	1625	33	1.8
50214.0	10000	41.0687	93.1674	-959	QK	1.5	-2	5.7	-2	0.8	-2	0.258	-1	1.844	-1	7.156	1	1605	38	1.8
50214.1	10000	41.0693	93.1674	-962	QK	1.5	-2	5.4	-2	0.8	-2	0.285	-1	1.876	-1	6.593	0	1575	58	1.8
50214.2	10000	41.0699	93.1674	-964	QK	1.4	-2	5.4	-2	0.8	-3	0.267	-1	1.763	-1	6.610	0	1556	31	1.8
50214.3	10000	41.0706	93.1674	-967	QK	1.8	-1	5.1	-3	0.8	-3	0.353	0	2.390	0	6.770	0	1527	45	1.8

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50214.4	10000	41.0712	93.1673	-970	QK	1.6	-2	4.9	-3	0.8	-3	0.328	0	2.113	0	6.443	0	1529	39	1.8
50214.5	10000	41.0719	93.1673	-972	QK	1.6	-2	5.0	-3	0.8	-3	0.322	0	2.115	0	6.565	0	1538	47	1.8
50214.6	10000	41.0725	93.1673	-974	QK	1.6	-2	5.2	-3	0.8	-3	0.303	-1	1.973	-1	6.506	0	1545	51	1.8
50214.7	10000	41.0732	93.1672	-976	QK	1.5	-2	5.3	-3	0.9	-2	0.284	-1	1.729	-1	6.081	-1	1588	44	1.8
50214.8	10000	41.0738	93.1672	-977	QK	1.6	-2	5.6	-2	0.9	-2	0.287	-1	1.751	-1	6.101	-1	1650	56	1.8
50214.9	10000	41.0744	93.1672	-979	QK	1.7	-2	6.0	-2	1.0	-1	0.280	-1	1.739	-1	6.213	0	1694	36	1.8
50215.0	10000	41.0751	93.1671	-981	QK	1.4	-2	6.2	-1	1.0	-1	0.234	-2	1.415	-2	6.037	-1	1733	36	1.8
50215.1	10000	41.0757	93.1671	-983	QK	1.6	-2	6.3	-1	1.0	-1	0.263	-1	1.650	-1	6.264	0	1733	35	1.8
50215.2	10000	41.0763	93.1671	-984	QK	1.6	-2	6.2	-1	1.0	-1	0.260	-1	1.630	-1	6.282	0	1717	35	1.8
50215.3	10000	41.0770	93.1670	-986	QK	1.7	-2	6.0	-2	1.0	-1	0.282	-1	1.694	-1	6.009	-1	1715	45	1.8
50215.4	10000	41.0776	93.1670	-988	QK	1.8	-2	6.0	-3	1.0	-1	0.293	-1	1.838	-1	6.267	0	1723	50	1.8
50215.5	10000	41.0783	93.1670	-990	QK	2.0	-1	5.7	-2	1.0	-1	0.356	0	2.108	0	5.921	-1	1711	48	1.8
50215.6	10000	41.0789	93.1669	-991	QK	2.2	-1	5.5	-2	0.9	-1	0.401	1	2.329	0	5.805	-1	1736	33	1.8
50215.7	10000	41.0796	93.1669	-992	QK	2.3	0	5.8	-2	1.0	-1	0.399	1	2.404	0	6.027	-1	1754	47	1.8
50215.8	10000	41.0802	93.1669	-993	QK	2.3	0	6.0	-2	1.0	-1	0.387	1	2.327	0	6.008	-1	1785	38	1.8
50215.9	10000	41.0808	93.1668	-995	QK	2.3	0	5.9	-2	1.0	-1	0.391	1	2.347	0	6.004	-1	1803	40	1.8
50216.0	10000	41.0815	93.1668	-996	QK	2.3	0	6.6	-1	0.9	-2	0.349	0	2.490	0	7.138	1	1803	42	1.8
50216.1	10000	41.0821	93.1668	-998	QK	2.3	0	6.8	-1	1.0	-1	0.341	0	2.382	0	6.980	1	1788	40	1.8
50216.2	10000	41.0828	93.1667	-1001	QK	2.1	-1	7.2	0	0.9	-1	0.286	-1	2.191	0	7.649	2	1804	45	1.8
50216.3	10000	41.0834	93.1667	-1003	QK	2.0	-1	7.4	0	1.0	-1	0.265	-1	1.914	-1	7.233	1	1805	32	1.8
50216.4	10000	41.0840	93.1667	-1005	QK	1.9	-1	7.2	0	1.0	-1	0.267	-1	2.003	-1	7.490	1	1784	37	1.8
50216.5	10000	41.0847	93.1666	-1007	QK	2.0	-1	7.4	0	1.0	-1	0.268	-1	2.043	0	7.619	2	1779	44	1.8
50216.6	10000	41.0853	93.1666	-1009	QK	1.7	-2	7.6	0	1.0	-1	0.231	-2	1.754	-1	7.590	2	1771	40	1.8
50216.7	10000	41.0860	93.1666	-1010	QK	1.8	-2	7.1	0	1.0	-1	0.247	-1	1.738	-1	7.042	1	1760	43	1.8
50216.8	10000	41.0866	93.1665	-1012	QK	1.9	-1	7.0	0	0.9	-2	0.275	-1	2.078	0	7.569	2	1750	50	1.8
50216.9	10000	41.0872	93.1665	-1013	QK	2.1	-1	7.1	0	0.9	-2	0.291	-1	2.281	0	7.850	2	1721	32	1.8
50217.0	10000	41.0879	93.1665	-1015	QK	2.1	-1	7.1	0	0.8	-3	0.291	-1	2.520	1	8.674	3	1687	54	1.8
50217.1	10000	41.0885	93.1664	-1018	QK	2.1	-1	7.3	0	0.8	-2	0.287	-1	2.497	1	8.716	3	1668	55	1.7
50217.2	10000	41.0892	93.1664	-1020	QK	1.9	-1	7.1	0	0.8	-2	0.270	-1	2.322	1	8.586	3	1657	52	1.7
50217.3	10000	41.0898	93.1664	-1023	QK	2.2	-1	7.2	0	0.9	-2	0.313	-1	2.639	1	8.430	3	1677	34	1.7
50217.4	10000	41.0904	93.1664	-1025	QK	2.1	-1	7.2	0	0.9	-2	0.298	-1	2.377	1	7.974	2	1694	43	1.7
50217.5	10000	41.0911	93.1663	-1028	QK	1.9	-1	7.4	0	0.9	-2	0.261	-1	2.134	0	8.176	2	1698	35	1.7
50217.6	10000	41.0917	93.1663	-1031	QK	2.0	-1	7.2	0	0.9	-2	0.282	-1	2.170	0	7.689	2	1714	48	1.7
50217.7	10000	41.0924	93.1662	-1033	QK	2.0	-1	6.9	0	1.0	-1	0.291	-1	2.103	0	7.232	1	1731	48	1.7
50217.8	10000	41.0930	93.1662	-1037	QK	2.1	-1	6.8	-1	1.0	-1	0.311	-1	2.069	0	6.664	1	1771	45	1.7
50217.9	10000	41.0936	93.1662	-1039	QK	2.2	-1	6.5	-1	1.0	-1	0.348	0	2.167	0	6.224	1	1772	47	1.7
50218.0	10000	41.0943	93.1662	-1042	QK	2.1	-1	6.6	-1	1.0	-1	0.319	0	2.148	0	6.725	1	1743	38	1.7
50218.1	10000	41.0949	93.1661	-1045	QK	2.2	-1	6.5	-1	1.0	-1	0.329	0	2.242	0	6.813	1	1730	33	1.7
50218.2	10000	41.0956	93.1661	-1050	QK	2.2	-1	6.1	-1	1.0	-1	0.353	0	2.192	0	6.205	1	1734	44	1.7
50218.3	10000	41.0962	93.1660	-1054	QK	2.1	-1	6.1	-2	1.0	-1	0.351	0	2.213	0	6.309	1	1722	34	1.7
50218.4	10000	41.0968	93.1660	-1058	QK	2.2	-1	6.5	-1	1.0	-1	0.330	0	2.282	0	6.916	1	1725	49	1.7
50218.5	10000	41.0975	93.1660	-1061	QK	2.0	-1	6.8	-1	0.9	-2	0.300	-1	2.247	0	7.485	2	1707	55	1.7
50218.6	10000	41.0981	93.1660	-1065	QK	2.0	-1	7.1	-1	0.9	-2	0.278	-1	2.259	0	8.137	2	1708	41	1.7
50218.7	10000	41.0988	93.1659	-1068	QK	2.1	-1	6.9	-1	0.9	-2	0.302	-1	2.278	0	7.552	2	1709	28	1.7
50218.8	10000	41.0994	93.1659	-1071	QK	2.2	-1	6.6	-1	0.9	-2	0.329	-1	2.480	0	7.530	2	1696	44	1.7
50218.9	10000	41.1000	93.1659	-1074	QK	2.1	-1	6.7	-1	0.9	-2	0.314	-1	2.450	0	7.801	2	1694	38	1.7
50219.0	10000	41.1007	93.1658	-1077	QK	1.8	-2	7.2	0	0.9	-2	0.243	-1	2.057	0	8.469	2	1713	41	1.7
50219.1	10000	41.1013	93.1658	-1081	QK	1.8	-2	7.0	0	0.9	-2	0.251	-1	1.943	-1	7.730	2	1740	41	1.7
50219.2	10000	41.1020	93.1658	-1084	QK	1.9	-1	6.8	-1	0.9	-2	0.273	-1	2.035	0	7.450	2	1769	46	1.7
50219.3	10000	41.1026	93.1657	-1087	QK	2.0	-1	7.0	0	1.0	-1	0.286	-1	2.033	1	7.108	1	1793	43	1.7
50219.4	10000	41.1032	93.1657	-1090	QK	2.1	-1	7.0	0	1.0	-1	0.299	-1	2.079	1	6.952	1	1828	32	1.7
50219.5	10000	41.1039	93.1657	-1094	QK	2.2	-1	6.9	0	1.1	0	0.312	-1	1.982	-1	6.359	0	1843	46	1.7

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50219.6	10000	41.1045	93.1656	-1097	QK	2.1	-1	7.0	0	1.1	0	0.305	-1	1.933	-1	6.332	0	1841	51	1.7
50219.7	10000	41.1052	93.1656	-1100	QK	2.2	-1	6.4	-1	1.1	0	0.349	0	2.032	0	5.818	-1	1814	44	1.7
50219.8	10000	41.1058	93.1656	-1104	QK	2.3	0	6.1	-2	1.1	0	0.378	0	2.150	0	5.693	-1	1774	42	1.7
50219.9	10000	41.1064	93.1655	-1106	QK	2.3	0	5.8	-2	1.0	-1	0.401	1	2.233	0	5.571	-1	1735	36	1.7
50220.0	10000	41.1071	93.1655	-1109	QK	2.0	-1	5.6	-2	1.0	-1	0.364	0	2.074	0	5.694	-1	1695	44	1.7
50220.1	10000	41.1077	93.1655	-1111	QK	1.7	-2	5.7	-2	0.9	-2	0.297	-1	1.838	-1	6.190	0	1649	29	1.7
50220.2	10000	41.1084	93.1654	-1113	QK	1.6	-2	6.1	-1	0.9	-2	0.263	-1	1.874	-1	7.115	1	1625	48	1.7
50220.3	10000	41.1090	93.1654	-1116	QK	1.6	-2	6.0	-2	0.8	-2	0.264	-1	1.917	-1	7.253	1	1597	39	1.7
50220.4	10000	41.1096	93.1654	-1118	QK	1.4	-2	6.6	-1	0.8	-2	0.220	-2	1.711	-1	7.780	2	1596	42	1.7
50220.5	10000	41.1103	93.1653	-1120	QK	1.6	-2	6.5	-1	0.8	-2	0.252	-1	1.943	-1	7.713	2	1579	49	1.7
50220.6	10000	41.1109	93.1653	-1122	QK	1.6	-2	6.3	-1	0.8	-3	0.255	-1	1.955	-1	7.662	2	1562	40	1.7
50220.7	10000	41.1116	93.1653	-1123	QK	1.9	-1	6.1	-2	0.8	-3	0.307	-1	2.354	0	7.677	2	1549	41	1.7
50220.8	10000	41.1122	93.1652	-1124	QK	1.8	-1	5.7	-2	0.8	-3	0.322	0	2.426	0	7.534	1	1537	40	1.7
50220.9	10000	41.1128	93.1652	-1126	QK	1.8	-2	5.3	-3	0.8	-3	0.339	0	2.342	0	6.920	1	1538	42	1.7
50221.0	10000	41.1135	93.1652	-1128	QK	1.8	-1	5.7	-2	0.8	-3	0.325	0	2.302	0	7.086	1	1557	47	1.7
50221.1	10000	41.1141	93.1652	-1129	QK	1.9	-1	5.4	-3	0.8	-3	0.346	0	2.343	0	6.771	0	1558	46	1.7
50221.2	10000	41.1148	93.1652	-1130	QK	1.5	-2	5.8	-2	0.8	-3	0.259	-1	1.857	-1	7.162	1	1564	42	1.7
50221.3	10000	41.1154	93.1651	-1131	QK	1.3	-2	6.5	-1	0.8	-3	0.203	-2	1.635	-1	8.053	2	1573	44	1.7
50221.4	10000	41.1160	93.1651	-1132	QK	1.0	-3	7.0	0	0.9	-2	0.146	-3	1.186	-2	8.113	2	1604	48	1.7
50221.5	10000	41.1167	93.1651	-1132	QK	1.2	-3	7.2	0	1.0	-1	0.170	-3	1.283	-2	7.534	1	1634	43	1.7
50221.6	10000	41.1173	93.1651	-1132	QK	1.2	-3	7.2	0	1.0	-1	0.169	-3	1.260	-2	7.444	1	1648	43	1.7
50221.7	10000	41.1179	93.1651	-1133	QK	1.4	-2	6.9	0	0.9	-2	0.208	-2	1.521	-2	7.321	1	1649	48	1.7
50221.8	10000	41.1186	93.1651	-1133	QK	1.7	-2	6.9	0	0.9	-2	0.245	-1	1.841	-1	7.513	1	1660	41	1.7
50221.9	10000	41.1192	93.1651	-1133	QK	1.7	-2	6.5	-1	0.9	-2	0.265	-1	1.953	-1	7.365	1	1661	30	1.7
50222.0	10000	41.1198	93.1651	-1133	QK	2.0	-1	6.1	-2	0.9	-2	0.325	0	2.204	0	6.772	0	1668	40	1.7
50222.1	10000	41.1205	93.1651	-1134	QK	2.3	0	5.6	-2	0.9	-2	0.416	1	2.755	0	6.615	0	1661	45	1.7
50222.2	10000	41.1211	93.1651	-1135	QK	2.3	0	5.7	-2	0.8	-3	0.412	1	2.921	1	7.081	1	1660	50	1.7
50222.3	10000	41.1217	93.1651	-1135	QK	2.5	0	6.0	-2	0.8	-3	0.411	1	3.055	2	7.441	1	1676	48	1.7
50222.4	10000	41.1224	93.1651	-1136	QK	2.4	0	5.8	-2	0.8	-3	0.409	1	2.969	1	7.255	1	1699	47	1.7
50222.5	10000	41.1230	93.1650	-1136	QK	2.5	0	5.8	-2	0.9	-2	0.437	1	2.853	1	6.525	0	1732	56	1.7
50222.6	10000	41.1236	93.1650	-1137	QK	2.6	0	6.1	-2	0.9	-2	0.424	1	2.767	1	6.527	0	1769	44	1.7
50222.7	10000	41.1243	93.1650	-1137	QK	2.5	0	6.3	-1	1.0	-1	0.388	1	2.425	0	6.249	0	1778	46	1.7
50222.8	10000	41.1249	93.1650	-1137	QK	2.3	-1	6.3	-1	1.1	0	0.358	0	2.127	0	5.936	-1	1781	43	1.7
50222.9	10000	41.1255	93.1650	-1138	QK	2.5	0	6.3	-1	1.1	0	0.400	1	2.310	0	5.780	-1	1777	34	1.7
50223.0	10000	41.1262	93.1650	-1139	QK	2.3	0	6.2	-1	1.1	0	0.369	0	2.160	0	5.859	-1	1756	40	1.7
50223.1	10000	41.1268	93.1650	-1140	QK	2.3	0	6.3	-1	1.1	0	0.369	0	2.154	0	5.841	-1	1731	43	1.7
50223.2	10000	41.1275	93.1650	-1141	QK	2.0	-1	6.5	-1	1.0	-1	0.305	-1	1.942	-1	6.365	0	1691	37	1.7
50223.3	10000	41.1281	93.1650	-1142	QK	2.1	-1	6.2	-1	1.0	-1	0.340	0	2.065	0	6.077	-1	1657	40	1.7
50223.4	10000	41.1287	93.1650	-1143	QK	2.0	-1	6.0	-2	0.9	-2	0.344	0	2.182	0	6.350	0	1642	46	1.7
50223.5	10000	41.1294	93.1649	-1144	QK	2.0	-1	6.3	-1	0.9	-2	0.317	0	2.171	0	6.838	1	1632	43	1.7
50223.6	10000	41.1300	93.1649	-1145	QK	1.7	-2	6.1	-2	0.9	-2	0.286	-1	1.955	-1	6.832	0	1617	27	1.7
50223.7	10000	41.1306	93.1649	-1146	QK	2.0	-1	6.1	-2	0.9	-2	0.321	0	2.197	0	6.838	1	1605	56	1.7
50223.8	10000	41.1313	93.1649	-1147	QK	1.8	-1	6.0	-2	0.9	-2	0.301	-1	2.037	0	6.761	0	1599	52	1.7
50223.9	10000	41.1319	93.1649	-1148	QK	1.9	-1	6.0	-2	0.9	-2	0.318	0	2.204	0	6.940	1	1572	37	1.7
50224.0	10000	41.1325	93.1649	-1149	QK	1.7	-2	6.6	-1	0.8	-2	0.252	-1	1.967	-1	7.798	2	1583	43	1.7
50224.1	10000	41.1332	93.1649	-1150	QK	1.7	-2	6.9	0	0.9	-2	0.243	-1	1.956	-1	8.058	2	1611	39	1.7
50224.2	10000	41.1338	93.1649	-1151	QK	1.7	-2	6.9	0	0.8	-2	0.240	-2	1.969	-1	8.205	2	1632	51	1.7
50224.3	10000	41.1344	93.1649	-1152	QK	1.7	-2	7.5	0	0.9	-2	0.231	-2	1.909	-1	8.252	3	1684	38	1.7
50224.4	10000	41.1351	93.1649	-1154	QK	1.9	-1	7.5	0	0.9	-2	0.248	-1	1.987	-1	8.001	2	1735	32	1.7
50224.5	10000	41.1357	93.1649	-1156	QK	2.0	-1	7.4	0	0.9	-1	0.274	-1	2.154	0	7.870	2	1766	42	1.7
50224.6	10000	41.1364	93.1649	-1158	QK	2.1	-1	7.5	0	1.0	-1	0.282	-1	2.141	0	7.597	2	1812	37	1.7
50224.7	10000	41.1370	93.1649	-1160	QK	2.3	0	7.4	0	1.0	-1	0.312	-1	2.368	0	7.581	2	1820	44	1.7

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50224.8	10000	41.1376	93.1648	-1162	QK	2.5	0	7.4	0	1.0	-1	0.332	0	2.495	0	7.506	1	1820	41	1.7
50224.9	10000	41.1383	93.1648	-1165	QK	2.5	0	7.4	0	1.0	-1	0.344	0	2.610	1	7.587	2	1820	36	1.7
50225.0	10000	41.1389	93.1648	-1167	QK	2.5	0	7.6	0	0.9	-2	0.330	0	2.704	1	8.206	2	1802	45	1.7
50225.1	10000	41.1395	93.1648	-1168	QK	2.3	0	7.6	0	0.9	-2	0.305	-1	2.460	0	8.058	2	1790	46	1.7
50225.2	10000	41.1402	93.1648	-1169	QK	2.3	-1	7.7	1	1.0	-1	0.296	-1	2.338	0	7.902	2	1797	35	1.7
50225.3	10000	41.1408	93.1648	-1168	QK	2.3	-1	7.7	1	1.0	-1	0.292	-1	2.226	0	7.609	2	1813	43	1.7
50225.4	10000	41.1414	93.1648	-1171	QK	2.2	-1	7.6	0	1.0	-1	0.285	-1	2.076	0	7.291	1	1818	33	1.7
50225.5	10000	41.1421	93.1648	-1176	QK	2.1	-1	7.7	1	1.0	-1	0.269	-1	1.972	-1	7.333	1	1822	57	1.7
50225.6	10000	41.1427	93.1648	-1178	QK	2.0	-1	7.5	0	1.1	0	0.270	-1	1.850	-1	6.854	1	1836	52	1.7
50225.7	10000	41.1433	93.1648	-1179	QK	2.2	-1	7.1	0	1.1	0	0.305	-1	1.943	-1	6.360	0	1847	42	1.7
50225.8	10000	41.1440	93.1647	-1180	QK	2.1	-1	7.5	0	1.1	0	0.285	-1	1.871	-1	6.559	0	1859	33	1.7
50225.9	10000	41.1446	93.1647	-1182	QK	2.1	-1	7.5	0	1.2	0	0.277	-1	1.800	-1	6.490	0	1864	44	1.7
50226.0	10000	41.1452	93.1647	-1184	QK	2.2	-1	7.6	1	1.2	0	0.291	-1	1.917	-1	6.578	0	1867	41	1.7
50226.1	10000	41.1459	93.1647	-1186	QK	2.2	-1	7.6	1	1.2	1	0.291	-1	1.837	-1	6.304	0	1885	40	1.7
50226.2	10000	41.1465	93.1647	-1187	QK	2.2	-1	7.6	1	1.2	1	0.289	-1	1.805	-1	6.251	0	1914	48	1.7
50226.3	10000	41.1471	93.1647	-1187	QK	2.3	0	7.8	1	1.2	1	0.295	-1	1.881	-1	6.372	0	1932	38	1.7
50226.4	10000	41.1478	93.1647	-1188	QK	2.4	0	7.8	1	1.3	1	0.307	-1	1.866	-1	6.082	-1	1952	45	1.7
50226.5	10000	41.1484	93.1647	-1188	QK	2.4	0	7.3	0	1.3	1	0.328	0	1.902	-1	5.808	-1	1954	40	1.7
50226.6	10000	41.1491	93.1647	-1189	QK	2.3	-1	7.7	1	1.3	1	0.294	-1	1.800	-1	6.115	-1	1969	37	1.7
50226.7	10000	41.1497	93.1647	-1188	QK	2.0	-1	7.9	1	1.2	1	0.253	-1	1.615	-1	6.378	0	1972	42	1.7
50226.8	10000	41.1503	93.1647	-1188	QK	2.1	-1	7.9	1	1.2	0	0.272	-1	1.826	-1	6.723	0	1959	45	1.7
50226.9	10000	41.1510	93.1647	-1188	QK	2.1	-1	8.1	1	1.2	1	0.263	-1	1.802	-1	6.859	1	1948	45	1.7
50227.0	10000	41.1516	93.1646	-1187	QK	1.9	-1	8.0	1	1.2	1	0.236	-2	1.577	-1	6.683	0	1926	48	1.7
50227.1	10000	41.1522	93.1646	-1187	QK	1.7	-2	8.0	1	1.2	1	0.211	-2	1.435	-2	6.795	0	1914	33	1.7
50227.2	10000	41.1529	93.1646	-1186	QK	1.8	-2	8.2	1	1.2	1	0.215	-2	1.525	-2	7.086	1	1901	47	1.7
50227.3	10000	41.1535	93.1646	-1185	QK	1.9	-1	7.8	1	1.2	0	0.247	-1	1.649	-1	6.677	0	1877	44	1.7
50227.4	10000	41.1541	93.1646	-1185	QK	2.0	-1	7.3	0	1.2	0	0.270	-1	1.683	-1	6.227	0	1872	38	1.7
50227.5	10000	41.1548	93.1646	-1184	QK	2.0	-1	7.5	0	1.2	1	0.272	-1	1.662	-1	6.121	-1	1887	44	1.7
50227.6	10000	41.1554	93.1646	-1184	QK	1.9	-1	7.4	0	1.2	1	0.262	-1	1.584	-1	6.051	-1	1885	31	1.7
50227.7	10000	41.1560	93.1646	-1184	QK	2.4	-1	7.7	1	1.2	1	0.308	-1	1.955	-1	6.355	0	1908	41	1.7
50227.8	10000	41.1567	93.1646	-1183	QK	2.5	0	8.0	1	1.2	1	0.311	-1	2.065	0	6.639	0	1930	51	1.7
50227.9	10000	41.1573	93.1646	-1184	QK	2.5	0	8.0	1	1.2	1	0.317	-1	2.069	0	6.528	0	1942	48	1.7
50228.0	10000	41.1579	93.1646	-1184	QK	2.6	0	8.5	1	1.2	1	0.307	-1	2.189	0	7.122	1	1962	50	1.7
50228.1	10000	41.1586	93.1646	-1185	QK	2.8	0	8.5	1	1.2	1	0.329	0	2.416	0	7.342	1	1977	43	1.7
50228.2	10000	41.1592	93.1645	-1186	QK	2.7	0	8.3	1	1.2	1	0.328	0	2.459	0	7.509	1	1991	34	1.7
50228.3	10000	41.1599	93.1645	-1187	QK	2.6	0	8.3	1	1.1	1	0.314	0	2.327	0	7.414	1	2003	47	1.7
50228.4	10000	41.1605	93.1645	-1189	QK	2.4	0	8.4	1	1.1	1	0.292	0	2.226	0	7.633	2	2012	43	1.7
50228.5	10000	41.1611	93.1645	-1192	QK	2.4	0	7.9	1	1.1	1	0.298	0	2.215	0	7.430	1	1987	47	1.7
50228.6	10000	41.1618	93.1645	-1194	QK	2.3	0	7.8	1	1.1	1	0.302	0	2.219	0	7.356	1	1986	48	1.6
50228.7	10000	41.1624	93.1645	-1197	QK	2.1	0	7.5	0	1.1	1	0.312	0	2.139	0	6.864	1	1990	26	1.6
50228.8	10000	41.1630	93.1645	-1199	QK	2.1	-1	7.7	1	1.1	1	0.277	-1	1.875	-1	6.773	0	1983	54	1.6
50228.9	10000	41.1637	93.1645	-1203	QK	2.1	-1	8.2	1	1.2	1	0.255	-1	1.768	-1	6.935	1	1970	31	1.6
50229.0	10000	41.1643	93.1645	-1206	QK	2.6	-1	8.8	1	1.2	1	0.295	-1	2.241	-1	6.835	0	1961	40	1.6
50229.1	10000	41.1649	93.1645	-1204	QK	2.5	-1	8.3	1	1.2	1	0.301	-1	2.170	-1	6.344	0	1932	40	1.6
50229.2	10000	41.1656	93.1645	-1213	QK	2.4	-1	8.2	1	1.2	1	0.293	-1	2.079	-1	6.151	0	1947	33	1.6
50229.3	10000	41.1662	93.1644	-1216	QK	2.5	-1	8.3	1	1.2	1	0.301	-1	2.149	-1	6.477	0	1938	40	1.6
50229.4	10000	41.1668	93.1644	-1220	QK	2.4	-1	8.3	1	1.2	1	0.288	-1	2.102	-1	6.680	0	1920	52	1.6
50229.5	10000	41.1675	93.1644	-1224	QK	2.4	-1	8.3	1	1.2	1	0.288	-1	2.102	-1	6.947	1	1901	41	1.6
50229.6	10000	41.1681	93.1644	-1228	QK	2.4	-1	8.3	1	1.2	1	0.288	-1	2.220	-1	6.483	0	1893	51	1.6
50229.7	10000	41.1687	93.1644	-1232	QK	2.1	-1	7.6	1	1.1	0	0.289	-1	1.944	-1	6.716	0	1884	41	1.6
50229.8	10000	41.1694	93.1644	-1236	QK	2.3	-1	7.3	1	1.1	0	0.316	-1	2.173	-1	6.867	1	1902	49	1.6
50229.9	10000	41.1700	93.1644	-1240	QK	2.6	0	7.4	0	1.0	-1	0.351	0	2.561	1	7.299	1	1894	50	1.6

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50230.0	10000	41.1707	93.1644	-1244	QK	2.6	0	7.2	0	1.0	-1	0.367	0	2.693	1	7.330	1	1887	44	1.6
50230.1	10000	41.1713	93.1644	-1247	QK	2.7	0	7.4	0	0.9	-2	0.362	0	2.874	1	7.939	2	1891	47	1.6
50230.2	10000	41.1719	93.1644	-1250	QK	2.8	1	7.3	0	0.9	-2	0.385	0	2.985	2	7.747	2	1899	40	1.6
50230.3	10000	41.1726	93.1644	-1255	QK	2.8	1	7.6	0	1.0	-1	0.374	0	2.841	1	7.594	2	1906	58	1.6
50230.4	10000	41.1732	93.1644	-1255	QK	2.9	1	7.7	0	1.0	-1	0.378	0	2.857	1	7.565	2	1899	42	1.6
50230.5	10000	41.1738	93.1643	-1257	QK	2.8	0	7.5	0	1.0	-1	0.369	0	2.653	1	7.193	1	1896	38	1.6
50230.6	10000	41.1745	93.1643	-1260	QK	2.5	0	7.9	1	1.1	0	0.319	0	2.312	0	7.247	1	1902	38	1.6
50230.7	10000	41.1751	93.1643	-1265	QK	2.3	-1	8.2	1	1.1	0	0.276	-1	2.023	-1	7.337	1	1931	33	1.6
50230.8	10000	41.1757	93.1643	-1268	QK	2.3	0	8.3	1	1.2	0	0.281	-1	2.001	-1	7.120	1	1929	43	1.6
50230.9	10000	41.1764	93.1643	-1270	QK	2.3	0	8.5	2	1.2	1	0.269	-1	1.926	-1	7.161	1	1927	47	1.6
50231.0	10000	41.1770	93.1643	-1272	QK	2.1	-1	8.5	2	1.2	1	0.251	-1	1.798	-1	7.167	1	1934	52	1.6
50231.1	10000	41.1776	93.1643	-1273	QK	2.2	-1	8.0	1	1.2	0	0.276	-1	1.874	-1	6.790	0	1917	33	1.6
50231.2	10000	41.1783	93.1643	-1274	QK	2.1	-1	7.9	1	1.1	0	0.261	-1	1.797	-1	6.881	1	1902	50	1.6
50231.3	10000	41.1789	93.1643	-1275	QK	1.9	-1	7.2	0	1.1	0	0.267	-1	1.760	-1	6.597	0	1876	50	1.6
50231.4	10000	41.1795	93.1643	-1275	QK	2.2	-1	6.9	0	1.1	0	0.310	-1	1.963	-1	6.324	0	1848	37	1.6
50231.5	10000	41.1802	93.1642	-1276	QK	2.1	-1	6.5	-1	1.1	0	0.327	0	1.974	-1	6.031	-1	1821	41	1.6
50231.6	10000	41.1808	93.1642	-1276	QK	2.2	-1	6.2	-1	1.0	-1	0.359	0	2.173	0	6.051	-1	1811	36	1.6
50231.7	10000	41.1814	93.1642	-1277	QK	2.4	0	6.2	-1	0.9	-2	0.386	0	2.588	1	6.704	0	1782	36	1.6
50231.8	10000	41.1821	93.1642	-1277	QK	2.4	0	6.8	-1	0.9	-2	0.353	0	2.561	1	7.248	1	1792	29	1.6
50231.9	10000	41.1827	93.1642	-1276	QK	2.4	0	7.0	0	0.9	-2	0.335	0	2.532	1	7.563	2	1782	32	1.6
50232.0	10000	41.1834	93.1642	-1276	QK	2.4	0	7.1	0	1.0	-1	0.342	0	2.524	1	7.376	1	1778	38	1.6
50232.1	10000	41.1840	93.1642	-1276	QK	2.3	0	7.3	0	1.0	-1	0.317	0	2.363	0	7.465	1	1778	50	1.6
50232.2	10000	41.1846	93.1642	-1276	QK	2.1	-1	7.7	1	1.0	-1	0.274	-1	2.155	0	7.876	2	1787	31	1.6
50232.3	10000	41.1853	93.1642	-1276	QK	2.2	-1	7.7	1	1.0	-1	0.280	-1	2.216	0	7.904	2	1796	39	1.6
50232.4	10000	41.1859	93.1642	-1275	QK	2.0	-1	7.5	1	1.0	-1	0.267	-1	1.920	-1	7.189	1	1813	46	1.6
50232.5	10000	41.1865	93.1642	-1273	QK	1.7	-2	7.4	0	1.0	-1	0.235	-2	1.672	-1	7.126	1	1840	45	1.6
50232.6	10000	41.1872	93.1642	-1273	QK	1.9	-1	7.5	0	1.1	0	0.250	-1	1.721	-1	6.896	1	1853	56	1.6
50232.7	10000	41.1878	93.1642	-1271	QK	1.9	-1	7.6	0	1.1	0	0.254	-1	1.781	-1	7.021	1	1862	48	1.6
50232.8	10000	41.1884	93.1641	-1270	QK	2.0	-1	7.3	0	1.1	0	0.268	-1	1.816	-1	6.768	0	1869	50	1.6
50232.9	10000	41.1891	93.1641	-1269	QK	2.3	-1	7.3	0	1.1	0	0.311	-1	2.009	-1	6.467	0	1898	52	1.6
50233.0	10000	41.1897	93.1641	-1268	QK	2.1	-1	7.2	0	1.2	1	0.287	-1	1.759	-1	6.120	-1	1932	44	1.6
50233.1	10000	41.1903	93.1641	-1267	QK	2.3	-1	7.2	0	1.2	0	0.315	-1	1.948	-1	6.191	0	1948	45	1.6
50233.2	10000	41.1910	93.1641	-1266	QK	2.5	0	7.4	0	1.2	0	0.345	0	2.188	0	6.343	0	1958	40	1.6
50233.3	10000	41.1916	93.1641	-1265	QK	2.4	0	7.2	0	1.2	0	0.336	0	2.111	0	6.287	0	1973	45	1.6
50233.4	10000	41.1923	93.1641	-1264	QK	2.6	0	7.1	0	1.2	0	0.369	0	2.239	0	6.066	-1	1978	45	1.6
50233.5	10000	41.1929	93.1641	-1263	QK	2.3	0	7.1	0	1.1	0	0.326	0	2.024	-1	6.211	0	1977	34	1.6
50233.6	10000	41.1935	93.1641	-1262	QK	2.2	-1	7.0	0	1.1	0	0.313	-1	1.911	-1	6.113	-1	1977	50	1.6
50233.7	10000	41.1941	93.1641	-1260	QK	2.4	0	7.5	0	1.1	0	0.321	0	2.118	0	6.592	0	1953	40	1.6
50233.8	10000	41.1948	93.1640	-1258	QK	2.2	-1	7.6	1	1.2	0	0.292	-1	1.924	-1	6.582	0	1934	43	1.6
50233.9	10000	41.1954	93.1640	-1257	QK	2.1	-1	7.2	0	1.2	0	0.290	-1	1.759	-1	6.067	-1	1906	48	1.6
50234.0	10000	41.1961	93.1640	-1256	QK	2.5	0	7.2	0	1.2	0	0.344	0	2.117	0	6.149	0	1903	48	1.6
50234.1	10000	41.1967	93.1640	-1255	QK	2.2	-1	7.5	1	1.2	0	0.290	-1	1.875	-1	6.465	0	1902	45	1.6
50234.2	10000	41.1973	93.1640	-1253	QK	2.5	0	7.5	1	1.1	0	0.339	0	2.210	0	6.526	0	1899	36	1.6
50234.3	10000	41.1980	93.1640	-1252	QK	2.5	0	7.4	1	1.1	0	0.341	0	2.278	0	6.675	0	1884	46	1.6
50234.4	10000	41.1986	93.1640	-1249	QK	2.7	0	7.2	1	1.1	0	0.374	0	2.368	0	6.332	0	1887	44	1.6
50234.5	10000	41.1992	93.1640	-1248	QK	2.7	0	7.1	1	1.1	0	0.378	0	2.414	0	6.381	0	1897	51	1.6
50234.6	10000	41.1999	93.1640	-1246	QK	2.5	0	7.5	1	1.1	0	0.337	0	2.303	0	6.827	0	1920	30	1.6
50234.7	10000	41.2005	93.1640	-1244	QK	2.2	-1	7.7	1	1.1	0	0.286	-1	1.976	-1	6.901	1	1923	34	1.6
50234.8	10000	41.2011	93.1640	-1242	QK	2.3	-1	7.9	1	1.1	0	0.287	-1	2.069	0	7.199	1	1914	46	1.6
50234.9	10000	41.2018	93.1640	-1241	QK	2.2	-1	8.0	1	1.1	0	0.273	-1	1.935	-1	7.091	1	1909	46	1.6
50235.0	10000	41.2024	93.1639	-1239	QK	2.0	-1	8.1	1	1.1	0	0.245	-1	1.759	-1	7.174	1	1917	41	1.6
50235.1	10000	41.2030	93.1639	-1237	QK	1.5	-2	8.1	1	1.1	0	0.182	-2	1.329	-2	7.282	1	1892	37	1.6

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50235.2	10000	41.2037	93.1639	-1235	QK	1.5	-2	8.0	1	1.1	0	0.187	-2	1.331	-2	7.126	1	1882	42	1.6
50235.3	10000	41.2043	93.1639	-1232	QK	1.7	-2	7.6	0	1.1	0	0.218	-2	1.541	-2	7.076	1	1858	44	1.6
50235.4	10000	41.2050	93.1639	-1230	QK	1.7	-2	7.6	1	1.1	0	0.225	-2	1.613	-1	7.167	1	1858	44	1.6
50235.5	10000	41.2056	93.1639	-1226	QK	2.0	-1	7.0	0	1.1	0	0.290	-1	1.880	-1	6.482	0	1879	32	1.6
50235.6	10000	41.2062	93.1639	-1224	QK	2.1	-1	6.7	-1	1.1	0	0.316	0	1.960	-1	6.206	0	1882	50	1.6
50235.7	10000	41.2069	93.1639	-1223	QK	2.6	0	6.6	-1	1.0	-1	0.389	1	2.512	1	6.457	0	1870	50	1.6
50235.8	10000	41.2075	93.1639	-1223	QK	2.9	1	6.5	-1	1.0	-1	0.445	1	2.918	1	6.555	0	1893	39	1.6
50235.9	10000	41.2081	93.1639	-1221	QK	2.9	1	6.9	0	1.0	-1	0.419	1	2.971	1	7.095	1	1908	41	1.6
50236.0	10000	41.2088	93.1639	-1220	QK	3.0	1	6.7	-1	1.0	-1	0.449	1	3.105	2	6.919	1	1903	49	1.6
50236.1	10000	41.2094	93.1638	-1218	QK	3.1	1	6.5	-1	0.9	-2	0.480	2	3.341	2	6.964	1	1881	53	1.6
50236.2	10000	41.2100	93.1638	-1215	QK	3.0	1	6.4	-1	0.9	-2	0.460	2	3.242	3	7.052	1	1868	32	1.6
50236.3	10000	41.2107	93.1638	-1213	QK	3.1	1	6.5	-1	0.9	-2	0.473	2	3.545	3	7.491	1	1872	44	1.6
50236.4	10000	41.2113	93.1638	-1211	QK	3.0	1	6.2	-1	0.9	-2	0.479	2	3.386	2	7.065	1	1886	49	1.6
50236.5	10000	41.2119	93.1638	-1210	QK	3.0	1	6.2	-1	0.9	-2	0.486	2	3.442	3	7.088	1	1882	40	1.7
50236.6	10000	41.2126	93.1638	-1209	QK	3.2	1	5.8	-2	0.9	-2	0.552	3	3.651	3	6.614	0	1890	46	1.7
50236.7	10000	41.2132	93.1638	-1209	QK	3.1	1	6.5	-1	1.0	-1	0.485	2	3.247	2	6.697	0	1919	37	1.7
50236.8	10000	41.2138	93.1638	-1208	QK	3.2	1	6.4	-1	1.1	-1	0.508	2	3.069	2	6.044	-1	1942	41	1.7
50236.9	10000	41.2145	93.1638	-1208	QK	3.5	2	6.6	-1	1.0	-1	0.532	3	3.393	2	6.374	0	1946	52	1.7
50237.0	10000	41.2151	93.1638	-1208	QK	3.4	2	7.2	0	1.0	-1	0.468	2	3.284	2	7.017	1	1941	34	1.7
50237.1	10000	41.2158	93.1638	-1208	QK	3.2	1	7.1	0	1.1	-1	0.453	1	3.057	2	6.743	0	1943	39	1.7
50237.2	10000	41.2164	93.1638	-1208	QK	3.3	2	7.2	0	1.1	0	0.466	2	3.041	2	6.531	0	1956	50	1.7
50237.3	10000	41.2170	93.1637	-1208	QK	3.1	1	7.4	0	1.1	0	0.427	1	2.873	1	6.731	0	1938	44	1.7
50237.4	10000	41.2177	93.1637	-1208	QK	3.1	1	7.2	0	1.1	0	0.432	1	2.836	1	6.558	0	1942	46	1.7
50237.5	10000	41.2183	93.1637	-1208	QK	2.8	1	7.5	0	1.1	0	0.372	0	2.590	1	6.967	1	1946	44	1.7
50237.6	10000	41.2189	93.1637	-1209	QK	2.3	1	7.7	0	1.1	0	0.301	-1	2.079	0	6.906	1	1956	46	1.7
50237.7	10000	41.2196	93.1637	-1208	QK	2.6	0	7.4	0	1.1	0	0.348	0	2.357	0	6.777	0	1972	57	1.7
50237.8	10000	41.2202	93.1637	-1208	QK	2.8	1	7.9	1	1.1	0	0.355	0	2.550	1	7.173	1	1986	49	1.7
50237.9	10000	41.2208	93.1637	-1208	QK	2.5	1	8.0	1	1.1	0	0.310	-1	2.264	0	7.305	1	1983	40	1.7
50238.0	10000	41.2215	93.1638	-1208	QK	2.5	1	7.6	0	1.1	0	0.329	0	2.226	0	6.762	0	1988	56	1.7
50238.1	10000	41.2221	93.1638	-1208	QK	2.4	1	7.5	0	1.1	0	0.323	0	2.233	0	6.918	1	1983	40	1.7
50238.2	10000	41.2227	93.1638	-1207	QK	2.7	1	7.8	0	1.1	0	0.346	0	2.428	1	7.015	1	1989	44	1.7
50238.3	10000	41.2233	93.1638	-1206	QK	2.6	2	7.9	1	1.2	0	0.328	0	2.256	1	6.881	1	1990	43	1.7
50238.4	10000	41.2239	93.1639	-1207	QK	2.2	2	8.0	1	1.2	0	0.274	-1	1.827	-1	6.662	0	2001	54	1.7
50238.5	10000	41.2246	93.1639	-1206	QK	1.8	2	7.8	1	1.2	0	0.229	-2	1.504	-2	6.573	0	2002	35	1.7
50238.6	10000	41.2252	93.1639	-1205	QK	2.0	1	7.8	1	1.3	0	0.249	-1	1.556	-1	6.250	0	2010	35	1.7
50238.7	10000	41.2258	93.1640	-1205	QK	2.1	1	7.9	1	1.2	0	0.261	-1	1.657	-1	6.339	0	2010	35	1.7
50238.8	10000	41.2265	93.1640	-1203	QK	2.0	1	8.0	1	1.2	0	0.264	-1	1.687	-1	6.395	0	2008	42	1.7
50238.9	10000	41.2271	93.1640	-1200	QK	2.1	1	7.9	1	1.2	0	0.247	-1	1.641	-1	6.637	0	2001	31	1.7
50239.0	10000	41.2277	93.1641	-1202	QK	2.0	1	8.0	1	1.1	0	0.270	-1	1.903	-1	7.052	1	2017	39	1.7
50239.1	10000	41.2283	93.1641	-1202	QK	2.4	1	8.0	1	1.1	0	0.304	-1	2.165	0	7.130	1	2016	37	1.7
50239.2	10000	41.2290	93.1641	-1202	QK	2.4	1	8.0	1	1.1	0	0.315	-1	2.250	0	7.144	1	1994	45	1.7
50239.3	10000	41.2296	93.1641	-1202	QK	2.3	1	7.8	1	1.0	0	0.297	-1	2.206	0	7.422	1	1977	48	1.7
50239.4	10000	41.2302	93.1642	-1200	QK	2.2	1	8.1	1	1.0	0	0.276	-1	2.162	0	7.842	2	1971	47	1.7
50239.5	10000	41.2308	93.1642	-1199	QK	2.2	1	8.4	1	1.0	0	0.267	-1	2.115	0	7.935	2	1967	50	1.7
50239.6	10000	41.2314	93.1642	-1198	QK	2.4	2	8.2	1	1.0	0	0.288	-1	2.281	0	7.922	2	1956	45	1.7
50239.7	10000	41.2321	93.1643	-1195	QK	2.5	2	7.8	1	1.1	0	0.320	0	2.373	1	7.425	1	1934	41	1.7
50239.8	10000	41.2327	93.1643	-1194	QK	2.3	1	7.7	1	1.1	0	0.298	-1	2.125	0	7.129	1	1936	37	1.7
50239.9	10000	41.2333	93.1643	-1194	QK	2.4	1	7.8	1	1.1	0	0.305	-1	2.173	0	7.121	1	1940	44	1.7
50240.0	10000	41.2340	93.1644	-1192	QK	2.3	1	8.0	1	1.1	0	0.289	-1	2.141	0	7.407	1	1933	47	1.7
50240.1	10000	41.2346	93.1644	-1189	QK	2.3	1	7.9	1	1.1	0	0.290	-1	2.039	0	7.022	1	1948	37	1.7
50240.2	10000	41.2352	93.1644	-1187	QK	2.2	1	7.9	1	1.1	0	0.287	-1	2.071	0	7.218	1	1952	39	1.7
50240.3	10000	41.2358	93.1644	-1191	QK	2.2	-1	7.8	1	1.1	0	0.287	-1	1.946	-1	6.785	0	1967	42	1.7

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50240.4	10000	41.2365	93.1645	-1190	QK	2.0	-1	8.2	1	1.1	0	0.238	-2	1.706	-1	7.167	1	1963	58	1.7
50240.5	10000	41.2371	93.1645	-1188	QK	2.0	-1	8.2	1	1.1	0	0.248	-1	1.813	-1	7.307	1	1954	30	1.7
50240.6	10000	41.2377	93.1645	-1186	QK	2.0	-1	8.0	1	1.1	0	0.249	-1	1.791	-1	7.197	1	1957	34	1.7
50240.7	10000	41.2383	93.1646	-1184	QK	2.4	0	7.8	1	1.1	0	0.304	-1	2.133	0	7.018	1	1977	46	1.7
50240.8	10000	41.2390	93.1646	-1182	QK	2.5	0	8.0	1	1.1	-1	0.309	-1	2.348	0	7.605	2	1969	46	1.7
50240.9	10000	41.2396	93.1646	-1180	QK	2.7	0	7.7	1	1.0	-1	0.354	0	2.611	1	7.370	1	1984	40	1.7
50241.0	10000	41.2402	93.1646	-1179	QK	2.8	1	7.7	1	1.0	-1	0.368	0	2.808	1	7.632	2	1979	44	1.7
50241.1	10000	41.2408	93.1647	-1177	QK	2.8	1	7.7	1	1.0	-1	0.369	0	2.963	1	8.031	2	1970	48	1.7
50241.2	10000	41.2415	93.1647	-1176	QK	2.8	1	7.7	1	0.9	-2	0.363	0	2.984	2	8.226	2	1947	50	1.7
50241.3	10000	41.2421	93.1647	-1174	QK	2.8	1	7.9	1	0.9	-2	0.360	0	3.090	2	8.577	3	1936	42	1.7
50241.4	10000	41.2427	93.1648	-1173	QK	2.5	0	8.2	1	0.9	-2	0.301	-1	2.645	1	8.781	3	1906	43	1.7
50241.5	10000	41.2433	93.1648	-1171	QK	2.4	0	8.0	1	1.0	-1	0.294	-1	2.467	0	8.383	3	1904	38	1.7
50241.6	10000	41.2440	93.1648	-1170	QK	2.2	-1	8.3	2	1.0	-1	0.259	-1	2.195	0	8.458	3	1889	38	1.7
50241.7	10000	41.2446	93.1649	-1168	QK	2.0	-1	8.6	2	1.0	-1	0.237	-2	2.045	0	8.629	3	1890	41	1.7
50241.8	10000	41.2452	93.1649	-1167	QK	2.1	-1	8.3	1	1.0	-1	0.253	-1	1.999	-1	7.908	2	1904	52	1.7
50241.9	10000	41.2458	93.1649	-1166	QK	2.4	0	8.2	1	1.1	0	0.286	-1	2.206	0	7.722	2	1927	42	1.7
50242.0	10000	41.2465	93.1649	-1164	QK	2.3	0	8.3	1	1.1	0	0.283	-1	2.116	0	7.474	1	1937	38	1.7
50242.1	10000	41.2471	93.1650	-1161	QK	2.7	0	8.0	1	1.1	0	0.339	0	2.404	0	7.095	1	1958	42	1.7
50242.2	10000	41.2477	93.1650	-1159	QK	2.5	0	8.1	1	1.1	0	0.315	-1	2.280	0	7.241	1	1952	31	1.7
50242.3	10000	41.2483	93.1650	-1157	QK	2.6	0	7.8	1	1.1	0	0.338	0	2.420	0	7.156	1	1933	48	1.7
50242.4	10000	41.2490	93.1651	-1155	QK	2.9	1	8.0	1	1.1	0	0.357	0	2.555	1	7.151	1	1921	43	1.7
50242.5	10000	41.2496	93.1651	-1153	QK	2.9	1	7.9	1	1.1	-1	0.365	0	2.725	1	7.474	1	1884	46	1.7
50242.6	10000	41.2502	93.1651	-1151	QK	2.8	1	7.8	1	1.1	-1	0.357	0	2.623	1	7.355	1	1858	47	1.7
50242.7	10000	41.2508	93.1652	-1150	QK	2.7	1	7.6	1	1.0	-1	0.356	0	2.691	1	7.564	2	1837	36	1.7
50242.8	10000	41.2515	93.1652	-1148	QK	2.5	0	7.8	1	1.0	-1	0.323	0	2.606	1	8.070	2	1814	40	1.7
50242.9	10000	41.2521	93.1652	-1146	QK	2.8	0	7.5	0	0.9	-1	0.368	0	2.915	1	7.911	2	1819	34	1.7
50243.0	10000	41.2527	93.1652	-1143	QK	2.6	0	7.6	0	1.0	-1	0.346	0	2.618	1	7.575	2	1844	40	1.7
50243.1	10000	41.2533	93.1653	-1141	QK	2.2	-1	7.4	0	1.0	-1	0.300	-1	2.189	1	7.287	2	1845	41	1.7
50243.2	10000	41.2540	93.1653	-1138	QK	2.2	-1	7.3	0	1.0	-1	0.296	-1	2.082	0	7.025	1	1875	44	1.7
50243.3	10000	41.2546	93.1653	-1135	QK	2.3	-1	7.3	0	1.1	-1	0.311	-1	2.119	0	6.804	0	1884	35	1.7
50243.4	10000	41.2552	93.1654	-1130	QK	2.3	-1	7.3	0	1.1	-1	0.317	-1	2.117	0	6.680	0	1891	37	1.7
50243.5	10000	41.2559	93.1654	-1131	QK	2.3	-1	7.2	0	1.1	-1	0.324	-1	2.108	0	6.498	0	1907	41	1.7
50243.6	10000	41.2565	93.1654	-1132	QK	2.1	-1	7.3	0	1.1	-1	0.290	-1	1.893	-1	6.518	0	1909	48	1.7
50243.7	10000	41.2571	93.1655	-1129	QK	2.2	-1	7.2	0	1.1	-1	0.313	-1	2.033	0	6.492	0	1910	40	1.7
50243.8	10000	41.2577	93.1655	-1127	QK	2.5	0	7.1	0	1.1	-1	0.354	0	2.370	1	6.695	0	1911	46	1.7
50243.9	10000	41.2584	93.1655	-1124	QK	2.8	0	7.0	0	1.1	-1	0.402	0	2.649	1	6.590	0	1920	42	1.7
50244.0	10000	41.2590	93.1655	-1121	QK	2.6	0	7.5	0	1.1	-1	0.345	0	2.455	1	7.110	1	1931	32	1.7
50244.1	10000	41.2596	93.1656	-1117	QK	2.6	0	7.5	0	1.1	0	0.341	0	2.387	1	7.007	1	1955	43	1.7
50244.2	10000	41.2602	93.1656	-1116	QK	2.5	0	7.6	0	1.1	0	0.330	0	2.331	1	7.067	1	1963	41	1.7
50244.3	10000	41.2608	93.1656	-1114	QK	2.6	0	7.5	0	1.1	0	0.342	0	2.322	1	6.784	0	1965	41	1.7
50244.4	10000	41.2615	93.1657	-1112	QK	2.7	0	7.7	0	1.1	0	0.352	0	2.488	1	7.061	1	1951	39	1.7
50244.5	10000	41.2621	93.1657	-1110	QK	2.5	0	7.7	0	1.1	0	0.324	0	2.264	1	6.990	1	1940	57	1.7
50244.6	10000	41.2627	93.1657	-1107	QK	2.7	0	7.9	0	1.1	0	0.276	-1	2.026	-1	7.341	1	1930	42	1.7
50244.7	10000	41.2634	93.1658	-1104	QK	2.3	0	7.4	0	1.1	0	0.307	0	2.093	0	6.813	1	1936	33	1.7
50244.8	10000	41.2640	93.1658	-1101	QK	2.3	0	7.7	0	1.1	0	0.305	0	2.107	0	6.907	1	1931	41	1.7
50244.9	10000	41.2646	93.1658	-1099	QK	2.4	0	7.7	0	1.1	0	0.314	0	2.148	0	6.846	1	1922	61	1.7
50245.0	10000	41.2652	93.1658	-1096	QK	2.5	0	7.3	0	1.1	0	0.335	0	2.158	0	6.433	1	1908	68	1.7
50245.1	10000	41.2659	93.1659	-1093	QK	2.2	-1	7.4	0	1.1	0	0.291	-1	1.924	-1	6.612	1	1907	42	1.7
50245.2	10000	41.2665	93.1659	-1090	QK	2.3	0	7.3	0	1.1	0	0.348	0	2.318	0	6.670	1	1916	39	1.7
50245.3	10000	41.2671	93.1659	-1087	QK	2.6	0	7.3	0	1.1	0	0.356	0	2.370	0	6.665	1	1905	31	1.7
50245.4	10000	41.2677	93.1660	-1085	QK	2.9	0	7.5	0	1.1	0	0.383	0	2.643	0	6.900	1	1881	43	1.7
50245.5	10000	41.2684	93.1660	-1082	QK	2.6	0	7.1	0	1.1	-1	0.362	0	2.442	0	6.744	0	1856	47	1.7

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50245.6	10000	41.2690	93.1660	-1079	QK	2.6	0	7.1	0	1.0	-1	0.372	0	2.529	1	6.791	0	1826	53	1.7
50245.7	10000	41.2696	93.1660	-1076	QK	2.5	0	7.3	0	1.0	-1	0.341	0	2.509	1	7.352	1	1814	39	1.7
50245.8	10000	41.2702	93.1661	-1073	QK	2.9	1	7.1	0	1.0	-1	0.405	1	2.926	1	7.230	1	1805	42	1.7
50245.9	10000	41.2709	93.1661	-1069	QK	2.7	0	7.0	0	1.0	-1	0.389	1	2.794	1	7.179	1	1790	45	1.7
50246.0	10000	41.2715	93.1661	-1066	QK	2.4	0	7.0	0	1.0	-1	0.349	0	2.335	0	6.691	0	1787	46	1.7
50246.1	10000	41.2721	93.1662	-1063	QK	2.2	-1	7.0	0	1.0	-1	0.312	-1	2.134	0	6.841	1	1787	37	1.7
50246.2	10000	41.2727	93.1662	-1060	QK	2.2	-1	7.1	0	1.0	-1	0.309	-1	2.135	0	6.902	1	1796	41	1.7
50246.3	10000	41.2734	93.1662	-1056	QK	2.1	-1	7.1	0	1.1	-1	0.303	-1	2.037	0	6.714	0	1825	44	1.7
50246.4	10000	41.2740	93.1663	-1052	QK	2.3	0	7.3	0	1.0	-1	0.318	0	2.362	0	7.421	1	1840	49	1.7
50246.5	10000	41.2746	93.1663	-1048	QK	2.0	-1	7.3	0	1.1	-1	0.279	-1	1.912	-1	6.851	1	1856	52	1.7
50246.6	10000	41.2752	93.1663	-1045	QK	1.7	-2	7.0	0	1.1	0	0.242	-2	1.493	-2	6.179	0	1875	49	1.7
50246.7	10000	41.2759	93.1663	-1041	QK	2.2	-1	7.1	0	1.2	1	0.306	-1	1.831	-1	5.982	-1	1923	35	1.7
50246.8	10000	41.2765	93.1664	-1037	QK	2.1	-1	7.6	1	1.2	1	0.273	-1	1.691	-1	6.185	0	1956	36	1.7
50246.9	10000	41.2771	93.1664	-1034	QK	2.3	0	7.4	0	1.2	1	0.309	-1	1.845	-1	5.969	-1	1972	58	1.7
50247.0	10000	41.2777	93.1664	-1031	QK	2.3	0	7.5	0	1.3	2	0.312	-1	1.784	-1	5.727	-1	1993	49	1.7
50247.1	10000	41.2784	93.1665	-1028	QK	2.1	-1	7.3	0	1.4	3	0.294	-1	1.511	-2	5.147	-2	1994	41	1.7
50247.2	10000	41.2790	93.1665	-1024	QK	2.1	-1	7.2	0	1.4	2	0.290	-1	1.477	-2	5.088	-2	1985	58	1.7
50247.3	10000	41.2796	93.1665	-1021	QK	2.3	0	7.6	1	1.3	2	0.299	-1	1.739	-1	5.815	-1	1974	36	1.7
50247.4	10000	41.2803	93.1665	-1017	QK	2.1	-1	7.7	1	1.3	1	0.269	-1	1.618	-1	6.013	-1	1950	38	1.7
50247.5	10000	41.2809	93.1666	-1014	QK	2.2	-1	7.0	0	1.2	1	0.308	-1	1.754	-1	5.687	-1	1925	40	1.7
50247.6	10000	41.2815	93.1666	-1011	QK	1.9	-1	7.0	0	1.2	1	0.279	-1	1.597	-1	5.725	-1	1909	34	1.8
50247.7	10000	41.2821	93.1666	-1008	QK	1.8	-2	7.0	0	1.2	1	0.254	-1	1.488	-2	5.867	-1	1884	43	1.8
50247.8	10000	41.2827	93.1667	-1005	QK	1.9	-1	7.0	0	1.2	1	0.271	-1	1.628	-1	6.006	-1	1889	45	1.8
50247.9	10000	41.2334	93.1667	-1000	QK	2.0	-1	7.1	0	1.2	1	0.282	-1	1.727	-1	6.134	0	1896	38	1.8
50248.0	10000	41.2840	93.1667	-994	QK	2.0	-1	6.8	-1	1.2	1	0.290	-1	1.629	-1	5.622	-1	1909	61	1.8
50248.1	10000	41.2846	93.1668	-990	QK	2.1	-1	6.8	-1	1.1	1	0.303	-1	1.799	-1	5.944	-1	1926	46	1.8
50248.2	10000	41.2853	93.1668	-987	QK	2.1	-1	7.4	0	1.2	1	0.289	-1	1.793	-1	6.203	0	1966	57	1.8
50248.3	10000	41.2859	93.1668	-983	QK	2.4	0	7.7	1	1.2	1	0.317	0	2.054	0	6.480	0	1999	47	1.8
50248.4	10000	41.2865	93.1669	-980	QK	2.4	0	7.9	1	1.1	0	0.301	-1	2.159	0	7.166	1	2018	43	1.8
50248.5	10000	41.2871	93.1669	-976	QK	2.8	1	8.3	2	1.0	-1	0.335	0	2.659	1	7.948	2	2026	40	1.8
50248.6	10000	41.2878	93.1669	-973	QK	2.9	1	8.2	2	1.1	0	0.353	0	2.891	1	8.187	2	2035	49	1.8
50248.7	10000	41.2884	93.1669	-970	QK	2.8	1	8.3	2	1.1	0	0.331	0	2.788	1	8.414	2	2049	43	1.8
50248.8	10000	41.2890	93.1670	-966	QK	2.7	1	8.0	2	1.1	0	0.324	0	2.500	1	7.722	2	2053	44	1.8
50248.9	10000	41.2896	93.1670	-961	QK	2.5	0	7.8	1	1.1	0	0.301	-1	2.256	0	7.499	2	2026	51	1.8
50249.0	10000	41.2903	93.1670	-956	QK	2.2	0	7.5	1	1.1	0	0.260	-1	2.057	0	7.908	2	1995	55	1.8
50249.1	10000	41.2909	93.1671	-950	QK	2.4	1	7.4	1	1.1	0	0.289	-1	2.104	0	7.271	2	2002	45	1.8
50249.2	10000	41.2915	93.1671	-944	QK	2.1	0	7.2	1	1.1	0	0.259	-1	1.708	-1	6.586	2	2025	32	1.8
50249.3	10000	41.2921	93.1671	-937	QK	2.0	-1	7.0	1	1.1	0	0.228	-2	1.499	-2	6.569	2	2043	44	1.8
50249.4	10000	41.2928	93.1671	-930	QK	1.9	-1	7.0	1	1.1	0	0.218	-2	1.408	-2	6.446	2	2059	45	1.8
50249.5	10000	41.2934	93.1672	-921	QK	1.9	-1	7.1	1	1.1	0	0.216	-2	1.425	-2	6.612	2	2053	42	1.8
50249.6	10000	41.2940	93.1672	-913	QAL	1.9	-1	7.2	1	1.1	0	0.225	-2	1.440	-2	6.394	2	2065	39	1.8
50249.7	10000	41.2946	93.1672	-904	QAL	2.2	-1	7.0	1	1.1	0	0.278	-1	1.653	-1	5.942	2	2088	44	1.8
50249.8	10000	41.2953	93.1673	-894	QAL	2.0	-1	7.0	1	1.1	0	0.250	-1	1.506	-1	6.034	2	2091	43	1.8
50249.9	10000	41.2959	93.1673	-884	QAL	2.0	-1	7.0	1	1.1	0	0.257	-1	1.537	-1	5.969	2	2074	49	1.8
50250.0	10000	41.2965	93.1673	-873	QAL	2.0	-1	7.5	1	1.1	0	0.275	-1	1.600	-1	5.828	2	2057	36	1.9
50250.1	10000	41.2971	93.1674	-862	QAL	2.1	-1	7.4	1	1.1	0	0.287	-1	1.714	-1	5.979	2	2034	47	1.9
50250.2	10000	41.2978	93.1674	-849	QAL	2.3	0	7.7	1	1.1	0	0.296	-1	1.834	-1	6.196	2	2038	54	1.9
50250.3	10000	41.2984	93.1674	-837	QAL	2.6	0	7.9	1	1.1	0	0.329	-1	2.112	0	6.425	2	2034	40	1.9
50250.4	10000	41.2990	93.1674	-825	QAL	2.2	-1	7.9	1	1.1	0	0.276	-1	1.840	-1	6.671	2	2028	48	1.9
50250.5	10000	41.2996	93.1675	-812	QAL	2.4	0	7.9	1	1.2	0	0.304	-1	2.101	0	6.911	2	2024	41	1.9
50250.6	10000	41.3003	93.1675	-799	QAL	2.5	0	8.0	1	1.2	0	0.312	-1	2.158	0	6.923	2	2048	36	1.9
50250.7	10000	41.3009	93.1675	-787	QAL	2.6	0	8.3	2	1.1	0	0.315	-1	2.308	0	7.320	2	2067	33	1.9

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50250.8	10000	41.3015	93.1676	-775	QAL	2.5	0	8.2	2	1.2	1	0.305	-1	2.153	0	7.050	1	2073	34	1.9
50250.9	10000	41.3021	93.1676	-763	QAL	2.5	0	8.3	2	1.2	1	0.308	-1	2.116	0	6.862	1	2069	44	1.9
50251.0	10000	41.3028	93.1676	-751	QAL	2.6	0	8.2	2	1.2	1	0.313	-1	2.110	0	6.733	1	2068	46	1.9
50251.1	10000	41.3034	93.1676	-740	QAL	3.0	1	8.2	2	1.2	1	0.365	0	2.433	0	6.670	1	2070	55	1.9
50251.2	10000	41.3040	93.1677	-729	QAL	2.8	1	8.2	2	1.3	1	0.340	0	2.214	0	6.506	0	2053	42	1.9
50251.3	10000	41.3046	93.1677	-718	WATER	2.5	999	8.6	999	1.2	999	0.296	999	2.060	999	6.956	999	2038	30	1.9
50251.4	10000	41.3053	93.1677	-708	WATER	2.5	999	8.4	999	1.2	999	0.299	999	2.031	999	6.797	999	2029	44	1.9
50251.5	10000	41.3059	93.1678	-699	WATER	2.8	999	8.2	999	1.2	999	0.347	999	2.353	999	6.782	999	2035	42	1.9
50251.6	10000	41.3065	93.1678	-690	WATER	2.7	999	8.2	999	1.2	999	0.332	999	2.331	999	7.025	999	2022	44	1.9
50251.7	10000	41.3072	93.1678	-681	WATER	2.6	999	8.1	999	1.1	999	0.319	999	2.273	999	7.117	999	2004	40	1.9
50251.8	10000	41.3078	93.1679	-672	WATER	2.3	999	7.9	999	1.2	999	0.292	999	1.982	999	6.785	999	2000	56	1.9
50251.9	10000	41.3084	93.1679	-664	WATER	2.4	999	8.1	999	1.2	999	0.299	999	2.043	999	6.839	999	2004	34	1.9
50252.0	10000	41.3090	93.1679	-656	QK	2.2	-1	7.7	1	1.2	1	0.281	-1	1.815	-1	6.457	0	1984	47	1.9
50252.1	10000	41.3096	93.1680	-648	QK	2.0	-1	7.5	0	1.2	1	0.264	-1	1.659	-1	6.292	0	1982	48	1.9
50252.2	10000	41.3103	93.1680	-640	QK	2.0	-1	7.9	1	1.2	0	0.249	-1	1.668	-1	6.689	0	1972	51	1.9
50252.3	10000	41.3109	93.1680	-632	QK	1.9	-1	7.9	1	1.2	1	0.239	-2	1.583	-1	6.630	0	1976	51	1.9
50252.4	10000	41.3115	93.1680	-623	QK	1.6	-2	7.9	1	1.2	1	0.197	-2	1.248	-2	6.342	0	1992	45	1.9
50252.5	10000	41.3122	93.1681	-614	QK	1.8	-2	7.9	1	1.3	1	0.225	-2	1.393	-2	6.205	0	2003	29	1.9
50252.6	10000	41.3128	93.1681	-605	QK	2.0	-1	7.8	1	1.2	1	0.253	-1	1.607	-1	6.356	0	2009	51	1.9
50252.7	10000	41.3134	93.1681	-595	QK	2.3	0	8.0	1	1.2	0	0.287	-1	1.958	-1	6.813	0	2022	43	1.9
50252.8	10000	41.3140	93.1682	-585	QK	2.6	0	8.2	1	1.2	0	0.313	-1	2.207	0	7.051	1	2025	39	1.9
50252.9	10000	41.3147	93.1682	-575	QK	2.5	0	8.3	1	1.2	0	0.308	-1	2.194	0	7.122	1	2026	44	1.9
50253.0	10000	41.3153	93.1682	-564	QK	2.9	1	7.8	1	1.1	0	0.375	0	2.610	1	6.960	1	2019	38	1.9
50253.1	10000	41.3159	93.1682	-553	QK	3.3	2	7.9	1	1.1	0	0.417	1	3.052	2	7.323	1	2019	32	1.9
50253.2	10000	41.3165	93.1683	-541	QK	3.1	1	8.0	1	1.0	-1	0.380	0	2.949	1	7.762	2	2004	37	1.9
50253.3	10000	41.3172	93.1683	-529	QK	2.9	1	7.6	1	1.1	0	0.375	0	2.676	1	7.130	1	1995	50	1.9
50253.4	10000	41.3178	93.1683	-517	QK	3.0	1	7.2	1	1.1	0	0.420	1	2.783	1	6.631	1	2002	45	1.9
50253.5	10000	41.3184	93.1684	-505	QK	3.1	1	7.3	1	1.1	0	0.423	1	2.816	1	6.655	1	1998	36	1.9
50253.6	10000	41.3190	93.1684	-494	QK	2.8	1	7.3	1	1.1	0	0.411	1	2.678	1	6.512	0	1998	42	1.9
50253.7	10000	41.3197	93.1684	-482	QK	2.6	1	7.5	1	1.2	0	0.376	0	2.446	0	6.505	0	2015	44	1.9
50253.8	10000	41.3203	93.1685	-470	QK	2.5	1	7.3	1	1.2	0	0.352	0	2.217	0	6.290	0	2016	46	1.9
50253.9	10000	41.3209	93.1685	-458	QK	2.7	1	7.0	1	1.2	0	0.351	0	2.084	0	5.944	-1	2008	47	1.9
50254.0	10000	41.3215	93.1685	-447	QK	2.6	1	7.1	1	1.2	0	0.383	0	2.279	0	5.953	-1	2016	47	1.9
50254.1	10000	41.3222	93.1685	-435	QK	2.5	1	7.1	1	1.2	0	0.366	0	2.229	0	6.098	-1	2001	46	1.8
50254.2	10000	41.3228	93.1686	-423	QK	2.5	1	7.2	1	1.2	0	0.350	0	2.192	0	6.269	0	2000	61	1.8
50254.3	10000	41.3234	93.1686	-411	QK	2.5	1	7.0	1	1.2	0	0.351	0	2.124	0	6.053	-1	2009	50	1.8
50254.4	10000	41.3240	93.1686	-400	QK	2.5	1	7.1	1	1.1	0	0.348	0	2.134	0	6.125	-1	2001	46	1.8
50254.5	10000	41.3246	93.1687	-388	QK	2.5	1	7.2	1	1.2	0	0.346	0	2.179	0	6.304	0	2011	37	1.8
50254.6	10000	41.3253	93.1687	-377	QK	2.8	1	7.9	1	1.2	0	0.354	0	2.431	0	6.866	1	2040	54	1.8
50254.7	10000	41.3259	93.1687	-365	QK	2.6	1	8.0	1	1.2	0	0.324	0	2.221	0	6.853	1	2050	39	1.8
50254.8	10000	41.3265	93.1687	-353	QK	2.7	1	7.8	1	1.2	0	0.345	0	2.218	0	6.428	0	2046	46	1.8
50254.9	10000	41.3271	93.1687	-341	QK	2.9	1	7.4	1	1.2	0	0.398	0	2.399	0	6.029	-1	2058	46	1.8
50255.0	10000	41.3277	93.1688	-328	QK	3.1	2	7.2	1	1.2	0	0.431	0	2.585	0	5.996	-1	2051	49	1.8
50255.1	10000	41.3283	93.1688	-316	QK	3.3	2	7.1	1	1.2	0	0.463	0	2.724	0	5.886	-1	2057	48	1.8
50255.2	10000	41.3289	93.1688	-304	QK	3.5	2	7.3	1	1.3	0	0.483	0	2.907	0	6.019	-1	2065	54	1.8
50255.3	10000	41.3296	93.1688	-292	QK	3.4	2	6.9	1	1.2	0	0.488	0	2.637	0	5.400	-2	2065	27	1.8
50255.4	10000	41.3302	93.1689	-281	QK	3.6	2	7.2	1	1.2	0	0.496	0	2.879	0	5.799	-1	2057	33	1.8
50255.5	10000	41.3308	93.1689	-268	QK	3.3	2	7.4	1	1.2	0	0.449	0	2.753	0	6.138	-1	2052	35	1.8
50255.6	10000	41.3314	93.1689	-257	QK	3.1	2	7.3	1	1.2	0	0.418	0	2.539	0	6.076	-1	2023	46	1.8
50255.7	10000	41.3320	93.1689	-245	QK	3.0	1	7.5	1	1.2	0	0.397	0	2.407	0	6.056	-1	2026	36	1.8
50255.8	10000	41.3326	93.1689	-235	QK	2.9	1	7.4	1	1.2	0	0.399	0	2.478	0	6.206	0	2002	54	1.8
50255.9	10000	41.3333	93.1690	-225	QK	2.9	1	6.9	0	1.2	1	0.419	1	2.406	0	5.746	-1	1974	52	1.8

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50256.0	10000	41.3339	93.1690	-215	QK	2.9	1	7.1	0	1.1	0	0.409	1	2.666	1	6.522	0	1943	45	1.8
50256.1	10000	41.3345	93.1690	-207	QK	2.7	0	6.7	-1	1.1	0	0.404	1	2.481	0	6.146	0	1927	42	1.7
50256.2	10000	41.3351	93.1690	-199	QK	2.8	1	7.0	0	1.1	0	0.396	1	2.545	1	6.423	0	1928	43	1.7
50256.3	10000	41.3357	93.1691	-193	QK	2.7	0	6.9	0	1.1	0	0.395	1	2.521	1	6.384	0	1929	31	1.7
50256.4	10000	41.3363	93.1691	-189	QK	2.7	0	6.9	0	1.1	0	0.391	1	2.504	1	6.399	0	1902	47	1.7
50256.5	10000	41.3370	93.1691	-186	QK	2.5	0	6.9	0	1.1	0	0.360	0	2.303	0	6.403	0	1865	33	1.7
50256.6	10000	41.3376	93.1691	-185	QK	2.4	0	6.7	-1	1.0	-1	0.354	0	2.335	0	6.600	0	1832	45	1.7
50256.7	10000	41.3382	93.1691	-185	QK	2.5	0	6.4	-1	1.0	-1	0.396	1	2.469	0	6.240	0	1821	37	1.7
50256.8	10000	41.3388	93.1692	-187	QK	2.5	0	6.5	-1	1.0	-1	0.388	1	2.495	0	6.433	0	1811	48	1.7
50256.9	10000	41.3394	93.1692	-191	QK	2.3	0	6.2	-1	1.0	-1	0.369	0	2.285	0	6.195	0	1793	49	1.7
50257.0	10000	41.3400	93.1692	-195	QK	2.3	0	6.6	-1	1.0	-1	0.353	0	2.271	0	6.430	0	1785	39	1.7
50257.1	10000	41.3407	93.1692	-200	QK	2.2	-1	6.8	-1	1.0	-1	0.322	0	2.112	0	6.566	0	1813	42	1.7
50257.2	10000	41.3413	93.1693	-206	QK	2.2	-1	7.0	0	1.1	0	0.319	0	2.040	0	6.388	0	1857	45	1.7
50257.3	10000	41.3419	93.1693	-212	QK	2.3	0	7.5	0	1.1	0	0.313	-1	2.124	0	6.775	0	1892	48	1.7
50257.4	10000	41.3425	93.1693	-219	QK	2.5	0	7.8	1	1.1	0	0.322	0	2.289	0	7.109	1	1906	36	1.6
50257.5	10000	41.3431	93.1693	-227	QK	2.5	0	7.9	1	1.1	-1	0.318	0	2.386	0	7.493	1	1922	43	1.6
50257.6	10000	41.3437	93.1694	-235	QK	2.8	1	8.2	1	1.0	-1	0.336	1	2.622	1	7.813	2	1961	30	1.6
50257.7	10000	41.3443	93.1694	-244	QK	2.9	1	8.0	1	1.0	-1	0.358	0	2.779	1	7.770	2	1994	39	1.6
50257.8	10000	41.3450	93.1694	-253	QK	2.2	1	7.9	1	1.0	-1	0.401	1	3.141	2	7.838	2	2000	44	1.6
50257.9	10000	41.3456	93.1694	-262	QK	2.5	1	8.1	1	1.1	-1	0.395	1	3.060	2	7.746	2	2013	32	1.6
50258.0	10000	41.3462	93.1694	-271	QK	2.0	1	8.2	1	1.1	0	0.392	1	3.013	2	7.678	2	2021	47	1.6
50258.1	10000	41.3468	93.1695	-280	QK	2.0	1	8.1	1	1.1	0	0.375	0	2.768	1	7.381	1	2034	37	1.6
50258.2	10000	41.3474	93.1695	-289	QK	2.3	1	8.1	1	1.1	0	0.398	1	2.869	1	7.207	1	2050	37	1.6
50258.3	10000	41.3480	93.1695	-298	QK	2.3	2	7.8	1	1.1	0	0.422	1	2.893	1	6.862	1	2046	48	1.6
50258.4	10000	41.3487	93.1695	-308	QK	2.2	1	7.9	1	1.1	0	0.403	1	2.854	1	7.079	1	2044	37	1.6
50258.5	10000	41.3493	93.1696	-316	QK	2.0	1	7.9	1	1.1	0	0.383	0	2.804	1	7.312	1	2043	47	1.6
50258.6	10000	41.3499	93.1696	-325	QK	1.9	1	7.9	1	1.0	-1	0.372	0	2.852	1	7.659	2	2044	43	1.5
50258.7	10000	41.3505	93.1696	-334	QK	1.8	1	8.4	2	1.1	0	0.340	0	2.663	1	7.842	2	2058	56	1.5
50258.8	10000	41.3511	93.1696	-343	QK	2.1	1	8.5	2	1.1	0	0.362	0	2.950	1	8.139	2	2067	56	1.5
50258.9	10000	41.3517	93.1696	-352	QK	2.1	1	8.5	2	1.1	0	0.363	0	2.903	1	8.003	2	2050	38	1.5
50259.0	10000	41.3523	93.1697	-362	QK	2.0	1	8.7	2	1.1	0	0.356	0	2.909	1	8.173	2	2033	46	1.5
50259.1	10000	41.3530	93.1697	-371	QK	2.0	1	8.5	2	1.1	0	0.355	0	2.729	1	7.688	2	1994	55	1.5
50259.2	10000	41.3536	93.1697	-381	QK	1.9	1	8.2	2	1.1	0	0.359	0	2.610	1	7.273	1	1963	46	1.5
50259.3	10000	41.3542	93.1697	-390	QK	2.1	1	8.1	2	1.1	0	0.376	0	2.732	1	7.258	1	1930	43	1.5
50259.4	10000	41.3548	93.1698	-400	QK	2.0	1	7.4	1	1.1	0	0.412	0	2.863	1	6.956	1	1888	27	1.5
50259.5	10000	41.3554	93.1698	-408	QK	1.8	0	7.4	1	1.1	0	0.371	0	2.514	1	6.772	0	1862	43	1.5
50259.6	10000	41.3560	93.1698	-416	QK	1.4	0	7.5	1	1.1	0	0.319	0	2.115	1	6.624	0	1867	46	1.5
50259.7	10000	41.3567	93.1698	-424	QK	1.2	-1	7.4	1	1.1	0	0.292	-1	1.858	-1	6.368	0	1873	46	1.5
50259.8	10000	41.3573	93.1699	-432	QK	1.1	-1	7.8	1	1.2	0	0.274	-1	1.860	-1	6.783	0	1907	49	1.5
50259.9	10000	41.3579	93.1699	-440	QK	1.2	-1	8.0	1	1.2	0	0.273	-1	1.875	-1	6.855	0	1942	39	1.5
50260.0	10000	41.3585	93.1699	-447	QK	1.2	-1	7.9	1	1.3	0	0.282	-1	1.820	-1	6.464	0	1976	37	1.5
50260.1	10000	41.3591	93.1699	-455	QK	1.2	-1	7.9	1	1.3	0	0.289	-1	1.779	-1	6.153	0	2001	34	1.5
50260.2	10000	41.3597	93.1700	-463	QK	1.2	-1	7.9	1	1.3	0	0.294	-1	1.798	-1	6.107	-1	2022	29	1.5
50260.3	10000	41.3604	93.1700	-471	QK	1.2	-1	7.7	1	1.3	0	0.324	-1	1.902	-1	5.861	-1	2035	48	1.5
50260.4	10000	41.3610	93.1700	-479	QK	1.2	-1	7.8	1	1.3	0	0.333	-1	1.965	-1	5.903	-1	2051	45	1.5
50260.5	10000	41.3616	93.1700	-487	QK	1.2	-1	8.0	1	1.3	0	0.312	-1	1.842	-1	5.902	-1	2053	36	1.5
50260.6	10000	41.3622	93.1700	-495	QK	1.2	-1	8.3	2	1.3	0	0.349	-1	2.024	-1	5.795	-1	2064	48	1.4
50260.7	10000	41.3628	93.1701	-504	QK	1.2	-1	8.5	2	1.3	0	0.327	-1	2.046	-1	6.250	-1	2062	46	1.4
50260.8	10000	41.3634	93.1701	-513	QK	1.2	-1	8.4	2	1.3	0	0.292	-1	1.960	-1	6.710	-1	2042	38	1.4
50260.9	10000	41.3640	93.1701	-523	QK	1.2	-1	8.5	2	1.3	0	0.300	-1	2.035	-1	6.772	-1	2025	40	1.4
50261.0	10000	41.3647	93.1701	-532	QK	1.2	-1	8.4	2	1.3	0	0.290	-1	2.158	-1	7.428	-1	2004	35	1.4
50261.1	10000	41.3653	93.1702	-543	QK	2.8	1	8.4	2	1.2	1	0.329	0	2.437	0	7.403	1	1982	46	1.4

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50261.2	10000	41.3659	93.1702	-554	QK	3.1	1	8.3	1	1.1	0	0.376	0	2.720	1	7.225	1	1965	55	1.4
50261.3	10000	41.3665	93.1702	-563	QK	2.6	0	8.0	1	1.1	0	0.329	0	2.413	0	7.338	1	1929	40	1.4
50261.4	10000	41.3671	93.1702	-574	QK	2.5	0	7.6	1	1.1	0	0.323	0	2.249	0	6.956	1	1908	36	1.4
50261.5	10000	41.3677	93.1702	-584	QK	2.6	0	7.1	0	1.1	0	0.361	0	2.330	0	6.447	0	1915	39	1.4
50261.6	10000	41.3683	93.1703	-595	QK	2.7	0	6.9	0	1.1	0	0.399	1	2.486	0	6.226	0	1901	33	1.4
50261.7	10000	41.3690	93.1703	-605	QK	2.7	0	6.2	-1	1.1	0	0.432	1	2.425	0	5.613	-1	1884	57	1.4
50261.8	10000	41.3696	93.1703	-616	QK	2.4	0	6.2	-1	1.1	0	0.384	0	2.143	0	5.580	-1	1889	46	1.4
50261.9	10000	41.3702	93.1703	-627	QK	2.3	0	6.2	-1	1.2	0	0.369	0	1.965	-1	5.325	-2	1889	53	1.4
50262.0	10000	41.3708	93.1703	-637	QK	2.5	0	6.3	-1	1.1	0	0.406	1	2.229	0	5.485	-1	1896	47	1.4
50262.1	10000	41.3714	93.1704	-648	QK	2.8	1	6.4	-1	1.2	0	0.443	1	2.436	0	5.496	-1	1917	33	1.4
50262.2	10000	41.3720	93.1704	-658	QK	3.0	1	6.8	-1	1.2	0	0.436	1	2.559	1	5.867	-1	1931	54	1.4
50262.3	10000	41.3727	93.1704	-668	QK	3.0	1	6.8	-1	1.2	1	0.441	1	2.514	1	5.708	-1	1972	29	1.4
50262.4	10000	41.3733	93.1704	-678	QK	3.4	2	7.1	0	1.2	0	0.478	2	2.902	1	6.066	-1	1992	42	1.4
50262.5	10000	41.3739	93.1705	-687	QK	3.5	2	7.3	0	1.1	0	0.474	2	3.042	2	6.421	0	1996	43	1.5
50262.6	10000	41.3745	93.1705	-697	QK	3.5	2	7.7	1	1.1	0	0.458	1	3.152	2	6.884	1	2012	43	1.5
50262.7	10000	41.3751	93.1705	-705	QK	3.5	2	7.8	1	1.2	0	0.452	1	3.027	2	6.694	0	2029	32	1.5
50262.8	10000	41.3757	93.1705	-714	QK	3.4	2	8.0	1	1.2	1	0.428	1	2.892	1	6.758	0	2046	46	1.5
50262.9	10000	41.3764	93.1706	-723	QK	3.4	2	8.2	1	1.2	1	0.412	1	2.772	1	6.732	0	2051	40	1.5
50263.0	10000	41.3770	93.1706	-732	QK	3.1	1	8.4	2	1.2	1	0.368	0	2.539	1	6.902	1	2048	44	1.5
50263.1	10000	41.3776	93.1706	-742	QK	2.6	0	8.5	2	1.3	1	0.307	-1	2.082	0	6.788	0	2057	45	1.5
50263.2	10000	41.3782	93.1706	-751	QK	2.7	0	8.9	2	1.3	1	0.300	-1	2.093	0	6.985	1	2071	38	1.5
50263.3	10000	41.3788	93.1707	-760	QK	2.7	0	8.5	2	1.3	1	0.317	0	2.115	0	6.675	0	2070	39	1.5
50263.4	10000	41.3794	93.1707	-770	QK	2.7	0	8.4	2	1.3	1	0.317	0	2.109	0	6.653	0	2070	40	1.5
50263.5	10000	41.3801	93.1707	-780	QK	2.5	0	8.3	2	1.2	1	0.296	-1	1.979	-1	6.681	0	2056	39	1.5
50263.6	10000	41.3807	93.1707	-790	QK	2.6	0	8.5	2	1.2	1	0.301	-1	2.078	0	6.904	1	2065	41	1.5
50263.7	10000	41.3813	93.1707	-801	QK	2.6	0	8.4	2	1.2	1	0.312	-1	2.178	0	6.980	1	2049	38	1.5
50263.8	10000	41.3819	93.1708	-812	QK	2.9	1	8.2	1	1.2	1	0.348	0	2.378	0	6.828	0	2064	44	1.5
50263.9	10000	41.3825	93.1708	-823	QK	3.0	1	7.9	1	1.3	1	0.381	0	2.466	0	6.476	0	2068	40	1.5
50264.0	10000	41.3831	93.1708	-835	QK	3.0	1	8.0	1	1.3	1	0.379	0	2.391	0	6.300	0	2087	36	1.5
50264.1	10000	41.3837	93.1708	-846	QK	2.9	1	8.1	1	1.3	1	0.356	0	2.295	0	6.451	0	2087	37	1.5
50264.2	10000	41.3844	93.1709	-858	QK	3.2	1	7.7	1	1.2	1	0.414	1	2.575	1	6.223	0	2094	34	1.6
50264.3	10000	41.3850	93.1709	-869	QK	3.2	1	7.1	0	1.3	1	0.450	1	2.564	1	5.696	-1	2089	30	1.6
50264.4	10000	41.3856	93.1709	-880	QK	3.2	1	7.1	0	1.3	1	0.452	1	2.511	1	5.553	-1	2094	47	1.6
50264.5	10000	41.3862	93.1709	-891	QK	3.0	1	7.4	0	1.3	1	0.412	1	2.370	0	5.752	-1	2086	46	1.6
50264.6	10000	41.3868	93.1709	-902	QK	3.0	1	7.4	0	1.4	2	0.398	0	2.148	0	5.393	-2	2098	38	1.6
50264.7	10000	41.3874	93.1710	-912	QK	2.9	1	7.4	0	1.3	2	0.389	0	2.209	0	5.671	-1	2070	35	1.6
50264.8	10000	41.3880	93.1710	-922	QK	2.9	1	7.6	0	1.4	2	0.381	0	2.114	0	5.556	-1	2069	54	1.6
50264.9	10000	41.3887	93.1710	-931	QK	2.6	0	7.5	0	1.4	2	0.350	0	1.922	-1	5.489	-1	2062	53	1.6
50265.0	10000	41.3893	93.1710	-940	QK	2.5	0	7.6	1	1.4	2	0.327	0	1.818	-1	5.558	-1	2057	47	1.6
50265.1	10000	41.3899	93.1711	-949	QK	2.6	0	7.5	0	1.4	2	0.344	0	1.895	-1	5.504	-1	2065	38	1.6
50265.2	10000	41.3905	93.1711	-957	QK	2.7	0	7.5	0	1.3	2	0.355	0	2.015	-1	5.672	-1	2056	28	1.6
50265.3	10000	41.3911	93.1711	-964	QK	2.6	0	7.8	1	1.2	1	0.332	0	2.146	0	6.468	0	2030	56	1.7
50265.4	10000	41.3917	93.1711	-969	QK	2.6	0	7.7	1	1.2	0	0.334	0	2.118	0	6.345	0	2026	50	1.7
50265.5	10000	41.3923	93.1712	-973	QK	2.6	0	7.4	1	1.1	0	0.358	0	2.336	0	6.530	0	2013	42	1.7
50265.6	10000	41.3930	93.1712	-976	QK	2.6	0	7.6	1	1.1	0	0.339	0	2.235	0	6.595	0	2007	37	1.7
50265.7	10000	41.3936	93.1712	-979	QK	2.6	0	7.7	1	1.1	0	0.334	0	2.339	1	7.011	1	1990	45	1.7
50265.8	10000	41.3942	93.1712	-982	QK	2.5	0	7.9	1	1.1	-1	0.313	0	2.261	1	7.227	1	1984	54	1.7
50265.9	10000	41.3948	93.1712	-984	QK	2.4	0	7.6	1	1.1	0	0.322	0	2.250	1	6.989	1	1979	45	1.7
50266.0	10000	41.3954	93.1713	-985	QK	2.3	0	7.4	0	1.1	-1	0.309	-1	2.117	0	6.848	1	1969	43	1.7
50266.1	10000	41.3960	93.1713	-985	QK	2.0	-1	7.8	1	1.1	-1	0.255	-1	1.811	-1	7.113	1	1980	48	1.7
50266.2	10000	41.3967	93.1713	-984	QK	2.0	-1	8.1	1	1.1	-1	0.242	-2	1.700	-1	7.022	1	1986	43	1.8
50266.3	10000	41.3973	93.1713	-982	QK	2.1	-1	8.1	1	1.1	0	0.254	-1	1.822	-1	7.163	1	1980	44	1.8

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50266.4	10000	41.3979	93.1714	-980	QK	2.1	-1	7.9	1	1.2	0	0.260	-1	1.774	-1	6.820	0	2000	39	1.8
50266.5	10000	41.3985	93.1714	-977	QK	2.0	-1	8.0	1	1.2	0	0.245	-1	1.667	-1	6.802	0	2003	32	1.8
50266.6	10000	41.3991	93.1714	-975	QK	1.9	-1	8.2	1	1.2	1	0.236	-2	1.569	-1	6.649	0	2009	40	1.8
50266.7	10000	41.3997	93.1714	-972	QK	1.9	-1	8.3	2	1.3	1	0.223	-2	1.437	-2	6.437	0	2026	36	1.8
50266.8	10000	41.4004	93.1714	-969	QK	2.1	-1	8.0	1	1.3	1	0.261	-1	1.638	-1	6.275	0	2011	44	1.8
50266.9	10000	41.4010	93.1715	-964	QK	2.0	-1	7.7	1	1.2	1	0.263	-1	1.619	-1	6.161	0	2005	39	1.8
50267.0	10000	41.4016	93.1715	-960	QK	2.1	-1	7.7	1	1.2	1	0.273	-1	1.753	-1	6.428	0	1999	39	1.8
50267.1	10000	41.4022	93.1715	-956	QK	2.0	-1	7.5	0	1.2	1	0.260	-1	1.632	-1	6.284	0	1983	47	1.9
50267.2	10000	41.4028	93.1715	-952	QK	2.2	-1	7.4	0	1.2	0	0.303	-1	1.928	-1	6.365	0	1975	37	1.9
50267.3	10000	41.4034	93.1716	-947	QK	2.3	0	7.6	0	1.1	0	0.302	-1	2.023	-1	6.697	0	1969	38	1.9
50267.4	10000	41.4041	93.1716	-942	QK	2.4	0	7.1	0	1.1	0	0.338	0	2.118	0	6.261	0	1977	47	1.9
50267.5	10000	41.4047	93.1716	-935	QK	2.2	-1	7.2	0	1.1	0	0.306	-1	1.925	-1	6.286	0	2001	37	1.9
50267.6	10000	41.4053	93.1716	-929	QK	2.4	0	7.6	1	1.2	1	0.316	0	2.037	0	6.454	0	2022	52	1.9
50267.7	10000	41.4059	93.1717	-922	QK	2.4	0	7.9	1	1.3	1	0.301	-1	1.886	-1	6.263	0	2036	43	1.9
50267.8	10000	41.4065	93.1717	-915	QK	2.3	0	7.8	1	1.3	1	0.297	-1	1.843	-1	6.210	0	2035	43	1.9
50267.9	10000	41.4071	93.1717	-909	QK	2.1	-1	7.7	1	1.3	1	0.269	-1	1.622	-1	6.022	-1	2031	42	2.0
50268.0	10000	41.4077	93.1717	-902	QK	2.0	-1	7.5	0	1.3	1	0.264	-1	1.522	-2	5.756	-1	2037	33	2.0
50268.1	10000	41.4084	93.1717	-896	QK	2.1	-1	7.2	0	1.3	1	0.289	-1	1.613	-1	5.581	-1	2028	46	2.0
50268.2	10000	41.4090	93.1718	-889	QK	2.2	-1	7.3	0	1.3	2	0.296	-1	1.631	-1	5.519	-1	2027	52	2.0
50268.3	10000	41.4096	93.1718	-882	QK	1.9	-1	7.2	0	1.3	2	0.266	-1	1.458	-2	5.474	-1	2015	52	2.0
50268.4	10000	41.4102	93.1718	-876	QK	2.0	-1	6.8	-1	1.2	1	0.292	-1	1.595	-1	5.472	-1	2018	47	2.0
50268.5	10000	41.4108	93.1718	-873	QK	2.1	-1	7.5	0	1.3	1	0.285	-1	1.714	-1	6.023	-1	2028	51	2.0
50268.6	10000	41.4114	93.1719	-868	QK	2.0	-1	7.7	1	1.3	1	0.257	-1	1.559	-1	6.071	-1	2045	39	2.0
50268.7	10000	41.4120	93.1719	-863	QK	2.2	-1	7.8	1	1.2	1	0.286	-1	1.795	-1	6.275	0	2064	50	2.0
50268.8	10000	41.4127	93.1719	-857	QK	2.1	-1	8.1	1	1.2	1	0.259	-1	1.690	-1	6.518	0	2079	34	2.0
50268.9	10000	41.4133	93.1719	-853	QK	2.3	0	8.2	1	1.2	1	0.285	-1	1.956	-1	6.853	1	2097	48	2.1
50269.0	10000	41.4139	93.1720	-848	QK	2.8	1	8.0	1	1.2	0	0.348	0	2.398	0	6.891	1	2099	44	2.1
50269.1	10000	41.4145	93.1719	-844	QK	2.6	0	7.8	1	1.2	1	0.332	0	2.088	0	6.283	0	2113	53	2.1
50269.2	10000	41.4152	93.1719	-840	QK	2.6	0	6.9	0	1.2	0	0.385	0	2.246	0	5.841	-1	2114	41	2.1
50269.3	10000	41.4158	93.1719	-837	QK	3.1	1	6.5	-1	1.1	0	0.480	2	2.742	1	5.709	-1	2089	35	2.1
50269.4	10000	41.4164	93.1719	-832	QK	3.3	2	6.4	-1	1.1	0	0.511	2	2.951	1	5.772	-1	2060	49	2.1
50269.5	10000	41.4171	93.1718	-828	QK	3.2	1	6.2	-1	1.0	-1	0.519	2	3.115	2	6.000	-1	2008	41	2.1
50269.6	10000	41.4177	93.1718	-825	QK	3.2	1	5.6	-2	1.0	-1	0.577	3	3.149	2	5.457	-1	1953	42	2.1
50269.7	10000	41.4183	93.1718	-821	QK	2.9	1	5.6	-2	1.0	-1	0.515	2	2.796	1	5.431	-1	1922	44	2.1
50269.8	10000	41.4189	93.1718	-818	QK	3.0	1	5.6	-2	1.0	-1	0.544	3	3.140	2	5.768	-1	1879	47	2.1
50269.9	10000	41.4196	93.1717	-815	QK	3.2	1	5.9	-2	1.0	-1	0.541	3	3.174	2	5.870	-1	1869	38	2.1
50270.0	10000	41.4202	93.1717	-812	QK	2.8	1	5.9	-2	1.0	-1	0.472	2	2.858	1	6.059	-1	1867	37	2.1
50270.1	10000	41.4208	93.1717	-808	QAL	2.6	0	6.0	-1	1.0	0	0.433	1	2.531	0	5.850	0	1862	50	2.2
50270.2	10000	41.4215	93.1717	-804	QAL	2.6	0	6.1	0	1.0	0	0.428	1	2.586	1	6.041	0	1872	47	2.2
50270.3	10000	41.4221	93.1716	-801	QAL	2.6	0	6.3	0	1.0	0	0.411	0	2.545	0	6.194	0	1883	33	2.2
50270.4	10000	41.4227	93.1716	-797	QAL	2.5	0	6.6	0	1.0	0	0.385	0	2.472	0	6.419	0	1877	58	2.2
50270.5	10000	41.4234	93.1716	-794	QAL	2.3	0	6.8	0	1.0	0	0.339	0	2.235	0	6.593	1	1877	33	2.2
50270.6	10000	41.4240	93.1716	-790	QAL	2.1	-1	6.5	0	1.1	0	0.316	-1	1.935	-1	6.124	0	1873	38	2.2
50270.7	10000	41.4246	93.1715	-787	QAL	2.2	-1	6.7	0	1.1	0	0.323	-1	2.021	-1	6.265	0	1869	44	2.2
50270.8	10000	41.4252	93.1715	-782	QAL	2.1	-1	6.8	0	1.1	0	0.316	-1	1.982	-1	6.266	0	1862	46	2.2
50270.9	10000	41.4259	93.1715	-778	QAL	2.2	0	6.7	0	1.1	0	0.330	-1	1.931	-1	5.849	0	1879	38	2.2
50271.0	10000	41.4265	93.1715	-774	QAL	1.9	-1	6.8	0	1.2	1	0.271	-1	1.599	-1	5.891	0	1906	37	2.2
50271.1	10000	41.4271	93.1714	-770	QAL	1.6	-1	6.9	0	1.2	1	0.236	-2	1.379	-2	5.846	0	1914	43	2.2
50271.2	10000	41.4278	93.1714	-765	QAL	1.8	-1	7.0	0	1.2	1	0.260	-1	1.522	-1	5.860	0	1915	48	2.2
50271.3	10000	41.4284	93.1714	-760	QAL	1.7	-1	7.4	1	1.1	1	0.230	-2	1.511	-1	6.582	1	1905	40	2.2
50271.4	10000	41.4290	93.1714	-756	QAL	1.8	-1	7.4	1	1.1	1	0.245	-2	1.667	-1	6.789	1	1875	38	2.2
50271.5	10000	41.4297	93.1713	-751	QAL	2.0	-1	7.1	1	1.0	0	0.275	-1	1.947	-1	7.069	1	1842	44	2.2

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50271.6	10000	41.4303	93.1713	-746	QAL	2.0	-1	6.9	0	0.9	-1	0.288	-1	2.253	0	7.818	2	1778	42	2.2
50271.7	10000	41.4309	93.1713	-742	QAL	2.3	0	6.7	0	0.8	-2	0.348	0	2.945	-1	8.452	3	1701	57	2.2
50271.8	10000	41.4316	93.1713	-737	QAL	2.2	0	6.2	0	0.7	-2	0.351	0	2.991	-1	8.513	3	1648	37	2.2
50271.9	10000	41.4322	93.1712	-732	QAL	2.2	0	5.9	-1	0.7	-3	0.374	0	3.253	2	8.700	3	1600	33	2.2
50272.0	10000	41.4328	93.1712	-727	QAL	2.1	-1	5.6	-1	0.7	-3	0.381	0	3.175	2	8.323	3	1571	58	2.3
50272.1	10000	41.4334	93.1712	-722	QAL	2.0	-1	5.4	-1	0.7	-2	0.365	0	2.690	1	7.365	2	1589	40	2.3
50272.2	10000	41.4341	93.1712	-717	QAL	2.0	-1	5.8	-1	0.8	-2	0.342	0	2.411	0	7.056	1	1630	41	2.3
50272.3	10000	41.4347	93.1711	-712	QAL	2.0	-1	6.1	0	0.9	-1	0.332	-1	2.236	0	6.730	1	1681	38	2.3
50272.4	10000	41.4353	93.1711	-707	QAL	2.0	-1	6.1	0	1.0	-1	0.331	-1	2.116	0	6.389	0	1737	45	2.3
50272.5	10000	41.4360	93.1711	-702	QAL	2.4	0	6.5	0	1.0	-1	0.366	0	2.456	0	6.713	1	1798	39	2.3
50272.6	10000	41.4366	93.1711	-697	QAL	2.3	0	6.9	0	1.0	0	0.338	0	2.263	0	6.689	1	1860	41	2.3
50272.7	10000	41.4372	93.1711	-692	QAL	2.5	0	7.2	1	1.0	0	0.347	0	2.403	0	6.920	1	1898	36	2.3
50272.8	10000	41.4379	93.1710	-688	QAL	2.8	1	7.0	0	1.0	0	0.396	0	2.700	1	6.813	1	1906	38	2.3
50272.9	10000	41.4385	93.1710	-683	QAL	2.7	0	6.2	0	1.0	0	0.436	1	2.677	1	6.133	0	1890	42	2.3
50273.0	10000	41.4391	93.1710	-678	QAL	2.7	0	6.1	0	1.0	0	0.453	1	2.673	1	5.905	0	1866	37	2.3
50273.1	10000	41.4398	93.1709	-674	QAL	2.3	0	5.9	-1	1.0	0	0.392	0	2.269	0	5.784	0	1803	36	2.3
50273.2	10000	41.4404	93.1709	-670	QAL	2.2	-1	5.1	-1	0.9	-1	0.422	0	2.314	0	5.478	-1	1729	44	2.3
50273.3	10000	41.4410	93.1709	-666	QAL	2.2	-1	4.6	-2	0.8	-2	0.464	1	2.586	1	5.576	-1	1653	45	2.3
50273.4	10000	41.4417	93.1709	-662	QAL	2.2	0	4.2	-2	0.8	-2	0.515	1	2.645	1	5.136	-1	1627	43	2.3
50273.5	10000	41.4423	93.1709	-658	QAL	2.0	-1	4.6	-2	0.8	-2	0.430	1	2.512	0	5.842	0	1617	33	2.3
50273.6	10000	41.4429	93.1708	-654	QAL	1.9	-1	5.0	-2	0.7	-2	0.379	0	2.595	1	6.841	1	1612	43	2.3
50273.7	10000	41.4436	93.1708	-650	QAL	2.1	-1	4.8	-2	0.7	-3	0.433	1	2.966	1	6.855	1	1630	40	2.3
50273.8	10000	41.4442	93.1708	-646	WATER	2.2	999	4.8	999	0.8	999	0.457	999	2.929	999	6.405	999	1686	38	2.3
50273.9	10000	41.4448	93.1707	-640	WATER	2.3	999	5.6	999	0.9	999	0.412	999	2.656	999	6.442	999	1773	42	2.3
50274.0	10000	41.4454	93.1707	-635	WATER	2.5	999	6.1	999	0.9	999	0.416	999	2.680	999	6.434	999	1843	44	2.3
50274.1	10000	41.4461	93.1707	-630	WATER	2.4	999	6.2	999	1.0	999	0.389	999	2.523	999	6.489	999	1874	42	2.2
50274.2	10000	41.4467	93.1707	-625	QK	2.6	0	6.6	-1	1.0	-1	0.398	1	2.603	1	6.533	0	1908	40	2.2
50274.3	10000	41.4473	93.1707	-623	QK	2.6	0	6.9	0	1.1	0	0.373	0	2.374	0	6.362	0	1946	48	2.2
50274.4	10000	41.4480	93.1706	-621	QK	2.3	0	7.2	0	1.1	0	0.318	0	2.098	0	6.593	0	1981	44	2.2
50274.5	10000	41.4486	93.1706	-618	QK	2.6	0	7.4	0	1.1	0	0.358	0	2.416	0	6.751	0	2007	43	2.2
50274.6	10000	41.4492	93.1706	-613	QK	2.7	0	6.7	-1	1.1	0	0.402	1	2.504	1	6.223	0	2018	45	2.2
50274.7	10000	41.4499	93.1706	-609	QK	2.7	0	6.9	0	1.1	0	0.394	0	2.447	1	6.216	0	2044	38	2.2
50274.8	10000	41.4505	93.1705	-604	QK	3.0	1	7.1	0	1.1	0	0.430	0	2.689	1	6.247	0	2074	41	2.2
50274.9	10000	41.4511	93.1705	-600	QK	3.1	1	6.3	-1	1.1	0	0.483	1	2.753	2	5.700	-1	2095	42	2.2
50275.0	10000	41.4517	93.1705	-595	QK	3.1	1	6.6	-1	1.1	0	0.473	1	2.855	2	6.042	-1	2125	43	2.2
50275.1	10000	41.4524	93.1705	-590	QK	3.4	2	6.5	-1	1.1	0	0.515	1	2.985	2	5.795	-1	2151	48	2.2
50275.2	10000	41.4530	93.1704	-585	QK	3.6	2	6.8	-1	1.2	0	0.526	1	3.097	2	5.884	-1	2200	38	2.2
50275.3	10000	41.4536	93.1704	-580	QK	3.9	2	7.4	0	1.2	0	0.521	1	3.267	2	6.275	0	2218	33	2.2
50275.4	10000	41.4543	93.1704	-575	QK	3.7	2	7.4	0	1.2	0	0.500	1	2.983	2	5.972	-1	2227	42	2.2
50275.5	10000	41.4549	93.1704	-569	QK	3.5	2	7.7	1	1.3	0	0.452	1	2.728	1	6.032	-1	2229	38	2.2
50275.6	10000	41.4555	93.1703	-563	QK	3.3	2	8.0	1	1.3	0	0.408	1	2.547	1	6.235	0	2226	36	2.2
50275.7	10000	41.4562	93.1703	-556	QK	3.2	2	7.9	1	1.4	0	0.404	1	2.340	0	5.792	-1	2208	50	2.2
50275.8	10000	41.4568	93.1703	-549	QK	2.8	1	8.1	1	1.4	0	0.351	0	1.972	-1	5.623	-1	2187	48	2.2
50275.9	10000	41.4574	93.1703	-543	QK	2.7	1	7.7	1	1.4	0	0.355	0	1.923	-1	5.414	-2	2147	42	2.2
50276.0	10000	41.4580	93.1702	-536	QK	2.5	1	7.5	0	1.4	0	0.336	0	1.825	-1	5.440	-1	2128	39	2.2
50276.1	10000	41.4587	93.1702	-529	QK	2.4	1	7.4	0	1.3	0	0.325	0	1.826	-1	5.626	-1	2122	44	2.2
50276.2	10000	41.4593	93.1702	-521	QK	2.5	1	6.9	-1	1.4	0	0.362	1	1.881	-1	5.190	-2	2122	43	2.2
50276.3	10000	41.4599	93.1702	-512	QK	2.8	1	7.1	0	1.3	0	0.388	1	2.034	0	5.238	-2	2139	39	2.2
50276.4	10000	41.4606	93.1701	-503	QK	3.0	1	7.1	0	1.3	0	0.427	1	2.238	1	5.238	-2	2170	48	2.2
50276.5	10000	41.4612	93.1701	-495	QK	3.4	2	6.8	-1	1.3	0	0.505	2	2.620	1	5.194	-2	2194	43	2.2
50276.6	10000	41.4618	93.1701	-486	QK	3.1	1	7.2	0	1.3	0	0.436	1	2.443	1	5.599	-1	2211	53	2.2
50276.7	10000	41.4625	93.1701	-477	QK	3.1	1	7.3	0	1.3	2	0.429	1	2.388	0	5.570	-1	2223	33	2.2

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50276.8	10000	41.4631	93.1700	-467	QK	3.3	2	7.7	1	1.3	1	0.425	1	2.586	1	6.092	-1	2216	46	2.2
50276.9	10000	41.4637	93.1700	-455	QK	3.1	1	7.9	1	1.2	1	0.392	1	2.615	1	6.665	0	2198	41	2.2
50277.0	10000	41.4644	93.1700	-443	QK	2.6	1	7.6	1	1.1	0	0.346	0	2.323	0	6.706	0	2171	43	2.2
50277.1	10000	41.4650	93.1700	-432	QK	2.6	0	7.2	0	1.1	0	0.364	0	2.294	0	6.300	0	2122	44	2.2
50277.2	10000	41.4656	93.1700	-422	QK	2.7	0	7.3	0	1.1	0	0.366	0	2.367	0	6.465	0	2097	42	2.2
50277.3	10000	41.4662	93.1699	-410	QK	2.5	0	7.0	0	1.1	0	0.365	0	2.270	0	6.223	0	2059	42	2.2
50277.4	10000	41.4669	93.1699	-398	QK	2.5	0	7.0	0	1.1	0	0.362	0	2.257	0	6.239	0	2041	33	2.2
50277.5	10000	41.4675	93.1699	-386	QK	2.6	0	6.7	-1	1.1	0	0.381	0	2.265	0	5.943	-1	2024	44	2.2
50277.6	10000	41.4681	93.1698	-375	QK	2.6	0	6.7	-1	1.2	0	0.387	1	2.208	0	5.704	-1	2014	42	2.2
50277.7	10000	41.4688	93.1698	-362	QK	2.8	0	6.7	-1	1.1	0	0.408	1	2.418	0	5.923	-1	2001	46	2.2
50277.8	10000	41.4694	93.1698	-348	QK	2.7	0	6.9	0	1.1	0	0.391	1	2.472	0	6.316	0	2008	47	2.2
50277.9	10000	41.4700	93.1698	-335	QK	2.4	0	7.4	0	1.1	0	0.322	0	2.232	0	6.933	1	2016	42	2.2
50278.0	10000	41.4707	93.1698	-322	QK	2.7	0	7.5	0	1.1	0	0.354	0	2.443	0	6.896	1	2042	43	2.2
50278.1	10000	41.4713	93.1697	-310	QK	2.8	1	7.2	0	1.1	0	0.393	1	2.625	1	6.681	0	2044	34	2.2
50278.2	10000	41.4719	93.1697	-297	QK	2.8	1	7.0	0	1.1	0	0.401	1	2.463	0	6.142	0	2061	51	2.2
50278.3	10000	41.4725	93.1697	-286	QK	3.0	1	6.6	-1	1.1	0	0.458	1	2.706	1	5.907	-1	2062	40	2.2
50278.4	10000	41.4732	93.1696	-274	QK	3.2	1	6.3	-1	1.1	0	0.503	2	2.814	1	5.594	-1	2048	40	2.2
50278.5	10000	41.4738	93.1696	-263	QK	3.1	1	6.2	-1	1.1	0	0.500	2	2.901	1	5.797	-1	2011	52	2.2
50278.6	10000	41.4744	93.1696	-252	QK	3.1	1	6.0	-2	1.1	0	0.525	2	2.929	1	5.578	-1	2000	32	2.2
50278.7	10000	41.4751	93.1696	-243	QK	3.3	2	6.0	-2	1.1	0	0.543	3	3.084	2	5.674	-1	2000	56	2.2
50278.8	10000	41.4757	93.1696	-234	QK	3.3	2	6.3	-1	1.1	0	0.521	2	3.115	2	5.978	-1	2007	43	2.2
50278.9	10000	41.4763	93.1695	-225	QK	3.2	1	6.5	-1	1.0	-1	0.491	2	3.090	2	6.290	0	2014	52	2.2
50279.0	10000	41.4770	93.1695	-216	QK	3.0	1	6.8	-1	1.0	-1	0.447	1	2.913	1	6.511	0	2023	39	2.2
50279.1	10000	41.4776	93.1695	-208	QK	2.8	1	7.1	0	1.1	-1	0.395	1	2.683	1	6.787	0	2035	48	2.2
50279.2	10000	41.4782	93.1695	-200	QK	2.8	1	7.4	0	1.1	0	0.377	0	2.435	0	6.464	0	2066	41	2.2
50279.3	10000	41.4789	93.1694	-190	QK	2.8	1	7.3	0	1.1	0	0.386	0	2.448	0	6.347	0	2085	52	2.2
50279.4	10000	41.4795	93.1694	-182	QK	2.5	0	7.4	0	1.2	1	0.336	0	2.104	0	6.253	0	2089	41	2.2
50279.5	10000	41.4801	93.1694	-176	QK	2.4	0	7.7	1	1.3	1	0.319	0	1.947	-1	6.096	-1	2106	46	2.2
50279.6	10000	41.4808	93.1694	-169	QK	2.6	0	7.8	1	1.3	1	0.336	0	2.091	0	6.214	0	2099	60	2.2
50279.7	10000	41.4814	93.1693	-162	QK	2.7	0	7.8	1	1.3	2	0.349	0	2.099	0	6.020	-1	2116	43	2.2
50279.8	10000	41.4820	93.1693	-156	QK	2.8	1	7.9	1	1.3	2	0.350	0	2.057	0	5.878	-1	2144	42	2.2
50279.9	10000	41.4826	93.1693	-150	QK	2.8	1	8.1	1	1.3	2	0.349	0	2.160	0	6.195	0	2154	48	2.2
50280.0	10000	41.4833	93.1693	-143	QK	2.8	1	8.1	1	1.3	2	0.344	0	2.095	0	6.082	-1	2158	43	2.2
50280.1	10000	41.4839	93.1692	-138	QK	3.0	1	8.1	1	1.3	2	0.367	0	2.213	0	6.033	-1	2165	43	2.2
50280.2	10000	41.4845	93.1692	-133	QK	2.7	1	8.0	1	1.3	2	0.342	0	2.064	0	6.033	-1	2151	38	2.2
50280.3	10000	41.4852	93.1692	-128	QK	2.7	0	7.7	1	1.3	2	0.357	0	2.065	0	5.780	-1	2161	41	2.2
50280.4	10000	41.4858	93.1692	-122	QK	2.6	0	7.7	1	1.3	2	0.332	0	2.006	-1	6.037	-1	2146	37	2.2
50280.5	10000	41.4864	93.1691	-117	QK	2.5	0	7.9	1	1.3	2	0.320	0	1.953	-1	6.111	-1	2137	57	2.2
50280.6	10000	41.4871	93.1691	-111	QK	2.3	0	8.3	1	1.3	2	0.278	-1	1.740	-1	6.255	0	2151	42	2.2
50280.7	10000	41.4877	93.1691	-106	QK	2.2	-1	8.0	1	1.3	1	0.274	-1	1.713	-1	6.244	0	2157	57	2.2
50280.8	10000	41.4883	93.1691	-101	QK	2.1	-1	8.1	1	1.3	1	0.265	-1	1.694	-1	6.383	0	2149	37	2.2
50280.9	10000	41.4889	93.1690	-96	QK	2.4	-1	8.3	1	1.3	1	0.284	-1	1.887	-1	6.649	0	2162	51	2.2
50281.0	10000	41.4896	93.1690	-91	QK	2.1	-1	8.7	2	1.3	1	0.247	-1	1.685	-1	6.825	0	2160	52	2.2
50281.1	10000	41.4902	93.1690	-87	QK	2.3	0	9.0	2	1.3	1	0.255	-1	1.816	-1	7.126	1	2179	36	2.2
50281.2	10000	41.4908	93.1690	-83	QK	2.4	0	8.7	2	1.3	1	0.274	-1	1.890	-1	6.907	1	2188	47	2.2
50281.3	10000	41.4915	93.1689	-79	QK	2.8	1	8.0	1	1.3	1	0.346	0	2.144	0	6.195	0	2195	34	2.2
50281.4	10000	41.4921	93.1689	-74	QK	3.0	1	8.1	1	1.3	1	0.371	0	2.349	0	6.332	0	2177	35	2.2
50281.5	10000	41.4927	93.1689	-71	QK	2.9	1	7.9	1	1.3	1	0.368	0	2.374	0	6.459	0	2160	45	2.2
50281.6	10000	41.4934	93.1689	-67	QK	2.9	1	7.5	1	1.3	1	0.391	1	2.371	0	6.071	-1	2146	39	2.2
50281.7	10000	41.4940	93.1688	-61	QK	3.0	1	7.2	1	1.2	1	0.417	1	2.455	0	5.894	-1	2132	41	2.2
50281.8	10000	41.4946	93.1688	-55	QK	3.0	1	7.1	1	1.2	1	0.424	1	2.451	0	5.777	-1	2113	39	2.2
50281.9	10000	41.4952	93.1688	-58	QK	2.9	1	7.2	0	1.2	1	0.404	1	2.394	0	5.931	-1	2033	36	2.4

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50282.0	10000	41.4959	93.1688	-59	QK	2.5	0	7.3	0	1.2	0	0.349	0	2.207	0	6.324	0	2044	45	2.4
50282.1	10000	41.4965	93.1687	-56	QK	2.5	0	7.3	0	1.2	0	0.340	0	2.148	0	6.318	0	2016	47	2.4
50282.2	10000	41.4971	93.1687	-55	QK	2.4	0	7.0	0	1.2	1	0.345	0	2.054	0	5.957	-1	2006	35	2.4
50282.3	10000	41.4978	93.1687	-55	QK	2.4	0	6.9	0	1.2	0	0.343	0	2.048	0	5.969	-1	1960	32	2.4
50282.4	10000	41.4984	93.1687	-56	QK	2.3	0	6.7	-1	1.1	0	0.346	0	2.046	0	5.906	-1	1937	44	2.4
50282.5	10000	41.4990	93.1687	-56	QK	2.0	-1	6.4	-1	1.1	0	0.319	0	1.824	-1	5.727	-1	1892	41	2.4
50282.6	10000	41.4997	93.1686	-56	QK	2.0	-1	6.1	-2	1.1	0	0.330	0	1.794	-1	5.428	-2	1879	40	2.4
50282.7	10000	41.5003	93.1686	-57	QK	2.3	0	6.3	-1	1.1	0	0.364	0	2.094	0	5.747	-1	1884	34	2.4
50282.8	10000	41.5009	93.1686	-57	QK	2.5	0	6.4	-1	1.1	0	0.384	0	2.188	0	5.697	-1	1921	35	2.4
50282.9	10000	41.5016	93.1685	-58	QK	2.8	1	6.8	-1	1.2	0	0.410	1	2.409	0	5.869	-1	1952	40	2.4
50283.0	10000	41.5022	93.1685	-60	QK	3.0	1	7.1	0	1.2	0	0.428	1	2.589	1	6.050	-1	2017	22	2.4
50283.1	10000	41.5028	93.1685	-61	QAL	3.1	1	7.4	1	1.2	1	0.416	0	2.588	1	6.225	0	2069	37	2.4
50283.2	10000	41.5035	93.1685	-63	QAL	3.4	2	7.3	1	1.2	1	0.458	1	2.741	1	5.979	0	2112	40	2.4
50283.3	10000	41.5041	93.1685	-64	QAL	3.5	2	8.0	1	1.2	1	0.437	1	2.891	1	6.618	1	2151	51	2.4
50283.4	10000	41.5047	93.1684	-67	QAL	3.4	2	7.7	1	1.2	1	0.447	1	2.797	1	6.253	0	2188	47	2.4
50283.5	10000	41.5053	93.1684	-69	QAL	3.5	2	7.6	1	1.2	1	0.465	1	2.886	1	6.205	0	2200	45	2.4
50283.6	10000	41.5060	93.1684	-72	QAL	3.4	2	7.7	1	1.2	1	0.442	1	2.909	1	6.586	1	2199	55	2.4
50283.7	10000	41.5066	93.1684	-75	QAL	3.2	1	7.6	1	1.2	1	0.418	0	2.717	1	6.494	0	2178	51	2.4
50283.8	10000	41.5072	93.1683	-77	QAL	3.1	1	7.5	1	1.2	1	0.420	0	2.618	1	6.241	0	2146	41	2.4
50283.9	10000	41.5079	93.1683	-80	QAL	3.0	1	7.5	1	1.1	0	0.402	0	2.656	1	6.616	1	2138	49	2.4
50284.0	10000	41.5085	93.1683	-84	QAL	3.3	2	7.2	1	1.1	0	0.458	1	2.949	1	6.440	0	2131	35	2.4
50284.1	10000	41.5091	93.1683	-87	QAL	3.4	2	7.3	1	1.1	0	0.464	1	3.062	1	6.604	1	2119	44	2.4
50284.2	10000	41.5097	93.1683	-90	QAL	2.9	1	7.3	1	1.2	0	0.402	0	2.596	1	6.464	0	2111	48	2.4
50284.3	10000	41.5102	93.1683	-93	QAL	2.8	1	7.3	1	1.2	1	0.383	0	2.359	0	6.165	0	2117	51	2.4
50284.4	10000	41.5108	93.1683	-96	QAL	2.8	1	7.4	1	1.2	1	0.371	0	2.261	0	6.097	0	2142	40	2.4
50284.5	10000	41.5114	93.1683	-99	QAL	2.8	1	7.7	1	1.2	1	0.365	0	2.324	0	6.366	0	2167	36	2.4
50284.6	10000	41.5120	93.1683	-103	QK	2.6	0	8.0	1	1.3	2	0.330	0	2.075	0	6.291	0	2181	44	2.4
50284.7	10000	41.5126	93.1683	-106	QK	2.2	-1	7.6	0	1.3	2	0.288	-1	1.659	-1	5.768	-1	2171	55	2.4
50284.8	10000	41.5131	93.1683	-109	QK	2.3	-1	7.3	0	1.3	2	0.314	-1	1.740	-1	5.547	-1	2156	37	2.4
50284.9	10000	41.5137	93.1683	-112	QK	2.5	0	7.2	0	1.3	1	0.350	-1	1.948	-1	5.563	-1	2157	35	2.4
50285.0	10000	41.5143	93.1683	-115	QK	2.6	0	7.1	0	1.3	1	0.372	0	2.046	0	5.493	-1	2133	36	2.4
50285.1	10000	41.5149	93.1683	-118	QK	2.8	1	7.0	0	1.3	1	0.398	0	2.197	0	5.517	-1	2109	46	2.4
50285.2	10000	41.5155	93.1683	-121	QK	2.8	1	6.7	-1	1.2	1	0.412	0	2.222	0	5.387	-2	2079	38	2.4
50285.3	10000	41.5161	93.1683	-124	QK	3.1	1	6.5	-1	1.2	1	0.467	1	2.557	1	5.471	-1	2063	39	2.4
50285.4	10000	41.5166	93.1683	-126	QK	3.1	1	7.0	0	1.1	1	0.448	1	2.774	1	6.190	0	2033	34	2.4
50285.5	10000	41.5172	93.1683	-129	QK	2.8	1	7.5	0	1.1	1	0.369	0	2.513	1	6.809	1	2021	32	2.4
50285.6	10000	41.5178	93.1683	-132	QK	2.7	0	7.6	0	1.1	1	0.357	0	2.519	1	7.049	1	1991	39	2.4
50285.7	10000	41.5184	93.1683	-135	QK	2.5	0	7.6	0	1.1	1	0.334	-1	2.407	1	7.209	1	2000	42	2.4
50285.8	10000	41.5189	93.1683	-138	QK	2.5	0	7.4	1	1.0	1	0.339	-1	2.409	1	7.112	1	1996	51	2.4
50285.9	10000	41.5195	93.1683	-142	QK	2.3	-1	7.6	1	1.0	1	0.299	-1	2.216	1	7.418	1	1989	48	2.4
50286.0	10000	41.5201	93.1683	-146	QK	2.1	-1	7.6	1	1.0	1	0.281	-1	2.090	1	7.449	1	1985	38	2.4
50286.1	10000	41.5207	93.1683	-150	QK	2.1	-1	7.7	1	1.1	0	0.278	-1	1.974	-1	7.111	1	2013	34	2.3
50286.2	10000	41.5213	93.1683	-154	QK	2.3	-1	7.6	1	1.1	1	0.302	-1	2.043	0	6.758	0	2038	43	2.3
50286.3	10000	41.5219	93.1683	-158	QK	2.2	-1	8.0	1	1.2	1	0.280	-1	1.942	-1	6.928	1	2070	51	2.3
50286.4	10000	41.5224	93.1683	-163	QK	2.4	0	8.0	1	1.2	1	0.307	-1	2.052	0	6.689	0	2079	43	2.3
50286.5	10000	41.5230	93.1683	-168	QK	2.4	0	8.1	1	1.2	1	0.297	-1	2.007	-1	6.749	0	2084	36	2.3
50286.6	10000	41.5236	93.1684	-174	QK	2.7	0	8.1	1	1.2	1	0.331	0	2.243	0	6.785	0	2094	32	2.3
50286.7	10000	41.5242	93.1684	-178	QK	2.7	0	8.2	1	1.2	1	0.337	0	2.259	0	6.708	0	2120	35	2.3
50286.8	10000	41.5247	93.1684	-182	QK	2.9	1	8.3	1	1.2	1	0.349	0	2.388	0	6.834	0	2135	47	2.3
50286.9	10000	41.5253	93.1684	-186	QK	2.7	0	8.3	1	1.2	1	0.325	0	2.195	0	6.744	0	2131	45	2.3
50287.0	10000	41.5259	93.1684	-191	QK	2.7	0	8.3	2	1.2	1	0.319	0	2.177	0	6.822	0	2123	47	2.3
50287.1	10000	41.5265	93.1684	-196	QK	2.5	0	8.5	2	1.2	1	0.299	-1	2.090	0	6.987	1	2123	46	2.3

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50287.2	10000	41.5271	93.1684	-201	QK	2.4	0	8.7	2	1.2	1	0.282	-1	1.989	-1	7.039	1	2128	41	2.3
50287.3	10000	41.5276	93.1684	-207	QK	2.4	0	8.4	2	1.2	1	0.284	-1	1.960	-1	6.891	1	2127	40	2.3
50287.4	10000	41.5282	93.1684	-212	QK	2.4	0	8.4	2	1.2	1	0.281	-1	1.918	-1	6.837	1	2118	52	2.3
50287.5	10000	41.5288	93.1684	-217	QK	2.4	0	8.3	1	1.2	1	0.294	-1	1.974	-1	6.708	0	2112	42	2.3
50287.6	10000	41.5294	93.1684	-222	QK	2.5	0	8.2	1	1.2	1	0.310	-1	2.130	0	6.877	1	2101	43	2.2
50287.7	10000	41.5300	93.1684	-228	QK	2.7	0	8.0	1	1.2	1	0.330	0	2.232	0	6.756	0	2095	36	2.2
50287.8	10000	41.5305	93.1684	-233	QK	2.6	0	8.1	1	1.2	1	0.323	0	2.177	0	6.734	0	2093	40	2.2
50287.9	10000	41.5311	93.1684	-239	QK	2.5	0	8.1	1	1.2	1	0.311	-1	2.054	0	6.594	0	2097	36	2.2
50288.0	10000	41.5317	93.1684	-244	QK	2.5	0	8.2	1	1.3	1	0.303	-1	1.960	-1	6.474	0	2097	53	2.2
50288.1	10000	41.5323	93.1684	-250	QK	2.2	-1	8.4	2	1.3	1	0.260	-1	1.703	-1	6.555	0	2096	33	2.2
50288.2	10000	41.5329	93.1684	-256	QK	2.2	-1	8.4	1	1.3	1	0.260	-1	1.691	-1	6.517	0	2089	44	2.2
50288.3	10000	41.5334	93.1684	-261	QK	2.3	-1	8.3	1	1.3	2	0.272	-1	1.669	-1	6.143	0	2112	35	2.2
50288.4	10000	41.5340	93.1684	-267	QK	2.1	-1	8.2	1	1.3	2	0.255	-1	1.560	-1	6.126	-1	2121	51	2.2
50288.5	10000	41.5346	93.1684	-273	QK	2.2	-1	7.9	1	1.3	2	0.276	-1	1.634	-1	5.912	-1	2120	49	2.2
50288.6	10000	41.5352	93.1684	-279	QK	2.3	0	8.0	1	1.3	2	0.287	-1	1.741	-1	6.058	-1	2126	57	2.1
50288.7	10000	41.5358	93.1684	-285	QK	2.6	0	7.7	1	1.3	1	0.344	0	2.092	0	6.075	-1	2142	37	2.1
50288.8	10000	41.5364	93.1684	-291	QK	3.1	1	7.6	1	1.2	1	0.406	1	2.506	1	6.176	0	2136	49	2.1
50288.9	10000	41.5369	93.1684	-298	QK	3.1	1	7.4	0	1.2	1	0.410	1	2.577	1	6.279	0	2132	47	2.1
50289.0	10000	41.5375	93.1684	-305	QK	2.9	1	7.6	1	1.1	0	0.381	0	2.612	1	6.851	1	2108	38	2.1
50289.1	10000	41.5381	93.1684	-311	QK	3.0	1	7.4	0	1.2	1	0.411	1	2.562	1	6.240	0	2086	37	2.1
50289.2	10000	41.5387	93.1684	-317	QK	3.1	1	7.8	1	1.1	0	0.396	1	2.742	1	6.923	1	2088	50	2.1
50289.3	10000	41.5393	93.1684	-322	QK	3.2	1	7.7	1	1.1	0	0.423	1	3.002	2	7.098	1	2078	48	2.1
50289.4	10000	41.5398	93.1684	-329	QK	2.8	1	8.1	1	1.1	0	0.345	0	2.571	1	7.443	1	2062	51	2.1
50289.5	10000	41.5404	93.1684	-334	QK	2.5	1	8.3	1	1.1	0	0.306	-1	2.271	0	7.412	1	2072	45	2.0
50289.6	10000	41.5410	93.1684	-341	QK	2.7	1	8.1	1	1.1	0	0.304	-1	2.237	0	7.358	1	2062	44	2.0
50289.7	10000	41.5416	93.1684	-347	QK	2.9	1	8.0	1	1.1	0	0.339	0	2.408	0	7.100	1	2061	43	2.0
50289.8	10000	41.5422	93.1684	-354	QK	2.7	0	7.9	1	1.0	-1	0.358	0	2.783	1	7.771	2	2066	39	2.0
50289.9	10000	41.5427	93.1684	-361	QK	2.8	1	7.5	1	1.0	-1	0.341	0	2.629	1	7.700	2	2052	56	2.0
50290.0	10000	41.5433	93.1684	-367	QK	3.2	1	7.5	1	1.0	-1	0.378	0	2.775	1	7.339	1	2051	41	2.0
50290.1	10000	41.5439	93.1684	-373	QK	3.2	1	7.3	0	1.0	-1	0.434	1	3.230	2	7.438	1	2060	41	2.0
50290.2	10000	41.5445	93.1684	-380	QK	3.5	2	7.1	0	1.0	-1	0.490	2	3.621	3	7.397	1	2051	36	2.0
50290.3	10000	41.5451	93.1684	-387	QK	3.4	2	7.4	1	1.0	-1	0.463	2	3.468	3	7.498	1	2070	28	2.0
50290.4	10000	41.5456	93.1684	-394	QK	3.4	2	7.2	1	1.0	-1	0.479	2	3.579	3	7.466	1	2076	37	2.0
50290.5	10000	41.5462	93.1684	-401	QK	3.3	2	7.3	1	1.1	-1	0.462	2	3.155	3	6.827	0	2081	38	1.9
50290.6	10000	41.5468	93.1684	-408	QK	3.2	2	7.3	1	1.1	0	0.445	1	2.956	2	6.640	0	2101	26	1.9
50290.7	10000	41.5474	93.1684	-414	QK	3.2	1	7.5	1	1.2	0	0.425	1	2.715	2	6.391	0	2102	38	1.9
50290.8	10000	41.5480	93.1684	-421	QK	2.9	1	7.5	1	1.2	0	0.387	1	2.371	2	6.121	-1	2103	51	1.9
50290.9	10000	41.5485	93.1684	-428	QK	2.8	1	7.4	1	1.3	0	0.379	1	2.249	2	5.929	-1	2103	48	1.9
50291.0	10000	41.5491	93.1684	-434	QK	2.6	1	7.3	1	1.3	0	0.387	1	2.210	2	5.716	-1	2099	46	1.9
50291.1	10000	41.5497	93.1685	-440	QK	2.5	0	7.4	1	1.3	0	0.351	1	2.003	1	5.710	-1	2094	43	1.9
50291.2	10000	41.5503	93.1685	-446	QK	2.5	0	7.3	1	1.3	0	0.349	1	2.003	1	5.746	-1	2108	36	1.9
50291.3	10000	41.5509	93.1685	-452	QK	2.6	0	7.1	1	1.3	0	0.420	1	2.357	2	5.608	-1	2104	44	1.9
50291.4	10000	41.5514	93.1685	-459	QK	2.8	1	7.6	1	1.3	0	0.400	1	2.490	2	6.230	0	2120	42	1.9
50291.5	10000	41.5520	93.1685	-467	QK	2.9	1	7.6	1	1.3	0	0.402	1	2.482	2	6.181	0	2120	51	1.9
50291.6	10000	41.5526	93.1685	-475	QK	3.3	2	7.5	1	1.3	0	0.435	1	2.625	2	6.035	-1	2121	41	1.9
50291.7	10000	41.5532	93.1685	-482	QK	3.4	2	7.7	1	1.3	0	0.440	1	2.758	2	6.267	0	2115	46	1.9
50291.8	10000	41.5538	93.1685	-489	QK	3.4	2	7.9	1	1.2	0	0.432	1	2.810	2	6.500	1	2128	43	1.9
50291.9	10000	41.5543	93.1685	-495	QK	3.3	2	8.3	1	1.2	0	0.394	1	2.765	2	7.016	1	2128	28	1.9
50292.0	10000	41.5549	93.1685	-501	QK	3.1	2	8.2	1	1.2	0	0.377	1	2.598	2	6.896	1	2113	43	1.9
50292.1	10000	41.5555	93.1685	-508	QK	3.0	2	7.8	1	1.2	0	0.402	1	2.577	2	6.414	1	2104	33	1.9
50292.2	10000	41.5561	93.1685	-515	QK	3.0	2	7.5	1	1.2	0	0.487	1	3.039	2	6.241	1	2113	40	1.8
50292.3	10000	41.5567	93.1685	-522	QK	3.5	2	7.4	1	1.2	1	0.476	2	2.952	1	6.196	0	2111	43	1.8

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50292.4	10000	41.5573	93.1685	-529	QK	3.2	1	7.4	0	1.2	1	0.430	1	2.582	1	5.998	-1	2118	45	1.8
50292.5	10000	41.5578	93.1685	-536	QK	3.0	1	6.9	0	1.2	1	0.438	1	2.469	0	5.640	-1	2112	32	1.8
50292.6	10000	41.5584	93.1685	-543	QK	3.2	1	6.6	-1	1.2	1	0.487	2	2.606	1	5.347	-2	2109	40	1.8
50292.7	10000	41.5590	93.1685	-549	QK	3.2	2	6.7	-1	1.2	1	0.487	2	2.693	1	5.535	-1	2115	35	1.8
50292.8	10000	41.5596	93.1685	-555	QK	3.1	1	7.1	0	1.2	0	0.443	1	2.668	1	6.029	-1	2113	49	1.8
50292.9	10000	41.5601	93.1685	-561	QK	2.9	1	7.6	1	1.2	1	0.382	0	2.432	0	6.364	0	2108	48	1.8
50293.0	10000	41.5607	93.1685	-567	QK	2.8	1	8.0	1	1.2	0	0.355	0	2.457	0	6.917	1	2108	45	1.8
50293.1	10000	41.5613	93.1685	-573	QK	3.2	1	7.9	1	1.1	0	0.402	1	2.842	1	7.062	1	2098	49	1.8
50293.2	10000	41.5619	93.1685	-579	QK	3.4	2	8.4	2	1.1	0	0.404	1	2.988	2	7.393	1	2104	45	1.8
50293.3	10000	41.5625	93.1685	-584	QK	3.4	2	8.6	2	1.1	0	0.389	1	2.920	1	7.497	1	2097	44	1.8
50293.4	10000	41.5630	93.1685	-588	QK	3.2	1	8.7	2	1.2	1	0.363	1	2.684	1	7.396	1	2102	42	1.8
50293.5	10000	41.5636	93.1685	-593	QK	2.9	1	8.7	2	1.2	1	0.333	1	2.452	1	7.360	1	2065	44	1.8
50293.6	10000	41.5642	93.1685	-597	QK	2.8	1	8.2	1	1.3	1	0.341	1	2.240	0	6.569	0	2048	41	1.8
50293.7	10000	41.5648	93.1685	-599	QK	2.7	0	7.9	1	1.3	1	0.344	0	2.128	0	6.181	0	2048	26	1.8
50293.8	10000	41.5654	93.1685	-601	QK	2.5	0	7.7	1	1.3	1	0.325	0	1.970	-1	6.068	-1	2043	37	1.8
50293.9	10000	41.5659	93.1685	-606	QK	2.6	0	7.3	1	1.2	1	0.352	0	2.054	0	5.831	-1	2042	39	1.8
50294.0	10000	41.5665	93.1685	-610	QK	2.3	0	7.1	1	1.2	1	0.332	0	1.895	-1	5.716	-1	2030	39	1.8
50294.1	10000	41.5671	93.1685	-613	QK	2.6	0	7.1	1	1.3	1	0.371	0	2.112	0	5.696	-1	2021	33	1.8
50294.2	10000	41.5677	93.1685	-616	QK	2.7	0	7.2	1	1.3	2	0.380	0	2.087	0	5.493	-1	2063	34	1.8
50294.3	10000	41.5683	93.1685	-619	QK	2.5	0	7.4	1	1.3	1	0.338	0	1.959	-1	5.788	-1	2078	35	1.8
50294.4	10000	41.5688	93.1685	-621	QK	2.7	0	7.6	1	1.3	1	0.352	0	2.145	0	6.091	-1	2083	48	1.8
50294.5	10000	41.5694	93.1685	-624	QK	2.8	1	7.7	1	1.3	1	0.365	0	2.190	0	6.007	-1	2074	54	1.8
50294.6	10000	41.5700	93.1685	-626	QK	2.8	1	7.7	1	1.3	1	0.363	0	2.208	0	6.088	-1	2062	56	1.8
50294.7	10000	41.5706	93.1685	-628	QK	2.9	1	7.9	1	1.3	1	0.368	0	2.267	0	6.166	0	2059	33	1.8
50294.8	10000	41.5712	93.1685	-630	QK	2.5	0	7.8	1	1.3	1	0.319	0	1.986	-1	6.223	0	2055	46	1.8
50294.9	10000	41.5717	93.1685	-633	QK	2.4	0	7.4	1	1.2	1	0.323	0	1.934	-1	5.992	-1	2016	43	1.8
50295.0	10000	41.5723	93.1685	-635	QK	2.3	-1	7.6	1	1.3	1	0.298	-1	1.770	-1	5.942	-1	2007	41	1.8
50295.1	10000	41.5729	93.1685	-638	QK	2.0	-1	7.2	1	1.3	1	0.284	-1	1.584	-1	5.578	-1	1979	38	1.8
50295.2	10000	41.5735	93.1685	-642	QK	2.0	-1	7.4	1	1.3	1	0.273	-1	1.597	-1	5.841	-1	1988	34	1.8
50295.3	10000	41.5741	93.1685	-645	QK	1.9	-1	7.4	1	1.3	1	0.256	-1	1.502	-2	5.865	-1	1983	51	1.8
50295.4	10000	41.5746	93.1685	-648	QK	1.8	-1	7.2	1	1.3	1	0.258	-1	1.452	-2	5.637	-1	1983	42	1.8
50295.5	10000	41.5752	93.1685	-651	QK	1.9	-1	7.2	1	1.3	1	0.258	-1	1.463	-2	5.667	-1	1977	48	1.8
50295.6	10000	41.5758	93.1686	-655	QK	1.9	-1	7.5	1	1.2	1	0.250	-1	1.490	-2	5.970	-1	1993	43	1.8
50295.7	10000	41.5764	93.1686	-659	QK	2.0	-1	7.5	1	1.2	1	0.260	-1	1.643	-1	6.312	0	1988	44	1.8
50295.8	10000	41.5770	93.1686	-663	QK	2.0	-1	7.6	1	1.2	1	0.266	-1	1.697	-1	6.373	0	1998	42	1.9
50295.9	10000	41.5776	93.1686	-667	QK	2.0	-1	7.5	1	1.2	1	0.272	-1	1.710	-1	6.282	0	1992	40	1.9
50296.0	10000	41.5781	93.1686	-671	QK	1.9	-1	7.4	1	1.2	1	0.250	-1	1.527	-2	6.097	-1	1981	40	1.9
50296.1	10000	41.5787	93.1686	-676	QK	2.1	-1	7.6	1	1.3	1	0.280	-1	1.702	-1	6.073	-1	1996	41	1.9
50296.2	10000	41.5793	93.1686	-681	QK	2.3	-1	7.6	1	1.3	1	0.300	-1	1.784	-1	5.955	-1	2014	43	1.9
50296.3	10000	41.5799	93.1686	-686	QK	2.5	0	7.5	1	1.3	1	0.336	0	1.972	-1	5.875	-1	2016	47	1.9
50296.4	10000	41.5805	93.1686	-692	QK	2.7	0	7.6	1	1.3	1	0.349	0	2.039	0	5.849	-1	2038	47	1.9
50296.5	10000	41.5811	93.1686	-698	QK	2.8	0	7.9	1	1.3	1	0.350	0	2.135	0	6.108	-1	2052	46	1.9
50296.6	10000	41.5817	93.1686	-704	QK	2.8	1	7.9	1	1.3	1	0.355	0	2.191	0	6.167	0	2073	39	1.9
50296.7	10000	41.5823	93.1686	-710	QK	3.0	1	8.3	2	1.3	1	0.356	0	2.262	0	6.348	0	2098	51	1.9
50296.8	10000	41.5829	93.1686	-716	QK	2.6	0	8.2	1	1.3	1	0.321	0	2.049	0	6.375	0	2095	42	1.9
50296.9	10000	41.5835	93.1686	-724	QK	2.8	0	8.0	1	1.3	1	0.349	0	2.199	0	6.295	0	2082	57	1.9
50297.0	10000	41.5841	93.1686	-731	QK	2.9	1	8.1	1	1.3	1	0.329	0	2.108	0	6.400	0	2075	36	1.9
50297.1	10000	41.5847	93.1686	-738	QK	2.9	0	7.9	1	1.3	1	0.370	0	2.399	0	6.481	0	2066	52	1.9
50297.2	10000	41.5854	93.1686	-745	QK	2.9	1	7.7	1	1.3	1	0.374	0	2.381	0	6.374	0	2061	37	1.9
50297.3	10000	41.5860	93.1686	-751	QK	2.8	0	7.6	1	1.3	1	0.364	0	2.275	0	6.256	0	2047	34	1.9
50297.4	10000	41.5866	93.1686	-758	QK	2.8	0	7.6	1	1.2	1	0.345	0	2.225	0	6.442	0	2031	41	1.9
50297.5	10000	41.5872	93.1686	-765	QK	2.8	0	8.0	1	1.1	0	0.343	0	2.457	0	7.155	1	2019	52	2.0

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50297.6	10000	41.5878	93.1686	-772	QK	2.7	0	8.2	1	1.1	0	0.327	0	2.486	0	7.608	2	2006	46	2.0
50297.7	10000	41.5884	93.1686	-779	QK	2.9	1	8.4	2	1.1	0	0.339	0	2.604	0	7.692	2	2013	40	2.0
50297.8	10000	41.5890	93.1686	-786	QK	2.5	0	8.1	1	1.1	0	0.309	-1	2.295	0	7.423	1	1991	42	2.0
50297.9	10000	41.5896	93.1686	-794	QK	2.4	0	8.4	2	1.1	0	0.292	-1	2.166	0	7.420	1	1989	39	2.0
50298.0	10000	41.5902	93.1686	-801	QK	2.4	0	8.0	1	1.1	0	0.294	-1	2.068	0	7.032	1	1978	47	2.0
50298.1	10000	41.5908	93.1686	-808	QK	2.5	0	7.9	1	1.1	0	0.321	0	2.237	0	6.967	1	1973	38	2.0
50298.2	10000	41.5915	93.1686	-815	QK	2.5	0	7.6	1	1.2	0	0.329	0	2.179	0	6.628	0	1970	44	2.0
50298.3	10000	41.5921	93.1686	-823	QK	2.2	-1	7.7	1	1.2	1	0.290	-1	1.864	-1	6.437	0	1977	44	2.0
50298.4	10000	41.5927	93.1686	-831	QK	2.2	-1	7.2	1	1.2	0	0.305	-1	1.874	-1	6.148	0	1973	27	2.0
50298.5	10000	41.5933	93.1687	-839	QK	2.4	0	7.2	1	1.2	1	0.331	0	2.010	-1	6.080	-1	1983	40	2.0
50298.6	10000	41.5939	93.1687	-848	QK	2.3	0	6.9	1	1.2	1	0.338	0	1.948	-1	5.758	-1	1991	40	2.0
50298.7	10000	41.5945	93.1687	-856	QK	2.7	0	7.3	1	1.2	1	0.365	0	2.236	0	6.130	-1	2014	48	2.0
50298.8	10000	41.5951	93.1687	-864	QK	2.6	0	7.3	1	1.2	0	0.355	0	2.230	0	6.289	0	2030	45	2.0
50298.9	10000	41.5957	93.1687	-872	QK	2.6	0	7.4	1	1.1	0	0.356	0	2.317	0	6.508	0	2057	35	2.0
50299.0	10000	41.5963	93.1687	-880	QK	2.8	1	7.5	0	1.1	0	0.381	0	2.579	1	6.768	0	2061	47	2.0
50299.1	10000	41.5969	93.1687	-889	QK	2.8	1	7.8	1	1.1	0	0.357	0	2.462	0	6.892	1	2075	21	2.0
50299.2	10000	41.5975	93.1687	-897	QK	2.6	0	7.8	1	1.1	0	0.329	0	2.325	0	7.059	1	2079	41	2.0
50299.3	10000	41.5982	93.1687	-905	QK	2.5	0	7.8	1	1.1	0	0.321	0	2.335	0	7.283	1	2078	35	2.0
50299.4	10000	41.5988	93.1687	-912	QK	2.2	-1	8.4	2	1.1	0	0.266	-1	2.109	0	7.865	2	2076	55	2.0
50299.5	10000	41.5994	93.1687	-920	QK	2.5	0	8.3	1	1.1	0	0.297	-1	2.305	0	7.753	2	2082	47	2.0
50299.6	10000	41.6000	93.1687	-927	QK	2.5	0	8.4	2	1.1	0	0.291	-1	2.273	0	7.799	2	2077	42	2.0
50299.7	10000	41.6006	93.1687	-934	QK	2.4	0	8.1	1	1.1	0	0.292	-1	2.138	0	7.323	1	2093	40	2.0
50299.8	10000	41.6012	93.1687	-941	QK	2.6	0	8.0	1	1.1	0	0.326	0	2.367	0	7.256	1	2099	50	2.0
50299.9	10000	41.6018	93.1687	-949	QK	2.6	0	8.7	2	1.1	0	0.298	-1	2.263	0	7.603	2	2125	44	2.0
50300.0	10000	41.6024	93.1687	-956	QK	2.6	0	8.9	2	1.1	0	0.289	-1	2.254	0	7.789	2	2125	44	2.0
50300.1	10000	41.6030	93.1687	-963	QK	2.5	0	8.6	2	1.1	0	0.288	-1	2.119	0	7.355	2	2126	40	2.0
50300.2	10000	41.6036	93.1687	-969	QK	2.5	0	8.4	2	1.2	0	0.305	-1	2.120	0	6.957	1	2122	45	2.0
50300.3	10000	41.6042	93.1687	-976	QK	2.7	0	8.1	2	1.2	0	0.337	-1	2.181	0	6.467	1	2116	36	2.0
50300.4	10000	41.6049	93.1687	-983	QK	2.6	0	8.2	2	1.2	0	0.320	-1	2.056	0	6.420	1	2127	45	2.0
50300.5	10000	41.6055	93.1687	-989	QK	2.5	0	8.2	2	1.2	0	0.310	-1	2.028	0	6.534	1	2117	44	2.0
50300.6	10000	41.6061	93.1687	-995	QK	2.9	0	8.0	2	1.3	0	0.357	-1	2.267	0	6.343	1	2104	46	2.0
50300.7	10000	41.6067	93.1687	-1000	QK	2.9	0	7.7	1	1.3	0	0.381	-1	2.301	0	6.044	1	2106	42	2.0
50300.8	10000	41.6073	93.1687	-1006	QK	2.9	0	7.3	1	1.3	0	0.405	-1	2.346	0	5.795	1	2096	48	2.0
50300.9	10000	41.6079	93.1687	-1012	QK	2.6	0	7.4	1	1.3	0	0.357	-1	2.071	0	5.804	1	2092	38	2.0
50301.0	10000	41.6085	93.1687	-1017	QK	2.5	0	7.3	1	1.3	0	0.343	-1	1.934	0	5.638	1	2089	55	2.0
50301.1	10000	41.6091	93.1687	-1023	QK	2.6	0	7.0	1	1.3	0	0.375	-1	2.121	0	5.659	1	2080	38	2.0
50301.2	10000	41.6097	93.1687	-1029	QK	2.5	0	7.0	1	1.3	0	0.363	-1	1.995	0	5.499	1	2083	44	2.0
50301.3	10000	41.6103	93.1687	-1034	QK	2.5	0	7.0	2	1.3	0	0.355	-1	1.959	0	5.520	1	2088	40	2.0
50301.4	10000	41.6109	93.1687	-1039	QK	2.3	0	7.2	2	1.3	0	0.324	-1	1.820	0	5.622	1	2092	59	2.0
50301.5	10000	41.6116	93.1688	-1044	QK	2.6	0	7.2	2	1.3	0	0.369	-1	2.106	0	5.709	1	2103	36	2.0
50301.6	10000	41.6122	93.1688	-1049	QK	2.9	1	7.2	2	1.3	0	0.400	-1	2.318	0	5.798	1	2099	35	2.0
50301.7	10000	41.6128	93.1688	-1055	QK	3.1	1	7.1	2	1.3	0	0.440	-1	2.555	0	5.812	1	2096	58	2.0
50301.8	10000	41.6134	93.1688	-1057	QK	3.1	1	7.1	2	1.3	0	0.427	-1	2.397	0	5.612	1	2091	50	2.0
50301.9	10000	41.6140	93.1688	-1052	QK	3.1	1	7.6	2	1.3	0	0.414	-1	2.468	0	5.954	1	2091	46	2.0
50302.0	10000	41.6146	93.1688	-1049	QK	3.0	1	7.7	2	1.3	0	0.396	-1	2.434	0	6.147	1	2089	44	2.0
50302.1	10000	41.6152	93.1688	-1056	QK	3.4	1	7.8	2	1.3	0	0.432	-1	2.739	0	6.337	1	2089	53	2.0
50302.2	10000	41.6158	93.1688	-1066	QK	3.1	1	7.9	2	1.3	0	0.396	-1	2.604	0	6.569	1	2084	50	2.0
50302.3	10000	41.6164	93.1688	-1074	QK	3.0	1	7.9	2	1.3	0	0.390	-1	2.580	0	6.620	1	2095	53	2.0
50302.4	10000	41.6170	93.1688	-1082	QK	3.3	1	8.1	2	1.3	0	0.363	-1	2.495	0	6.867	1	2103	42	2.0
50302.5	10000	41.6176	93.1688	-1089	QK	3.5	1	8.3	2	1.3	0	0.398	-1	2.983	0	7.493	2	2110	49	2.0
50302.6	10000	41.6183	93.1688	-1096	QK	3.5	1	8.3	2	1.3	0	0.433	-1	3.135	0	7.239	2	2126	53	2.0
50302.7	10000	41.6189	93.1688	-1102	QK	3.6	1	7.7	2	1.1	0	0.471	2	3.208	0	6.812	2	2108	56	1.9

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50302.8	10000	41.6195	93.1688	-1109	QK	3.6	2	7.5	0	1.1	0	0.481	2	3.167	2	6.579	0	2093	46	1.9
50302.9	10000	41.6201	93.1688	-1114	QK	3.8	3	7.5	0	1.1	0	0.502	2	3.358	2	6.686	0	2091	44	1.9
50303.0	10000	41.6207	93.1688	-1120	QK	3.5	2	7.2	0	1.1	0	0.483	2	3.153	2	6.531	0	2066	38	1.9
50303.1	10000	41.6213	93.1688	-1126	QK	3.4	2	7.3	0	1.1	0	0.470	2	3.133	2	6.670	0	2073	47	1.9
50303.2	10000	41.6219	93.1688	-1131	QK	3.1	1	7.5	0	1.2	0	0.412	1	2.669	1	6.479	0	2072	44	1.9
50303.3	10000	41.6225	93.1688	-1136	QK	2.7	1	7.4	0	1.2	0	0.361	0	2.304	0	6.384	0	2056	51	1.9
50303.4	10000	41.6231	93.1688	-1141	QK	2.6	1	7.5	0	1.2	0	0.345	0	2.244	0	6.496	0	2068	43	1.9
50303.5	10000	41.6237	93.1688	-1146	QK	2.5	1	7.7	1	1.1	0	0.327	0	2.232	0	6.830	0	2064	46	1.8
50303.6	10000	41.6244	93.1688	-1150	QK	2.5	1	7.7	1	1.2	1	0.318	0	2.039	0	6.407	0	2081	45	1.8
50303.7	10000	41.6250	93.1688	-1154	QK	2.9	1	7.8	1	1.3	1	0.373	0	2.288	0	6.135	0	2113	36	1.8
50303.8	10000	41.6256	93.1688	-1158	QK	2.9	1	7.5	1	1.3	1	0.387	0	2.246	0	5.803	-1	2109	47	1.8
50303.9	10000	41.6262	93.1688	-1162	QK	2.9	1	7.2	1	1.3	1	0.406	1	2.335	0	5.748	-1	2108	34	1.8
50304.0	10000	41.6268	93.1688	-1166	QK	3.0	1	7.5	1	1.3	1	0.395	1	2.354	0	5.959	-1	2114	47	1.8
50304.1	10000	41.6274	93.1688	-1170	QK	3.0	1	8.2	1	1.3	1	0.364	0	2.340	0	6.425	0	2128	30	1.8
50304.2	10000	41.6280	93.1689	-1173	QK	2.9	1	8.4	2	1.3	2	0.341	0	2.200	0	6.454	0	2137	41	1.8
50304.3	10000	41.6286	93.1689	-1177	QK	2.7	1	8.6	2	1.3	2	0.317	0	2.107	0	6.640	0	2123	42	1.8
50304.4	10000	41.6292	93.1689	-1180	QK	2.4	1	9.1	3	1.3	3	0.266	-1	1.928	-1	7.251	1	2108	44	1.8
50304.5	10000	41.6298	93.1689	-1183	QK	2.3	1	9.6	3	1.3	3	0.238	-2	1.831	-1	7.683	2	2101	41	1.8
51797.2	10000	41.6302	93.1683	-1152	QK	2.5	1	6.1	1	1.2	1	0.416	1	2.110	0	5.074	-2	1825	41	1.2
51797.3	10000	41.6308	93.1683	-1156	QK	2.5	1	6.3	1	1.2	1	0.390	1	2.052	0	5.255	-2	1826	50	1.2
51797.4	10000	41.6314	93.1683	-1159	QK	2.5	1	6.5	1	1.2	1	0.381	0	2.013	-1	5.287	-2	1841	40	1.2
51797.5	10000	41.6321	93.1682	-1163	QK	2.6	1	6.5	1	1.2	1	0.400	1	2.123	0	5.311	-2	1840	42	1.2
51797.6	10000	41.6327	93.1682	-1166	QK	2.4	1	6.6	1	1.2	1	0.365	0	1.949	-1	5.335	-2	1832	42	1.2
51797.7	10000	41.6333	93.1682	-1168	QK	2.5	1	6.9	1	1.2	1	0.359	0	2.028	-1	5.653	-1	1838	42	1.2
51797.8	10000	41.6339	93.1682	-1171	QK	2.5	1	7.4	1	1.3	1	0.337	0	1.967	-1	5.843	-1	1856	53	1.2
51797.9	10000	41.6346	93.1682	-1173	QK	2.4	1	7.7	1	1.3	1	0.313	-1	1.862	-1	5.951	-1	1856	48	1.2
51798.0	10000	41.6352	93.1682	-1175	QK	2.6	1	7.5	1	1.3	2	0.340	0	1.923	-1	5.663	-1	1864	52	1.2
51798.1	10000	41.6358	93.1682	-1176	QK	2.7	1	7.4	1	1.3	2	0.360	0	2.076	-1	5.759	-1	1854	39	1.2
51798.2	10000	41.6365	93.1682	-1177	QK	2.6	1	7.9	1	1.3	2	0.336	0	2.007	-1	5.977	-1	1861	38	1.2
51798.3	10000	41.6371	93.1681	-1177	QK	2.8	1	7.9	1	1.3	2	0.350	0	2.160	0	6.170	0	1874	44	1.2
51798.4	10000	41.6377	93.1681	-1177	QK	2.8	1	7.5	1	1.3	2	0.375	0	2.282	0	6.088	-1	1867	48	1.2
51798.5	10000	41.6384	93.1681	-1177	QK	3.0	1	7.3	1	1.3	2	0.404	0	2.362	0	5.839	-1	1855	50	1.1
51798.6	10000	41.6390	93.1681	-1178	QK	3.1	1	7.0	1	1.3	2	0.438	0	2.376	0	5.420	-2	1855	50	1.1
51798.7	10000	41.6396	93.1681	-1179	QK	2.8	1	7.3	1	1.3	2	0.388	0	2.189	0	5.639	-1	1848	33	1.1
51798.8	10000	41.6402	93.1681	-1180	QK	2.8	1	7.4	1	1.3	2	0.373	0	2.175	0	5.826	-1	1832	56	1.1
51798.9	10000	41.6409	93.1680	-1179	QK	2.6	1	7.0	1	1.3	2	0.374	0	2.060	0	5.504	-1	1819	38	1.1
51799.0	10000	41.6415	93.1680	-1180	QK	2.6	1	7.5	1	1.3	2	0.345	-1	1.957	-1	5.677	-1	1817	55	1.1
51799.1	10000	41.6421	93.1680	-1180	QK	2.4	1	7.7	1	1.4	2	0.310	-1	1.737	-1	5.605	-1	1827	49	1.1
51799.2	10000	41.6427	93.1680	-1179	QK	2.2	1	7.5	1	1.4	2	0.297	-1	1.622	-1	5.470	-1	1822	42	1.1
51799.3	10000	41.6434	93.1680	-1179	QK	2.3	1	8.2	2	1.4	3	0.286	-1	1.731	-1	6.049	-1	1820	47	1.1
51799.4	10000	41.6440	93.1680	-1178	QK	2.4	1	7.7	1	1.3	2	0.318	-1	1.886	-1	5.938	-1	1809	36	1.1
51799.5	10000	41.6446	93.1680	-1176	QK	2.5	1	7.7	1	1.3	2	0.325	-1	1.917	-1	5.895	-1	1809	36	1.1
51799.6	10000	41.6452	93.1680	-1173	QK	2.6	1	7.8	1	1.3	2	0.334	0	2.100	0	6.292	0	1814	33	1.1
51799.7	10000	41.6459	93.1679	-1174	QK	2.7	1	7.4	1	1.3	2	0.373	0	2.288	0	6.132	-1	1810	55	1.1
51799.8	10000	41.6465	93.1679	-1177	QK	2.8	1	7.4	1	1.3	2	0.383	0	2.345	0	6.124	-1	1808	35	1.1
51799.9	10000	41.6471	93.1679	-1176	QL	2.8	1	7.4	1	1.3	2	0.370	0	2.286	0	6.180	0	1808	37	1.1
51800.0	10000	41.6478	93.1679	-1174	QL	2.7	1	7.2	1	1.3	2	0.377	0	2.288	0	6.075	0	1810	32	1.1
51800.1	10000	41.6484	93.1679	-1172	QL	2.7	1	7.6	1	1.3	2	0.358	0	2.309	0	6.456	0	1799	42	1.1
51800.2	10000	41.6490	93.1679	-1170	QL	2.7	1	7.5	1	1.3	2	0.354	0	2.242	0	6.336	0	1791	46	1.1
51800.3	10000	41.6497	93.1679	-1169	QL	2.8	1	7.3	1	1.3	2	0.383	0	2.383	0	6.279	0	1767	38	1.1
51800.4	10000	41.6503	93.1678	-1167	QL	2.8	1	7.1	1	1.3	2	0.398	1	2.499	0	6.462	0	1737	35	1.1
51800.5	10000	41.6509	93.1678	-1166	QL	2.8	1	7.1	1	1.1	2	0.398	1	2.561	1	6.432	0	1718	41	1.1

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51800.6	10000	41.6515	93.1678	-1164	QL	3.0	1	7.1	0	1.1	-1	0.423	1	2.760	1	6.523	1	1710	46	1.1
51800.7	10000	41.6522	93.1678	-1163	QAL	2.9	1	6.7	0	1.1	0	0.438	1	2.774	1	6.327	0	1685	50	1.1
51800.8	10000	41.6528	93.1678	-1161	QAL	3.0	1	6.5	0	1.1	0	0.455	1	2.705	1	5.949	0	1698	51	1.1
51800.9	10000	41.6534	93.1678	-1159	QAL	2.9	1	6.4	0	1.1	0	0.454	1	2.698	1	5.944	0	1700	48	1.1
51801.0	10000	41.6540	93.1678	-1158	QAL	2.6	1	6.6	0	1.1	0	0.392	1	2.292	0	5.842	0	1718	52	1.1
51801.1	10000	41.6547	93.1677	-1156	QAL	2.7	0	6.7	0	1.2	1	0.395	0	2.190	0	5.543	-1	1748	41	1.1
51801.2	10000	41.6553	93.1677	-1154	QAL	2.5	0	6.8	0	1.2	1	0.374	0	2.096	0	5.598	-1	1752	52	1.1
51801.3	10000	41.6559	93.1677	-1152	QAL	2.5	0	7.4	1	1.2	1	0.341	0	2.100	0	6.164	0	1756	49	1.1
51801.4	10000	41.6566	93.1677	-1150	QAL	2.6	0	7.6	1	1.2	1	0.341	0	2.117	0	6.209	0	1775	48	1.1
51801.5	10000	41.6572	93.1677	-1149	QAL	2.8	1	7.3	1	1.2	1	0.384	0	2.347	0	6.110	0	1777	42	1.1
51801.6	10000	41.6578	93.1677	-1147	QAL	3.0	1	7.2	1	1.2	1	0.418	0	2.497	0	5.972	0	1788	46	1.1
51801.7	10000	41.6584	93.1677	-1145	QAL	3.2	1	7.0	1	1.2	1	0.459	0	2.721	0	5.934	0	1784	45	1.1
51801.8	10000	41.6591	93.1676	-1142	QAL	3.2	1	7.0	1	1.1	1	0.455	1	2.790	1	6.132	0	1779	35	1.1
51801.9	10000	41.6597	93.1676	-1140	QAL	3.2	1	6.9	1	1.1	1	0.461	1	2.771	1	6.010	0	1775	44	1.1
51802.0	10000	41.6603	93.1676	-1139	QAL	3.1	1	6.3	1	1.2	1	0.489	1	2.786	1	5.694	-1	1761	41	1.1
51802.1	10000	41.6609	93.1676	-1137	QAL	3.0	1	6.4	1	1.2	1	0.473	1	2.611	1	5.524	-1	1757	53	1.1
51802.2	10000	41.6616	93.1676	-1135	QAL	3.0	1	6.5	1	1.2	1	0.471	1	2.584	0	5.490	-1	1744	43	1.1
51802.3	10000	41.6622	93.1676	-1134	QAL	2.8	1	6.7	1	1.2	1	0.413	0	2.335	0	5.659	-1	1747	38	1.1
51802.4	10000	41.6628	93.1676	-1132	QAL	2.7	1	7.0	1	1.2	1	0.392	0	2.375	0	6.064	0	1737	37	1.1
51802.5	10000	41.6635	93.1676	-1131	QAL	2.5	1	7.4	1	1.2	1	0.338	0	2.149	0	6.367	0	1732	46	1.1
51802.6	10000	41.6641	93.1675	-1129	QAL	2.6	1	7.4	1	1.1	1	0.349	0	2.291	0	6.561	1	1723	49	1.1
51802.7	10000	41.6647	93.1675	-1127	QAL	2.8	1	7.0	1	1.1	1	0.398	0	2.438	0	6.124	0	1734	43	1.1
51802.8	10000	41.6654	93.1675	-1125	QAL	2.9	1	6.8	1	1.1	0	0.431	0	2.712	1	6.286	0	1723	53	1.1
51802.9	10000	41.6660	93.1675	-1123	QAL	2.7	1	7.0	1	1.1	0	0.390	0	2.536	0	6.497	0	1723	43	1.1
51803.0	10000	41.6666	93.1675	-1121	QAL	2.7	1	6.9	1	1.0	0	0.394	0	2.628	1	6.677	1	1717	44	1.1
51803.1	10000	41.6672	93.1675	-1119	QAL	2.7	1	6.9	1	1.1	0	0.385	0	2.442	0	6.338	0	1734	49	1.1
51803.2	10000	41.6679	93.1674	-1118	QAL	2.6	1	6.4	1	1.1	0	0.408	0	2.409	0	5.906	0	1724	56	1.1
51803.3	10000	41.6685	93.1674	-1116	QAL	2.5	0	6.8	1	1.1	0	0.374	0	2.255	0	6.033	0	1732	39	1.1
51803.4	10000	41.6691	93.1674	-1115	QAL	2.4	0	7.3	1	1.1	0	0.325	-1	2.097	0	6.444	0	1725	47	1.1
51803.5	10000	41.6697	93.1674	-1114	QAL	2.4	0	7.2	1	1.2	1	0.329	-1	2.066	0	6.274	0	1728	60	1.1
51803.6	10000	41.6704	93.1674	-1111	QAL	2.2	0	7.1	1	1.1	0	0.313	-1	1.964	0	6.284	0	1711	45	1.1
51803.7	10000	41.6710	93.1674	-1109	QAL	2.4	0	6.8	1	1.2	1	0.356	0	2.059	0	5.791	0	1695	50	1.1
51803.8	10000	41.6716	93.1674	-1107	QAL	2.6	0	6.6	1	1.2	1	0.389	0	2.165	0	5.568	-1	1694	43	1.1
51803.9	10000	41.6722	93.1674	-1106	QAL	2.7	0	6.6	1	1.2	1	0.406	0	2.197	0	5.415	-1	1715	53	1.1
51804.0	10000	41.6729	93.1673	-1104	QAL	2.7	0	6.6	1	1.2	1	0.406	0	2.195	0	5.404	-1	1728	39	1.1
51804.1	10000	41.6735	93.1673	-1102	QAL	2.8	1	6.4	1	1.2	1	0.433	0	2.227	0	5.149	-1	1738	37	1.1
51804.2	10000	41.6741	93.1673	-1101	QAL	2.8	1	6.7	1	1.2	1	0.417	0	2.286	0	5.478	-1	1743	43	1.1
51804.3	10000	41.6748	93.1673	-1099	QAL	2.7	1	6.7	1	1.2	1	0.417	0	2.251	0	5.399	-1	1760	44	1.1
51804.4	10000	41.6754	93.1673	-1097	QAL	2.7	1	7.1	1	1.2	1	0.377	0	2.205	0	5.852	0	1764	46	1.1
51804.5	10000	41.6760	93.1673	-1095	QAL	2.4	1	7.3	1	1.2	1	0.330	-1	2.054	0	6.231	0	1743	46	1.1
51804.6	10000	41.6766	93.1673	-1094	QAL	2.3	1	7.4	1	1.1	1	0.313	-1	2.065	0	6.590	1	1723	35	1.1
51804.7	10000	41.6773	93.1673	-1092	QAL	2.4	1	7.2	1	1.1	1	0.330	-1	2.203	0	6.668	1	1682	43	1.1
51804.8	10000	41.6779	93.1672	-1090	QAL	2.3	1	7.0	1	1.1	0	0.324	-1	2.185	0	6.745	1	1647	44	1.1
51804.9	10000	41.6785	93.1672	-1089	QAL	2.1	1	6.6	1	1.0	0	0.321	-1	2.053	0	6.391	1	1602	36	1.1
51805.0	10000	41.6792	93.1672	-1087	QAL	2.1	1	6.5	1	1.0	0	0.330	-1	2.117	0	6.415	1	1557	51	1.1
51805.1	10000	41.6798	93.1672	-1085	QAL	2.2	1	6.4	1	1.0	0	0.353	-1	2.188	0	6.207	1	1502	49	1.1
51805.2	10000	41.6804	93.1672	-1083	QAL	2.1	1	6.1	1	1.0	0	0.413	-1	2.397	0	5.803	0	1436	44	1.1
51805.3	10000	41.6810	93.1672	-1082	QAL	1.9	1	5.5	1	0.9	0	0.408	-1	2.348	0	5.754	0	1370	44	1.1
51805.4	10000	41.6817	93.1671	-1080	QAL	1.9	1	5.0	1	0.9	0	0.385	-1	2.141	0	5.558	-1	1345	47	1.1
51805.5	10000	41.6823	93.1671	-1078	QAL	2.0	1	5.0	1	0.9	0	0.397	-1	2.151	0	5.417	-1	1322	51	1.1
51805.6	10000	41.6829	93.1671	-1077	QAL	2.0	1	4.8	1	0.9	0	0.391	-1	2.246	0	5.739	0	1320	41	1.1
51805.7	10000	41.6836	93.1671	-1075	QAL	2.0	1	5.2	1	0.8	0	0.390	-2	2.403	0	6.154	0	1330	50	1.1

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51805.8	10000	41.6842	93.1671	-1073	QAL	2.0	-1	5.1	-1	0.9	-1	0.383	0	2.153	0	5.616	-1	1349	35	1.1
51805.9	10000	41.6848	93.1671	-1071	QAL	1.8	-1	5.4	-1	0.9	-1	0.345	0	1.964	-1	5.700	-1	1391	50	1.1
51806.0	10000	41.6854	93.1671	-1070	QAL	1.9	-1	5.5	-1	1.0	-1	0.356	0	2.036	0	5.720	-1	1439	46	1.1
51806.1	10000	41.6861	93.1671	-1068	QAL	2.1	-1	5.7	-1	1.0	-1	0.373	0	2.225	0	5.973	0	1462	51	1.1
51806.2	10000	41.6867	93.1670	-1064	QAL	2.0	-1	5.9	-1	1.0	-1	0.343	0	2.034	-1	5.924	0	1493	58	1.1
51806.3	10000	41.6873	93.1670	-1061	QAL	1.9	-1	5.9	-1	1.0	0	0.316	-1	1.859	-1	5.876	0	1520	52	1.1
51806.4	10000	41.6879	93.1670	-1065	QAL	2.0	-1	5.9	-1	1.1	0	0.345	0	1.920	-1	5.562	-1	1539	43	1.1
51806.5	10000	41.6886	93.1670	-1066	QAL	2.3	0	6.3	0	1.0	0	0.366	0	2.283	0	6.234	0	1564	40	1.1
51806.6	10000	41.6892	93.1670	-1063	QAL	2.4	0	6.3	0	1.0	0	0.375	0	2.370	0	6.317	0	1589	50	1.1
51806.7	10000	41.6898	93.1670	-1059	QAL	2.6	0	6.5	0	1.0	0	0.403	0	2.536	0	6.296	0	1617	47	1.1
51806.8	10000	41.6904	93.1670	-1058	QAL	2.8	1	6.5	0	1.1	0	0.433	1	2.631	1	6.078	0	1649	42	1.1
51806.9	10000	41.6910	93.1670	-1057	QAL	2.9	1	6.8	0	1.0	0	0.419	0	2.781	1	6.632	1	1654	32	1.1
51807.0	10000	41.6916	93.1670	-1056	QAL	2.8	1	7..	1	1.1	0	0.387	0	2.605	1	6.725	1	1668	49	1.1
51807.1	10000	41.6922	93.1670	-1055	QAL	2.5	0	7.2	1	1.1	0	0.344	0	2.363	0	6.874	1	1674	42	1.1
51807.2	10000	41.6928	93.1670	-1054	QAL	2.3	0	7.5	1	1.1	0	0.302	-1	2.040	0	6.763	1	1690	49	1.2
51807.3	10000	41.6934	93.1670	-1052	QAL	2.2	0	7.4	1	1.2	1	0.298	-1	1.865	-1	6.253	0	1685	46	1.2
51807.4	10000	41.6940	93.1670	-1051	QAL	2.0	-1	7.5	1	1.2	1	0.271	-1	1.717	-1	6.340	0	1679	46	1.2
51807.5	10000	41.6946	93.1670	-1050	QAL	1.8	-1	7.7	1	1.2	1	0.238	-2	1.526	-1	6.398	0	1662	52	1.2
51807.6	10000	41.6952	93.1670	-1049	QAL	2.0	-1	7.9	1	1.2	1	0.248	-2	1.595	-1	6.443	0	1672	47	1.2
51807.7	10000	41.6958	93.1670	-1048	QAL	2.1	-1	7.5	1	1.2	1	0.284	-1	1.820	-1	6.412	0	1673	39	1.2
51807.8	10000	41.6964	93.1670	-1046	QAL	2.2	0	7.2	1	1.2	1	0.309	-1	1.848	-1	5.978	0	1680	40	1.2
51807.9	10000	41.6970	93.1670	-1047	QAL	2.2	0	6.8	0	1.2	1	0.326	-1	1.856	-1	5.694	-1	1667	38	1.2
51808.0	10000	41.6976	93.1670	-1048	QAL	2.2	0	7.1	0	1.2	1	0.316	-1	1.924	-1	6.087	0	1670	51	1.2
51808.1	10000	41.6982	93.1670	-1047	QAL	2.3	0	7.0	0	1.1	0	0.324	-1	2.034	-1	6.274	0	1671	51	1.2
51808.2	10000	41.6988	93.1670	-1046	QAL	2.2	0	6.9	0	1.1	0	0.322	-1	1.977	-1	6.136	0	1681	50	1.2
51808.3	10000	41.6994	93.1670	-1045	QAL	2.1	-1	6.7	0	1.1	0	0.318	-1	1.855	-1	5.832	0	1681	43	1.2
51808.4	10000	41.7000	93.1670	-1044	QAL	2.2	-1	6.8	0	1.2	1	0.321	-1	1.823	-1	5.680	-1	1682	50	1.2
51808.5	10000	41.7006	93.1670	-1044	QAL	2.1	-1	7.2	1	1.2	1	0.299	-1	1.861	-1	6.217	0	1676	38	1.2
51808.6	10000	41.7012	93.1670	-1043	QAL	2.2	-1	7.3	1	1.1	1	0.295	-1	1.887	-1	6.388	0	1668	31	1.2
51808.7	10000	41.7018	93.1670	-1043	QAL	2.3	0	7.2	1	1.1	1	0.316	-1	1.991	-1	6.309	0	1669	47	1.2
51808.8	10000	41.7024	93.1671	-1043	QAL	2.1	0	6.7	0	1.1	1	0.311	-1	1.835	-1	5.896	0	1663	28	1.2
51808.9	10000	41.7030	93.1671	-1042	QAL	2.3	0	7.0	0	1.1	1	0.324	-1	2.050	0	6.336	0	1667	45	1.2
51809.0	10000	41.7036	93.1671	-1042	QL	2.2	-1	6.8	0	1.1	1	0.326	-1	1.996	-1	6.127	0	1661	38	1.2
51809.1	10000	41.7042	93.1671	-1042	QL	2.3	-1	6.8	0	1.1	1	0.335	-1	2.000	-1	5.973	0	1648	42	1.2
51809.2	10000	41.7048	93.1671	-1042	QL	2.3	-1	6.5	0	1.1	1	0.350	-1	1.989	-1	5.678	-1	1651	47	1.2
51809.3	10000	41.7054	93.1671	-1041	QL	2.4	0	6.5	0	1.2	1	0.367	-1	2.048	0	5.585	-1	1668	51	1.2
51809.4	10000	41.7060	93.1671	-1041	QL	2.3	-1	6.5	0	1.1	1	0.350	-1	1.978	-1	5.650	-1	1671	36	1.2
51809.5	10000	41.7066	93.1671	-1041	QL	2.3	-1	7.1	1	1.2	1	0.325	0	1.950	-1	5.992	0	1682	42	1.2
51809.6	10000	41.7072	93.1671	-1041	QL	2.3	-1	7.1	1	1.2	1	0.319	-1	1.904	-1	5.973	0	1676	49	1.2
51809.7	10000	41.7078	93.1671	-1042	QL	2.3	-1	7.2	1	1.2	1	0.317	-1	1.967	-1	6.212	0	1688	41	1.2
51809.8	10000	41.7084	93.1671	-1042	QL	2.2	-1	7.3	1	1.2	1	0.300	-1	1.933	-1	6.432	0	1718	31	1.2
51809.9	10000	41.7090	93.1671	-1042	QL	2.3	-1	7.5	1	1.2	1	0.310	-1	2.016	0	6.501	1	1737	44	1.2
51810.0	10000	41.7096	93.1671	-1042	QL	2.2	-1	7.6	1	1.2	1	0.287	-1	1.931	-1	6.727	1	1745	39	1.2
51810.1	10000	41.7102	93.1671	-1041	QAL	2.2	0	7.8	1	1.2	1	0.285	-1	1.896	-1	6.651	1	1766	44	1.2
51810.2	10000	41.7108	93.1671	-1041	QAL	2.3	0	7.7	1	1.2	1	0.304	-1	1.902	-1	6.262	0	1778	50	1.2
51810.3	10000	41.7114	93.1671	-1041	QAL	1.9	-1	7.6	1	1.3	1	0.255	-1	1.524	-1	5.988	0	1786	43	1.2
51810.4	10000	41.7120	93.1671	-1041	QAL	2.2	-1	7.5	1	1.2	1	0.258	-1	1.547	-1	6.000	0	1796	41	1.2
51810.5	10000	41.7126	93.1671	-1041	QAL	2.2	0	7.7	1	1.3	1	0.283	-1	1.763	-1	6.236	0	1803	49	1.2
51810.6	10000	41.7132	93.1671	-1041	QAL	2.0	-1	8.1	1	1.2	1	0.254	-1	1.700	-1	6.694	1	1800	31	1.2
51810.7	10000	41.7138	93.1671	-1041	QAL	2.1	-1	7.9	1	1.3	1	0.262	-1	1.603	-1	6.129	0	1824	44	1.2
51810.8	10000	41.7144	93.1671	-1041	QAL	2.2	0	7.9	1	1.3	1	0.280	-1	1.734	-1	6.200	0	1827	57	1.2
51810.9	10000	41.7150	93.1671	-1041	QAL	2.3	0	7.9	1	1.3	1	0.292	-1	1.847	-1	6.327	0	1838	40	1.2

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51811.0	10000	41.7156	93.1671	-1041	QAL	2.8	1	7.6	1	1.2	1	0.371	0	2.291	0	6.172	0	1857	49	1.2
51811.1	10000	41.7162	93.1671	-1040	QAL	3.0	1	7.9	1	1.2	1	0.379	0	2.432	0	6.419	0	1861	37	1.2
51811.2	10000	41.7168	93.1671	-1039	QL	2.9	1	7.8	1	1.2	1	0.373	0	2.326	0	6.242	0	1854	50	1.2
51811.3	10000	41.7174	93.1671	-1038	QL	3.0	1	7.5	0	1.3	1	0.396	1	2.376	0	6.007	0	1862	51	1.2
51811.4	10000	41.7180	93.1671	-1037	QL	3.2	1	7.6	1	1.2	1	0.417	1	2.639	1	6.325	0	1862	49	1.2
51811.5	10000	41.7186	93.1671	-1036	QL	3.0	1	7.6	1	1.2	1	0.398	1	2.508	1	6.301	0	1870	51	1.2
51811.6	10000	41.7192	93.1671	-1036	QL	3.2	1	7.7	1	1.2	1	0.412	1	2.704	1	6.559	1	1870	37	1.2
51811.7	10000	41.7198	93.1671	-1036	QL	3.2	1	7.9	1	1.2	1	0.402	1	2.723	1	6.774	1	1876	51	1.2
51811.8	10000	41.7204	93.1671	-1036	QL	3.1	1	7.8	1	1.2	1	0.395	1	2.608	1	6.604	1	1887	34	1.2
51811.9	10000	41.7210	93.1671	-1037	QL	3.1	1	7.9	1	1.2	1	0.389	0	2.537	1	6.530	1	1891	63	1.2
51812.0	10000	41.7216	93.1671	-1036	QL	3.2	1	7.4	0	1.2	0	0.429	1	2.626	1	6.117	0	1893	39	1.2
51812.1	10000	41.7222	93.1671	-1035	QL	2.8	1	7.5	1	1.2	1	0.378	0	2.298	0	6.081	0	1895	28	1.2
51812.2	10000	41.7228	93.1671	-1034	QL	2.8	1	8.1	1	1.2	1	0.347	0	2.249	0	6.490	0	1903	39	1.2
51812.3	10000	41.7234	93.1671	-1033	QL	2.4	1	8.1	1	1.3	1	0.302	-1	1.894	-1	6.282	0	1899	46	1.2
51812.4	10000	41.7240	93.1671	-1033	QL	2.2	1	8.2	1	1.3	2	0.270	-1	1.669	-1	6.191	0	1894	41	1.2
51812.5	10000	41.7246	93.1671	-1033	QL	2.1	1	8.0	1	1.3	2	0.260	-1	1.551	-2	5.976	0	1880	35	1.2
51812.6	10000	41.7252	93.1671	-1032	QL	2.4	1	7.6	1	1.3	1	0.317	-1	1.816	-1	5.724	-1	1874	45	1.2
51812.7	10000	41.7258	93.1671	-1032	QL	2.2	1	7.8	1	1.3	1	0.281	-1	1.682	-1	5.985	0	1867	34	1.2
51812.8	10000	41.7264	93.1671	-1031	QL	2.4	1	8.0	1	1.3	1	0.304	-1	1.927	-1	6.350	0	1850	42	1.2
51812.9	10000	41.7270	93.1671	-1030	QL	2.4	1	7.4	0	1.2	1	0.329	0	1.954	-1	5.945	0	1832	39	1.2
51813.0	10000	41.7276	93.1671	-1028	QL	2.6	1	7.6	1	1.2	1	0.336	0	2.095	0	6.234	0	1825	45	1.2
51813.1	10000	41.7282	93.1671	-1027	QL	2.6	1	7.5	0	1.2	1	0.344	0	2.252	0	6.541	1	1821	42	1.2
51813.2	10000	41.7288	93.1671	-1026	QL	2.7	1	7.4	0	1.2	1	0.370	0	2.436	1	6.576	1	1833	49	1.2
51813.3	10000	41.7294	93.1671	-1025	QL	2.6	1	8.4	1	1.1	0	0.313	-1	2.308	0	7.365	2	1834	44	1.2
51813.4	10000	41.7300	93.1671	-1025	QL	2.8	1	8.6	1	1.1	0	0.340	0	2.654	1	7.807	3	1832	40	1.2
51813.5	10000	41.7306	93.1672	-1024	QL	2.6	1	8.4	1	1.1	0	0.328	0	2.533	1	7.715	3	1822	47	1.2
51813.6	10000	41.7312	93.1672	-1022	QL	3.0	1	8.5	1	1.1	0	0.352	0	2.753	1	7.826	3	1817	51	1.2
51813.7	10000	41.7318	93.1672	-1021	QL	3.1	1	8.1	1	1.1	0	0.384	0	2.797	1	7.284	2	1820	53	1.2
51813.8	10000	41.7324	93.1672	-1021	QL	3.0	1	7.8	1	1.2	0	0.364	0	2.566	1	7.040	1	1812	49	1.2
51813.9	10000	41.7330	93.1672	-1020	QL	2.8	1	7.8	1	1.2	0	0.343	0	2.339	1	6.813	1	1805	46	1.2
51814.0	10000	41.7336	93.1672	-1019	QL	2.6	1	7.6	1	1.2	0	0.336	0	2.215	1	6.591	1	1802	44	1.2
51814.1	10000	41.7342	93.1672	-1017	QL	2.4	1	7.6	1	1.2	-1	0.315	-1	2.007	0	6.378	0	1794	47	1.2
51814.2	10000	41.7348	93.1672	-1016	QL	2.4	1	7.7	1	1.2	-1	0.307	-1	2.016	0	6.561	1	1791	58	1.2
51814.3	10000	41.7354	93.1672	-1014	QL	2.2	1	7.7	1	1.2	-1	0.291	-1	1.943	-1	6.684	1	1785	51	1.2
51814.4	10000	41.7360	93.1672	-1014	QL	2.3	1	7.6	1	1.1	-1	0.295	-1	2.023	-1	6.861	1	1776	49	1.2
51814.5	10000	41.7366	93.1672	-1013	QL	2.1	1	7.6	1	1.1	-1	0.288	-1	1.947	-1	6.755	1	1780	52	1.2
51814.6	10000	41.7372	93.1672	-1013	QL	2.2	1	8.0	1	1.1	-1	0.269	-1	1.987	-1	7.396	2	1767	36	1.2
51814.7	10000	41.7378	93.1672	-1011	QL	2.3	1	8.0	1	1.1	-1	0.286	-1	2.037	-1	7.118	2	1779	42	1.2
51814.8	10000	41.7384	93.1672	-1010	QL	2.2	1	7.6	0	1.2	-1	0.273	-1	1.912	-1	7.007	1	1796	48	1.2
51814.9	10000	41.7390	93.1672	-1008	QL	2.4	1	7.7	1	1.3	-1	0.312	-1	1.964	-1	6.296	0	1819	39	1.2
51815.0	10000	41.7396	93.1672	-1006	QL	2.1	1	7.8	1	1.3	-1	0.281	-1	1.719	-1	6.120	0	1836	46	1.2
51815.1	10000	41.7402	93.1672	-1005	QL	2.0	1	7.7	1	1.3	-1	0.259	-1	1.530	-2	5.900	0	1838	49	1.2
51815.2	10000	41.7408	93.1672	-1004	QL	2.2	1	7.9	1	1.4	-1	0.282	-1	1.636	-1	5.801	-1	1845	34	1.2
51815.3	10000	41.7414	93.1672	-1002	QL	2.1	1	7.6	1	1.4	-1	0.277	-1	1.541	-2	5.573	-1	1857	51	1.2
51815.4	10000	41.7420	93.1672	-1000	QL	2.1	1	7.6	1	1.4	-1	0.270	-1	1.506	-2	5.578	-1	1849	37	1.2
51815.5	10000	41.7426	93.1672	-997	QL	2.2	1	7.4	1	1.4	-1	0.296	-1	1.575	-1	5.325	-1	1846	49	1.2
51815.6	10000	41.7432	93.1672	-996	QL	2.2	1	7.4	1	1.3	-1	0.287	-1	1.599	-1	5.567	-1	1840	51	1.2
51815.7	10000	41.7438	93.1672	-995	QL	2.3	1	7.1	1	1.3	0	0.329	0	1.729	-1	5.251	-2	1833	43	1.2
51815.8	10000	41.7444	93.1672	-993	QL	2.4	1	7.0	1	1.3	0	0.339	0	1.852	-1	5.457	-1	1840	47	1.2
51815.9	10000	41.7450	93.1672	-993	QL	2.3	1	7.0	1	1.3	0	0.336	0	1.892	-1	5.631	-1	1835	53	1.2
51816.0	10000	41.7456	93.1672	-992	QL	2.6	1	7.1	1	1.3	0	0.366	0	2.020	-1	5.513	-1	1854	57	1.2
51816.1	10000	41.7462	93.1672	-990	QL	2.5	0	6.9	0	1.3	1	0.353	0	1.891	-1	5.353	-1	1867	55	1.3

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51816.2	10000	41.7468	93.1672	-989	QL	2.4	0	7.1	0	1.3	2	0.341	0	1.822	-1	5.342	-1	1870	34	1.3
51816.3	10000	41.7474	93.1672	-988	QL	2.3	-1	7.5	0	1.4	2	0.302	-1	1.671	-1	5.534	-1	1865	55	1.3
51816.4	10000	41.7480	93.1672	-987	QL	2.1	-1	7.9	1	1.3	2	0.269	-1	1.620	-1	6.030	0	1846	50	1.3
51816.5	10000	41.7486	93.1672	-986	QL	2.3	-1	8.0	1	1.3	2	0.287	-1	1.729	-1	6.022	0	1841	49	1.3
51816.6	10000	41.7492	93.1672	-986	QL	2.4	0	7.9	1	1.3	1	0.302	-1	1.827	-1	6.051	0	1838	43	1.3
51816.7	10000	41.7498	93.1672	-985	QL	2.4	0	7.5	1	1.2	1	0.316	-1	1.927	-1	6.109	0	1822	49	1.3
51816.8	10000	41.7504	93.1672	-983	QL	2.5	0	7.9	1	1.2	0	0.321	-1	2.114	0	6.589	1	1810	52	1.3
51816.9	10000	41.7510	93.1672	-982	QL	2.3	-1	7.9	1	1.1	0	0.293	-1	2.020	0	6.887	1	1799	52	1.3
51817.0	10000	41.7516	93.1672	-980	QL	2.5	0	7.7	1	1.2	0	0.318	-1	2.115	0	6.652	1	1810	42	1.4
51817.1	10000	41.7522	93.1672	-979	QL	2.7	0	7.6	1	1.2	0	0.356	0	2.231	0	6.271	0	1836	48	1.4
51817.2	10000	41.7528	93.1672	-977	QL	2.5	0	7.7	1	1.2	1	0.321	-1	2.021	0	6.294	0	1847	45	1.4
51817.3	10000	41.7534	93.1672	-975	QL	2.5	0	7.9	1	1.3	1	0.312	-1	1.976	-1	6.331	0	1852	56	1.4
51817.4	10000	41.7540	93.1672	-975	QL	2.6	0	7.9	1	1.3	1	0.334	0	2.118	0	6.343	0	1843	42	1.4
51817.5	10000	41.7546	93.1672	-975	QL	2.4	0	7.8	1	1.2	1	0.312	-1	1.993	-1	6.387	0	1834	25	1.4
51817.6	10000	41.7552	93.1673	-974	QL	2.7	0	8.0	1	1.2	0	0.338	0	2.222	0	6.575	1	1834	50	1.4
51817.7	10000	41.7558	93.1673	-973	QL	2.6	0	8.3	2	1.2	0	0.319	-1	2.196	0	6.888	1	1816	46	1.4
51817.8	10000	41.7564	93.1673	-971	QL	2.3	-1	8.3	1	1.2	0	0.275	-1	1.898	-1	6.898	1	1804	59	1.4
51817.9	10000	41.7570	93.1673	-970	QL	2.2	-1	8.1	1	1.2	0	0.267	-1	1.848	-1	6.932	1	1790	49	1.4
51818.0	10000	41.7576	93.1673	-968	QL	2.0	-1	8.0	1	1.2	0	0.254	-2	1.749	-1	6.879	1	1790	35	1.4
51818.1	10000	41.7582	93.1673	-966	QL	1.8	-2	8.1	1	1.2	0	0.219	-2	1.535	-2	7.004	1	1792	45	1.4
51818.2	10000	41.7588	93.1673	-964	QL	2.2	-1	7.8	1	1.2	0	0.278	-1	1.844	-1	6.627	1	1798	46	1.4
51818.3	10000	41.7594	93.1673	-963	QL	2.1	-1	7.8	1	1.2	0	0.276	-1	1.789	-1	6.480	0	1806	45	1.4
51818.4	10000	41.7600	93.1673	-961	QL	2.1	-1	7.5	1	1.2	0	0.283	-1	1.750	-1	6.172	0	1826	42	1.4
51818.5	10000	41.7606	93.1673	-960	QL	2.2	-1	7.4	1	1.2	0	0.298	-1	1.799	-1	6.038	0	1834	58	1.4
51818.6	10000	41.7613	93.1673	-959	QL	2.4	0	7.4	1	1.2	0	0.320	-1	1.997	-1	6.233	0	1841	56	1.4
51818.7	10000	41.7619	93.1673	-958	QL	2.7	0	7.1	1	1.2	0	0.379	0	2.255	0	5.952	0	1845	36	1.4
51818.8	10000	41.7625	93.1673	-957	QL	2.7	0	7.3	1	1.2	0	0.375	0	2.245	0	5.994	0	1851	46	1.4
51818.9	10000	41.7632	93.1673	-955	QL	2.4	0	7.2	1	1.3	0	0.329	0	1.885	-1	5.731	-1	1869	46	1.4
51819.0	10000	41.7638	93.1673	-954	QL	2.5	0	7.2	1	1.3	0	0.347	0	1.965	-1	5.661	-1	1887	57	1.4
51819.1	10000	41.7644	93.1673	-953	QL	2.7	0	7.3	1	1.3	0	0.364	0	2.060	0	5.652	-1	1889	35	1.4
51819.2	10000	41.7651	93.1673	-952	QL	2.8	0	7.4	1	1.3	0	0.380	0	2.248	0	5.911	0	1895	48	1.4
51819.3	10000	41.7657	93.1673	-950	QL	2.8	0	7.6	1	1.3	0	0.367	0	2.114	0	5.754	-1	1910	40	1.4
51819.4	10000	41.7663	93.1673	-949	QL	2.5	-1	7.7	1	1.3	-1	0.319	-1	1.846	-1	5.789	-1	1904	41	1.4
51819.5	10000	41.7670	93.1673	-948	QL	2.3	-1	7.8	1	1.4	-1	0.299	-1	1.725	-1	5.763	-1	1901	47	1.4
51819.6	10000	41.7676	93.1673	-946	QL	2.5	0	7.9	1	1.3	-1	0.318	-1	1.926	-1	6.057	0	1875	39	1.4
51819.7	10000	41.7682	93.1673	-945	QL	2.3	-1	7.5	1	1.3	-1	0.306	-1	1.807	-1	5.901	0	1860	39	1.4
51819.8	10000	41.7689	93.1673	-943	QL	2.3	-1	7.4	1	1.2	-1	0.314	-1	1.971	-1	6.285	0	1844	46	1.4
51819.9	10000	41.7695	93.1673	-942	QL	2.5	0	7.3	1	1.2	0	0.337	0	2.087	0	6.201	0	1840	46	1.4
51820.0	10000	41.7701	93.1673	-940	QL	2.6	0	7.1	1	1.2	0	0.366	0	2.218	0	6.056	0	1841	58	1.5
51820.1	10000	41.7707	93.1673	-939	QL	2.8	0	7.4	1	1.1	1	0.385	1	2.533	1	6.573	0	1845	39	1.5
51820.2	10000	41.7714	93.1673	-937	QL	2.9	0	7.0	1	1.1	1	0.411	1	2.584	1	6.284	0	1838	39	1.5
51820.3	10000	41.7720	93.1673	-935	QL	2.8	0	6.8	1	1.2	1	0.411	1	2.400	0	5.844	-1	1841	52	1.5
51820.4	10000	41.7727	93.1674	-933	QL	2.8	-1	6.9	1	1.2	1	0.413	1	2.450	0	5.938	0	1834	51	1.5
51820.5	10000	41.7733	93.1674	-928	QL	2.8	-1	6.8	1	1.2	1	0.412	1	2.352	0	5.708	-1	1833	47	1.4
51820.6	10000	41.7739	93.1674	-926	QL	2.7	0	7.2	1	1.2	0	0.379	0	2.260	0	5.970	0	1820	51	1.4
51820.7	10000	41.7745	93.1674	-929	QL	2.5	-1	7.2	1	1.2	0	0.351	0	2.183	0	6.217	0	1801	48	1.4
51820.8	10000	41.7752	93.1674	-930	QL	2.3	-1	7.1	1	1.2	-1	0.320	-1	1.953	-1	6.107	0	1795	46	1.4
51820.9	10000	41.7758	93.1674	-929	QL	2.3	-1	7.3	1	1.1	-1	0.322	-1	2.085	-1	6.483	0	1787	38	1.4
51821.0	10000	41.7764	93.1674	-927	QL	2.3	-1	7.5	1	1.1	-1	0.302	-1	2.139	-1	7.075	1	1782	48	1.4
51821.1	10000	41.7771	93.1674	-926	QL	2.4	0	7.7	1	1.1	-1	0.318	-1	2.286	0	7.199	2	1767	42	1.4
51821.2	10000	41.7777	93.1674	-924	QL	2.4	0	7.6	1	1.1	-1	0.316	-1	2.264	0	7.165	2	1763	45	1.4
51821.3	10000	41.7783	93.1674	-922	QL	2.5	0	7.4	0	1.0	-1	0.338	0	2.391	0	7.067	1	1771	44	1.4

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51821.4	10000	41.7790	93.1674	-921	QL	2.5	0	7.2	0	1.0	-2	0.347	0	2.440	1	7.025	1	1774	41	1.4
51821.5	10000	41.7796	93.1674	-919	QL	2.7	0	6.9	0	1.0	-2	0.386	0	2.685	1	6.956	1	1773	60	1.4
51821.6	10000	41.7802	93.1674	-917	QL	2.9	1	6.8	-1	1.0	-2	0.433	1	2.879	2	6.653	1	1786	41	1.4
51821.7	10000	41.7809	93.1674	-915	QL	3.1	1	6.7	-1	1.0	-1	0.454	1	2.930	2	6.453	0	1791	46	1.4
51821.8	10000	41.7815	93.1674	-914	QL	2.8	0	7.0	0	1.0	-1	0.393	1	2.651	1	6.741	1	1804	54	1.4
51821.9	10000	41.7821	93.1674	-913	QL	2.7	0	7.2	0	1.0	-2	0.366	0	2.586	1	7.061	1	1798	45	1.4
51822.0	10000	41.7828	93.1674	-912	QL	2.7	0	6.8	-1	1.0	-2	0.392	0	2.618	1	6.680	1	1779	45	1.4
51822.1	10000	41.7834	93.1674	-910	QL	2.8	1	7.2	0	1.0	-2	0.395	1	2.802	1	7.099	2	1752	62	1.4
51822.2	10000	41.7840	93.1674	-909	QL	2.6	0	7.4	0	1.0	-2	0.354	0	2.572	1	7.255	2	1729	47	1.4
51822.3	10000	41.7847	93.1674	-908	QL	2.2	-1	7.2	0	1.0	-2	0.309	-1	2.188	0	7.071	1	1718	49	1.4
51822.4	10000	41.7853	93.1674	-906	QL	2.3	-1	7.2	0	1.0	-1	0.317	-1	2.174	0	6.868	1	1734	44	1.4
51822.5	10000	41.7859	93.1674	-905	QL	2.4	0	6.8	-1	1.1	-1	0.350	0	2.218	0	6.335	0	1737	47	1.4
51822.6	10000	41.7866	93.1674	-903	QL	2.6	0	6.9	-1	1.1	-1	0.381	0	2.379	0	6.245	0	1755	34	1.4
51822.7	10000	41.7872	93.1674	-901	QL	2.5	0	7.2	0	1.1	-1	0.342	0	2.214	0	6.481	0	1786	52	1.4
51822.8	10000	41.7878	93.1675	-900	QL	2.4	0	6.8	-1	1.2	0	0.357	0	2.009	0	5.629	-1	1802	53	1.4
51822.9	10000	41.7885	93.1675	-899	QL	2.4	0	6.9	-1	1.3	1	0.351	0	1.910	-1	5.435	-1	1821	40	1.4
51823.0	10000	41.7891	93.1675	-897	QL	2.5	0	7.5	0	1.3	1	0.327	0	1.917	-1	5.869	-1	1839	42	1.4
51823.1	10000	41.7897	93.1675	-895	QL	2.4	0	7.8	1	1.2	1	0.302	-1	1.903	-1	6.292	0	1822	51	1.4
51823.2	10000	41.7904	93.1675	-894	QL	2.3	-1	7.8	1	1.2	0	0.298	-1	1.950	-1	6.536	1	1814	49	1.4
51823.3	10000	41.7910	93.1675	-893	QL	2.3	-1	7.7	1	1.2	0	0.299	-1	1.923	-1	6.431	0	1802	56	1.4
51823.4	10000	41.7916	93.1675	-892	QL	2.3	-1	7.7	1	1.2	0	0.298	-1	1.940	-1	6.512	1	1781	48	1.4
51823.5	10000	41.7922	93.1675	-890	QL	2.5	0	7.5	0	1.1	0	0.338	0	2.225	0	6.586	1	1796	49	1.3
51823.6	10000	41.7929	93.1675	-889	QL	2.8	0	7.6	1	1.1	-1	0.367	0	2.552	1	6.957	1	1803	43	1.3
51823.7	10000	41.7935	93.1675	-887	QL	2.9	1	7.3	0	1.1	-1	0.399	1	2.640	1	6.613	1	1809	47	1.3
51823.8	10000	41.7941	93.1675	-886	QL	2.9	1	7.3	0	1.1	-1	0.400	1	2.662	1	6.653	1	1819	38	1.3
51823.9	10000	41.7948	93.1675	-884	QL	2.9	1	7.2	0	1.1	-1	0.408	1	2.604	1	6.389	0	1833	40	1.3
51824.0	10000	41.7954	93.1675	-882	QL	2.9	1	7.2	0	1.1	-1	0.402	1	2.567	1	6.383	0	1818	37	1.3
51824.1	10000	41.7960	93.1675	-881	QL	2.9	1	7.2	0	1.1	0	0.399	1	2.540	1	6.359	0	1815	49	1.3
51824.2	10000	41.7967	93.1675	-879	QL	2.6	0	7.6	1	1.1	-1	0.344	0	2.379	1	6.923	1	1788	55	1.3
51824.3	10000	41.7973	93.1675	-876	QL	2.5	0	7.4	0	1.1	-1	0.332	0	2.216	0	6.679	1	1769	49	1.3
51824.4	10000	41.7979	93.1675	-876	QL	2.6	0	7.1	0	1.1	-1	0.362	0	2.367	0	6.536	1	1733	41	1.3
51824.5	10000	41.7986	93.1675	-874	QL	2.6	0	6.5	-1	1.1	-1	0.391	0	2.380	0	6.090	1	1719	48	1.3
51824.6	10000	41.7992	93.1675	-872	QL	2.8	0	6.5	-1	1.1	-1	0.423	1	2.605	1	6.153	1	1699	43	1.3
51824.7	10000	41.7998	93.1675	-870	QL	2.8	0	6.5	-1	1.1	-1	0.434	1	2.702	1	6.226	1	1697	44	1.3
51824.8	10000	41.8005	93.1675	-869	QL	2.9	1	6.3	-1	1.1	-1	0.460	1	2.719	1	5.917	0	1697	44	1.3
51824.9	10000	41.8011	93.1676	-868	QL	2.9	1	5.9	-2	1.1	-1	0.493	1	2.717	1	5.509	-1	1695	54	1.3
51825.0	10000	41.8017	93.1676	-866	QL	3.2	1	5.6	-3	1.1	-1	0.564	2	2.992	2	5.306	-1	1688	40	1.3
51825.1	10000	41.8024	93.1676	-864	QL	3.0	1	5.8	-2	1.1	-1	0.517	1	2.784	1	5.384	-1	1676	42	1.3
51825.2	10000	41.8030	93.1676	-863	QL	2.9	1	5.8	-2	1.1	-1	0.494	1	2.628	1	5.321	-1	1667	38	1.3
51825.3	10000	41.8036	93.1676	-861	QL	2.6	0	6.4	-1	1.1	-1	0.408	1	2.468	1	6.055	0	1652	35	1.3
51825.4	10000	41.8043	93.1676	-859	QL	2.5	0	6.3	-1	1.1	-1	0.395	1	2.378	0	6.013	0	1652	42	1.3
51825.5	10000	41.8049	93.1676	-857	QL	2.4	0	6.4	-1	1.0	-2	0.374	1	2.364	0	6.319	0	1654	47	1.3
51825.6	10000	41.8055	93.1676	-854	QL	2.3	0	6.8	-1	1.0	-2	0.347	0	2.292	0	6.608	1	1660	46	1.3
51825.7	10000	41.8062	93.1676	-852	QL	2.1	-1	7.0	0	1.1	-1	0.303	0	2.034	0	6.710	1	1670	43	1.3
51825.8	10000	41.8068	93.1676	-851	QL	2.2	-1	7.0	1	1.1	-1	0.283	-1	2.118	0	7.477	2	1704	49	1.3
51825.9	10000	41.8074	93.1676	-848	QL	2.3	-1	7.3	1	1.0	-1	0.291	-1	2.118	0	7.269	2	1724	45	1.3
51826.0	10000	41.8081	93.1676	-846	QL	2.3	-1	7.5	1	1.1	-1	0.307	-1	1.955	-1	6.359	2	1751	46	1.3
51826.1	10000	41.8087	93.1676	-844	QL	2.5	0	7.7	1	1.2	-1	0.328	0	2.146	0	6.543	1	1788	53	1.3
51826.2	10000	41.8093	93.1676	-843	QL	2.5	0	7.9	1	1.2	-1	0.310	0	2.057	0	6.641	1	1793	46	1.3
51826.3	10000	41.8100	93.1676	-841	QL	2.5	0	8.1	1	1.2	-1	0.305	0	2.004	0	6.564	1	1819	38	1.3
51826.4	10000	41.8106	93.1676	-838	QL	2.5	0	7.9	1	1.2	-1	0.316	0	2.033	0	6.430	1	1829	38	1.3
51826.5	10000	41.8112	93.1676	-836	QL	2.6	0	7.4	0	1.2	1	0.359	0	2.132	0	5.940	0	1843	56	1.3

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51826.6	10000	41.8118	93.1676	-835	QL	2.6	0	7.6	1	1.2	1	0.345	0	2.113	0	6.131	0	1855	40	1.2
51826.7	10000	41.8125	93.1676	-833	QL	2.7	0	7.6	0	1.2	0	0.357	0	2.220	0	6.213	0	1856	51	1.2
51826.8	10000	41.8131	93.1676	-831	QL	2.6	0	7.8	1	1.2	1	0.329	0	2.075	0	6.313	0	1850	41	1.2
51826.9	10000	41.8137	93.1676	-829	QL	2.8	1	7.7	1	1.3	1	0.363	0	2.242	0	6.180	0	1888	45	1.3
51827.0	10000	41.8144	93.1676	-827	QL	2.8	0	7.7	1	1.3	1	0.364	0	2.232	0	6.136	0	1902	52	1.3
51827.1	10000	41.8150	93.1676	-825	QL	3.0	1	8.3	2	1.3	1	0.359	0	2.308	0	6.431	0	1922	38	1.3
51827.2	10000	41.8156	93.1676	-822	QL	2.8	0	8.7	2	1.3	1	0.319	-1	2.187	0	6.859	1	1914	49	1.3
51827.3	10000	41.8163	93.1677	-820	QL	2.9	1	8.5	2	1.3	1	0.343	0	2.314	0	6.742	1	1922	40	1.2
51827.4	10000	41.8169	93.1677	-817	QL	2.8	1	8.7	2	1.3	1	0.327	0	2.281	0	6.980	1	1946	46	1.2
51827.5	10000	41.8175	93.1677	-815	QL	2.9	1	8.4	2	1.3	1	0.342	0	2.261	0	6.609	1	1942	48	1.3
51827.6	10000	41.8182	93.1677	-813	QL	2.8	1	8.3	2	1.2	1	0.341	0	2.280	0	6.676	1	1922	39	1.3
51827.7	10000	41.8188	93.1677	-811	QL	2.7	0	7.9	1	1.2	0	0.337	0	2.185	0	6.476	0	1892	39	1.3
51827.8	10000	41.8194	93.1677	-808	QL	2.7	0	7.8	1	1.2	0	0.343	0	2.207	0	6.438	0	1875	51	1.3
51827.9	10000	41.8201	93.1677	-805	QL	2.7	0	7.5	0	1.2	0	0.364	0	2.282	0	6.276	0	1863	41	1.3
51828.0	10000	41.8207	93.1677	-803	QL	2.6	0	7.7	1	1.2	0	0.336	0	2.194	0	6.524	1	1839	42	1.3
51828.1	10000	41.8213	93.1677	-801	QL	2.4	0	7.8	1	1.1	0	0.312	-1	2.133	0	6.838	1	1798	45	1.3
51828.2	10000	41.8220	93.1677	-799	QL	2.2	-1	7.9	1	1.1	-1	0.275	-1	1.946	-1	7.081	1	1780	48	1.3
51828.3	10000	41.8226	93.1677	-798	QL	2.0	-1	7.8	1	1.1	0	0.258	-1	1.764	-1	6.845	1	1768	49	1.3
51828.4	10000	41.8232	93.1677	-795	QL	2.2	-1	7.9	1	1.1	0	0.274	-1	1.897	-1	6.933	1	1761	36	1.3
51828.5	10000	41.8239	93.1677	-792	QL	2.0	-1	7.8	1	1.1	-1	0.257	-1	1.797	-1	6.996	1	1748	43	1.3
51828.6	10000	41.8245	93.1677	-790	QL	2.1	-1	7.4	0	1.1	-1	0.284	-1	1.921	-1	6.767	1	1750	39	1.3
51828.7	10000	41.8251	93.1677	-787	QL	1.9	-1	7.4	0	1.1	-1	0.258	-1	1.763	-1	6.842	1	1732	41	1.3
51828.8	10000	41.8258	93.1677	-785	QL	2.2	-1	7.0	0	1.1	-1	0.312	-1	2.021	0	6.476	0	1715	36	1.3
51828.9	10000	41.8264	93.1677	-783	QL	2.4	0	6.6	-1	1.1	-1	0.362	0	2.223	0	6.139	0	1702	44	1.3
51829.0	10000	41.8270	93.1677	-781	QL	2.3	-1	6.7	-1	1.1	-1	0.349	0	2.190	0	6.271	0	1701	36	1.3
51829.1	10000	41.8277	93.1677	-779	QL	2.2	-1	7.0	0	1.1	-1	0.320	-1	2.087	0	6.525	1	1718	42	1.3
51829.2	10000	41.8283	93.1677	-777	QL	2.2	-1	7.1	0	1.1	-1	0.303	-1	2.020	0	6.668	1	1743	45	1.3
51829.3	10000	41.8289	93.1678	-775	QL	2.1	-1	7.3	0	1.1	-1	0.289	-1	1.955	-1	6.763	1	1761	43	1.3
51829.4	10000	41.8295	93.1678	-774	QL	2.3	-1	7.5	0	1.1	-1	0.307	-1	2.081	0	6.787	1	1800	27	1.3
51829.5	10000	41.8302	93.1678	-772	QL	2.3	-1	8.1	1	1.1	-1	0.283	-1	2.037	0	7.202	2	1846	37	1.3
51829.6	10000	41.8308	93.1678	-771	QL	2.4	-1	8.4	2	1.1	0	0.281	-1	2.063	0	7.342	2	1874	49	1.3
51829.7	10000	41.8314	93.1678	-770	QL	2.5	0	8.2	1	1.2	0	0.301	-1	2.132	0	7.074	1	1894	60	1.4
51829.8	10000	41.8321	93.1678	-768	QL	2.6	0	8.0	1	1.2	0	0.320	-1	2.191	0	6.837	1	1904	50	1.4
51829.9	10000	41.8327	93.1678	-767	QL	2.7	0	7.9	1	1.2	1	0.338	0	2.158	0	6.387	0	1907	53	1.4
51830.0	10000	41.8333	93.1678	-765	QL	2.6	0	7.8	1	1.3	1	0.335	0	2.050	0	6.122	0	1908	29	1.4
51830.1	10000	41.8340	93.1678	-764	QL	2.7	0	7.7	1	1.3	1	0.357	0	2.126	0	5.950	0	1894	42	1.4
51830.2	10000	41.8346	93.1678	-763	QL	2.6	0	7.2	0	1.3	2	0.363	0	1.980	-1	5.449	-1	1890	36	1.4
51830.3	10000	41.8352	93.1678	-761	QL	2.6	0	7.1	0	1.4	2	0.365	0	1.897	-1	5.205	-2	1900	49	1.4
51830.4	10000	41.8359	93.1678	-761	QL	2.5	0	7.4	0	1.4	2	0.338	0	1.805	-1	5.345	-1	1902	45	1.4
51830.5	10000	41.8365	93.1678	-759	QL	2.6	0	7.5	0	1.4	2	0.352	0	1.910	-1	5.426	-1	1883	42	1.4
51830.6	10000	41.8371	93.1678	-758	QL	2.5	0	7.6	0	1.3	2	0.333	0	1.875	-1	5.635	-1	1876	39	1.4
51830.7	10000	41.8378	93.1678	-757	QL	2.3	-1	7.6	1	1.3	1	0.302	-1	1.777	-1	5.889	-1	1854	52	1.4
51830.8	10000	41.8384	93.1678	-756	QL	2.2	-1	7.4	0	1.3	1	0.289	-1	1.704	-1	5.900	-1	1850	40	1.4
51830.9	10000	41.8390	93.1678	-755	QL	2.1	-1	7.8	1	1.3	1	0.270	-1	1.696	-1	6.271	0	1834	50	1.4
51831.0	10000	41.8397	93.1678	-754	QL	2.0	-1	8.0	1	1.2	1	0.257	-1	1.688	-1	6.563	1	1816	38	1.4
51831.1	10000	41.8403	93.1678	-754	QL	2.2	-1	7.5	1	1.1	0	0.287	-1	1.899	-1	6.625	1	1790	41	1.4
51831.2	10000	41.8409	93.1678	-753	QL	2.1	-1	7.2	0	1.1	-1	0.299	-1	1.981	-1	6.623	1	1787	49	1.4
51831.3	10000	41.8416	93.1678	-753	QL	2.5	0	7.0	0	1.1	-1	0.360	0	2.366	0	6.580	1	1768	56	1.4
51831.4	10000	41.8422	93.1678	-752	QL	2.6	0	7.0	0	1.1	-1	0.371	0	2.385	0	6.433	0	1765	35	1.4
51831.5	10000	41.8428	93.1678	-752	QL	2.5	0	7.3	0	1.1	-1	0.340	0	2.287	0	6.733	1	1761	44	1.5
51831.6	10000	41.8434	93.1678	-751	QL	2.7	0	6.9	-1	1.1	-1	0.387	0	2.394	0	6.182	0	1769	36	1.5
51831.7	10000	41.8441	93.1679	-750	QL	2.5	0	7.0	0	1.1	0	0.365	0	2.237	0	6.123	0	1761	41	1.5

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51831.8	10000	41.8447	93.1679	-750	QL	2.3	-1	7.2	0	1.1	-1	0.321	-1	2.052	0	6.394	0	1762	48	1.5
51831.9	10000	41.8453	93.1679	-750	QL	2.1	-1	7.4	0	1.1	0	0.281	-1	1.841	-1	6.545	1	1758	34	1.5
51832.0	10000	41.8460	93.1679	-749	QL	1.6	-2	7.8	1	1.1	-1	0.210	-2	1.481	-2	7.057	1	1751	43	1.5
51832.1	10000	41.8466	93.1679	-749	QL	1.6	-2	8.0	1	1.2	0	0.204	-2	1.404	-2	6.886	1	1758	42	1.5
51832.2	10000	41.8473	93.1679	-749	QL	1.7	-2	7.8	1	1.3	0	0.211	-2	1.365	-2	6.465	0	1777	42	1.5
51832.3	10000	41.8479	93.1679	-749	QL	1.4	-3	8.5	2	1.2	0	0.169	-3	1.206	-2	7.143	2	1785	48	1.5
51832.4	10000	41.8485	93.1679	-748	QL	1.5	-2	8.6	2	1.2	0	0.179	-3	1.289	-2	7.195	2	1806	45	1.5
51832.5	10000	41.8491	93.1679	-748	QL	1.7	-2	8.6	2	1.3	1	0.194	-2	1.298	-2	6.695	1	1817	40	1.5
51832.6	10000	41.8498	93.1679	-748	QL	1.6	-2	8.6	2	1.3	2	0.187	-2	1.198	-2	6.406	0	1840	40	1.5
51832.7	10000	41.8504	93.1679	-748	QL	1.7	-2	8.4	2	1.4	2	0.209	-2	1.251	-2	5.981	0	1868	47	1.5
51832.8	10000	41.8510	93.1679	-748	QL	1.8	-2	8.2	1	1.3	2	0.224	-2	1.369	-2	6.102	0	1883	50	1.5
51832.9	10000	41.8516	93.1679	-748	QL	1.9	-2	8.5	2	1.3	1	0.224	-2	1.484	-2	6.611	1	1868	31	1.5
51833.0	10000	41.8523	93.1679	-748	QL	2.1	-1	8.1	1	1.3	1	0.260	-1	1.667	-1	6.407	0	1856	38	1.5
51833.1	10000	41.8529	93.1679	-747	QL	2.3	-1	7.7	1	1.3	1	0.298	-1	1.815	-1	6.098	0	1839	48	1.5
51833.2	10000	41.8535	93.1679	-747	QL	2.4	0	8.0	1	1.2	0	0.295	-1	1.966	-1	6.661	1	1821	45	1.5
51833.3	10000	41.8541	93.1679	-747	QL	2.3	-1	8.0	1	1.2	0	0.289	-1	1.965	-1	6.789	1	1803	42	1.5
51833.4	10000	41.8548	93.1679	-747	QL	2.4	0	7.9	1	1.1	0	0.302	-1	2.097	0	6.941	1	1776	40	1.5
51833.5	10000	41.8554	93.1679	-746	QL	2.2	-1	7.9	1	1.2	0	0.276	-1	1.870	-1	6.771	1	1755	50	1.5
51833.6	10000	41.8560	93.1679	-746	QL	2.1	-1	7.5	0	1.2	0	0.276	-1	1.745	-1	6.314	0	1737	44	1.5
51833.7	10000	41.8566	93.1679	-745	QL	2.0	-1	7.2	0	1.2	0	0.281	-1	1.734	-1	6.173	0	1727	53	1.5
51833.8	10000	41.8572	93.1679	-745	QL	2.0	-1	7.4	0	1.1	0	0.273	-1	1.768	-1	6.467	0	1725	53	1.5
51833.9	10000	41.8579	93.1679	-744	QL	1.9	-1	6.8	-1	1.1	-1	0.280	-1	1.754	-1	6.274	0	1715	58	1.5
51834.0	10000	41.8585	93.1679	-744	QL	2.1	-1	6.8	-1	1.0	-2	0.300	-1	2.020	0	6.727	1	1695	48	1.5
51834.1	10000	41.8591	93.1679	-743	QL	2.0	-1	6.9	-1	1.1	-1	0.287	-1	1.878	-1	6.534	1	1696	42	1.5
51834.2	10000	41.8597	93.1680	-742	QL	2.2	-1	6.7	-1	1.0	-2	0.324	-1	2.168	0	6.698	1	1701	33	1.5
51834.3	10000	41.8604	93.1680	-741	QL	2.4	0	7.2	0	1.0	-2	0.330	0	2.439	1	7.383	2	1720	50	1.5
51834.4	10000	41.8610	93.1680	-740	QL	2.4	-1	7.4	0	1.0	-2	0.318	-1	2.346	0	7.368	2	1749	47	1.5
51834.5	10000	41.8616	93.1680	-739	QL	2.2	-1	7.7	1	1.0	-2	0.292	-1	2.168	0	7.418	2	1760	49	1.5
51834.6	10000	41.8622	93.1680	-738	QL	2.3	-1	8.4	2	1.1	-1	0.274	-1	2.125	0	7.755	3	1793	46	1.5
51834.7	10000	41.8629	93.1680	-737	QL	2.5	0	8.0	1	1.1	0	0.306	-1	2.149	0	7.015	1	1825	63	1.5
51834.8	10000	41.8635	93.1680	-736	QL	2.4	-1	8.3	2	1.1	-1	0.284	-1	2.166	0	7.616	2	1841	51	1.5
51834.9	10000	41.8641	93.1680	-735	QL	2.4	0	8.6	2	1.1	-1	0.276	-1	2.115	0	7.657	2	1859	45	1.5
51835.0	10000	41.8647	93.1680	-734	QL	2.4	0	8.4	2	1.2	0	0.289	-1	2.090	0	7.233	2	1871	43	1.5
51835.1	10000	41.8653	93.1680	-733	QL	2.3	-1	8.5	2	1.2	0	0.272	-1	1.982	-1	7.275	2	1877	50	1.5
51835.2	10000	41.8660	93.1680	-732	QL	2.3	-1	8.3	2	1.2	0	0.279	-1	1.993	-1	7.135	2	1884	55	1.5
51835.3	10000	41.8666	93.1680	-730	QL	2.3	-1	7.6	1	1.2	0	0.300	-1	1.888	-1	6.290	1	1873	55	1.5
51835.4	10000	41.8672	93.1680	-729	QL	2.3	-1	7.8	1	1.2	0	0.295	-1	1.927	-1	6.537	1	1861	49	1.5
51835.5	10000	41.8678	93.1680	-728	QL	2.4	-1	7.6	1	1.2	0	0.308	-1	1.916	-1	6.210	1	1846	40	1.5
51835.6	10000	41.8685	93.1680	-727	QL	2.3	-1	7.1	1	1.2	0	0.322	-1	1.941	-1	6.023	1	1828	52	1.5
51835.7	10000	41.8691	93.1680	-725	QL	2.3	-1	7.1	1	1.2	0	0.322	-1	1.963	-1	6.101	1	1813	41	1.5
51835.8	10000	41.8697	93.1680	-724	QL	2.2	-1	6.9	1	1.1	0	0.338	0	2.072	0	6.123	1	1801	50	1.5
51835.9	10000	41.8703	93.1680	-723	QL	2.3	-1	6.6	1	1.1	0	0.341	0	2.073	0	6.077	0	1785	37	1.5
51836.0	10000	41.8709	93.1680	-722	QL	2.4	-1	7.0	1	1.1	0	0.337	0	2.230	0	6.622	1	1770	44	1.5
51836.1	10000	41.8716	93.1680	-720	QL	2.3	-1	7.3	1	1.0	-1	0.310	-1	2.160	0	6.977	1	1754	46	1.5
51836.2	10000	41.8722	93.1680	-719	QL	2.5	-1	7.3	1	1.1	-2	0.341	0	2.441	0	7.160	2	1751	43	1.5
51836.3	10000	41.8728	93.1680	-717	QL	2.4	-1	7.3	1	1.1	-1	0.345	0	2.348	0	6.796	1	1755	48	1.5
51836.4	10000	41.8734	93.1680	-716	QL	2.4	-1	7.2	1	1.1	-1	0.330	0	2.134	0	6.463	1	1769	47	1.5
51836.5	10000	41.8741	93.1680	-714	QL	2.2	-1	7.3	1	1.1	-1	0.325	0	2.106	0	6.472	1	1761	69	1.4
51836.6	10000	41.8747	93.1680	-713	QL	2.3	-1	7.6	1	1.2	-1	0.288	-1	1.888	-1	6.549	1	1774	39	1.4
51836.7	10000	41.8753	93.1680	-712	QL	2.3	-1	7.6	1	1.2	-1	0.306	-1	1.954	-1	6.384	1	1799	36	1.4
51836.8	10000	41.8759	93.1680	-711	QL	2.2	-1	7.4	1	1.2	-1	0.292	-1	1.820	-1	6.231	0	1821	41	1.4
51836.9	10000	41.8766	93.1680	-710	QL	2.0	-1	7.5	0	1.3	1	0.273	-1	1.626	-1	5.964	0	1858	52	1.4

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51837.0	10000	41.8772	93.1680	-709	QL	2.2	-1	8.0	1	1.3	1	0.272	-1	1.740	-1	6.387	0	1868	47	1.4
51837.1	10000	41.8778	93.1680	-708	QL	2.2	-1	7.7	1	1.2	1	0.283	-1	1.755	-1	6.207	0	1862	44	1.4
51837.2	10000	41.8784	93.1680	-707	QL	2.4	-1	7.6	1	1.3	1	0.310	-1	1.877	-1	6.057	0	1873	40	1.4
51837.3	10000	41.8791	93.1680	-706	QL	2.5	0	7.6	1	1.2	1	0.328	0	2.008	0	6.112	0	1870	48	1.4
51837.4	10000	41.8797	93.1681	-705	QL	2.4	0	7.7	1	1.2	1	0.316	-1	1.957	-1	6.190	0	1869	46	1.4
51837.5	10000	41.8803	93.1681	-705	QL	2.7	0	7.6	0	1.2	0	0.358	0	2.225	0	6.223	0	1864	42	1.4
51837.6	10000	41.8809	93.1681	-704	QL	2.7	0	7.1	0	1.1	0	0.383	0	2.378	0	6.208	0	1832	39	1.4
51837.7	10000	41.8815	93.1681	-704	QL	2.7	0	7.2	0	1.2	0	0.380	0	2.324	0	6.117	0	1833	41	1.4
51837.8	10000	41.8822	93.1681	-703	QL	2.9	1	7.5	0	1.1	-1	0.380	0	2.546	1	6.701	1	1829	44	1.4
51837.9	10000	41.8828	93.1681	-701	QL	2.8	0	7.5	0	1.1	-1	0.368	0	2.473	1	6.730	1	1810	43	1.4
51838.0	10000	41.8834	93.1681	-700	QL	2.7	0	7.6	0	1.1	-1	0.355	0	2.485	1	6.989	1	1782	46	1.4
51838.1	10000	41.8840	93.1681	-700	QL	2.7	0	7.6	0	1.1	-1	0.356	0	2.569	1	7.211	2	1751	53	1.4
51838.2	10000	41.8847	93.1681	-700	QL	2.6	0	7.6	1	1.0	-2	0.345	0	2.570	1	7.442	2	1725	61	1.4
51838.3	10000	41.8853	93.1681	-700	QL	2.6	0	7.8	1	1.1	-1	0.338	0	2.512	1	7.423	2	1723	43	1.4
51838.4	10000	41.8859	93.1681	-700	QL	2.5	0	7.6	1	1.0	-2	0.324	-1	2.467	1	7.627	2	1704	32	1.3
51838.5	10000	41.8865	93.1681	-700	QL	2.4	0	7.5	0	1.0	-2	0.317	-1	2.319	0	7.306	2	1693	41	1.3
51838.6	10000	41.8871	93.1681	-699	QL	2.4	0	7.2	0	1.0	-2	0.329	0	2.406	0	7.319	2	1688	31	1.3
51838.7	10000	41.8878	93.1681	-700	QL	2.6	0	7.1	0	1.0	-2	0.361	0	2.558	1	7.093	1	1709	40	1.3
51838.8	10000	41.8884	93.1681	-700	QL	2.5	0	7.3	0	1.0	-1	0.336	0	2.367	0	7.044	1	1731	52	1.3
51838.9	10000	41.8890	93.1681	-700	QL	2.4	-1	7.4	0	1.1	0	0.318	-1	2.082	0	6.543	1	1765	38	1.3
51839.0	10000	41.8896	93.1681	-701	QL	2.2	-1	7.5	0	1.1	-1	0.291	-1	1.974	-1	6.778	1	1774	45	1.3
51839.1	10000	41.8903	93.1681	-701	QL	2.4	0	7.6	1	1.1	0	0.316	-1	2.091	0	6.622	1	1792	31	1.3
51839.2	10000	41.8909	93.1681	-702	QL	2.6	0	7.9	1	1.1	-1	0.324	-1	2.268	0	7.006	1	1813	49	1.3
51839.3	10000	41.8915	93.1681	-702	QL	2.6	0	8.2	1	1.2	0	0.314	-1	2.192	0	6.985	1	1835	48	1.3
51839.4	10000	41.8921	93.1681	-703	QL	2.7	0	8.6	2	1.2	0	0.320	-1	2.250	0	7.026	1	1851	37	1.3
51839.5	10000	41.8928	93.1681	-704	QL	2.9	0	8.3	2	1.2	1	0.343	0	2.304	0	6.710	1	1866	40	1.3
51839.6	10000	41.8934	93.1681	-705	QL	2.8	0	8.3	2	1.2	1	0.338	0	2.274	0	6.735	1	1870	43	1.3
51839.7	10000	41.8940	93.1681	-706	QL	2.8	0	8.6	2	1.3	1	0.319	-1	2.168	0	6.787	1	1878	42	1.3
51839.8	10000	41.8946	93.1681	-707	QL	2.4	-1	8.5	2	1.2	1	0.276	-1	1.889	-1	6.833	1	1880	50	1.3
51839.9	10000	41.8952	93.1681	-706	QL	2.3	-1	8.4	2	1.3	1	0.268	-1	1.756	-1	6.561	1	1870	44	1.3
51840.0	10000	41.8959	93.1681	-710	QL	2.2	-1	8.3	2	1.3	1	0.270	-1	1.738	-1	6.444	0	1864	44	1.3
51840.1	10000	41.8965	93.1682	-711	QL	2.0	-1	7.9	1	1.3	1	0.250	-2	1.566	-2	6.259	0	1852	36	1.3
51840.2	10000	41.8971	93.1682	-713	QL	2.0	-1	8.0	1	1.3	1	0.248	-2	1.590	-1	6.409	0	1840	47	1.3
51840.3	10000	41.8977	93.1682	-714	QL	2.1	-1	8.0	1	1.2	1	0.259	-1	1.661	-1	6.406	0	1836	49	1.3
51840.4	10000	41.8984	93.1682	-715	QL	2.2	-1	7.5	0	1.3	1	0.298	-1	1.743	-1	5.855	-1	1834	47	1.3
51840.5	10000	41.8990	93.1682	-716	QL	2.6	0	7.7	1	1.3	2	0.336	0	1.955	-1	5.818	-1	1836	43	1.3
51840.6	10000	41.8996	93.1682	-718	QL	2.3	-1	7.4	0	1.3	1	0.304	-1	1.693	-1	5.571	-1	1841	41	1.3
51840.7	10000	41.9002	93.1682	-719	QL	2.3	-1	7.9	1	1.4	2	0.288	-1	1.679	-1	5.833	-1	1855	42	1.3
51840.8	10000	41.9009	93.1682	-721	QL	2.3	-1	8.0	1	1.4	2	0.284	-1	1.667	-1	5.864	-1	1858	53	1.3
51840.9	10000	41.9015	93.1682	-722	QL	2.3	-1	8.0	1	1.4	2	0.283	-1	1.676	-1	5.929	0	1879	41	1.3
51841.0	10000	41.9021	93.1682	-723	QL	2.5	-1	7.9	1	1.4	2	0.293	-1	1.702	-1	5.815	-1	1882	37	1.3
51841.1	10000	41.9027	93.1682	-725	QL	2.5	0	7.9	1	1.3	2	0.320	-1	1.920	-1	5.992	0	1883	39	1.3
51841.2	10000	41.9034	93.1682	-726	QL	2.5	0	7.4	0	1.3	1	0.342	0	1.938	-1	5.669	-1	1868	33	1.3
51841.3	10000	41.9040	93.1682	-728	QL	2.8	0	7.6	1	1.2	1	0.369	0	2.256	0	6.117	0	1856	42	1.3
51841.4	10000	41.9046	93.1682	-729	QL	2.8	0	7.2	0	1.2	1	0.390	0	2.272	0	5.829	-1	1842	42	1.3
51841.5	10000	41.9052	93.1682	-730	QL	2.5	0	6.8	0	1.2	1	0.405	0	2.265	0	5.587	-1	1843	32	1.3
51841.6	10000	41.9058	93.1682	-731	QL	2.4	0	6.6	0	1.2	1	0.382	0	2.072	0	5.419	-1	1821	43	1.3
51841.7	10000	41.9065	93.1682	-733	QL	2.4	0	7.1	1	1.2	1	0.344	0	2.045	0	5.946	0	1823	47	1.3
51841.8	10000	41.9071	93.1682	-734	QL	2.3	-1	7.1	1	1.2	1	0.319	-1	1.946	-1	6.101	0	1824	42	1.3
51841.9	10000	41.9077	93.1682	-735	QL	2.3	-1	7.3	1	1.2	1	0.316	-1	1.921	-1	6.079	0	1840	47	1.3
51842.0	10000	41.9083	93.1682	-735	QL	2.3	-1	7.1	1	1.2	1	0.319	-1	1.835	-1	5.752	-1	1846	45	1.3
51842.1	10000	41.9090	93.1682	-736	QL	2.2	-1	7.4	0	1.3	1	0.295	-1	1.715	-1	5.819	-1	1851	52	1.3

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51842.2	10000	41.9096	93.1682	-737	QL	2.2	-1	7.6	0	1.3	1	0.291	-1	1.733	-1	5.953	0	1856	39	1.3
51842.3	10000	41.9102	93.1682	-737	QL	2.3	-1	7.6	1	1.3	1	0.305	-1	1.803	-1	5.917	0	1862	51	1.3
51842.4	10000	41.9108	93.1682	-737	QL	2.3	-1	7.1	0	1.3	1	0.325	0	1.760	-1	5.409	-1	1851	44	1.3
51842.5	10000	41.9114	93.1682	-738	QL	2.4	0	7.2	0	1.3	2	0.330	0	1.785	-1	5.403	-1	1846	41	1.3
51842.6	10000	41.9121	93.1682	-739	QL	2.4	0	7.6	1	1.3	1	0.314	-1	1.829	-1	5.823	-1	1852	55	1.3
51842.7	10000	41.9127	93.1682	-739	QL	2.4	0	7.5	0	1.3	1	0.325	0	1.925	-1	5.917	0	1852	41	1.3
51842.8	10000	41.9133	93.1682	-739	QL	2.3	-1	7.4	0	1.3	1	0.312	-1	1.844	-1	5.902	0	1846	52	1.3
51842.9	10000	41.9139	93.1682	-740	QL	2.4	0	7.5	0	1.3	1	0.323	-1	1.919	-1	5.939	0	1845	47	1.3
51843.0	10000	41.9146	93.1682	-740	QL	2.5	0	7.3	0	1.3	1	0.342	0	1.979	-1	5.793	-1	1854	50	1.3
51843.1	10000	41.9152	93.1682	-740	QL	2.3	-1	7.2	0	1.3	1	0.314	-1	1.759	-1	5.599	-1	1868	55	1.3
51843.2	10000	41.9158	93.1682	-740	QL	2.2	-1	7.2	0	1.3	1	0.303	-1	1.715	-1	5.660	-1	1874	49	1.3
51843.3	10000	41.9164	93.1682	-740	QL	2.1	-1	7.0	0	1.3	1	0.304	-1	1.694	-1	5.569	-1	1869	48	1.3
51843.4	10000	41.9171	93.1683	-740	QL	2.1	-1	7.3	0	1.3	1	0.291	-1	1.687	-1	5.788	-1	1882	36	1.3
51843.5	10000	41.9177	93.1683	-740	QL	2.4	-1	7.2	0	1.3	1	0.329	0	1.827	-1	5.561	-1	1890	48	1.3
51843.6	10000	41.9183	93.1683	-741	QL	2.2	-1	7.2	0	1.3	1	0.313	-1	1.769	-1	5.650	-1	1894	36	1.3
51843.7	10000	41.9189	93.1683	-741	QL	2.2	-1	7.4	0	1.3	1	0.293	-1	1.686	-1	5.760	-1	1891	43	1.3
51843.8	10000	41.9195	93.1683	-740	QL	2.3	-1	7.7	1	1.3	1	0.297	-1	1.778	-1	5.979	0	1893	52	1.3
51843.9	10000	41.9202	93.1683	-740	QL	2.2	-1	7.6	0	1.3	2	0.294	-1	1.683	-1	5.724	-1	1897	52	1.3
51844.0	10000	41.9208	93.1683	-739	QL	2.3	-1	7.6	1	1.3	1	0.295	-1	1.714	-1	5.804	-1	1884	39	1.3
51844.1	10000	41.9214	93.1683	-739	QL	2.3	-1	7.4	0	1.3	1	0.310	-1	1.762	-1	5.680	-1	1876	38	1.3
51844.2	10000	41.9220	93.1683	-738	QL	2.4	0	7.6	1	1.3	1	0.314	-1	1.909	-1	6.071	0	1850	49	1.3
51844.3	10000	41.9227	93.1683	-736	QL	2.4	0	7.2	0	1.3	1	0.333	0	1.948	-1	5.847	-1	1827	51	1.3
51844.4	10000	41.9233	93.1683	-731	QL	2.3	-1	7.2	0	1.2	0	0.322	-1	1.946	-1	6.052	0	1806	48	1.3
51844.5	10000	41.9239	93.1683	-722	QL	2.5	0	7.2	0	1.2	0	0.350	0	2.135	0	6.093	0	1782	49	1.3
51844.6	10000	41.9245	93.1683	-726	QL	2.6	0	7.6	1	1.1	0	0.341	0	2.277	0	6.672	1	1763	49	1.3
51844.7	10000	41.9251	93.1683	-735	QL	2.5	0	7.8	1	1.1	0	0.318	-1	2.154	0	6.782	1	1765	44	1.3
51844.8	10000	41.9258	93.1683	-737	QL	2.6	0	7.6	1	1.2	0	0.342	0	2.222	0	6.499	1	1769	49	1.3
51844.9	10000	41.9264	93.1683	-735	QL	2.6	0	7.3	0	1.2	0	0.359	0	2.202	0	6.133	0	1768	51	1.3
51845.0	10000	41.9270	93.1683	-734	QL	2.8	0	7.4	0	1.2	0	0.374	0	2.318	0	6.205	0	1760	49	1.3
51845.1	10000	41.9277	93.1683	-734	QL	2.9	1	7.2	0	1.1	0	0.400	1	2.549	1	6.369	0	1754	41	1.3
51845.2	10000	41.9283	93.1683	-734	QL	2.9	1	7.3	0	1.1	-1	0.395	1	2.623	1	6.635	-1	1756	39	1.3
51845.3	10000	41.9289	93.1683	-733	QL	3.0	1	7.0	0	1.1	-1	0.430	1	2.705	1	6.291	0	1751	43	1.3
51845.4	10000	41.9295	93.1683	-732	QL	3.1	1	6.9	-1	1.1	-1	0.451	1	2.801	1	6.206	0	1748	39	1.3
51845.5	10000	41.9301	93.1683	-731	QL	3.0	1	7.1	0	1.1	-1	0.423	1	2.682	1	6.336	0	1756	49	1.3
51845.6	10000	41.9308	93.1684	-730	QL	2.7	0	7.6	1	1.1	0	0.355	0	2.366	1	6.668	1	1777	49	1.3
51845.7	10000	41.9314	93.1684	-730	QL	2.6	0	8.0	1	1.2	0	0.326	0	2.228	0	6.844	1	1790	40	1.3
51845.8	10000	41.9321	93.1684	-729	QL	2.6	0	8.1	1	1.2	0	0.319	-1	2.069	0	6.496	0	1797	42	1.3
51845.9	10000	41.9327	93.1685	-728	QL	2.5	0	8.3	2	1.3	-1	0.302	-1	1.987	-1	6.588	0	1803	45	1.3
51846.0	10000	41.9334	93.1685	-728	QL	2.6	0	8.1	1	1.3	-1	0.320	-1	2.042	-1	6.392	0	1813	41	1.3
51846.1	10000	41.9340	93.1685	-727	QL	2.6	0	8.2	1	1.3	-1	0.318	-1	1.998	-1	6.284	0	1814	36	1.3
51846.2	10000	41.9346	93.1685	-727	QL	2.6	0	8.0	1	1.2	0	0.326	0	2.102	0	6.439	0	1807	46	1.3
51846.3	10000	41.9353	93.1686	-726	QL	2.7	0	7.8	1	1.2	0	0.348	0	2.206	0	6.336	0	1808	53	1.3
51846.4	10000	41.9359	93.1686	-725	QL	2.8	0	8.0	1	1.2	0	0.352	0	2.329	0	6.616	1	1834	45	1.3
51846.5	10000	41.9366	93.1687	-724	QL	2.9	0	7.8	1	1.2	0	0.368	0	2.330	0	6.326	0	1848	54	1.3
51846.6	10000	41.9372	93.1687	-723	QL	2.7	0	7.9	1	1.2	0	0.343	0	2.213	0	6.456	1	1858	35	1.3
51846.7	10000	41.9379	93.1687	-723	QL	2.4	0	8.0	1	1.2	0	0.302	-1	2.006	0	6.645	1	1863	47	1.3
51846.8	10000	41.9385	93.1687	-721	QL	2.5	0	7.8	1	1.2	0	0.318	-1	2.077	0	6.531	1	1862	42	1.3
51846.9	10000	41.9392	93.1688	-720	QL	2.4	0	8.0	1	1.2	0	0.300	-1	1.967	-1	6.563	1	1863	42	1.3
51847.0	10000	41.9398	93.1688	-716	QL	2.6	0	8.0	1	1.3	0	0.328	0	2.043	0	6.222	1	1868	47	1.3
51847.1	10000	41.9405	93.1688	-715	QL	2.8	0	7.4	1	1.3	0	0.373	0	2.169	0	5.812	-1	1859	48	1.3
51847.2	10000	41.9411	93.1689	-719	QL	2.7	0	7.7	1	1.2	0	0.357	0	2.190	0	6.136	0	1851	53	1.3
51847.3	10000	41.9417	93.1689	-719	QL	3.0	1	7.3	0	1.3	1	0.413	1	2.396	0	5.807	-1	1837	48	1.3

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51847.4	10000	41.9424	93.1689	-717	QL	3.1	1	7.1	0	1.3	1	0.434	1	2.403	0	5.532	-1	1835	47	1.3
51847.5	10000	41.9430	93.1690	-716	QL	3.0	1	7.2	0	1.3	1	0.422	1	2.393	0	5.673	-1	1836	33	1.3
51847.6	10000	41.9437	93.1690	-715	QL	2.9	1	6.7	-1	1.3	1	0.425	1	2.186	0	5.141	-2	1816	52	1.3
51847.7	10000	41.9443	93.1690	-714	QL	2.7	0	6.6	-1	1.3	1	0.405	1	2.127	0	5.254	-2	1792	40	1.3
51847.8	10000	41.9450	93.1691	-713	QL	2.3	-1	6.7	-1	1.3	1	0.347	0	1.853	-1	5.336	-1	1771	53	1.3
51847.9	10000	41.9456	93.1691	-712	QL	2.3	-1	7.0	0	1.2	1	0.322	-1	1.824	-1	5.663	-1	1763	30	1.2
51848.0	10000	41.9463	93.1691	-711	QL	2.2	-1	7.2	0	1.2	0	0.312	-1	1.839	-1	5.896	-1	1754	41	1.2
51848.1	10000	41.9469	93.1692	-711	QL	2.4	0	7.3	0	1.2	0	0.327	0	2.019	0	6.177	0	1749	48	1.2
51848.2	10000	41.9475	93.1692	-710	QL	2.4	0	7.2	0	1.1	0	0.336	0	2.118	0	6.296	0	1751	33	1.2
51848.3	10000	41.9482	93.1692	-709	QL	2.5	0	7.6	0	1.1	0	0.335	0	2.228	0	6.643	1	1745	35	1.2
51848.4	10000	41.9488	93.1693	-708	QL	2.5	0	7.7	1	1.1	0	0.331	0	2.240	0	6.764	1	1739	35	1.2
51848.5	10000	41.9495	93.1693	-707	QL	2.7	0	7.6	1	1.1	0	0.355	0	2.357	0	6.647	1	1746	41	1.2
51848.6	10000	41.9501	93.1693	-706	QL	2.9	1	7.3	0	1.1	-1	0.395	1	2.654	1	6.722	1	1753	47	1.2
51848.7	10000	41.9508	93.1694	-705	QL	2.9	1	7.2	0	1.1	-1	0.398	1	2.610	1	6.552	1	1762	45	1.2
51848.8	10000	41.9514	93.1694	-704	QL	2.7	0	7.1	0	1.1	-1	0.376	0	2.477	1	6.579	1	1760	37	1.2
51848.9	10000	41.9521	93.1694	-703	QL	2.9	1	6.8	-1	1.1	0	0.421	1	2.513	1	5.970	0	1760	39	1.2
51849.0	10000	41.9527	93.1695	-702	QL	3.1	1	7.1	0	1.1	-1	0.434	1	2.725	1	6.277	0	1772	53	1.2
51849.1	10000	41.9533	93.1695	-701	QL	3.1	1	7.0	0	1.1	-1	0.448	1	2.823	1	6.301	0	1782	54	1.2
51849.2	10000	41.9540	93.1695	-700	QL	3.1	1	7.1	0	1.1	-1	0.434	1	2.873	2	6.623	1	1776	36	1.2
51849.3	10000	41.9546	93.1696	-699	QL	2.8	0	6.9	-1	1.1	-1	0.405	1	2.550	1	6.301	0	1755	40	1.2
51849.4	10000	41.9553	93.1696	-698	QL	2.7	0	6.9	-1	1.1	-1	0.387	0	2.480	1	6.413	0	1741	51	1.2
51849.5	10000	41.9559	93.1696	-698	QL	2.6	0	7.0	0	1.1	-1	0.371	0	2.363	1	6.362	0	1715	52	1.2
51849.6	10000	41.9566	93.1697	-697	QL	2.3	-1	7.2	0	1.1	-1	0.327	0	2.191	0	6.689	1	1708	48	1.2
51849.7	10000	41.9572	93.1697	-696	QL	2.2	-1	6.7	-1	1.1	-1	0.323	-1	2.027	0	6.284	0	1708	52	1.2
51849.8	10000	41.9579	93.1697	-695	QL	2.4	0	7.1	0	1.1	-1	0.336	0	2.260	0	6.730	1	1708	33	1.2
51849.9	10000	41.9585	93.1698	-694	QL	2.6	0	7.0	0	1.1	-1	0.375	0	2.397	0	6.391	0	1719	50	1.2
51850.0	10000	41.9592	93.1698	-694	QL	2.7	0	7.1	0	1.1	-1	0.376	0	2.403	0	6.383	0	1741	40	1.2
51850.1	10000	41.9598	93.1698	-693	QL	2.6	0	7.1	0	1.1	-1	0.361	0	2.258	0	6.262	0	1757	40	1.2
51850.2	10000	41.9604	93.1699	-691	QL	2.5	0	6.9	-1	1.2	0	0.364	0	2.143	-1	5.893	-1	1781	53	1.2
51850.3	10000	41.9611	93.1699	-691	QL	2.5	0	7.0	0	1.2	0	0.353	0	2.032	-1	5.749	-1	1788	49	1.2
51850.4	10000	41.9617	93.1699	-690	QL	2.5	0	7.2	0	1.3	0	0.342	0	1.962	-1	5.740	-1	1783	41	1.2
51850.5	10000	41.9624	93.1700	-689	QL	2.1	-1	6.9	-1	1.3	-1	0.302	-1	1.657	-1	5.485	-1	1774	56	1.2
51850.6	10000	41.9630	93.1700	-688	QL	2.0	-1	6.9	-1	1.3	-1	0.296	-1	1.606	-1	5.426	-1	1764	35	1.2
51850.7	10000	41.9637	93.1700	-687	QL	2.1	-1	6.6	-1	1.3	-1	0.323	-1	1.674	-1	5.175	-2	1750	38	1.2
51850.8	10000	41.9643	93.1700	-687	QL	2.1	-1	6.5	-1	1.2	0	0.326	-1	1.741	-1	5.338	-1	1745	45	1.2
51850.9	10000	41.9650	93.1701	-686	QL	2.1	-1	7.1	0	1.2	-1	0.301	-1	1.748	-1	5.802	-1	1740	38	1.2
51851.0	10000	41.9656	93.1701	-685	QL	2.3	-1	7.2	0	1.2	-1	0.315	-1	1.944	-1	6.165	0	1735	42	1.2
51851.1	10000	41.9662	93.1702	-684	QL	2.4	0	7.1	0	1.1	-1	0.337	0	2.204	0	6.535	1	1731	47	1.2
51851.2	10000	41.9669	93.1702	-684	QL	2.6	0	7.3	0	1.1	-1	0.359	0	2.357	0	6.573	1	1748	53	1.2
51851.3	10000	41.9675	93.1702	-682	QL	2.5	0	7.6	1	1.1	-1	0.329	0	2.296	0	6.981	1	1754	41	1.2
51851.4	10000	41.9682	93.1702	-681	QL	2.4	0	7.7	1	1.1	-1	0.307	-1	2.220	0	7.237	2	1762	42	1.2
51851.5	10000	41.9688	93.1703	-680	QL	2.5	0	7.8	1	1.1	-1	0.322	-1	2.270	0	7.059	1	1770	52	1.2
51851.6	10000	41.9695	93.1703	-679	QL	2.8	0	7.8	1	1.1	-1	0.355	0	2.568	1	7.226	2	1778	59	1.2
51851.7	10000	41.9701	93.1703	-678	QL	2.6	0	7.7	1	1.1	-1	0.342	0	2.434	1	7.108	2	1792	48	1.2
51851.8	10000	41.9708	93.1704	-678	QL	2.6	0	7.4	1	1.1	-1	0.344	0	2.289	1	6.646	1	1808	46	1.2
51851.9	10000	41.9714	93.1704	-678	QL	2.5	0	7.5	0	1.2	0	0.334	0	2.162	0	6.465	0	1813	44	1.2
51852.0	10000	41.9720	93.1704	-677	QL	2.6	0	7.4	1	1.1	0	0.356	0	2.314	0	6.491	1	1808	37	1.2
51852.1	10000	41.9727	93.1705	-676	QL	2.8	0	7.6	1	1.2	0	0.366	0	2.408	1	6.583	1	1822	46	1.2
51852.2	10000	41.9733	93.1705	-675	QL	2.9	1	7.8	1	1.2	0	0.378	0	2.498	1	6.608	1	1837	46	1.2
51852.3	10000	41.9740	93.1705	-675	QL	2.7	0	7.6	1	1.2	0	0.354	0	2.314	1	6.541	1	1832	48	1.2
51852.4	10000	41.9746	93.1706	-674	QL	2.8	0	7.8	1	1.2	0	0.358	0	2.309	0	6.453	0	1818	59	1.2
51852.5	10000	41.9753	93.1706	-673	QL	2.5	0	8.2	2	1.2	1	0.306	-1	2.055	0	6.722	1	1819	46	1.2

LINE 1090 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
51852.6	10000	41.9759	93.1706	-672	QL	2.5	0	8.1	1	1.2	0	0.312	-1	2.105	0	6.742	1	1822	55	1.2
51852.7	10000	41.9766	93.1707	-672	QL	2.3	-1	8.1	1	1.2	1	0.282	-1	1.827	-1	6.470	0	1843	40	1.2
51852.8	10000	41.9772	93.1707	-671	QL	2.3	-1	8.2	1	1.3	1	0.285	-1	1.857	-1	6.507	1	1853	52	1.2
51852.9	10000	41.9779	93.1707	-670	QL	2.2	-1	8.1	1	1.3	1	0.274	-1	1.771	-1	6.467	0	1849	44	1.2
51853.0	10000	41.9785	93.1708	-670	QL	2.4	0	7.9	1	1.3	1	0.303	-1	1.896	-1	6.252	0	1860	43	1.2
51853.1	10000	41.9791	93.1708	-669	QL	2.4	0	7.9	1	1.3	1	0.306	-1	1.942	-1	6.348	0	1873	51	1.2
51853.2	10000	41.9798	93.1708	-669	QL	2.8	0	8.1	1	1.3	1	0.348	0	2.265	0	6.503	1	1881	50	1.2
51853.3	10000	41.9804	93.1709	-669	QL	3.0	1	8.0	1	1.3	1	0.371	0	2.327	0	6.272	0	1888	41	1.2
51853.4	10000	41.9811	93.1709	-668	QL	2.9	1	8.1	1	1.3	1	0.364	0	2.314	0	6.365	0	1883	44	1.2
51853.5	10000	41.9817	93.1709	-667	QK	2.9	1	7.9	1	1.3	1	0.366	0	2.258	0	6.169	0	1872	48	1.2
51853.6	10000	41.9824	93.1710	-667	QK	3.0	1	7.6	1	1.3	1	0.393	1	2.369	0	6.035	-1	1883	39	1.2
51853.7	10000	41.9830	93.1710	-666	QK	2.9	1	8.1	1	1.3	2	0.360	0	2.229	0	6.199	0	1889	51	1.2
51853.8	10000	41.9837	93.1710	-664	QK	2.9	1	8.1	1	1.3	2	0.353	0	2.133	0	6.049	-1	1886	47	1.2
51853.9	10000	41.9843	93.1711	-664	QK	2.7	0	7.8	1	1.3	2	0.353	0	2.059	0	5.826	-1	1893	55	1.2
51854.0	10000	41.9849	93.1711	-664	QK	2.7	0	8.1	1	1.3	2	0.335	0	2.090	0	6.231	0	1889	38	1.2
51854.1	10000	41.9856	93.1711	-663	QK	2.8	1	7.8	1	1.3	2	0.356	0	2.113	0	5.931	-1	1906	34	1.2
51854.2	10000	41.9862	93.1712	-662	QK	2.7	0	7.7	1	1.3	2	0.356	0	2.075	0	5.835	-1	1915	50	1.2
51854.3	10000	41.9869	93.1712	-662	QK	2.7	0	7.9	1	1.3	2	0.345	0	2.025	-1	5.871	-1	1911	44	1.2
51854.4	10000	41.9875	93.1712	-661	QK	3.0	1	7.7	1	1.3	2	0.387	1	2.269	0	5.860	-1	1904	52	1.2
51854.5	10000	41.9882	93.1713	-661	QK	3.0	1	7.6	0	1.3	1	0.402	1	2.470	0	6.142	0	1918	38	1.2
51854.6	10000	41.9888	93.1713	-660	QK	3.0	1	7.9	1	1.3	1	0.379	0	2.364	0	6.233	0	1914	33	1.2
51854.7	10000	41.9895	93.1713	-660	QK	3.0	1	7.6	1	1.3	1	0.400	1	2.364	0	5.910	-1	1906	44	1.2
51854.8	10000	41.9901	93.1714	-659	QK	3.1	1	7.7	1	1.3	1	0.407	1	2.497	0	6.134	0	1896	40	1.2
51854.9	10000	41.9908	93.1714	-658	QK	3.2	1	7.8	1	1.3	1	0.415	1	2.586	1	6.229	0	1889	57	1.2
51855.0	10000	41.9914	93.1714	-657	QK	3.1	1	7.4	0	1.3	1	0.415	1	2.497	0	6.023	-1	1869	47	1.2
51855.1	10000	41.9920	93.1714	-657	QK	3.0	1	7.0	0	1.3	1	0.425	1	2.403	0	5.650	-1	1853	53	1.2
51855.2	10000	41.9927	93.1715	-656	QK	2.9	1	7.0	0	1.3	1	0.418	1	2.310	0	5.528	-1	1840	39	1.2
51855.3	10000	41.9933	93.1715	-655	QK	3.1	1	6.6	-1	1.3	1	0.464	2	2.407	0	5.190	-2	1826	53	1.2
51855.4	10000	41.9940	93.1716	-655	QK	2.8	1	6.8	-1	1.3	1	0.416	1	2.244	0	5.394	-2	1832	51	1.2
51855.5	10000	41.9946	93.1716	-654	QK	2.8	1	6.9	0	1.3	1	0.406	1	2.186	0	5.380	-2	1826	44	1.2
51855.6	10000	41.9953	93.1716	-654	QK	2.7	0	7.0	0	1.3	1	0.381	0	2.103	0	5.517	-1	1818	40	1.2
51855.7	10000	41.9959	93.1716	-654	QK	2.7	0	7.4	0	1.3	1	0.368	0	2.108	0	5.733	-1	1832	49	1.2
51855.8	10000	41.9966	93.1717	-654	QK	2.6	0	8.0	1	1.3	2	0.323	0	1.986	-1	6.151	0	1844	43	1.2
51855.9	10000	41.9972	93.1717	-653	QK	2.6	0	8.1	1	1.4	2	0.314	-1	1.859	-1	5.914	-1	1860	42	1.2
51856.0	10000	41.9978	93.1718	-653	QL	2.4	0	8.1	1	1.4	2	0.297	-1	1.752	-1	5.908	0	1866	55	1.2
51856.1	10000	41.9985	93.1718	-652	QL	2.5	0	7.8	1	1.4	2	0.319	-1	1.775	-1	5.572	-1	1862	47	1.2
51856.2	10000	41.9991	93.1718	-651	QL	2.4	0	7.5	0	1.4	2	0.322	-1	1.715	-1	5.334	-1	1861	43	1.2
51856.3	10000	41.9998	93.1718	-650	QL	2.5	0	7.2	0	1.4	3	0.344	0	1.718	-1	4.998	-2	1866	54	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50193.5	10000	41.0061	92.8282	-698	QK	3.0	1	7.0	0	0.9	-2	0.433	1	3.322	2	7.676	2	1729	44	1.0
50193.4	10000	41.0067	92.8282	-699	QK	3.1	1	7.2	0	0.9	-2	0.428	1	3.339	2	7.802	2	1752	49	1.0
50193.3	10000	41.0073	92.8281	-700	QK	3.0	1	7.0	0	1.0	-1	0.436	1	3.164	2	7.260	1	1760	40	1.0
50193.2	10000	41.0080	92.8281	-700	QK	2.9	1	7.0	0	1.0	-1	0.414	1	2.973	1	7.189	1	1754	51	1.0
50193.1	10000	41.0086	92.8281	-702	QK	2.8	1	6.8	-1	1.0	-1	0.413	1	2.760	1	6.690	0	1747	37	1.0
50193.0	10000	41.0092	92.8281	-705	QK	2.6	0	6.8	-1	1.0	-1	0.385	0	2.491	0	6.479	0	1733	50	1.0
50192.9	10000	41.0098	92.8281	-706	QK	2.5	0	7.1	0	1.1	-1	0.351	0	2.360	0	6.730	0	1720	58	1.1
50192.8	10000	41.0104	92.8281	-708	QK	2.2	-1	7.0	0	1.0	-1	0.310	-1	2.097	0	6.755	0	1693	37	1.1
50192.7	10000	41.0110	92.8281	-709	QK	2.0	-1	6.9	0	1.0	-1	0.291	-1	1.971	-1	6.772	0	1645	36	1.1
50192.6	10000	41.0116	92.8281	-710	QK	1.9	-1	7.2	0	0.9	-2	0.270	-1	2.070	0	7.655	2	1618	41	1.1
50192.5	10000	41.0122	92.8281	-709	QK	2.0	-1	6.9	0	0.9	-2	0.285	-1	2.164	0	7.589	2	1589	44	1.1
50192.4	10000	41.0129	92.8281	-712	QK	2.0	-1	6.8	-1	0.8	-2	0.296	-1	2.366	0	8.004	2	1559	45	1.1
50192.3	10000	41.0135	92.8280	-714	QK	1.8	-1	6.5	-1	0.8	-2	0.280	-1	2.185	0	7.804	2	1549	58	1.1
50192.2	10000	41.0141	92.8280	-716	QK	1.8	-1	6.5	-1	0.8	-2	0.285	-1	2.180	0	7.655	2	1557	34	1.1
50192.1	10000	41.0147	92.8280	-717	QK	1.8	-1	6.3	-1	0.8	-2	0.285	-1	2.141	0	7.522	1	1554	46	1.1
50192.0	10000	41.0153	92.8280	-719	QK	2.1	-1	6.0	-2	0.9	-2	0.342	0	2.432	0	7.106	1	1583	36	1.1
50191.9	10000	41.0159	92.8280	-721	QK	2.0	-1	5.8	-2	0.9	-2	0.350	0	2.176	0	6.211	0	1600	46	1.1
50191.8	10000	41.0165	92.8280	-723	QK	1.9	-1	6.0	-2	1.0	-1	0.313	-1	1.831	-1	5.843	-1	1661	40	1.1
50191.7	10000	41.0172	92.8280	-724	QK	2.0	-1	6.0	-2	1.1	0	0.333	0	1.883	-1	5.647	-1	1700	43	1.1
50191.6	10000	41.0178	92.8280	-726	QK	2.1	-1	6.3	-1	1.1	0	0.333	0	1.948	-1	5.855	-1	1717	47	1.2
50191.5	10000	41.0184	92.8280	-727	QK	2.0	-1	6.4	-1	1.1	0	0.309	-1	1.866	-1	6.039	-1	1709	48	1.2
50191.4	10000	41.0190	92.8280	-729	QK	2.0	-1	6.4	-1	1.1	0	0.315	0	1.827	-1	5.794	-1	1693	52	1.2
50191.3	10000	41.0196	92.8280	-730	QK	1.6	-2	6.4	-1	1.1	0	0.253	-1	1.472	-2	5.820	-1	1655	49	1.2
50191.2	10000	41.0202	92.8279	-732	QK	1.5	-2	6.3	-1	1.0	-1	0.244	-1	1.486	-2	6.082	-1	1614	52	1.2
50191.1	10000	41.0208	92.8279	-733	QK	1.7	-2	6.2	-1	0.9	-2	0.272	-1	1.820	-1	6.684	0	1534	47	1.2
50191.0	10000	41.0214	92.8279	-734	QK	1.5	-2	6.4	-1	0.9	-2	0.238	-2	1.639	-1	6.883	1	1483	41	1.2
50190.9	10000	41.0221	92.8279	-735	QK	1.5	-2	6.2	-1	0.9	-2	0.236	-2	1.651	-1	6.990	1	1449	36	1.2
50190.8	10000	41.0227	92.8279	-736	QK	1.7	-2	5.8	-2	0.9	-2	0.294	-1	1.998	-1	6.791	2	1425	44	1.2
50190.7	10000	41.0233	92.8279	-737	QK	1.9	-1	5.8	-2	0.8	-2	0.317	-1	2.391	0	7.539	2	1420	45	1.2
50190.6	10000	41.0239	92.8279	-738	QK	2.2	-1	5.8	-2	0.7	-2	0.379	0	2.990	1	7.889	2	1423	44	1.2
50190.5	10000	41.0245	92.8279	-738	QK	2.4	0	6.0	-2	0.7	-2	0.404	0	3.272	1	8.091	2	1432	46	1.2
50190.4	10000	41.0251	92.8279	-739	QK	2.5	0	5.8	-2	0.7	-2	0.430	0	3.350	1	7.784	2	1455	47	1.2
50190.3	10000	41.0257	92.8279	-739	QK	2.5	0	5.6	-2	0.8	-2	0.449	0	3.315	1	7.377	1	1485	35	1.2
50190.2	10000	41.0264	92.8279	-740	QK	2.7	0	5.7	-2	0.8	-2	0.474	0	3.505	1	7.393	1	1511	45	1.2
50190.1	10000	41.0270	92.8278	-739	QK	2.6	0	5.7	-2	0.8	-2	0.450	0	3.138	1	6.979	1	1515	31	1.2
50190.0	10000	41.0276	92.8278	-740	QK	2.3	0	5.9	-2	0.9	-2	0.386	0	2.637	1	6.837	1	1531	45	1.2
50189.9	10000	41.0282	92.8278	-741	QK	2.1	-1	5.9	-2	0.9	-2	0.363	0	2.464	0	6.787	1	1538	43	1.2
50189.8	10000	41.0288	92.8278	-742	QK	2.1	-1	5.7	-2	0.9	-2	0.367	0	2.409	0	6.570	1	1558	47	1.2
50189.7	10000	41.0294	92.8278	-743	QK	1.9	-1	6.2	-1	0.9	-2	0.304	-1	2.189	0	7.207	2	1587	42	1.2
50189.6	10000	41.0300	92.8278	-744	QK	2.0	-1	6.6	-1	0.9	-2	0.298	-1	2.286	0	7.673	2	1604	35	1.2
50189.5	10000	41.0307	92.8278	-746	QK	2.0	-1	6.8	-1	0.9	-2	0.297	-1	2.378	0	8.013	2	1624	42	1.2
50189.4	10000	41.0313	92.8278	-748	QK	1.7	-2	7.0	0	0.9	-2	0.248	-1	1.998	-1	8.058	2	1644	48	1.2
50189.3	10000	41.0319	92.8278	-749	QK	1.8	-2	7.0	0	0.9	-2	0.253	-1	2.099	0	8.286	2	1652	33	1.2
50189.2	10000	41.0325	92.8278	-751	QK	1.8	-2	7.3	0	0.9	-2	0.244	-1	2.079	0	8.531	3	1653	43	1.2
50189.1	10000	41.0331	92.8277	-753	QK	1.7	-2	7.6	0	0.9	-2	0.224	-2	1.983	-1	8.847	3	1637	45	1.2
50189.0	10000	41.0337	92.8277	-755	QK	1.8	-1	7.3	0	0.9	-2	0.245	-1	2.072	0	8.464	3	1604	45	1.2
50188.9	10000	41.0343	92.8277	-757	QK	1.9	-1	7.2	0	0.9	-2	0.263	-1	2.223	0	8.437	3	1586	39	1.2
50188.8	10000	41.0349	92.8277	-760	QK	1.8	-1	7.0	0	0.9	-2	0.259	-1	2.074	0	8.000	2	1569	36	1.2
50188.7	10000	41.0356	92.8277	-762	QK	2.0	-1	7.1	0	0.9	-2	0.282	-1	2.212	0	7.831	2	1580	47	1.2
50188.6	10000	41.0362	92.8277	-764	QK	1.9	-1	7.0	0	0.9	-2	0.264	-1	2.005	-1	7.590	2	1599	44	1.2
50188.5	10000	41.0368	92.8277	-766	QK	1.9	-1	7.0	0	1.0	-1	0.269	-1	1.856	-1	6.907	1	1636	42	1.2
50188.4	10000	41.0374	92.8277	-767	QK	1.9	-1	6.9	0	1.0	-1	0.272	-1	1.829	-1	6.720	0	1668	42	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50188.3	10000	41.0380	92.8277	-769	QK	1.9	-1	6.8	-1	1.0	-1	0.284	-1	1.897	-1	6.682	0	1699	54	1.1
50188.2	10000	41.0386	92.8277	-770	QK	1.7	-2	7.0	0	1.0	-1	0.249	-1	1.668	-1	6.691	0	1726	41	1.1
50188.1	10000	41.0392	92.8277	-771	QK	1.7	-2	6.9	0	1.1	0	0.253	-1	1.620	-1	6.414	0	1756	42	1.1
50188.0	10000	41.0399	92.8276	-775	QK	2.0	-1	6.9	0	1.1	-1	0.294	-1	1.924	-1	6.540	0	1773	34	1.1
50187.9	10000	41.0405	92.8276	-778	QK	2.2	-1	7.2	0	1.1	0	0.307	-1	2.047	0	6.663	0	1792	43	1.1
50187.8	10000	41.0411	92.8276	-781	QK	2.1	-1	7.4	0	1.0	-1	0.282	-1	2.028	-1	7.192	1	1784	45	1.1
50187.7	10000	41.0417	92.8276	-784	QK	2.3	0	7.4	0	1.1	-1	0.309	-1	2.184	0	7.058	1	1801	43	1.1
50187.6	10000	41.0423	92.8276	-786	QK	2.2	-1	7.7	1	1.1	0	0.283	-1	2.045	0	7.236	1	1809	47	1.1
50187.5	10000	41.0429	92.8276	-789	QK	2.4	0	7.8	1	1.1	0	0.306	-1	2.237	0	7.321	1	1814	48	1.1
50187.4	10000	41.0435	92.8276	-792	QK	2.5	0	8.0	1	1.1	-1	0.316	0	2.383	0	7.545	2	1815	43	1.1
50187.3	10000	41.0441	92.8276	-795	QK	2.4	0	8.0	1	1.1	0	0.292	-1	2.154	0	7.373	1	1814	59	1.1
50187.2	10000	41.0448	92.8276	-798	QK	2.4	0	7.8	1	1.1	-1	0.308	-1	2.293	0	7.454	1	1790	40	1.1
50187.1	10000	41.0454	92.8275	-802	QK	2.3	-1	7.8	1	1.0	-1	0.300	-1	2.274	0	7.575	2	1767	39	1.1
50187.0	10000	41.0460	92.8275	-805	QK	2.0	-1	7.5	0	1.0	-1	0.271	-1	2.075	0	7.650	2	1701	44	1.1
50186.9	10000	41.0466	92.8275	-809	QK	2.0	-1	7.1	0	0.9	-2	0.280	-1	2.170	0	7.742	2	1635	36	1.1
50186.8	10000	41.0472	92.8275	-813	QK	1.8	-2	6.6	-1	0.8	-2	0.270	-1	2.154	0	7.974	2	1532	52	1.1
50186.7	10000	41.0478	92.8275	-817	QK	1.6	-2	6.1	-2	0.7	-4	0.271	-1	2.354	0	8.701	3	1419	40	1.1
50186.6	10000	41.0484	92.8275	-820	QK	1.4	-2	5.6	-2	0.6	-4	0.254	-1	2.357	0	9.281	4	1304	39	1.1
50186.5	10000	41.0490	92.8275	-825	QK	1.2	-3	5.0	-3	0.5	-5	0.243	-1	2.246	0	9.251	4	1229	47	1.1
50186.4	10000	41.0497	92.8275	-829	QK	1.2	-3	4.6	-4	0.6	-5	0.258	-1	2.143	0	8.323	3	1212	27	1.1
50186.3	10000	41.0503	92.8275	-834	QK	1.3	-3	5.0	-3	0.6	-5	0.262	-1	2.303	0	8.781	3	1251	55	1.1
50186.2	10000	41.0509	92.8275	-839	QK	1.6	-2	5.5	-2	0.7	-4	0.291	-1	2.363	0	8.108	2	1332	42	1.1
50186.1	10000	41.0515	92.8275	-843	QK	1.7	-2	6.1	-1	0.8	-3	0.275	-1	2.182	0	7.927	2	1437	58	1.1
50186.0	10000	41.0521	92.8274	-848	QK	1.7	-2	6.6	-1	0.9	-1	0.260	-1	1.805	-1	6.945	1	1543	38	1.1
50185.9	10000	41.0527	92.8274	-853	QK	1.6	-2	6.7	-1	1.0	-1	0.245	-1	1.572	-1	6.429	0	1633	36	1.1
50185.8	10000	41.0533	92.8274	-859	QK	1.9	-1	7.1	0	1.1	0	0.272	-1	1.705	-1	6.276	0	1709	51	1.1
50185.7	10000	41.0540	92.8274	-863	QK	1.9	-1	7.5	0	1.2	0	0.254	-1	1.633	-1	6.425	0	1755	48	1.1
50185.6	10000	41.0546	92.8274	-870	QK	1.8	-2	7.7	1	1.2	1	0.230	-2	1.456	-2	6.330	0	1797	43	1.1
50185.5	10000	41.0552	92.8274	-878	QK	1.7	-2	7.4	0	1.2	1	0.229	-2	1.411	-2	6.168	0	1785	50	1.1
50185.4	10000	41.0558	92.8274	-886	QK	1.7	-2	6.9	0	1.2	1	0.251	-1	1.438	-2	5.719	-1	1794	46	1.1
50185.3	10000	41.0564	92.8274	-891	QK	1.8	-1	7.1	0	1.2	1	0.260	-1	1.575	-1	6.059	-1	1808	39	1.1
50185.2	10000	41.0570	92.8274	-898	QK	2.0	-1	7.2	0	1.1	1	0.281	-1	1.804	-1	6.414	0	1824	43	1.1
50185.1	10000	41.0576	92.8274	-905	QK	1.7	-2	7.4	0	1.1	1	0.234	-2	1.530	-2	6.536	0	1827	41	1.1
50185.0	10000	41.0583	92.8273	-913	QK	1.8	-1	7.2	0	1.2	1	0.248	-1	1.534	-2	6.173	0	1841	41	1.1
50184.9	10000	41.0589	92.8273	-921	QK	2.0	-1	6.9	0	1.2	1	0.289	-1	1.705	-1	5.902	-1	1825	29	1.1
50184.8	10000	41.0595	92.8273	-930	QK	1.9	-1	6.9	0	1.2	1	0.277	-1	1.637	-1	5.918	-1	1824	34	1.1
50184.7	10000	41.0601	92.8273	-938	QK	1.8	-1	6.9	0	1.2	1	0.261	-1	1.555	-2	5.963	-1	1806	37	1.1
50184.6	10000	41.0607	92.8273	-946	QK	1.7	-2	7.1	0	1.2	1	0.238	-2	1.441	-2	6.064	-1	1786	44	1.1
50184.5	10000	41.0613	92.8273	-955	QK	1.6	-2	7.6	0	1.2	1	0.210	-2	1.353	-2	6.440	0	1774	46	1.1
50184.4	10000	41.0619	92.8273	-964	QK	1.8	-2	7.8	1	1.2	1	0.225	-2	1.509	-2	6.698	0	1790	40	1.1
50184.3	10000	41.0625	92.8273	-974	QK	2.0	-1	8.2	1	1.1	1	0.241	-2	1.749	-1	7.264	1	1783	53	1.1
50184.2	10000	41.0632	92.8273	-983	QK	2.0	-1	8.4	1	1.1	1	0.242	-2	1.825	-1	7.534	1	1794	45	1.1
50184.1	10000	41.0638	92.8273	-994	QK	2.2	-1	8.8	1	1.1	1	0.246	-1	1.907	-1	7.766	2	1816	49	1.1
50184.0	10000	41.0644	92.8273	-1004	QK	2.3	0	8.9	1	1.2	1	0.258	-1	1.947	-1	7.544	2	1838	52	1.1
50183.9	10000	41.0650	92.8272	-1014	QK	2.5	0	9.3	1	1.2	1	0.301	-1	2.111	0	7.009	1	1852	52	1.1
50183.8	10000	41.0656	92.8272	-1024	QK	2.6	0	7.9	1	1.3	1	0.330	0	2.173	0	6.584	0	1875	40	1.1
50183.7	10000	41.0662	92.8272	-1035	QK	2.7	0	7.3	1	1.3	1	0.372	0	2.168	0	5.834	-1	1865	50	1.1
50183.6	10000	41.0668	92.8272	-1045	QK	2.6	0	6.8	0	1.3	1	0.382	0	2.044	0	5.349	-2	1872	43	1.1
50183.5	10000	41.0675	92.8272	-1056	QK	2.6	0	6.7	-1	1.3	1	0.385	0	1.999	-1	5.190	-2	1872	46	1.1
50183.4	10000	41.0681	92.8272	-1065	QK	2.6	0	6.5	-1	1.3	2	0.400	0	2.002	-1	5.007	-2	1866	41	1.1
50183.3	10000	41.0687	92.8272	-1074	QK	2.5	0	6.6	-1	1.3	1	0.378	0	2.035	0	5.384	-2	1844	48	1.1
50183.2	10000	41.0693	92.8272	-1083	QK	2.3	-1	6.7	-1	1.2	1	0.337	0	1.860	-1	5.525	-1	1837	52	1.1

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50183.1	10000	41.0699	92.8272	-1091	QK	2.4	0	6.8	-1	1.2	1	0.350	0	2.023	-1	5.787	-1	1827	30	1.1
50183.0	10000	41.0705	92.8271	-1099	QK	2.4	0	7.2	0	1.1	0	0.326	0	2.086	0	6.407	0	1831	40	1.1
50182.9	10000	41.0711	92.8271	-1107	QK	2.6	0	7.7	1	1.1	0	0.333	0	2.363	0	7.093	1	1826	45	1.1
50182.8	10000	41.0717	92.8271	-1113	QK	2.3	0	7.4	0	1.1	0	0.317	0	2.205	0	6.953	1	1808	24	1.1
50182.7	10000	41.0723	92.8271	-1119	QK	2.3	0	7.2	0	1.1	0	0.317	0	2.104	0	6.631	0	1803	40	1.1
50182.6	10000	41.0730	92.8271	-1124	QK	2.5	0	7.0	0	1.1	0	0.352	0	2.176	0	6.178	0	1805	32	1.1
50182.5	10000	41.0736	92.8271	-1128	QK	2.7	0	7.0	0	1.1	0	0.384	0	2.445	0	6.373	0	1793	44	1.1
50182.4	10000	41.0742	92.8271	-1131	QK	2.7	0	6.7	-1	1.1	0	0.405	1	2.441	0	6.025	-1	1790	41	1.1
50182.3	10000	41.0748	92.8271	-1133	QK	2.7	0	6.5	-1	1.1	0	0.414	1	2.492	0	6.026	-1	1781	37	1.1
50182.2	10000	41.0754	92.8271	-1134	QK	2.5	0	6.6	-1	1.1	0	0.378	0	2.244	0	5.942	-1	1776	51	1.1
50182.1	10000	41.0759	92.8271	-1135	QK	2.5	0	6.8	-1	1.1	0	0.371	0	2.287	0	6.171	0	1783	33	1.1
50182.0	10000	41.0765	92.8271	-1136	QK	2.4	0	6.7	-1	1.0	-1	0.358	0	2.321	0	6.481	0	1782	32	1.1
50181.9	10000	41.0770	92.8271	-1135	QK	2.3	-1	6.8	-1	1.0	-1	0.335	0	2.235	0	6.672	0	1794	38	1.1
50181.8	10000	41.0776	92.8271	-1133	QK	2.2	-1	6.8	-1	1.1	0	0.318	0	1.980	-1	6.218	0	1821	45	1.1
50181.7	10000	41.0781	92.8271	-1132	QK	2.1	-1	6.7	-1	1.1	0	0.313	-1	1.895	-1	6.048	-1	1823	42	1.1
50181.6	10000	41.0787	92.8271	-1129	QK	2.0	-1	6.7	-1	1.2	0	0.294	-1	1.716	-1	5.835	-1	1831	52	1.1
50181.5	10000	41.0792	92.8271	-1125	QK	2.1	-1	6.2	-1	1.2	0	0.339	0	1.790	-1	5.286	-2	1837	33	1.1
50181.4	10000	41.0798	92.8271	-1125	QK	2.4	0	6.0	-2	1.2	0	0.389	0	2.033	0	5.225	-2	1839	46	1.1
50181.3	10000	41.0803	92.8271	-1124	QK	2.3	-1	6.4	-1	1.2	1	0.355	0	1.821	-1	5.126	-2	1848	43	1.1
50181.2	10000	41.0809	92.8271	-1121	QK	2.4	0	6.4	-1	1.3	1	0.378	0	1.876	-1	4.961	-2	1846	40	1.1
50181.1	10000	41.0814	92.8271	-1119	QK	2.2	-1	6.3	-1	1.2	1	0.349	0	1.805	-1	5.176	-2	1824	44	1.1
50181.0	10000	41.0820	92.8271	-1116	QK	2.2	-1	6.6	-1	1.3	1	0.332	0	1.717	-1	5.177	-2	1847	43	1.1
50180.9	10000	41.0826	92.8271	-1113	QK	2.2	-1	6.5	-1	1.3	1	0.332	0	1.685	-1	5.071	-2	1850	44	1.1
50180.8	10000	41.0831	92.8271	-1110	QK	1.9	-1	6.5	-1	1.3	1	0.292	-1	1.477	-2	5.054	-2	1851	42	1.1
50180.7	10000	41.0837	92.8271	-1107	QK	1.7	-2	7.1	0	1.3	2	0.241	-2	1.307	-2	5.422	-2	1862	46	1.1
50180.6	10000	41.0842	92.8271	-1105	QK	1.9	-1	7.0	0	1.3	1	0.266	-1	1.462	-2	5.495	-1	1861	37	1.1
50180.5	10000	41.0848	92.8271	-1103	QK	1.6	-2	7.4	0	1.3	1	0.221	-2	1.295	-2	5.871	-1	1863	49	1.2
50180.4	10000	41.0853	92.8271	-1101	QK	1.8	-2	7.8	0	1.3	1	0.230	-2	1.394	-2	6.056	-1	1876	34	1.2
50180.3	10000	41.0859	92.8271	-1101	QK	1.6	-2	7.8	0	1.2	1	0.203	-2	1.349	-2	6.654	0	1847	51	1.2
50180.2	10000	41.0864	92.8271	-1100	QK	1.7	-2	7.9	0	1.1	0	0.212	-2	1.469	-2	6.940	1	1830	45	1.2
50180.1	10000	41.0870	92.8271	-1099	QK	1.7	-2	8.0	0	1.0	-1	0.215	-2	1.633	-1	7.613	2	1789	50	1.2
50180.0	10000	41.0875	92.8271	-1098	QK	1.7	-2	7.7	0	1.0	-1	0.221	-2	1.685	-1	7.615	2	1751	44	1.2
50179.9	10000	41.0881	92.8271	-1097	QK	1.7	-2	7.4	0	0.9	-2	0.235	-2	1.845	-1	7.867	2	1722	49	1.2
50179.8	10000	41.0886	92.8271	-1097	QK	1.9	-1	7.5	0	0.9	-2	0.248	-1	2.152	0	8.692	3	1700	40	1.2
50179.7	10000	41.0892	92.8271	-1097	QK	1.7	-2	7.3	0	0.8	-2	0.240	-2	2.088	0	8.719	3	1679	36	1.2
50179.6	10000	41.0898	92.8271	-1097	QK	1.8	-2	7.7	0	0.9	-2	0.229	-2	2.062	0	9.018	4	1683	37	1.2
50179.5	10000	41.0903	92.8271	-1097	QK	2.1	-1	8.0	0	0.9	-2	0.260	-1	2.325	0	8.942	3	1691	44	1.2
50179.4	10000	41.0909	92.8271	-1097	QK	2.3	0	7.9	0	0.9	-2	0.288	-1	2.443	0	8.496	3	1720	36	1.2
50179.3	10000	41.0914	92.8271	-1097	QK	2.2	-1	8.2	0	0.9	-1	0.275	-1	2.361	0	8.598	3	1729	36	1.2
50179.2	10000	41.0920	92.8271	-1097	QK	2.1	-1	8.4	0	1.0	-1	0.251	-1	2.141	0	8.530	3	1746	42	1.2
50179.1	10000	41.0925	92.8271	-1097	QK	2.1	-1	8.3	0	1.0	-1	0.253	-1	2.014	-1	7.953	2	1757	49	1.2
50179.0	10000	41.0931	92.8271	-1097	QK	2.3	-1	8.3	0	1.1	0	0.275	-1	2.143	0	7.791	2	1765	53	1.2
50178.9	10000	41.0936	92.8271	-1096	QK	2.4	0	7.8	0	1.1	-1	0.301	-1	2.237	0	7.441	1	1770	31	1.2
50178.8	10000	41.0942	92.8271	-1095	QK	2.3	0	7.4	0	1.1	-1	0.315	0	2.269	0	7.195	1	1762	47	1.2
50178.7	10000	41.0947	92.8271	-1095	QK	2.4	0	7.3	0	1.1	-1	0.323	0	2.299	0	7.122	1	1760	47	1.2
50178.6	10000	41.0953	92.8271	-1093	QK	2.3	0	6.9	-1	1.1	-1	0.341	0	2.297	0	6.745	0	1759	46	1.2
50178.5	10000	41.0958	92.8271	-1092	QK	2.6	0	6.6	-1	1.1	-1	0.394	0	2.541	0	6.457	0	1753	52	1.2
50178.4	10000	41.0964	92.8271	-1091	QK	2.4	0	6.3	-1	1.1	-1	0.386	0	2.387	0	6.186	0	1747	46	1.2
50178.3	10000	41.0969	92.8271	-1088	QK	2.5	0	6.3	-1	1.1	-1	0.394	1	2.369	0	6.017	-1	1747	43	1.2
50178.2	10000	41.0975	92.8271	-1086	QK	2.4	0	5.8	-2	1.1	-1	0.409	1	2.260	0	5.526	-1	1734	47	1.2
50178.1	10000	41.0980	92.8271	-1083	QK	2.3	-1	6.4	-1	1.1	0	0.354	0	2.102	0	5.941	-1	1743	46	1.2
50178.0	10000	41.0986	92.8271	-1080	QK	2.1	-1	6.8	-1	1.1	-1	0.311	-1	2.002	-1	6.446	0	1752	44	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50177.9	10000	41.0992	92.8271	-1077	QK	2.3	-1	7.1	0	1.1	-1	0.319	0	2.129	0	6.665	0	1768	40	1.2
50177.8	10000	41.0997	92.8271	-1074	QK	2.1	-1	7.0	0	1.1	0	0.297	-1	1.951	-1	6.577	0	1781	41	1.2
50177.7	10000	41.1003	92.8271	-1071	QK	2.2	-1	7.4	0	1.1	0	0.301	-1	2.025	-1	6.720	0	1809	36	1.2
50177.6	10000	41.1008	92.8271	-1067	QK	2.1	-1	7.7	1	1.1	0	0.278	-1	1.888	-1	6.796	0	1835	36	1.2
50177.5	10000	41.1014	92.8271	-1063	QK	2.1	-1	8.2	1	1.1	0	0.262	-1	1.867	-1	7.137	1	1852	37	1.2
50177.4	10000	41.1019	92.8271	-1059	QK	1.9	-1	8.3	1	1.2	0	0.228	-2	1.629	-1	7.143	1	1866	35	1.2
50177.3	10000	41.1025	92.8271	-1055	QK	1.8	-1	8.1	1	1.2	1	0.223	-2	1.457	-2	6.546	0	1879	34	1.2
50177.2	10000	41.1030	92.8271	-1051	QK	1.7	-2	8.2	1	1.3	1	0.212	-2	1.382	-2	6.512	0	1889	36	1.2
50177.1	10000	41.1036	92.8271	-1046	QK	2.0	-1	8.5	2	1.2	1	0.232	-2	1.591	-1	6.867	1	1904	39	1.2
50177.0	10000	41.1041	92.8271	-1041	QK	1.8	-2	8.4	2	1.2	1	0.211	-2	1.445	-2	6.859	1	1903	25	1.2
50176.9	10000	41.1047	92.8271	-1037	QK	1.7	-2	8.5	2	1.2	1	0.196	-2	1.348	-2	6.896	1	1914	34	1.2
50176.8	10000	41.1052	92.8271	-1031	QK	1.9	-1	8.1	1	1.2	1	0.238	-2	1.590	-1	6.679	0	1917	42	1.2
50176.7	10000	41.1058	92.8271	-1027	QK	2.2	-1	7.8	1	1.2	1	0.286	-1	1.850	-1	6.465	0	1911	41	1.2
50176.6	10000	41.1064	92.8271	-1022	QK	2.4	0	7.7	1	1.2	0	0.314	-1	2.071	0	6.587	0	1906	54	1.2
50176.5	10000	41.1069	92.8271	-1017	QK	2.4	0	7.3	0	1.2	0	0.327	0	2.074	0	6.346	0	1889	47	1.2
50176.4	10000	41.1075	92.8271	-1013	QK	2.1	-1	7.6	0	1.2	0	0.282	-1	1.853	-1	6.581	0	1863	33	1.2
50176.3	10000	41.1080	92.8271	-1008	QK	2.7	0	7.3	0	1.1	0	0.370	0	2.450	0	6.614	0	1861	37	1.2
50176.2	10000	41.1086	92.8271	-1003	QK	3.0	1	6.8	-1	1.0	-1	0.444	0	2.943	1	6.622	0	1838	42	1.2
50176.1	10000	41.1091	92.8271	-999	QK	3.0	1	7.1	0	1.0	-1	0.421	1	2.969	1	7.057	1	1831	43	1.2
50176.0	10000	41.1097	92.8271	-994	QK	2.7	1	7.0	0	1.0	-1	0.391	1	2.855	1	7.295	1	1825	46	1.2
50175.9	10000	41.1102	92.8271	-990	QK	2.5	1	6.9	0	0.9	-1	0.365	0	2.659	1	7.293	1	1803	43	1.2
50175.8	10000	41.1108	92.8271	-985	QK	2.7	1	7.4	0	1.0	-1	0.366	0	2.827	1	7.724	2	1814	48	1.2
50175.7	10000	41.1113	92.8271	-981	QK	2.9	1	7.1	0	1.0	-1	0.411	1	3.031	2	7.370	1	1838	36	1.2
50175.6	10000	41.1119	92.8271	-977	QK	2.8	1	7.0	0	1.0	-1	0.398	1	2.887	1	7.254	1	1834	43	1.2
50175.5	10000	41.1124	92.8271	-974	QK	2.6	1	7.2	0	1.0	-1	0.355	0	2.666	1	7.502	1	1849	53	1.2
50175.4	10000	41.1130	92.8271	-970	QK	2.5	0	7.1	0	1.0	-1	0.350	0	2.534	1	7.243	1	1863	54	1.2
50175.3	10000	41.1135	92.8271	-967	QK	2.6	0	7.3	1	1.1	-1	0.351	0	2.445	0	6.965	1	1873	40	1.2
50175.2	10000	41.1141	92.8271	-963	QK	2.6	0	7.8	1	1.0	-1	0.339	0	2.517	1	7.415	1	1895	49	1.2
50175.1	10000	41.1147	92.8271	-959	QK	2.5	0	7.8	1	1.0	-1	0.315	-1	2.371	0	7.535	1	1885	42	1.2
50175.0	10000	41.1152	92.8271	-956	QK	2.4	0	8.0	1	1.1	-1	0.303	-1	2.299	0	7.593	2	1879	54	1.2
50174.9	10000	41.1158	92.8271	-953	QK	2.2	-1	8.4	2	1.1	-1	0.259	-1	1.974	-1	7.635	2	1886	37	1.2
50174.8	10000	41.1163	92.8271	-951	QK	2.3	0	8.3	2	1.1	-1	0.277	-1	2.073	0	7.494	1	1868	34	1.2
50174.7	10000	41.1169	92.8270	-948	QK	2.4	0	8.3	2	1.1	-1	0.283	-1	2.091	0	7.382	1	1856	39	1.2
50174.6	10000	41.1174	92.8270	-946	QK	2.6	0	8.0	1	1.1	0	0.328	0	2.454	0	7.481	1	1860	51	1.2
50174.5	10000	41.1180	92.8270	-944	QK	2.8	0	7.5	1	1.1	0	0.368	0	2.620	1	7.118	1	1846	45	1.1
50174.4	10000	41.1185	92.8270	-942	QK	3.0	1	7.1	1	1.0	0	0.422	1	2.877	1	6.814	1	1850	40	1.1
50174.3	10000	41.1191	92.8270	-940	QK	3.0	1	6.9	1	1.0	0	0.431	1	2.860	1	6.635	0	1846	46	1.1
50174.2	10000	41.1196	92.8270	-938	QK	3.0	1	7.0	1	1.0	0	0.434	1	3.046	2	7.011	1	1838	35	1.1
50174.1	10000	41.1202	92.8270	-936	QK	2.9	1	7.0	1	1.0	0	0.438	1	2.947	1	6.721	0	1860	27	1.1
50174.0	10000	41.1207	92.8270	-935	QK	2.9	1	7.3	1	1.1	-1	0.394	1	2.719	1	6.909	1	1873	42	1.1
50173.9	10000	41.1213	92.8270	-934	QK	2.7	1	7.3	1	1.1	0	0.342	0	2.462	1	7.199	1	1875	40	1.1
50173.8	10000	41.1218	92.8270	-933	QK	2.8	1	8.3	1	1.1	0	0.333	0	2.507	1	7.519	1	1896	31	1.1
50173.7	10000	41.1224	92.8270	-932	QK	2.4	0	8.1	1	1.1	0	0.302	-1	2.222	1	7.369	1	1895	36	1.1
50173.6	10000	41.1229	92.8270	-931	QK	2.5	0	8.4	2	1.1	0	0.300	-1	2.264	1	7.546	2	1910	40	1.1
50173.5	10000	41.1235	92.8270	-930	QK	2.6	0	8.3	2	1.1	0	0.308	-1	2.296	1	7.443	1	1915	35	1.1
50173.4	10000	41.1241	92.8270	-928	QK	2.3	-1	8.3	2	1.1	0	0.267	-1	2.009	-1	7.520	1	1899	39	1.1
50173.3	10000	41.1246	92.8270	-928	QK	2.4	0	8.3	2	1.1	0	0.284	-1	2.151	0	7.571	2	1877	38	1.1
50173.2	10000	41.1252	92.8270	-927	QK	2.5	0	7.8	2	1.1	0	0.322	-1	2.240	0	6.960	1	1863	42	1.1
50173.1	10000	41.1257	92.8270	-927	QK	2.4	0	7.6	1	1.1	0	0.309	-1	2.136	0	6.902	1	1840	38	1.1
50173.0	10000	41.1263	92.8270	-927	QK	2.5	0	7.7	1	1.1	0	0.320	-1	2.179	0	6.815	1	1842	44	1.1
50172.9	10000	41.1268	92.8270	-926	QK	2.3	0	7.3	1	1.1	0	0.315	-1	2.060	0	6.531	0	1812	44	1.1
50172.8	10000	41.1274	92.8270	-926	QK	2.3	-1	7.0	0	1.1	0	0.322	0	1.963	-1	6.086	-1	1800	42	1.1

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50172.7	10000	41.1279	92.8270	-926	QK	2.5	0	6.8	-1	1.2	0	0.372	0	2.148	0	5.778	-1	1807	37	1.1
50172.6	10000	41.1285	92.8270	-925	QK	2.4	0	6.6	-1	1.2	1	0.357	0	1.991	-1	5.576	-1	1808	47	1.1
50172.5	10000	41.1290	92.8270	-924	QK	2.4	0	6.7	-1	1.2	1	0.354	0	1.971	-1	5.573	-1	1809	25	1.1
50172.4	10000	41.1296	92.8270	-924	QK	2.3	-1	6.6	-1	1.2	1	0.344	0	1.859	-1	5.405	-2	1821	42	1.1
50172.3	10000	41.1302	92.8270	-924	QK	2.4	0	6.8	-1	1.2	1	0.353	0	1.973	-1	5.583	-1	1813	43	1.0
50172.2	10000	41.1307	92.8270	-924	QK	2.1	-1	6.9	0	1.2	1	0.311	-1	1.774	-1	5.703	-1	1818	42	1.0
50172.1	10000	41.1312	92.8270	-923	QK	2.2	-1	7.0	0	1.2	1	0.310	-1	1.803	-1	5.809	-1	1818	54	1.0
50172.0	10000	41.1318	92.8270	-923	QK	2.1	-1	7.1	0	1.2	0	0.300	-1	1.830	-1	6.102	-1	1802	58	1.0
50171.9	10000	41.1324	92.8270	-922	QK	2.3	0	6.9	0	1.1	0	0.333	0	2.012	-1	6.035	-1	1806	47	1.0
50171.8	10000	41.1329	92.8270	-921	QK	2.0	-1	7.2	0	1.1	0	0.271	-1	1.754	-1	6.478	0	1805	33	1.0
50171.7	10000	41.1335	92.8270	-922	QK	1.9	-1	7.2	0	1.1	0	0.265	-1	1.688	-1	6.379	0	1799	35	1.0
50171.6	10000	41.1340	92.8270	-922	QK	1.8	-1	7.2	0	1.1	0	0.252	-1	1.587	-1	6.288	0	1804	36	1.0
50171.5	10000	41.1346	92.8270	-921	QK	2.0	-1	7.4	0	1.2	1	0.275	-1	1.713	-1	6.228	0	1819	50	1.0
50171.4	10000	41.1351	92.8270	-921	QK	2.0	-1	7.4	0	1.2	1	0.267	-1	1.612	-1	6.038	-1	1836	37	1.0
50171.3	10000	41.1357	92.8270	-920	QK	2.1	-1	7.6	1	1.2	1	0.270	-1	1.654	-1	6.114	-1	1867	29	1.0
50171.2	10000	41.1362	92.8270	-919	QK	1.9	-1	7.9	1	1.3	1	0.243	-1	1.520	-2	6.244	0	1884	35	1.0
50171.1	10000	41.1368	92.8270	-918	QK	2.2	-1	7.6	1	1.3	1	0.288	-1	1.715	-1	5.951	-1	1889	40	1.0
50171.0	10000	41.1373	92.8270	-917	QK	2.4	0	7.9	1	1.3	1	0.300	-1	1.897	-1	6.329	0	1894	45	1.0
50170.9	10000	41.1379	92.8270	-917	QK	2.4	0	8.0	1	1.2	1	0.295	-1	1.920	-1	6.510	0	1892	38	1.0
50170.8	10000	41.1385	92.8270	-916	QK	2.3	-1	8.1	1	1.2	1	0.281	-1	1.891	-1	6.726	0	1887	42	1.0
50170.7	10000	41.1390	92.8270	-915	QK	2.4	0	8.4	2	1.2	0	0.283	-1	2.042	0	7.209	1	1883	38	1.0
50170.6	10000	41.1396	92.8270	-913	QK	2.2	-1	8.1	1	1.1	0	0.274	-1	1.978	-1	7.230	1	1872	38	1.0
50170.5	10000	41.1401	92.8270	-912	QK	2.4	0	8.1	1	1.1	0	0.296	-1	2.126	0	7.176	1	1865	42	1.0
50170.4	10000	41.1407	92.8270	-911	QK	2.5	0	8.3	2	1.1	0	0.299	-1	2.308	0	7.722	2	1867	48	1.0
50170.3	10000	41.1412	92.8270	-909	QK	2.7	0	8.2	1	1.1	0	0.333	0	2.484	0	7.451	1	1886	46	1.0
50170.2	10000	41.1418	92.8270	-908	QK	2.9	1	8.2	1	1.1	0	0.352	0	2.590	1	7.357	1	1917	27	1.0
50170.1	10000	41.1423	92.8270	-906	QK	3.1	1	8.1	1	1.1	0	0.381	0	2.777	1	7.287	1	1930	37	1.0
50170.0	10000	41.1429	92.8270	-903	QK	3.1	1	7.8	1	1.2	1	0.395	1	2.630	1	6.663	0	1915	48	1.0
50169.9	10000	41.1434	92.8270	-901	QK	3.1	1	7.7	1	1.2	1	0.404	1	2.602	1	6.432	0	1908	49	1.0
50169.8	10000	41.1440	92.8270	-898	QK	3.0	1	7.7	1	1.2	1	0.393	1	2.523	1	6.421	0	1909	48	1.0
50169.7	10000	41.1445	92.8270	-896	QK	2.9	1	7.7	1	1.2	1	0.382	1	2.362	1	6.183	0	1912	43	1.0
50169.6	10000	41.1451	92.8270	-892	QK	2.8	1	7.6	1	1.2	1	0.365	1	2.230	1	6.108	-1	1896	42	1.0
50169.5	10000	41.1456	92.8270	-888	QK	2.7	1	7.5	0	1.2	1	0.366	1	2.291	1	6.263	0	1877	44	1.0
50169.4	10000	41.1462	92.8270	-884	QK	2.7	1	7.2	0	1.2	1	0.381	1	2.323	1	6.094	-1	1877	40	1.0
50169.3	10000	41.1468	92.8270	-884	QK	2.8	1	7.5	0	1.2	1	0.381	1	2.453	1	6.429	0	1925	39	1.0
50169.2	10000	41.1473	92.8270	-884	QK	3.0	1	7.9	0	1.1	1	0.395	1	2.654	1	6.715	0	1953	40	1.0
50169.1	10000	41.1479	92.8270	-881	QK	3.1	1	7.9	0	1.1	1	0.393	1	2.771	1	7.056	1	1969	47	1.0
50169.0	10000	41.1484	92.8270	-878	QK	3.1	1	7.9	0	1.1	1	0.398	1	2.779	1	6.979	1	1986	41	1.0
50168.9	10000	41.1490	92.8270	-875	QK	3.2	1	7.8	0	1.1	1	0.406	1	2.866	1	7.059	1	1991	46	1.0
50168.8	10000	41.1495	92.8270	-871	QK	3.1	1	7.7	0	1.2	1	0.407	1	2.708	1	6.653	0	1996	27	1.0
50168.7	10000	41.1501	92.8270	-869	QK	3.4	2	8.1	0	1.2	1	0.413	1	2.825	1	6.842	1	2017	56	1.0
50168.6	10000	41.1506	92.8270	-866	QK	3.3	2	8.0	0	1.2	1	0.413	1	2.877	1	6.962	1	2001	40	1.0
50168.5	10000	41.1512	92.8270	-862	QK	3.3	2	7.8	0	1.2	1	0.423	1	2.842	1	6.725	0	1996	42	1.0
50168.4	10000	41.1517	92.8270	-858	QK	3.5	2	7.7	0	1.1	1	0.453	1	3.048	2	6.723	0	1994	47	1.0
50168.3	10000	41.1523	92.8270	-855	QK	3.4	2	7.5	0	1.1	1	0.454	1	3.155	2	6.950	1	1984	41	1.0
50168.2	10000	41.1528	92.8270	-851	QK	3.6	2	7.8	0	1.1	1	0.461	2	3.297	2	7.147	1	2007	50	1.0
50168.1	10000	41.1534	92.8270	-847	QK	3.8	2	8.0	0	1.1	1	0.479	2	3.576	3	7.464	1	2018	49	1.0
50168.0	10000	41.1539	92.8270	-843	QK	3.6	2	7.9	0	1.0	-1	0.463	2	3.534	3	7.635	1	1999	44	1.0
50167.9	10000	41.1545	92.8270	-839	QK	3.5	2	7.7	0	1.0	-1	0.453	2	3.565	3	7.867	1	1976	37	1.0
50167.8	10000	41.1551	92.8270	-835	QK	3.6	2	7.8	0	0.9	-1	0.463	2	3.811	3	8.237	2	1958	42	1.1
50167.7	10000	41.1556	92.8270	-831	QK	3.5	2	7.3	0	1.0	-1	0.482	2	3.650	3	7.570	2	1954	48	1.1
50167.6	10000	41.1562	92.8270	-828	QK	3.6	2	7.4	0	1.0	-1	0.494	2	3.806	3	7.703	2	1931	41	1.1

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50167.5	10000	41.1567	92.8270	-823	QK	3.5	2	7.3	0	1.0	-1	0.477	2	3.622	3	7.593	2	1901	33	1.1
50167.4	10000	41.1573	92.8270	-819	QK	3.4	2	7.3	0	0.9	-2	0.466	2	3.631	3	7.792	2	1887	45	1.1
50167.3	10000	41.1578	92.8270	-816	QK	3.5	2	7.0	0	0.9	-2	0.503	2	3.754	3	7.462	1	1871	39	1.1
50167.2	10000	41.1584	92.8270	-814	QK	3.4	2	6.9	0	1.0	-1	0.497	2	3.537	3	7.110	1	1883	44	1.1
50167.1	10000	41.1590	92.8270	-810	QK	3.3	2	7.1	0	1.0	-1	0.459	1	3.232	2	7.042	1	1879	31	1.1
50167.0	10000	41.1596	92.8270	-806	QK	3.1	1	7.4	0	1.0	-1	0.416	1	3.098	2	7.439	1	1887	58	1.1
50166.9	10000	41.1602	92.8270	-803	QK	3.0	1	7.6	1	1.1	0	0.391	1	2.751	1	7.043	1	1930	48	1.1
50166.8	10000	41.1608	92.8270	-798	QK	2.8	1	7.6	1	1.1	0	0.371	0	2.635	1	7.098	1	1947	41	1.1
50166.7	10000	41.1614	92.8270	-794	QK	2.6	0	7.6	1	1.1	0	0.346	0	2.328	0	6.720	0	1979	36	1.1
50166.6	10000	41.1619	92.8270	-790	QK	2.7	0	7.7	1	1.1	0	0.348	0	2.461	0	7.070	1	1991	48	1.1
50166.5	10000	41.1625	92.8270	-785	QK	3.0	1	7.7	1	1.1	0	0.385	0	2.711	1	7.033	1	1978	49	1.1
50166.4	10000	41.1631	92.8270	-781	QK	3.1	1	7.7	1	1.0	-1	0.409	1	3.001	2	7.342	1	1991	36	1.1
50166.3	10000	41.1637	92.8269	-776	QK	3.1	1	7.8	1	1.0	-1	0.400	1	3.041	2	7.604	2	1982	52	1.1
50166.2	10000	41.1643	92.8269	-772	QK	3.2	1	7.7	1	1.0	-1	0.416	1	3.261	2	7.845	2	1959	40	1.1
50166.1	10000	41.1649	92.8269	-769	QK	3.1	1	7.7	1	1.0	-1	0.404	1	3.101	2	7.681	2	1949	32	1.2
50166.0	10000	41.1655	92.8269	-765	QK	3.0	1	7.6	0	1.0	-1	0.395	1	3.090	2	7.826	2	1940	62	1.2
50165.9	10000	41.1661	92.8269	-761	QK	2.8	1	7.8	1	1.0	-1	0.363	0	2.768	1	7.619	2	1945	44	1.2
50165.8	10000	41.1667	92.8269	-757	QK	2.6	0	7.5	0	1.0	-1	0.350	0	2.646	1	7.551	2	1953	37	1.2
50165.7	10000	41.1673	92.8269	-752	QK	2.4	0	7.6	1	1.0	-1	0.314	-1	2.306	0	7.351	1	1964	48	1.2
50165.6	10000	41.1678	92.8269	-748	QK	2.8	1	7.9	1	1.1	0	0.353	0	2.640	1	7.483	1	1967	46	1.2
50165.5	10000	41.1684	92.8269	-744	QK	2.7	0	8.3	1	1.1	0	0.327	0	2.507	1	7.656	2	1988	37	1.2
50165.4	10000	41.1690	92.8269	-740	QK	2.8	1	8.3	2	1.1	0	0.337	0	2.524	1	7.495	1	1992	34	1.2
50165.3	10000	41.1696	92.8269	-735	QK	3.0	1	8.3	1	1.1	0	0.357	0	2.746	1	7.691	2	1973	39	1.2
50165.2	10000	41.1702	92.8268	-731	QK	3.0	1	7.8	1	1.1	0	0.388	-1	2.746	1	7.080	1	1971	43	1.2
50165.1	10000	41.1708	92.8268	-726	QK	3.2	1	8.3	1	1.1	0	0.382	0	2.814	1	7.363	1	1972	39	1.2
50165.0	10000	41.1714	92.8268	-721	QK	3.2	1	8.1	1	1.1	0	0.396	-1	2.912	1	7.360	1	1950	37	1.2
50164.9	10000	41.1720	92.8268	-716	QK	2.8	1	7.6	1	1.1	0	0.372	0	2.560	1	6.875	1	1948	42	1.2
50164.8	10000	41.1726	92.8268	-711	QK	2.7	1	7.7	1	1.1	0	0.354	0	2.485	1	7.019	1	1911	40	1.2
50164.7	10000	41.1731	92.8268	-706	QK	2.7	1	7.8	1	1.1	0	0.341	0	2.477	1	7.272	1	1903	39	1.2
50164.6	10000	41.1737	92.8268	-701	QK	2.5	1	7.9	1	1.1	0	0.319	0	2.333	1	7.323	1	1893	35	1.2
50164.5	10000	41.1743	92.8268	-696	QK	2.4	1	8.1	1	1.1	0	0.298	-1	2.203	1	7.397	1	1884	39	1.2
50164.4	10000	41.1749	92.8268	-690	QK	2.4	1	8.0	1	1.1	0	0.292	-1	2.211	2	7.558	2	1871	42	1.2
50164.3	10000	41.1755	92.8268	-685	QK	2.4	1	8.2	1	1.1	0	0.296	-1	2.321	2	7.837	2	1863	47	1.2
50164.2	10000	41.1761	92.8268	-679	QK	2.4	1	8.2	1	1.0	0	0.295	-1	2.429	2	8.235	2	1844	40	1.2
50164.1	10000	41.1767	92.8268	-673	QK	2.6	1	7.8	1	1.0	0	0.335	0	2.681	2	8.009	2	1858	35	1.2
50164.0	10000	41.1773	92.8268	-666	QK	2.8	1	7.5	1	1.0	0	0.369	0	2.899	2	7.859	2	1839	32	1.2
50163.9	10000	41.1779	92.8268	-658	QK	2.7	1	7.3	1	1.0	0	0.372	0	2.825	2	7.595	2	1823	39	1.2
50163.8	10000	41.1785	92.8267	-651	QK	2.7	1	7.5	1	0.9	-2	0.378	1	3.015	2	7.984	2	1815	46	1.2
50163.7	10000	41.1790	92.8267	-646	QK	2.7	1	7.4	1	1.0	-1	0.368	1	2.818	2	7.654	2	1819	48	1.2
50163.6	10000	41.1796	92.8267	-643	QK	2.5	1	7.4	1	1.0	-1	0.347	0	2.520	1	7.266	2	1823	38	1.2
50163.5	10000	41.1802	92.8267	-637	QK	2.5	1	7.5	1	1.1	-1	0.331	0	2.329	1	7.036	1	1831	39	1.2
50163.4	10000	41.1808	92.8267	-630	QK	2.2	1	7.4	1	1.1	-1	0.299	-1	2.035	1	6.808	1	1821	39	1.2
50163.3	10000	41.1814	92.8267	-621	QK	2.1	-1	7.8	1	1.2	-1	0.272	-1	1.852	-1	6.797	1	1833	55	1.2
50163.2	10000	41.1820	92.8267	-613	QK	2.3	0	7.9	1	1.2	-1	0.296	-1	2.010	-1	6.791	0	1846	33	1.2
50163.1	10000	41.1826	92.8267	-604	QK	2.2	-1	7.7	1	1.1	-1	0.281	-1	1.931	-1	6.874	1	1832	54	1.2
50163.0	10000	41.1832	92.8267	-592	QK	2.2	-1	7.4	1	1.1	-1	0.295	-1	1.927	-1	6.525	0	1829	40	1.2
50162.9	10000	41.1838	92.8267	-577	QK	2.3	-1	7.1	1	1.1	-1	0.319	-1	2.017	-1	6.315	0	1830	33	1.2
50162.8	10000	41.1844	92.8267	-570	QK	2.0	-1	6.8	0	1.1	-1	0.294	-1	1.751	-1	5.954	-1	1827	58	1.2
50162.7	10000	41.1849	92.8267	-567	QK	2.1	-1	7.0	0	1.2	-1	0.307	-1	1.837	-1	5.976	-1	1833	45	1.2
50162.6	10000	41.1855	92.8266	-558	QK	2.2	-1	6.6	-1	1.2	-1	0.336	-1	1.925	-1	5.732	-1	1840	43	1.2
50162.5	10000	41.1861	92.8266	-546	QK	2.3	-1	6.6	-1	1.1	0	0.341	0	1.988	-1	5.836	-1	1857	32	1.2
50162.4	10000	41.1867	92.8266	-533	QK	2.3	-1	7.0	0	1.2	1	0.324	0	1.867	-1	5.761	-1	1879	45	1.3

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50162.3	10000	41.1873	92.8266	-522	QK	2.2	-1	7.1	0	1.2	1	0.309	-1	1.802	-1	5.832	-1	1875	54	1
50162.2	10000	41.1879	92.8266	-510	QK	2.2	-1	7.0	0	1.2	1	0.319	0	1.842	-1	5.779	-1	1874	45	1.
50162.1	10000	41.1885	92.8266	-498	QK	2.5	0	7.0	0	1.1	0	0.353	0	2.251	0	6.370	0	1966	48	1.3
50162.0	10000	41.1891	92.8266	-486	QK	2.5	0	7.0	0	1.1	0	0.354	0	2.286	0	6.453	0	1858	50	1.3
50161.9	10000	41.1897	92.8266	-473	QK	2.5	0	7.1	0	1.1	-1	0.351	0	2.373	0	6.753	0	1847	41	1.3
50161.8	10000	41.1903	92.8266	-460	QK	2.4	0	6.8	-1	1.0	-1	0.351	0	2.335	0	6.644	0	1813	40	1.3
50161.7	10000	41.1908	92.8266	-447	QK	2.6	0	6.7	-1	1.0	-1	0.388	1	2.653	1	6.839	1	1807	43	1.3
50161.6	10000	41.1914	92.8266	-435	QK	2.7	0	6.8	-1	1.0	-1	0.395	1	2.744	1	6.947	1	1822	34	1.3
50161.5	10000	41.1920	92.8266	-423	QK	2.7	0	7.1	0	1.0	-1	0.376	0	2.738	1	7.280	1	1821	51	1.3
50161.4	10000	41.1926	92.8266	-411	QK	2.6	0	7.1	0	1.0	-1	0.370	0	2.640	1	7.131	1	1829	42	1.3
50161.3	10000	41.1932	92.8266	-400	QK	2.6	0	7.3	0	1.0	-1	0.355	0	2.663	1	7.500	1	1838	37	1.3
50161.2	10000	41.1938	92.8265	-389	QK	2.4	0	7.2	0	1.0	-1	0.332	0	2.389	0	7.192	1	1856	44	1.3
50161.1	10000	41.1944	92.8265	-378	QK	2.2	-1	7.6	1	1.1	0	0.292	-1	2.073	0	7.108	1	1878	52	1.3
50161.0	10000	41.1950	92.8265	-369	QK	2.0	-1	7.8	1	1.1	0	0.259	-1	1.873	-1	7.235	1	1883	39	1.3
50160.9	10000	41.1956	92.8265	-360	QK	2.1	-1	8.0	1	1.1	0	0.264	-1	1.965	-1	7.450	1	1885	47	1.3
50160.8	10000	41.1961	92.8265	-352	QK	2.1	-1	7.9	1	1.1	0	0.269	-1	1.856	-1	6.901	1	1898	50	1.3
50160.7	10000	41.1967	92.8265	-345	QK	2.3	-1	8.1	1	1.2	0	0.280	-1	1.958	-1	6.985	1	1912	42	1.3
50160.6	10000	41.1973	92.8265	-338	QK	2.5	0	7.8	1	1.2	1	0.325	0	2.110	0	6.501	0	1929	44	1.3
50160.5	10000	41.1979	92.8265	-332	QK	2.9	1	7.9	1	1.2	0	0.374	0	2.559	1	6.843	1	1919	47	1.3
50160.4	10000	41.1985	92.8265	-328	QK	3.0	1	7.8	1	1.1	0	0.383	0	2.656	1	6.940	1	1924	40	1.3
50160.3	10000	41.1991	92.8265	-323	QK	3.4	2	7.6	0	1.2	0	0.445	1	2.862	1	6.431	0	1945	37	1.3
50160.2	10000	41.1997	92.8265	-319	QK	3.3	2	7.4	0	1.2	1	0.441	1	2.672	1	6.055	-1	1948	52	1.3
50160.1	10000	41.2003	92.8265	-316	QK	3.3	2	7.7	1	1.2	1	0.432	1	2.808	1	6.500	0	1962	53	1.3
50160.0	10000	41.2009	92.8264	-313	QK	3.3	2	7.3	0	1.2	1	0.447	1	2.780	1	6.223	0	1980	38	1.3
50159.9	10000	41.2014	92.8264	-311	QK	3.2	1	7.5	0	1.2	0	0.421	1	2.687	1	6.378	0	1980	52	1.3
50159.8	10000	41.2020	92.8264	-309	QK	2.8	1	7.4	1	1.2	1	0.375	1	2.263	1	6.037	-1	1996	48	1.3
50159.7	10000	41.2026	92.8264	-308	QK	2.8	1	7.1	0	1.2	1	0.396	1	2.276	1	5.751	-1	1991	41	1.3
50159.6	10000	41.2032	92.8264	-307	QK	2.7	1	7.3	1	1.2	1	0.377	1	2.248	1	5.967	-1	1961	41	1.3
50159.5	10000	41.2038	92.8264	-305	QK	2.8	1	7.4	1	1.2	1	0.376	1	2.327	1	6.192	0	1948	48	1.3
50159.4	10000	41.2044	92.8264	-305	QK	2.7	1	7.3	1	1.2	1	0.373	1	2.309	1	6.198	0	1930	48	1.3
50159.3	10000	41.2050	92.8264	-309	QK	2.5	1	7.7	1	1.3	1	0.327	0	1.998	-1	6.117	-1	1921	43	1.3
50159.2	10000	41.2056	92.8264	-313	QK	2.4	1	7.8	1	1.2	1	0.314	-1	1.967	-1	6.257	0	1916	40	1.3
50159.1	10000	41.2062	92.8264	-317	QK	2.6	1	7.8	1	1.2	1	0.328	0	2.137	0	6.515	0	1911	39	1.3
50159.0	10000	41.2068	92.8264	-320	QK	2.5	1	8.2	1	1.2	1	0.306	-1	2.123	0	6.948	1	1918	43	1.3
50158.9	10000	41.2074	92.8264	-323	QK	2.3	1	7.7	1	1.2	0	0.303	-1	1.997	-1	6.594	0	1925	32	1.3
50158.8	10000	41.2079	92.8264	-327	QK	2.2	-1	7.6	1	1.2	0	0.290	-1	1.910	-1	6.583	0	1922	36	1.2
50158.7	10000	41.2085	92.8264	-331	QK	2.2	-1	7.3	0	1.1	0	0.302	-1	2.014	-1	6.666	0	1897	39	1.2
50158.6	10000	41.2091	92.8263	-335	QK	2.6	0	6.7	-1	1.0	-1	0.384	0	2.474	0	6.443	0	1870	45	1.2
50158.5	10000	41.2097	92.8263	-340	QK	2.7	0	6.2	-1	1.0	-1	0.435	0	2.717	1	6.254	0	1827	39	1.2
50158.4	10000	41.2103	92.8263	-345	QK	2.5	-1	5.8	-2	0.9	-2	0.431	1	2.688	1	6.233	0	1777	36	1.2
50158.3	10000	41.2109	92.8263	-351	QK	2.8	-1	5.4	-2	0.9	-2	0.511	2	3.006	2	5.881	-1	1749	45	1.2
50158.2	10000	41.2115	92.8263	-357	QK	2.8	-1	5.5	-2	0.9	-2	0.507	2	3.264	2	6.440	0	1728	40	1.2
50158.1	10000	41.2121	92.8263	-364	QK	2.8	-1	5.8	-2	0.9	-2	0.487	2	3.291	2	6.761	0	1710	43	1.2
50158.0	10000	41.2127	92.8263	-370	QK	2.8	-1	6.0	-2	0.9	-2	0.463	2	3.103	2	6.696	0	1717	42	1.2
50157.9	10000	41.2132	92.8263	-376	QK	2.7	-1	5.9	-2	0.9	-2	0.456	1	3.021	2	6.625	0	1727	46	1.2
50157.8	10000	41.2138	92.8263	-383	QK	2.5	-1	6.0	-2	0.9	-2	0.413	1	2.646	1	6.409	0	1747	40	1.2
50157.7	10000	41.2144	92.8263	-389	QK	2.5	-1	6.4	-1	1.0	-1	0.441	1	2.822	1	6.406	0	1786	38	1.2
50157.6	10000	41.2150	92.8263	-395	QK	2.5	-1	6.7	-1	1.0	-1	0.377	1	2.533	1	6.714	0	1814	46	1.2
50157.5	10000	41.2156	92.8263	-406	QK	2.8	0	6.8	-1	1.1	-1	0.407	1	2.606	1	6.408	0	1828	41	1.2
50157.4	10000	41.2162	92.8262	-410	QK	2.8	1	6.7	-1	1.1	-1	0.424	1	2.686	1	6.336	0	1844	49	1.2
50157.3	10000	41.2168	92.8262	-417	QK	2.9	1	7.0	0	1.1	0	0.408	1	2.677	1	6.557	0	1869	25	1.2
50157.2	10000	41.2174	92.8262	-423	QK	2.7	0	7.5	0	1.1	0	0.357	0	2.534	1	7.097	1	1870	40	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50157.1	10000	41.2180	92.8262	-431	QK	3.0	1	7.9	1	1.1	0	0.379	0	2.825	1	7.445	1	1888	53	1.2
50157.0	10000	41.2186	92.8262	-438	QK	2.9	1	7.3	0	1.1	-1	0.393	1	2.729	1	6.942	1	1893	54	1.2
50156.9	10000	41.2191	92.8262	-445	QK	3.1	1	7.1	0	1.1	-1	0.432	1	2.933	1	6.798	1	1896	39	1.2
50156.8	10000	41.2197	92.8262	-453	QK	2.8	1	7.4	0	1.1	-1	0.378	0	2.656	1	7.02[illegible]	1	1899	41	1.2
50156.7	10000	41.2203	92.8262	-460	QK	2.7	0	7.5	0	1.1	0	0.364	0	2.390	0	6.563	0	1919	43	1.2
50156.6	10000	41.2209	92.8262	-468	QK	2.7	0	7.3	0	1.1	0	0.366	0	2.368	0	6.478	0	1907	52	1.2
50156.5	10000	41.2215	92.8262	-477	QK	2.7	0	7.1	0	1.2	0	0.381	0	2.325	0	6.096	-1	1908	48	1.2
50156.4	10000	41.2221	92.8262	-486	QK	2.4	0	6.8	-1	1.2	0	0.353	0	2.041	0	5.785	-1	1882	35	1.2
50156.3	10000	41.2227	92.8262	-495	QK	2.4	0	7.2	0	1.1	0	0.329	0	2.102	0	6.384	0	1868	42	1.2
50156.2	10000	41.2233	92.8262	-504	QK	2.2	-1	7.0	0	1.2	0	0.316	0	1.922	-1	6.082	-1	1858	46	1.3
50156.1	10000	41.2239	92.8262	-513	QK	2.4	0	7.0	0	1.1	0	0.344	0	2.159	0	6.280	0	1841	40	1.3
50156.0	10000	41.2244	92.8261	-523	QK	2.4	0	7.0	0	1.0	-1	0.342	0	2.366	0	6.919	1	1801	45	1.3
50155.9	10000	41.2250	92.8261	-533	QK	2.5	0	6.8	-1	1.0	-1	0.371	0	2.518	1	6.792	0	1781	42	1.3
50155.8	10000	41.2256	92.8261	-544	QK	2.7	0	6.7	-1	0.9	-2	0.403	1	2.944	1	7.306	1	1760	41	1.3
50155.7	10000	41.2262	92.8261	-553	QK	2.7	0	6.8	-1	0.9	-2	0.394	1	2.997	2	7.608	2	1771	44	1.3
50155.6	10000	41.2268	92.8261	-564	QK	2.6	0	6.8	[illegible]	0.9	-2	0.389	1	2.883	1	7.412	1	1756	40	1.3
50155.5	10000	41.2274	92.8261	-574	QK	2.6	0	7.2	0	0.8	-2	0.365	0	3.105	2	8.506	3	1738	47	1.3
50155.4	10000	41.2280	92.8261	-586	QK	2.4	0	7.1	0	0.8	-2	0.345	0	2.959	2	8.571	3	1739	40	1.3
50155.3	10000	41.2286	92.8261	-598	QK	2.6	0	6.9	0	0.9	-2	0.381	0	3.086	2	8.109	2	1750	39	1.3
50155.2	10000	41.2292	92.8261	-610	QK	2.5	0	6.8	-1	0.9	-2	0.373	0	2.959	2	7.940	2	1753	43	1.3
50155.1	10000	41.2298	92.8261	-622	QK	2.5	0	6.9	0	0.9	-2	0.358	0	2.657	1	7.418	1	1755	52	1.3
50155.0	10000	41.2303	92.8261	-634	QK	2.5	0	6.9	0	0.9	-2	0.360	0	2.668	1	7.412	1	1770	44	1.3
50154.9	10000	41.2309	92.8261	-646	QK	2.6	0	7.0	0	0.9	-1	0.372	0	2.735	1	7.359	1	1786	42	1.3
50154.8	10000	41.2315	92.8260	-659	QK	2.8	0	6.6	-1	1.0	-1	0.417	1	2.743	1	6.583	0	1791	43	1.3
50154.7	10000	41.2321	92.8260	-671	QK	2.6	0	6.7	-1	1.0	-1	0.384	0	2.514	1	6.543	0	1800	38	1.3
50154.6	10000	41.2327	92.8260	-684	QK	2.4	0	7.3	0	1.0	-1	0.327	0	2.302	0	7.039	1	1823	40	1.3
50154.5	10000	41.2333	92.8260	-697	QK	2.4	0	7.9	0	1.1	0	0.307	-1	2.266	0	7.371	1	1842	46	1.4
50154.4	10000	41.2339	92.8260	-710	QK	2.2	0	7.9	0	1.0	-1	0.283	-1	2.205	0	7.791	2	1856	36	1.4
50154.3	10000	41.2345	92.8260	-724	QK	2.4	0	8.0	0	1.0	-1	0.296	-1	2.355	0	7.966	2	1851	43	1.4
50154.2	10000	41.2351	92.8260	-739	QK	2.3	0	8.2	0	1.0	-1	0.281	-1	2.285	0	8.126	2	1860	55	1.4
50154.1	10000	41.2357	92.8260	-753	QK	2.3	0	8.3	0	1.0	-1	0.275	-1	2.281	0	8.302	3	1880	46	1.4
50154.0	10000	41.2363	92.8260	-768	QK	2.2	0	8.0	0	1.0	-1	0.280	-1	2.216	0	7.916	2	1893	34	1.4
50153.9	10000	41.2368	92.8260	-783	QK	2.5	0	7.5	0	1.0	-1	0.329	0	2.554	1	7.768	2	1879	41	1.4
50153.8	10000	41.2374	92.8260	-798	QK	2.4	0	7.2	0	1.0	-1	0.339	0	2.463	1	7.271	1	1867	38	1.4
50153.7	10000	41.2380	92.8260	-813	QK	2.4	0	[illegible]	0	1.0	-1	0.344	0	2.376	1	6.906	1	1877	47	1.4
50153.6	10000	41.2386	92.8260	-829	QK	2.3	0	[illegible]	0	1.0	-1	0.331	0	2.270	1	6.856	1	1876	36	1.4
50153.5	10000	41.2392	92.8260	-844	QK	2.3	0	[illegible]	0	1.0	-1	0.329	0	2.275	0	6.911	1	1869	41	1.5
50153.4	10000	41.2398	92.8259	-859	QK	2.1	-1	6.9	0	1.1	-1	0.299	-1	1.965	-1	6.576	0	1850	41	1.5
50153.3	10000	41.2404	92.8259	-874	QK	2.3	-1	6.9	0	1.1	0	0.325	0	2.123	0	6.537	0	1846	46	1.5
50153.2	10000	41.2410	92.8259	-889	QK	2.0	-1	7.0	0	1.1	0	0.290	-1	1.796	-1	6.182	0	1866	39	1.5
50153.1	10000	41.2416	92.8259	-903	QK	1.9	-1	7.2	0	1.1	0	0.265	-1	1.711	-1	6.447	0	1871	31	1.5
50153.0	10000	41.2421	92.8259	-917	QK	2.0	-1	7.4	0	1.1	0	0.268	-1	1.763	-1	6.580	0	1851	44	1.5
50152.9	10000	41.2427	92.8259	-931	QK	2.1	-1	7.4	0	1.1	0	0.280	-1	1.833	-1	6.555	0	1844	50	1.5
50152.8	10000	41.2433	92.8259	-944	QK	2.2	-1	7.2	0	1.2	0	0.306	-1	1.894	-1	6.200	0	1842	46	1.5
50152.7	10000	41.2439	92.8259	-958	QK	2.3	-1	7.3	0	1.2	0	0.317	0	2.006	-1	6.319	0	1847	37	1.5
50152.6	10000	41.2445	92.8259	-971	QK	2.3	-1	7.5	0	1.1	0	0.308	-1	2.041	0	6.636	1	1825	36	1.5
50152.5	10000	41.2451	92.8259	-983	QK	2.4	-1	7.4	0	1.1	0	0.321	-1	2.196	0	6.851	1	1797	36	1.6
50152.4	10000	41.2457	92.8259	-995	QK	2.2	-1	7.3	0	1.1	-1	0.303	-1	2.101	0	6.924	1	1781	46	1.6
50152.3	10000	41.2463	92.8259	-1007	QK	2.2	-1	7.3	0	1.0	-1	0.293	-1	2.144	0	7.316	1	1782	36	1.6
50152.2	10000	41.2469	92.8259	-1017	QK	2.0	-1	7.3	0	1.0	-1	0.305	-1	2.161	0	7.096	1	1783	40	1.6
50152.1	10000	41.2474	92.8259	-1027	QK	2.0	-1	7.1	0	1.0	-1	0.277	-1	1.992	-1	7.192	1	1780	39	1.6
50152.0	10000	41.2480	92.8258	-1036	QK	2.0	-1	7.1	0	1.0	-1	0.276	-1	1.972	-1	7.143	1	1792	41	1.6

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50151.9	10000	41.2486	92.8258	-1043	QK	2.0	-1	7.2	0	1.0	-1	0.283	-1	1.976	-1	6.990	1	1818	41	1.6
50151.8	10000	41.2492	92.8258	-1049	QK	1.9	-1	7.2	0	1.1	0	0.264	-1	1.783	-1	6.763	0	1849	40	1.6
50151.7	10000	41.2498	92.8258	-1055	QK	2.5	0	7.4	0	1.1	0	0.331	0	2.153	0	6.506	0	1889	31	1.6
50151.6	10000	41.2504	92.8258	-1062	QK	2.4	0	7.1	0	1.2	1	0.342	0	2.069	0	6.041	-1	1905	51	1.6
50151.5	10000	41.2509	92.8258	-1067	QK	2.4	0	7.2	0	1.2	0	0.334	0	2.070	0	6.191	0	1905	37	1.6
50151.4	10000	41.2515	92.8258	-1072	QK	2.4	0	7.5	0	1.2	0	0.320	0	2.061	0	6.443	0	1923	47	1.6
50151.3	10000	41.2521	92.8258	-1076	QK	2.5	0	7.7	1	1.1	0	0.317	0	2.149	0	6.775	0	1920	35	1.7
50151.2	10000	41.2526	92.8258	-1078	QK	2.3	0	7.5	0	1.2	0	0.309	-1	2.004	-1	6.478	0	1917	44	1.7
50151.1	10000	41.2532	92.8259	-1080	QK	2.4	0	7.3	0	1.1	0	0.334	0	2.149	0	6.430	0	1914	49	1.7
50151.0	10000	41.2538	92.8259	-1082	QK	2.0	-1	7.0	0	1.1	0	0.281	-1	1.799	-1	6.394	0	1880	49	1.7
50150.9	10000	41.2543	92.8259	-1082	QK	2.1	-1	7.3	0	1.1	0	0.286	-1	1.934	-1	6.761	0	1868	55	1.7
50150.8	10000	41.2549	92.8259	-1082	QK	2.0	-1	7.1	0	1.1	0	0.277	-1	1.736	-1	6.269	0	1861	51	1.7
50150.7	10000	41.2555	92.8259	-1082	QK	2.0	-1	6.4	-1	1.1	0	0.315	0	1.782	-1	5.649	-1	1830	52	1.7
50150.6	10000	41.2560	92.8259	-1081	QK	1.9	-1	5.9	-2	1.1	0	0.316	0	1.659	-1	5.252	-2	1802	36	1.7
50150.5	10000	41.2566	92.8259	-1080	QK	2.0	-1	5.7	-2	1.0	-1	0.351	0	1.918	-1	5.468	-1	1755	40	1.7
50150.4	10000	41.2572	92.8259	-1079	QK	1.9	-1	5.5	-2	1.0	-1	0.353	0	1.882	-1	5.328	-2	1710	42	1.7
50150.3	10000	41.2577	92.8259	-1076	QK	2.0	-1	5.3	-3	1.0	-1	0.378	0	1.937	-1	5.122	-2	1701	49	1.7
50150.2	10000	41.2583	92.8259	-1074	QK	1.8	-1	5.3	-3	1.0	-1	0.350	0	1.797	-1	5.130	-2	1691	44	1.7
50150.1	10000	41.2589	92.8259	-1071	QK	1.8	-2	5.2	-3	0.9	-2	0.343	0	1.893	-1	5.527	-1	1686	46	1.7
50150.0	10000	41.2594	92.8259	-1068	QK	1.7	-2	5.5	-2	0.9	-2	0.303	-1	1.864	-1	6.143	0	1705	42	1.7
50149.9	10000	41.2600	92.8259	-1065	QK	1.9	-1	6.0	-2	0.9	-2	0.318	0	2.039	0	6.415	0	1747	40	1.7
50149.8	10000	41.2606	92.8259	-1062	QK	1.9	-1	6.1	-2	1.0	-1	0.315	0	1.889	-1	5.998	-1	1811	36	1.7
50149.7	10000	41.2611	92.8259	-1059	QK	2.0	-1	6.5	-1	1.0	-1	0.308	-1	1.949	-1	6.336	0	1858	37	1.7
50149.6	10000	41.2617	92.8259	-1055	QAL	2.2	0	6.9	0	1.0	0	0.319	-1	2.148	0	6.739	1	1892	34	1.7
50149.5	10000	41.2622	92.8259	-1052	QAL	2.3	0	6.8	0	1.1	0	0.340	0	2.133	0	6.267	0	1919	42	1.7
50149.4	10000	41.2628	92.8259	-1048	QAL	2.4	0	7.2	1	1.2	1	0.337	0	2.089	0	6.204	0	1960	34	1.7
50149.3	10000	41.2634	92.8259	-1045	QAL	2.5	0	7.2	1	1.2	1	0.346	0	2.016	-1	5.828	0	1975	40	1.7
50149.2	10000	41.2639	92.8259	-1041	QAL	2.3	0	6.8	0	1.2	1	0.343	0	1.916	-1	5.595	-1	1942	41	1.7
50149.1	10000	41.2645	92.8260	-1037	QAL	2.0	-1	6.9	0	1.2	1	0.287	-1	1.729	-1	6.034	0	1891	47	1.7
50149.0	10000	41.2651	92.8260	-1033	QAL	1.7	-1	6.8	0	1.1	0	0.248	-2	1.523	-1	6.133	0	1828	43	1.7
50148.9	10000	41.2656	92.8260	-1029	QAL	1.5	-2	6.6	0	1.1	0	0.229	-2	1.438	-2	6.275	0	1765	31	1.7
50148.8	10000	41.2662	92.8260	-1025	QAL	1.4	-2	6.1	0	1.0	0	0.235	-2	1.417	-2	6.041	0	1716	45	1.7
50148.7	10000	41.2668	92.8260	-1021	QAL	1.4	-2	5.7	-1	1.0	-1	0.243	-2	1.431	-2	5.880	0	1637	39	1.7
50148.6	10000	41.2673	92.8260	-1017	QAL	1.3	-2	5.5	-1	0.9	-1	0.237	-2	1.433	-2	6.059	0	1579	48	1.7
50148.5	10000	41.2679	92.8260	-1014	QAL	1.4	-2	5.3	-1	0.9	-1	0.256	-1	1.525	-1	5.954	0	1546	39	1.7
50148.4	10000	41.2685	92.8260	-1012	QAL	1.5	-2	5.1	-1	0.9	-1	0.298	-1	1.713	-1	5.745	0	1517	51	1.7
50148.3	10000	41.2690	92.8260	-1009	WATER	1.7	999	4.6	999	0.9	999	0.372	999	1.996	999	5.367	999	1493	44	1.7
50148.2	10000	41.2696	92.8260	-1007	WATER	1.7	999	4.1	999	0.8	999	0.420	999	2.122	999	5.055	999	1473	42	1.7
50148.1	10000	41.2702	92.8260	-1006	WATER	1.8	999	4.4	999	0.8	999	0.410	999	2.296	999	5.601	999	1457	41	1.7
50148.0	10000	41.2707	92.8260	-1005	WATER	1.8	999	4.4	999	0.8	999	0.403	999	2.311	999	5.732	999	1465	46	1.7
50147.9	10000	41.2713	92.8260	-1005	WATER	1.8	999	4.4	999	0.8	999	0.408	999	2.289	999	5.607	999	1475	47	1.6
50147.8	10000	41.2719	92.8260	-1005	WATER	1.7	999	4.8	999	0.7	999	0.355	999	2.272	999	6.397	999	1509	48	1.6
50147.7	10000	41.2724	92.8260	-1006	WATER	2.0	999	5.3	999	0.8	999	0.378	999	2.437	999	6.451	999	1576	44	1.6
50147.6	10000	41.2730	92.8260	-1007	WATER	2.3	999	5.9	999	0.9	999	0.395	999	2.588	999	6.556	999	1668	40	1.6
50147.5	10000	41.2736	92.8260	-1009	QAL	2.5	0	6.2	0	1.0	-1	0.405	0	2.633	1	6.495	0	1754	44	1.6
50147.4	10000	41.2741	92.8260	-1011	QAL	2.7	0	6.6	0	1.0	-1	0.414	0	2.721	1	6.580	1	1819	52	1.6
50147.3	10000	41.2747	92.8260	-1013	QAL	2.8	1	6.6	0	1.0	0	0.419	0	2.755	1	6.582	1	1863	40	1.6
50147.2	10000	41.2752	92.8260	-1014	QAL	3.0	1	6.6	0	1.0	0	0.459	1	2.992	1	6.518	0	1894	40	1.6
50147.1	10000	41.2758	92.8261	-1011	QAL	3.1	1	6.5	0	1.0	0	0.483	1	3.032	1	6.279	0	1908	33	1.6
50147.0	10000	41.2764	92.8261	-1010	QAL	2.9	1	6.2	0	1.1	0	0.468	1	2.725	1	5.823	0	1927	51	1.6
50146.9	10000	41.2769	92.8261	-1019	QAL	2.6	0	6.1	0	1.1	0	0.425	1	2.439	0	5.742	0	1925	42	1.6
50146.8	10000	41.2775	92.8261	-1025	QK	2.5	0	6.4	-1	1.1	0	0.386	0	2.303	0	5.964	-1	1920	45	1.6

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50146.7	10000	41.2781	92.8261	-1028	QK	2.5	0	6.3	-1	1.1	0	0.398	1	2.261	0	5.686	-1	1926	50	1.5
50146.6	10000	41.2786	92.8261	-1029	QK	2.8	1	6.9	0	1.2	0	0.403	1	2.362	0	5.859	-1	1945	47	1.5
50146.5	10000	41.2792	92.8261	-1030	QK	2.7	0	7.0	0	1.2	1	0.388	1	2.299	0	5.919	-1	1980	52	1.5
50146.4	10000	41.2798	92.8261	-1031	QK	2.9	1	7.1	0	1.3	1	0.405	1	2.302	0	5.689	-1	2003	43	1.5
50146.3	10000	41.2803	92.8261	-1031	QK	3.0	1	7.0	0	1.2	1	0.426	1	2.457	0	5.771	-1	2006	41	1.5
50146.2	10000	41.2809	92.8261	-1030	QK	3.1	1	7.0	0	1.2	1	0.444	1	2.566	1	5.773	-1	1996	40	1.5
50146.1	10000	41.2815	92.8261	-1030	QK	3.2	1	6.8	-1	1.2	1	0.479	2	2.673	1	5.582	-1	1986	45	1.5
50146.0	10000	41.2820	92.8261	-1033	QK	3.1	1	6.5	-1	1.2	0	0.469	2	2.605	1	5.550	-1	1958	39	1.5
50145.9	10000	41.2826	92.8261	-1035	QK	3.0	1	5.9	-2	1.1	0	0.501	2	2.638	1	5.267	-2	1951	36	1.5
50145.8	10000	41.2832	92.8261	-1036	QK	3.1	1	6.1	-1	1.1	0	0.499	2	2.751	1	5.514	-1	1939	35	1.5
50145.7	10000	41.2837	92.8261	-1036	QK	2.9	1	6.3	-1	1.1	0	0.456	1	2.680	1	5.879	-1	1945	49	1.4
50145.6	10000	41.2843	92.8261	-1036	QK	2.9	1	6.7	-1	1.1	0	0.437	1	2.713	1	6.210	0	1955	60	1.4
50145.5	10000	41.2849	92.8261	-1036	QK	2.8	1	6.8	-1	1.1	0	0.421	1	2.622	1	6.232	0	1977	44	1.4
50145.4	10000	41.2854	92.8262	-1036	QK	3.1	1	7.1	0	1.1	0	0.429	1	2.773	1	6.457	0	2008	47	1.4
50145.3	10000	41.2860	92.8262	-1035	QK	3.2	1	6.9	0	1.1	0	0.455	1	2.750	1	6.037	-1	2033	42	1.4
50145.2	10000	41.2866	92.8262	-1035	QK	3.0	1	6.9	0	1.2	0	0.436	1	2.606	1	5.974	-1	2029	35	1.4
50145.1	10000	41.2871	92.8262	-1034	QK	3.0	1	7.0	0	1.2	1	0.436	1	2.516	1	5.776	-1	2040	50	1.4
50145.0	10000	41.2877	92.8262	-1034	QK	2.9	1	6.7	-1	1.2	1	0.425	1	2.337	0	5.495	-1	2038	35	1.4
50144.9	10000	41.2882	92.8262	-1033	QK	2.8	1	6.2	-1	1.2	1	0.447	1	2.288	0	5.123	-2	2011	49	1.3
50144.8	10000	41.2888	92.8262	-1032	QK	3.0	1	6.1	-1	1.2	1	0.483	2	2.451	0	5.078	-2	1989	57	1.3
50144.7	10000	41.2894	92.8262	-1030	QK	2.8	1	6.0	-2	1.2	1	0.467	2	2.329	0	4.987	-2	1954	42	1.3
50144.6	10000	41.2899	92.8262	-1030	QK	2.9	1	6.5	-1	1.2	0	0.444	1	2.479	0	5.585	-1	1942	35	1.3
50144.5	10000	41.2905	92.8262	-1032	QK	2.8	1	6.3	-1	1.2	0	0.440	1	2.371	0	5.389	-2	1934	41	1.3
50144.4	10000	41.2911	92.8262	-1030	QK	2.5	0	6.5	-1	1.2	1	0.384	0	2.105	0	5.478	-1	1923	40	1.3
50144.3	10000	41.2916	92.8262	-1030	QK	2.7	0	6.7	-1	1.2	1	0.408	1	2.291	0	5.620	-1	1913	42	1.3
50144.2	10000	41.2922	92.8262	-1034	QK	2.7	0	7.0	0	1.2	1	0.393	1	2.294	0	5.836	-1	1928	39	1.3
50144.1	10000	41.2928	92.8262	-1035	QK	2.7	0	7.1	0	1.2	1	0.388	1	2.220	0	5.716	-1	1940	45	1.3
50144.0	10000	41.2933	92.8262	-1034	QK	2.6	0	7.1	0	1.3	1	0.368	1	2.091	0	5.673	-1	1945	47	1.3
50143.9	10000	41.2939	92.8262	-1033	QK	2.5	0	6.8	-1	1.3	1	0.373	1	1.955	-1	5.238	-2	1930	55	1.3
50143.8	10000	41.2945	92.8262	-1033	QK	2.5	0	7.3	0	1.3	1	0.349	1	1.971	-1	5.646	-1	1939	48	1.2
50143.7	10000	41.2950	92.8262	-1032	QK	2.7	0	7.3	0	1.3	1	0.364	1	2.107	0	5.790	-1	1936	36	1.2
50143.6	10000	41.2956	92.8262	-1030	QK	2.8	1	7.2	0	1.3	1	0.394	1	2.252	0	5.722	-1	1953	46	1.2
50143.5	10000	41.2962	92.8262	-1029	QK	2.9	1	7.0	0	1.2	1	0.417	1	2.350	0	5.641	-1	1963	48	1.2
50143.4	10000	41.2967	92.8263	-1028	QK	3.0	1	7.7	1	1.2	1	0.388	1	2.454	0	6.318	0	1969	51	1.2
50143.3	10000	41.2973	92.8263	-1028	QK	3.0	1	7.7	1	1.2	1	0.397	1	2.541	1	6.407	0	1976	40	1.2
50143.2	10000	41.2979	92.8263	-1027	QK	3.1	1	8.0	1	1.2	1	0.384	1	2.668	1	6.945	1	2002	41	1.2
50143.1	10000	41.2984	92.8263	-1025	QK	3.4	2	7.6	1	1.2	1	0.445	2	2.872	1	6.458	0	2018	54	1.2
50143.0	10000	41.2990	92.8263	-1024	QK	3.6	2	7.2	0	1.1	1	0.507	2	3.185	1	6.283	0	2015	38	1.2
50142.9	10000	41.2996	92.8263	-1022	QK	3.6	2	7.6	1	1.1	1	0.468	2	3.214	1	6.867	1	2013	39	1.2
50142.8	10000	41.3001	92.8263	-1020	QK	3.4	2	7.9	1	1.1	1	0.429	2	3.046	2	7.096	1	2000	44	1.2
50142.7	10000	41.3007	92.8263	-1019	QK	3.2	1	7.3	0	1.1	1	0.438	1	2.856	1	6.523	0	1990	49	1.2
50142.6	10000	41.3013	92.8263	-1017	QK	3.3	2	7.4	1	1.1	1	0.446	2	2.961	1	6.644	1	1991	57	1.1
50142.5	10000	41.3018	92.8263	-1015	QK	3.7	2	7.4	1	1.1	1	0.500	2	3.313	2	6.632	1	1983	40	1.1
50142.4	10000	41.3024	92.8263	-1014	QK	3.4	2	7.8	1	1.1	1	0.436	1	3.103	2	7.118	1	1972	50	1.1
50142.3	10000	41.3029	92.8263	-1013	QK	3.2	1	8.3	1	1.2	1	0.381	1	2.729	1	7.161	1	1991	45	1.1
50142.2	10000	41.3035	92.8263	-1011	QK	3.0	1	8.3	1	1.2	1	0.358	1	2.475	0	6.917	1	1987	42	1.1
50142.1	10000	41.3041	92.8263	-1009	QK	2.9	1	8.1	1	1.2	1	0.358	1	2.366	0	6.603	1	1982	30	1.1
50142.0	10000	41.3046	92.8263	-1008	QK	3.0	1	8.2	1	1.2	1	0.364	1	2.402	0	6.607	1	1982	36	1.1
50141.9	10000	41.3052	92.8263	-1006	QK	2.6	0	7.9	1	1.2	1	0.332	1	2.153	0	6.486	1	1958	43	1.1
50141.8	10000	41.3058	92.8263	-1003	QK	2.3	-1	7.8	1	1.2	1	0.286	-1	1.838	-1	6.434	1	1942	48	1.1
50141.7	10000	41.3063	92.8264	-1001	QK	2.3	-1	7.5	1	1.2	1	0.302	-1	1.896	-1	6.279	0	1924	42	1.1
50141.6	10000	41.3069	92.8264	-1002	QK	2.2	-1	7.2	0	1.1	0	0.314	-1	1.986	-1	6.333	0	1902	40	1.1

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50141.5	10000	41.3075	92.8264	-1001	QK	2.3	0	6.9	0	1.1	0	0.336	0	2.085	0	6.207	0	1885	38	1.1
50141.4	10000	41.3080	92.8264	-999	QK	2.5	0	6.9	-1	1.1	-1	0.359	0	2.337	0	6.510	0	1863	43	1.1
50141.3	10000	41.3086	92.8264	-997	QK	2.5	0	6.8	-1	1.0	-1	0.368	0	2.495	0	6.772	0	1859	35	1.1
50141.2	10000	41.3092	92.8264	-995	QK	2.9	1	6.9	0	1.0	-1	0.419	1	2.799	1	6.677	0	1869	42	1.1
50141.1	10000	41.3097	92.8264	-993	QK	2.7	0	7.0	0	1.1	-1	0.382	0	2.522	1	6.599	0	1873	37	1.1
50141.0	10000	41.3103	92.8264	-992	QK	2.6	0	6.8	-1	1.1	0	0.378	0	2.367	0	6.266	0	1880	33	1.1
50140.9	10000	41.3109	92.8264	-990	QK	2.6	0	6.9	0	1.1	0	0.384	0	2.392	0	6.225	0	1870	44	1.1
50140.8	10000	41.3114	92.8264	-988	QK	3.1	1	6.8	-1	1.1	0	0.460	2	2.866	1	6.225	0	1882	46	1.1
50140.7	10000	41.3120	92.8264	-986	QK	3.1	1	6.6	-1	1.1	0	0.463	2	2.782	1	6.012	-1	1897	42	1.1
50140.6	10000	41.3126	92.8264	-983	QK	3.2	1	6.3	-1	1.1	0	0.503	2	2.892	1	5.750	-1	1881	47	1.1
50140.5	10000	41.3131	92.8264	-981	QK	2.9	1	6.1	-2	1.1	0	0.484	2	2.753	1	5.685	-1	1874	38	1.1
50140.4	10000	41.3137	92.8264	-979	QK	3.0	1	6.4	-1	1.1	-1	0.468	2	2.806	1	6.001	-1	1876	39	1.1
50140.3	10000	41.3142	92.8264	-978	QK	3.1	1	7.0	0	1.1	0	0.441	1	2.868	1	6.497	0	1890	41	1.1
50140.2	10000	41.3148	92.8264	-976	QK	3.0	1	7.2	0	1.1	0	0.417	1	2.752	1	6.603	0	1912	44	1.1
50140.1	10000	41.3154	92.8264	-975	QK	2.7	1	7.5	0	1.1	0	0.359	0	2.367	0	6.596	0	1917	63	1.1
50140.0	10000	41.3159	92.8264	-973	QK	2.6	0	7.6	0	1.2	0	0.343	0	2.237	0	6.530	0	1935	52	1.1
50139.9	10000	41.3165	92.8264	-970	QK	2.4	0	7.7	1	1.2	1	0.313	-1	1.977	-1	6.323	0	1957	51	1.1
50139.8	10000	41.3171	92.8264	-967	QK	2.4	0	7.7	1	1.3	1	0.316	0	1.880	-1	5.943	-1	1967	43	1.1
50139.7	10000	41.3176	92.8265	-965	QK	2.7	0	7.9	1	1.3	2	0.340	0	2.063	0	6.063	-1	1984	35	1.1
50139.6	10000	41.3182	92.8265	-962	QK	2.8	1	7.7	1	1.3	1	0.364	0	2.193	0	6.024	-1	1980	39	1.1
50139.5	10000	41.3188	92.8265	-958	QK	2.9	1	7.6	1	1.3	1	0.380	0	2.302	0	6.055	-1	1960	49	1.1
50139.4	10000	41.3193	92.8265	-953	QK	2.8	1	7.7	1	1.2	1	0.360	0	2.222	0	6.178	0	1946	40	1.1
50139.3	10000	41.3199	92.8265	-947	QK	3.0	1	7.5	0	1.2	1	0.395	1	2.483	0	6.279	0	1930	45	1.1
50139.2	10000	41.3205	92.8265	-946	QK	3.1	1	7.8	1	1.1	0	0.395	1	2.689	1	6.812	0	1916	46	1.1
50139.1	10000	41.3210	92.8265	-946	QK	3.2	1	8.2	1	1.2	0	0.392	1	2.774	1	7.075	1	1925	38	1.1
50139.0	10000	41.3216	92.8265	-944	QK	3.2	1	7.7	1	1.1	0	0.418	1	2.808	1	6.724	0	1911	37	1.1
50138.9	10000	41.3222	92.8265	-940	QK	3.2	1	7.7	1	1.2	0	0.418	1	2.762	1	6.600	0	1915	42	1.1
50138.8	10000	41.3227	92.8265	-936	QK	3.1	1	7.5	1	1.2	0	0.409	1	2.633	1	6.439	0	1935	47	1.1
50138.7	10000	41.3233	92.8265	-932	QK	2.9	1	7.3	1	1.2	0	0.402	1	2.456	0	6.112	-1	1929	30	1.1
50138.6	10000	41.3239	92.8265	-928	QK	2.8	1	7.9	1	1.2	0	0.359	0	2.281	0	6.364	0	1924	43	1.1
50138.5	10000	41.3244	92.8265	-924	QK	2.6	0	7.8	1	1.2	0	0.332	0	2.086	0	6.289	0	1934	48	1.1
50138.4	10000	41.3250	92.8265	-920	QK	2.5	0	8.3	1	1.2	0	0.300	-1	2.043	0	6.816	0	1929	38	1.1
50138.3	10000	41.3256	92.8265	-916	QK	2.4	0	8.0	1	1.2	0	0.297	-1	1.936	-1	6.521	0	1931	44	1.1
50138.2	10000	41.3261	92.8265	-912	QK	2.3	-1	7.8	1	1.2	0	0.290	-1	1.854	-1	6.381	0	1915	41	1.1
50138.1	10000	41.3267	92.8265	-908	QK	2.1	-1	7.8	1	1.3	0	0.272	-1	1.693	-1	6.215	0	1899	46	1.1
50138.0	10000	41.3272	92.8266	-904	QK	2.1	-1	7.7	1	1.2	0	0.278	-1	1.723	-1	6.201	0	1906	32	1.1
50137.9	10000	41.3278	92.8266	-900	QK	2.0	-1	7.9	1	1.2	0	0.245	-1	1.576	-1	6.423	0	1902	40	1.1
50137.8	10000	41.3284	92.8266	-896	QK	1.9	-1	7.9	1	1.3	0	0.245	-1	1.541	-2	6.279	0	1880	38	1.1
50137.7	10000	41.3289	92.8266	-892	QK	2.0	-1	7.5	1	1.2	0	0.263	-1	1.600	-1	6.081	-1	1869	41	1.1
50137.6	10000	41.3295	92.8266	-888	QK	2.3	-1	7.7	1	1.2	0	0.293	-1	1.823	-1	6.227	0	1873	34	1.1
50137.5	10000	41.3301	92.8266	-884	QK	2.5	0	7.4	1	1.2	0	0.334	0	2.062	0	6.165	0	1867	43	1.1
50137.4	10000	41.3307	92.8266	-881	QK	2.7	1	7.3	1	1.2	0	0.367	0	2.276	0	6.200	0	1872	34	1.1
50137.3	10000	41.3312	92.8266	-878	QK	2.7	1	7.3	1	1.2	0	0.419	1	2.641	1	6.307	0	1878	24	1.1
50137.2	10000	41.3318	92.8266	-875	QK	2.5	1	6.8	-1	1.2	0	0.461	2	2.632	1	5.714	-1	1882	40	1.1
50137.1	10000	41.3323	92.8266	-872	QK	2.5	1	6.7	-1	1.2	0	0.469	2	2.657	1	5.668	-1	1877	49	1.1
50137.0	10000	41.3329	92.8266	-869	QK	2.4	1	6.6	-1	1.2	0	0.444	1	2.499	1	5.629	-1	1869	49	1.1
50136.9	10000	41.3335	92.8266	-866	QK	2.3	1	6.7	-1	1.2	0	0.422	1	2.423	0	5.740	-1	1852	42	1.1
50136.8	10000	41.3340	92.8266	-863	QK	2.2	1	7.0	0	1.2	0	0.380	0	2.240	0	5.894	-1	1841	37	1.1
50136.7	10000	41.3346	92.8266	-859	QK	2.1	0	7.1	0	1.2	0	0.351	0	2.091	0	5.953	-1	1813	39	1.1
50136.6	10000	41.3352	92.8266	-854	QK	2.1	-1	7.0	0	1.2	0	0.299	-1	1.766	-1	5.900	-1	1788	37	1.1
50136.5	10000	41.3357	92.8266	-857	QK	2.1	-1	6.9	0	1.2	0	0.304	-1	1.771	-1	5.835	-1	1779	50	1.1
50136.4	10000	41.3363	92.8266	-861	QK	2.0	-1	6.9	0	1.2	1	0.291	-1	1.689	-1	5.808	-1	1792	50	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50136.3	10000	41.3368	92.8266	-860	QK	2.1	-1	6.9	0	1.2	1	0.303	-1	1.742	-1	5.757	-1	1803	47	1.2
50136.2	10000	41.3374	92.8267	-859	QK	1.9	-1	7.0	0	1.2	1	0.273	-1	1.571	-1	5.760	-1	1813	37	1.2
50136.1	10000	41.3380	92.8267	-858	QK	1.9	-1	7.0	0	1.2	1	0.268	-1	1.553	-2	5.786	-1	1832	34	1.2
50136.0	10000	41.3385	92.8267	-857	QK	2.0	-1	6.9	0	1.2	1	0.291	-1	1.627	-1	5.590	-1	1855	37	1.2
50135.9	10000	41.3391	92.8267	-856	QK	2.0	-1	7.1	0	1.3	1	0.290	-1	1.629	-1	5.618	-1	1868	39	1.2
50135.8	10000	41.3396	92.8267	-855	QK	1.9	-1	7.3	0	1.2	1	0.261	-1	1.540	-2	5.909	-1	1877	40	1.2
50135.7	10000	41.3402	92.8267	-854	QK	2.0	-1	7.6	0	1.3	1	0.267	-1	1.566	-1	5.873	-1	1883	46	1.2
50135.6	10000	41.3407	92.8267	-853	QK	2.1	-1	7.3	0	1.2	1	0.282	-1	1.652	-1	5.859	-1	1888	42	1.2
50135.5	10000	41.3413	92.8267	-852	QK	2.1	-1	7.2	0	1.2	1	0.299	-1	1.734	-1	5.790	-1	1894	32	1.2
50135.4	10000	41.3419	92.8267	-851	QK	2.2	-1	7.1	0	1.2	1	0.309	-1	1.764	-1	5.717	-1	1892	52	1.2
50135.3	10000	41.3424	92.8267	-850	QK	2.1	-1	7.3	0	1.2	1	0.282	-1	1.651	-1	5.861	-1	1892	49	1.2
50135.2	10000	41.3430	92.8267	-849	QK	1.9	-1	7.3	0	1.2	1	0.263	-1	1.587	-1	6.044	-1	1891	43	1.2
50135.1	10000	41.3435	92.8267	-848	QK	2.1	-1	7.6	1	1.2	0	0.283	-1	1.838	-1	6.506	0	1897	29	1.2
50135.0	10000	41.3441	92.8268	-847	QK	2.1	-1	7.4	0	1.1	0	0.289	-1	1.906	-1	6.585	0	1890	42	1.2
50134.9	10000	41.3446	92.8268	-847	QK	2.3	0	7.5	0	1.1	0	0.312	-1	2.112	0	6.760	0	1878	44	1.2
50134.8	10000	41.3452	92.8268	-846	QK	2.3	0	7.5	0	1.1	0	0.309	-1	2.153	0	6.963	1	1871	39	1.2
50134.7	10000	41.3457	92.8268	-844	QK	2.1	-1	7.6	1	1.1	0	0.280	-1	1.985	-1	7.087	1	1870	45	1.2
50134.6	10000	41.3463	92.8268	-844	QK	2.3	0	7.5	0	1.0	-1	0.305	-1	2.235	0	7.323	1	1868	36	1.2
50134.5	10000	41.3469	92.8268	-843	QK	2.5	0	7.4	0	1.0	-1	0.341	0	2.507	1	7.361	1	1857	38	1.2
50134.4	10000	41.3474	92.8268	-841	QK	2.4	-1	6.6	-1	1.0	-1	0.370	0	2.465	0	6.670	0	1827	34	1.2
50134.3	10000	41.3480	92.8268	-840	QK	2.3	-1	6.7	-1	1.0	-1	0.339	0	2.279	0	6.726	0	1801	50	1.2
50134.2	10000	41.3485	92.8268	-838	QK	2.3	-1	6.6	-1	1.0	-1	0.347	0	2.285	0	6.579	0	1805	47	1.2
50134.1	10000	41.3491	92.8268	-837	QK	2.2	-1	6.8	-1	1.0	-1	0.329	0	2.153	0	6.548	0	1802	37	1.2
50134.0	10000	41.3496	92.8268	-835	QK	2.5	0	6.5	-1	1.0	-1	0.388	1	2.528	1	6.516	0	1811	45	1.2
50133.9	10000	41.3502	92.8268	-833	QK	2.5	0	6.2	-1	1.1	0	0.402	1	2.340	0	5.821	-1	1819	41	1.2
50133.8	10000	41.3508	92.8268	-831	QK	2.5	0	6.3	-1	1.2	0	0.393	1	2.137	0	5.443	-1	1835	42	1.2
50133.7	10000	41.3513	92.8268	-829	QK	2.5	0	6.6	-1	1.2	1	0.381	0	2.118	0	5.562	-1	1856	40	1.2
50133.6	10000	41.3519	92.8268	-827	QK	2.8	1	6.7	-1	1.2	0	0.417	1	2.384	0	5.714	-1	1890	44	1.2
50133.5	10000	41.3524	92.8269	-825	QK	2.9	1	6.3	-1	1.2	1	0.463	2	2.444	0	5.282	-2	1898	43	1.2
50133.4	10000	41.3530	92.8269	-823	QK	2.8	1	6.3	-1	1.2	1	0.452	1	2.348	0	5.197	-2	1905	37	1.2
50133.3	10000	41.3536	92.8269	-820	QK	2.6	1	6.4	-1	1.3	1	0.410	1	2.098	0	5.119	-2	1903	30	1.3
50133.2	10000	41.3541	92.8269	-818	QK	2.9	1	6.5	-1	1.2	1	0.440	1	2.421	0	5.509	-1	1903	42	1.3
50133.1	10000	41.3547	92.8269	-815	QK	3.0	1	6.5	-1	1.2	1	0.459	2	2.586	0	5.631	-1	1910	34	1.3
50133.0	10000	41.3552	92.8269	-812	QK	3.2	1	6.6	-1	1.2	1	0.478	2	2.745	0	5.737	-1	1918	38	1.3
50132.9	10000	41.3558	92.8269	-811	QK	3.1	1	6.6	-1	1.2	1	0.474	2	2.616	0	5.518	-1	1915	44	1.3
50132.8	10000	41.3564	92.8269	-809	QK	2.8	1	7.0	0	1.2	1	0.399	1	2.367	0	5.930	-1	1912	41	1.3
50132.7	10000	41.3569	92.8269	-807	QK	3.0	1	7.1	0	1.2	1	0.424	1	2.529	0	5.967	-1	1895	41	1.3
50132.6	10000	41.3575	92.8269	-804	QK	2.9	1	7.5	0	1.1	0	0.390	1	2.594	0	6.653	0	1857	54	1.3
50132.5	10000	41.3580	92.8269	-802	QK	2.5	0	7.5	0	1.1	0	0.328	0	2.217	0	6.754	0	1833	45	1.3
50132.4	10000	41.3586	92.8269	-800	QK	2.4	0	7.8	1	1.1	0	0.311	-1	2.228	1	7.168	1	1811	54	1.3
50132.3	10000	41.3591	92.8270	-797	QK	2.1	-1	7.7	1	1.1	0	0.274	-1	1.887	-1	6.892	1	1789	33	1.3
50132.2	10000	41.3597	92.8270	-794	QK	2.2	-1	7.6	1	1.0	-1	0.289	-1	2.139	0	7.404	1	1766	47	1.3
50132.1	10000	41.3602	92.8270	-792	QK	2.2	-1	7.8	1	1.0	-1	0.286	-1	2.225	0	7.793	2	1733	29	1.3
50132.0	10000	41.3608	92.8270	-789	QK	2.3	0	7.4	0	1.0	-1	0.312	-1	2.382	0	7.629	2	1725	28	1.3
50131.9	10000	41.3614	92.8270	-787	QK	2.5	0	6.8	-1	1.0	-1	0.371	0	2.553	1	6.877	1	1727	54	1.3
50131.8	10000	41.3619	92.8270	-784	QK	2.9	1	6.7	-1	1.0	-1	0.431	1	2.988	2	6.940	1	1721	49	1.3
50131.7	10000	41.3625	92.8270	-780	QK	2.8	1	6.4	-1	0.9	-1	0.442	1	2.992	2	6.775	0	1716	54	1.3
50131.6	10000	41.3630	92.8270	-774	QK	2.9	1	6.5	-1	0.9	-2	0.442	1	3.267	2	7.385	1	1706	60	1.3
50131.5	10000	41.3636	92.8270	-770	QK	2.9	1	6.2	-1	0.9	-2	0.478	2	3.260	2	6.818	0	1715	40	1.3
50131.4	10000	41.3641	92.8270	-771	QK	3.1	1	6.0	-2	0.9	-2	0.510	2	3.307	2	6.482	0	1740	58	1.3
50131.3	10000	41.3647	92.8270	-769	QK	2.8	1	6.0	-2	0.9	-2	0.468	2	3.019	2	6.454	0	1748	42	1.3
50131.2	10000	41.3653	92.8270	-769	QK	2.5	0	6.1	-1	1.0	-1	0.408	1	2.571	1	6.304	0	1766	44	1.3

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50131.1	10000	41.3658	92.8270	-768	QK	2.5	0	6.0	-2	1.0	-1	0.422	1	2.496	0	5.922	-1	1782	33	1.3
50131.0	10000	41.3664	92.8270	-767	QK	2.4	0	6.3	-1	1.1	0	0.382	0	2.262	0	5.921	-1	1812	33	1.3
50130.9	10000	41.3669	92.8271	-765	QK	2.6	0	6.6	-1	1.1	0	0.396	1	2.304	0	5.825	-1	1848	47	1.3
50130.8	10000	41.3675	92.8271	-762	QK	2.7	0	6.7	-1	1.1	0	0.397	1	2.373	0	5.972	-1	1865	40	1.3
50130.7	10000	41.3680	92.8271	-760	QK	2.8	1	6.6	-1	1.2	0	0.420	1	2.418	0	5.753	-1	1899	44	1.3
50130.6	10000	41.3686	92.8271	-757	QK	2.7	0	7.0	0	1.1	0	0.388	1	2.393	0	6.163	0	1927	49	1.3
50130.5	10000	41.3692	92.8271	-755	QK	2.9	1	7.2	0	1.1	0	0.402	1	2.554	1	6.345	0	1945	46	1.3
50130.4	10000	41.3697	92.8271	-753	QK	2.7	0	7.7	1	1.1	0	0.347	0	2.336	0	6.737	0	1961	56	1.3
50130.3	10000	41.3703	92.8271	-751	QK	2.7	0	7.6	0	1.2	0	0.363	0	2.376	0	6.554	0	1952	43	1.3
50130.2	10000	41.3708	92.8271	-750	QK	2.6	0	7.1	0	1.1	0	0.367	0	2.348	0	6.389	0	1951	41	1.3
50130.1	10000	41.3714	92.8271	-749	QK	2.8	0	7.3	0	1.2	0	0.379	0	2.387	0	6.296	0	1958	35	1.3
50130.0	10000	41.3719	92.8271	-748	QK	2.5	0	7.5	0	1.1	0	0.339	0	2.273	0	6.705	0	1943	48	1.3
50129.9	10000	41.3725	92.8271	-747	QK	2.6	0	7.5	0	1.2	0	0.355	0	2.286	0	6.448	0	1932	39	1.3
50129.8	10000	41.3731	92.8271	-746	QK	2.8	0	7.5	0	1.1	0	0.368	0	2.404	0	6.535	0	1933	42	1.3
50129.7	10000	41.3736	92.8271	-744	QK	3.0	1	7.3	0	1.1	0	0.405	1	2.609	1	6.442	0	1927	45	1.3
50129.6	10000	41.3742	92.8271	-743	QK	3.0	1	7.1	0	1.1	0	0.429	1	2.741	1	6.396	0	1928	39	1.3
50129.5	10000	41.3747	92.8272	-741	QK	3.2	1	7.0	0	1.2	0	0.454	1	2.727	1	6.001	-1	1924	48	1.3
50129.4	10000	41.3753	92.8272	-740	QK	2.8	0	7.2	0	1.2	1	0.384	0	2.312	0	6.023	-1	1914	48	1.3
50129.3	10000	41.3759	92.8272	-739	QK	2.6	0	7.1	0	1.3	1	0.373	0	2.103	0	5.633	-1	1908	38	1.3
50129.2	10000	41.3764	92.8272	-738	QK	2.6	0	6.9	0	1.2	1	0.372	0	2.096	0	5.630	-1	1901	46	1.3
50129.1	10000	41.3770	92.8272	-737	QK	2.5	0	7.2	0	1.3	1	0.340	0	1.965	-1	5.776	-1	1892	43	1.3
50129.0	10000	41.3775	92.8272	-736	QK	2.2	-1	7.2	0	1.2	1	0.311	-1	1.784	-1	5.741	-1	1882	41	1.3
50128.9	10000	41.3781	92.8272	-735	QK	2.2	-1	7.4	1	1.3	1	0.302	-1	1.729	-1	5.727	-1	1881	45	1.3
50128.8	10000	41.3786	92.8272	-733	QK	2.1	-1	7.6	1	1.2	1	0.274	-1	1.679	-1	6.124	-1	1883	35	1.3
50128.7	10000	41.3792	92.8272	-732	QK	2.3	-1	7.7	1	1.2	1	0.293	-1	1.863	-1	6.355	0	1882	46	1.3
50128.6	10000	41.3798	92.8272	-730	QK	2.4	0	7.3	0	1.2	1	0.329	0	2.045	0	6.215	0	1884	45	1.3
50128.5	10000	41.3803	92.8272	-728	QK	2.4	0	7.7	1	1.2	1	0.307	-1	1.911	-1	6.227	0	1907	44	1.3
50128.4	10000	41.3809	92.8272	-726	QK	2.5	0	7.3	0	1.3	1	0.335	0	1.929	-1	5.750	-1	1919	31	1.3
50128.3	10000	41.3814	92.8273	-724	QK	2.4	0	7.4	1	1.3	1	0.321	0	1.855	-1	5.777	-1	1933	30	1.3
50128.2	10000	41.3820	92.8273	-722	QK	2.4	0	7.6	1	1.2	1	0.312	-1	1.991	-1	6.387	0	1925	38	1.3
50128.1	10000	41.3825	92.8273	-720	QK	2.6	1	7.5	1	1.2	1	0.342	0	2.196	0	6.413	0	1917	46	1.3
50128.0	10000	41.3831	92.8273	-717	QK	2.4	0	7.1	0	1.2	1	0.341	0	2.006	-1	5.891	-1	1911	32	1.3
50127.9	10000	41.3837	92.8273	-715	QK	2.4	0	7.4	1	1.2	1	0.330	-1	1.981	-1	6.005	-1	1892	53	1.3
50127.8	10000	41.3842	92.8273	-712	QK	2.5	0	7.2	0	1.2	1	0.352	0	2.098	0	5.962	-1	1874	40	1.3
50127.7	10000	41.3848	92.8273	-711	QK	2.5	0	7.3	1	1.2	1	0.343	0	2.159	0	6.292	0	1850	51	1.2
50127.6	10000	41.3853	92.8273	-710	QK	2.5	0	7.1	0	1.1	1	0.352	0	2.205	0	6.256	0	1832	45	1.2
50127.5	10000	41.3859	92.8273	-708	QK	2.5	0	6.8	-1	1.2	1	0.362	0	2.026	-1	5.596	-1	1824	59	1.2
50127.4	10000	41.3864	92.8273	-705	QK	2.1	-1	6.9	0	1.3	1	0.298	-1	1.644	-1	5.509	-1	1831	38	1.2
50127.3	10000	41.3870	92.8273	-703	QK	2.0	-1	7.3	0	1.2	1	0.279	-1	1.630	-1	5.845	-1	1835	53	1.2
50127.2	10000	41.3876	92.8273	-700	QK	1.7	-2	7.4	1	1.2	1	0.233	-2	1.395	-2	5.997	-1	1841	39	1.2
50127.1	10000	41.3881	92.8273	-698	QK	1.5	-2	7.5	1	1.2	1	0.207	-2	1.247	-2	6.035	-1	1821	27	1.2
50127.0	10000	41.3887	92.8273	-696	QK	1.7	-2	7.4	1	1.2	1	0.224	-2	1.381	-2	6.176	0	1817	45	1.2
50126.9	10000	41.3892	92.8273	-694	QK	1.7	-2	7.3	1	1.2	1	0.237	-2	1.407	-2	5.930	-1	1813	63	1.2
50126.8	10000	41.3898	92.8274	-692	QK	1.7	-2	7.1	0	1.2	1	0.237	-2	1.455	-2	6.131	-1	1787	46	1.2
50126.7	10000	41.3904	92.8274	-690	QK	1.9	-1	6.9	0	1.1	1	0.281	-1	1.737	-1	6.181	0	1767	44	1.2
50126.6	10000	41.3909	92.8274	-687	QK	2.1	-1	6.9	0	1.0	-1	0.306	-1	2.012	-1	6.564	0	1750	43	1.2
50126.5	10000	41.3915	92.8274	-684	QK	2.4	0	6.5	-1	1.0	-1	0.364	0	2.358	0	6.485	0	1746	43	1.2
50126.4	10000	41.3920	92.8274	-681	QK	2.3	0	6.4	-1	1.0	-1	0.369	0	2.320	0	6.288	0	1747	43	1.2
50126.3	10000	41.3926	92.8274	-678	QK	1.9	-1	6.5	-1	1.0	-1	0.297	-1	1.898	-1	6.383	0	1738	45	1.2
50126.2	10000	41.3931	92.8274	-674	QK	1.8	-1	7.2	0	1.0	-1	0.254	-1	1.813	-1	7.151	1	1744	39	1.2
50126.1	10000	41.3937	92.8274	-671	QK	1.9	-1	7.3	0	1.1	0	0.262	-1	1.755	-1	6.706	0	1782	44	1.2
50126.0	10000	41.3943	92.8274	-667	QK	1.8	-2	7.9	1	1.1	0	0.225	-2	1.610	-1	7.148	1	1814	39	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50125.9	10000	41.3948	92.8274	-663	QK	1.8	-2	8.0	1	1.2	0	0.222	-2	1.527	-2	6.865	1	1839	53	1.2
50125.8	10000	41.3954	92.8274	-659	QK	1.8	-1	8.1	1	1.2	1	0.224	-2	1.528	-2	6.813	0	1856	30	1.2
50125.7	10000	41.3959	92.8274	-654	QK	2.1	-1	8.2	1	1.2	0	0.259	-1	1.802	-1	6.968	1	1855	50	1.2
50125.6	10000	41.3965	92.8275	-649	QK	2.4	0	8.3	1	1.2	1	0.286	-1	1.955	-1	6.826	0	1880	73	1.2
50125.5	10000	41.3970	92.8275	-644	QK	2.4	0	7.6	0	1.2	1	0.314	-1	1.950	-1	6.209	0	1880	47	1.2
50125.4	10000	41.3976	92.8275	-638	QK	2.2	-1	8.0	1	1.2	1	0.270	-1	1.804	-1	6.691	0	1862	48	1.2
50125.3	10000	41.3981	92.8275	-632	QK	2.3	0	8.0	1	1.2	0	0.293	-1	1.991	-1	6.807	0	1844	39	1.2
50125.2	10000	41.3987	92.8275	-626	QK	2.3	-1	7.4	0	1.1	0	0.300	-1	1.977	-1	6.582	0	1807	42	1.2
50125.1	10000	41.3993	92.8275	-619	QK	2.3	-1	7.2	0	1.1	-1	0.313	-1	2.125	0	6.801	0	1775	39	1.2
50125.0	10000	41.3998	92.8275	-613	QK	2.4	0	6.9	0	1.0	-1	0.343	0	2.287	0	6.661	0	1783	33	1.2
50124.9	10000	41.4004	92.8275	-605	QK	2.5	0	6.7	-1	1.0	-1	0.372	0	2.399	0	6.451	0	1799	49	1.2
50124.8	10000	41.4009	92.8275	-598	QK	2.9	1	7.0	0	1.0	-1	0.411	1	2.883	1	7.023	1	1813	44	1.2
50124.7	10000	41.4015	92.8275	-591	QK	3.4	2	6.5	-1	0.9	-2	0.526	2	3.656	3	6.949	1	1836	50	1.2
50124.6	10000	41.4021	92.8275	-584	QK	3.5	2	5.9	-2	1.0	-1	0.564	3	3.493	3	6.188	0	1843	37	1.2
50124.5	10000	41.4026	92.8275	-577	QK	3.5	2	6.1	-2	1.0	-1	0.566	3	3.384	2	5.980	-1	1872	35	1.2
50124.4	10000	41.4032	92.8275	-570	QK	3.6	2	6.6	-1	1.1	0	0.540	3	3.382	2	6.262	0	1899	39	1.1
50124.3	10000	41.4037	92.8275	-564	QK	3.3	2	6.9	0	1.1	0	0.483	2	3.033	2	6.276	0	1912	29	1.1
50124.2	10000	41.4043	92.8276	-558	QK	3.3	2	6.9	0	1.1	0	0.476	2	3.043	2	6.396	0	1891	37	1.1
50124.1	10000	41.4048	92.8276	-553	QK	3.2	1	6.7	-1	1.1	0	0.479	2	2.930	1	6.123	-1	1886	49	1.1
50124.0	10000	41.4054	92.8276	-549	QK	3.0	1	6.9	0	1.2	0	0.438	1	2.602	1	5.942	-1	1875	40	1.1
50123.9	10000	41.4060	92.8276	-546	QK	2.9	1	6.8	-1	1.2	0	0.426	1	2.463	0	5.784	-1	1882	35	1.1
50123.8	10000	41.4065	92.8276	-544	QK	2.8	1	7.2	0	1.2	0	0.385	0	2.387	0	6.203	0	1887	33	1.1
50123.7	10000	41.4071	92.8276	-542	QK	2.7	0	6.9	0	1.2	1	0.386	0	2.192	0	5.682	-1	1904	45	1.1
50123.6	10000	41.4077	92.8276	-542	QK	2.7	0	7.0	0	1.2	1	0.381	0	2.187	0	5.744	-1	1905	36	1.1
50123.5	10000	41.4083	92.8276	-542	QK	2.5	0	6.9	0	1.2	1	0.363	0	2.044	0	5.638	-1	1918	48	1.1
50123.4	10000	41.4088	92.8276	-543	QK	2.4	0	7.4	0	1.2	1	0.321	0	1.926	-1	6.001	-1	1922	35	1.1
50123.3	10000	41.4094	92.8275	-545	QK	2.3	-1	7.6	0	1.3	1	0.300	-1	1.803	-1	6.020	-1	1944	43	1.1
50123.2	10000	41.4100	92.8275	-548	QK	2.4	0	7.3	0	1.3	1	0.324	0	1.881	-1	5.806	-1	1933	44	1.1
50123.1	10000	41.4106	92.8275	-551	QK	2.4	0	7.1	0	1.3	1	0.336	0	1.896	-1	5.644	-1	1942	51	1.1
50123.0	10000	41.4112	92.8275	-556	QK	2.3	-1	7.3	0	1.2	1	0.311	-1	1.845	-1	5.937	-1	1929	41	1.1
50122.9	10000	41.4118	92.8275	-562	QK	2.3	0	7.1	0	1.2	1	0.325	0	1.915	-1	5.902	-1	1927	40	1.1
50122.8	10000	41.4123	92.8275	-570	QK	2.2	-1	7.4	0	1.2	1	0.302	-1	1.820	-1	6.018	-1	1932	44	1.1
50122.7	10000	41.4129	92.8275	-579	QK	2.0	-1	7.3	0	1.2	1	0.270	-1	1.519	-2	5.621	-1	1933	45	1.1
50122.6	10000	41.4135	92.8275	-588	QK	2.1	-1	7.2	0	1.2	1	0.286	-1	1.575	-1	5.500	-1	1940	47	1.1
50122.5	10000	41.4141	92.8275	-597	QK	1.8	-1	7.8	0	1.2	1	0.231	-2	1.409	-2	6.091	-1	1951	37	1.1
50122.4	10000	41.4147	92.8275	-607	QK	2.0	-1	7.8	0	1.2	1	0.258	-1	1.569	-1	6.072	-1	1968	39	1.1
50122.3	10000	41.4153	92.8275	-618	QK	2.3	0	7.8	0	1.2	1	0.292	-1	1.814	-1	6.214	0	1981	40	1.1
50122.2	10000	41.4159	92.8275	-629	QK	2.2	0	8.0	0	1.2	1	0.271	-1	1.710	-1	6.301	0	1983	44	1.1
50122.1	10000	41.4164	92.8275	-640	QK	2.5	0	7.8	0	1.2	1	0.324	0	2.006	-1	6.183	0	1987	40	1.1
50122.0	10000	41.4170	92.8275	-652	QK	2.9	1	7.8	0	1.2	1	0.373	0	2.396	0	6.416	0	2002	51	1.1
50121.9	10000	41.4176	92.8275	-664	QK	2.9	1	7.9	0	1.2	1	0.363	0	2.485	0	6.846	1	1989	44	1.2
50121.8	10000	41.4182	92.8274	-677	QK	2.9	1	8.0	1	1.2	1	0.365	0	2.319	0	6.361	0	1996	43	1.2
50121.7	10000	41.4188	92.8274	-690	QK	2.8	1	7.9	1	1.2	1	0.355	0	2.275	0	6.402	0	1988	41	1.2
50121.6	10000	41.4193	92.8274	-703	QK	2.7	0	7.7	0	1.2	1	0.353	0	2.164	0	6.125	-1	1980	46	1.2
50121.5	10000	41.4199	92.8274	-715	QK	2.8	1	7.5	1	1.2	1	0.372	0	2.274	0	6.107	-1	1986	39	1.2
50121.4	10000	41.4205	92.8274	-729	QK	2.8	1	7.8	1	1.2	1	0.361	0	2.238	0	6.203	0	1994	37	1.2
50121.3	10000	41.4211	92.8274	-741	QK	2.5	1	7.7	1	1.2	1	0.329	-1	1.955	-1	5.949	-1	1982	35	1.2
50121.2	10000	41.4217	92.8274	-754	QK	2.4	0	7.5	1	1.2	2	0.324	-1	1.846	-1	5.695	-1	1994	35	1.2
50121.1	10000	41.4223	92.8274	-767	QK	2.6	1	7.6	1	1.2	1	0.343	0	2.053	0	5.980	-1	1986	39	1.2
50121.0	10000	41.4229	92.8274	-778	QK	2.4	0	7.6	1	1.2	1	0.315	-1	1.892	-1	6.013	-1	1972	43	1.2
50120.9	10000	41.4234	92.8274	-790	QK	2.3	-1	7.9	1	1.2	2	0.289	-1	1.733	-1	5.992	-1	1974	45	1.2
50120.8	10000	41.4240	92.8274	-801	QK	2.2	-1	7.9	1	1.3	2	0.279	-1	1.638	-1	5.876	-1	1973	43	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50120.7	10000	41.4246	92.8274	-812	QK	2.2	-1	7.8	1	1.3	2	0.280	-1	1.652	-1	5.905	-1	1958	39	1.2
50120.6	10000	41.4252	92.8273	-822	QK	2.4	0	7.7	1	1.2	1	0.310	-1	1.906	-1	6.148	0	1953	56	1.2
50120.5	10000	41.4258	92.8273	-832	QK	2.4	0	8.0	1	1.2	1	0.304	-1	1.988	-1	6.547	0	1943	40	1.2
50120.4	10000	41.4264	92.8273	-841	QK	2.4	0	8.1	1	1.2	1	0.291	-1	1.914	-1	6.581	0	1958	44	1.2
50120.3	10000	41.4269	92.8273	-849	QK	2.4	0	8.4	2	1.2	1	0.288	-1	1.939	-1	6.738	0	1968	36	1.2
50120.2	10000	41.4275	92.8273	-857	QK	2.4	0	8.3	2	1.2	1	0.287	-1	1.998	-1	6.962	1	1956	45	1.2
50120.1	10000	41.4281	92.8273	-865	QK	2.6	0	8.4	2	1.1	0	0.304	-1	2.228	0	7.337	1	1954	47	1.2
50120.0	10000	41.4287	92.8273	-871	QK	2.5	0	8.7	2	1.2	0	0.284	-1	2.135	0	7.514	1	1955	54	1.2
50119.9	10000	41.4293	92.8273	-877	QK	2.6	0	8.8	2	1.2	0	0.292	-1	2.190	0	7.508	1	1963	35	1.2
50119.8	10000	41.4299	92.8273	-884	QK	2.6	0	8.4	2	1.2	1	0.306	-1	2.163	0	7.069	1	1954	49	1.2
50119.7	10000	41.4304	92.8273	-889	QK	2.8	1	8.2	1	1.2	1	0.344	0	2.389	0	6.943	1	1942	50	1.2
50119.6	10000	41.4310	92.8273	-894	QK	3.0	1	7.8	1	1.1	0	0.382	0	2.673	1	6.994	1	1938	48	1.2
50119.5	10000	41.4316	92.8273	-898	QK	3.1	1	7.5	1	1.1	0	0.409	1	2.779	1	6.790	0	1951	42	1.2
50119.4	10000	41.4322	92.8273	-902	QK	3.1	1	7.4	1	1.1	0	0.423	1	2.728	1	6.455	0	1956	45	1.2
50119.3	10000	41.4328	92.8273	-905	QK	3.1	1	6.6	-1	1.1	0	0.473	2	2.786	1	5.887	-1	1943	42	1.2
50119.2	10000	41.4333	92.8273	-907	QK	2.9	1	6.4	-1	1.1	0	0.451	1	2.547	1	5.647	-1	1928	45	1.2
50119.1	10000	41.4339	92.8272	-909	QK	3.0	1	6.4	-1	1.1	0	0.460	2	2.729	1	5.930	-1	1920	48	1.2
50119.0	10000	41.4345	92.8272	-911	QK	3.0	1	6.4	-1	1.1	0	0.476	2	2.765	1	5.811	-1	1916	32	1.2
50118.9	10000	41.4351	92.8272	-912	QK	3.0	1	6.5	-1	1.2	0	0.467	2	2.637	1	5.641	-1	1903	38	1.2
50118.8	10000	41.4357	92.8272	-912	QK	3.1	1	7.0	0	1.1	0	0.441	1	2.707	1	6.143	0	1894	46	1.2
50118.7	10000	41.4363	92.8272	-912	QK	3.0	1	7.1	0	1.2	0	0.427	1	2.582	1	6.044	-1	1886	43	1.2
50118.6	10000	41.4368	92.8272	-912	QK	2.8	1	7.9	1	1.2	0	0.350	0	2.394	0	6.842	1	1885	37	1.2
50118.5	10000	41.4374	92.8272	-911	QK	2.9	1	8.1	1	1.1	0	0.361	0	2.565	1	7.100	1	1895	35	1.2
50118.4	10000	41.4380	92.8272	-910	QK	2.9	1	8.0	1	1.1	0	0.359	0	2.530	1	7.039	1	1899	42	1.2
50118.3	10000	41.4386	92.8272	-909	QK	2.6	1	7.8	1	1.1	0	0.334	0	2.376	0	7.109	1	1889	45	1.2
50118.2	10000	41.4392	92.8272	-908	QK	2.8	1	7.9	1	1.1	0	0.355	0	2.538	1	7.139	1	1897	44	1.2
50118.1	10000	41.4398	92.8272	-907	QK	2.6	1	7.6	1	1.1	0	0.365	0	2.441	0	6.697	0	1912	44	1.2
50118.0	10000	41.4404	92.8272	-905	QK	2.7	1	7.7	1	1.1	0	0.382	0	2.588	1	6.775	0	1915	38	1.2
50117.9	10000	41.4409	92.8271	-903	QK	3.3	2	7.1	0	1.2	0	0.463	2	2.784	1	6.006	-1	1932	45	1.3
50117.8	10000	41.4415	92.8271	-901	QK	3.3	2	6.8	-1	1.2	0	0.485	2	2.871	1	5.914	-1	1932	43	1.3
50117.7	10000	41.4421	92.8271	-899	QK	3.3	2	7.0	0	1.2	0	0.469	2	2.824	1	6.026	-1	1943	55	1.3
50117.6	10000	41.4427	92.8271	-897	QK	3.5	2	7.2	0	1.2	0	0.490	2	3.060	2	6.250	0	1942	38	1.3
50117.5	10000	41.4433	92.8271	-893	QK	3.4	2	7.2	0	1.2	0	0.475	2	2.910	2	6.122	-1	1934	49	1.3
50117.4	10000	41.4439	92.8271	-891	QK	3.5	2	7.1	0	1.2	0	0.491	2	2.998	2	6.106	-1	1915	40	1.3
50117.3	10000	41.4444	92.8271	-890	QK	3.4	2	7.3	0	1.1	0	0.465	2	3.059	2	6.580	0	1906	42	1.3
50117.2	10000	41.4450	92.8271	-889	QK	3.3	2	7.2	0	1.1	0	0.455	2	3.079	2	6.773	0	1879	48	1.3
50117.1	10000	41.4456	92.8271	-887	QK	3.3	2	7.1	0	1.0	0	0.465	2	3.144	2	6.766	0	1853	37	1.3
50117.0	10000	41.4462	92.8271	-884	QK	3.2	2	6.7	-1	1.0	0	0.475	2	3.168	2	6.664	0	1813	35	1.3
50116.9	10000	41.4468	92.8271	-882	QK	3.1	2	6.3	-1	0.9	-1	0.492	2	2.907	1	6.428	0	1777	48	1.3
50116.8	10000	41.4473	92.8271	-881	QK	2.7	2	5.8	-2	0.9	-1	0.457	2	2.827	1	6.185	0	1729	48	1.3
50116.7	10000	41.4479	92.8271	-878	QK	2.4	2	5.5	-2	0.9	-1	0.432	2	2.678	1	6.197	0	1683	46	1.3
50116.6	10000	41.4485	92.8271	-876	QK	2.2	2	5.0	-3	0.9	-1	0.433	2	2.443	1	5.640	-1	1631	42	1.4
50116.5	10000	41.4491	92.8271	-874	QK	2.1	2	4.9	-3	0.9	-1	0.428	2	2.401	1	5.605	-1	1600	49	1.4
50116.4	10000	41.4497	92.8270	-872	QK	1.9	1	5.1	-3	0.9	-1	0.373	2	2.114	1	5.665	-1	1586	43	1.4
50116.3	10000	41.4503	92.8270	-869	QK	2.0	2	5.3	-3	0.9	-1	0.385	2	2.195	1	5.700	-1	1588	37	1.4
50116.2	10000	41.4509	92.8270	-867	QK	2.0	2	5.6	-2	0.9	-1	0.353	2	2.145	1	6.077	-1	1597	56	1.4
50116.1	10000	41.4514	92.8270	-865	QK	2.2	2	6.2	-1	1.0	-1	0.344	2	2.166	1	6.292	0	1621	48	1.4
50116.0	10000	41.4520	92.8270	-863	QAL	2.2	2	6.7	0	1.0	-1	0.361	2	2.330	1	6.446	0	1659	34	1.4
50115.9	10000	41.4526	92.8270	-861	QAL	2.5	2	6.8	0	1.1	0	0.365	2	2.315	1	6.919	1	1715	42	1.4
50115.8	10000	41.4532	92.8270	-858	QAL	2.3	2	6.8	0	1.1	0	0.341	-1	2.149	0	6.518	1	1765	39	1.4
50115.7	10000	41.4538	92.8270	-857	QAL	2.3	2	6.8	0	1.1	0	0.337	0	2.011	-1	5.965	0	1859	53	1.4
50115.6	10000	41.4544	92.8270	-855	QAL	2.3	2	6.8	0	1.1	0	0.337	0	2.011	-1	5.965	0	1859	53	1.4

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50115.5	10000	41.4549	92.8270	-853	QAL	2.6	0	6.8	0	1.2	1	0.378	0	2.095	0	5.549	-1	1904	47	1.4
50115.4	10000	41.4555	92.8270	-851	QAL	2.7	1	7.1	1	1.2	1	0.387	0	2.211	0	5.710	-1	1946	42	1.4
50115.3	10000	41.4561	92.8270	-849	QAL	2.6	0	6.8	0	1.2	1	0.387	0	2.171	0	5.610	-1	1968	38	1.4
50115.2	10000	41.4567	92.8270	-847	QAL	2.8	1	6.9	0	1.3	1	0.410	0	2.232	0	5.441	-1	1969	48	1.4
50115.1	10000	41.4573	92.8270	-845	QAL	2.7	0	7.3	1	1.2	1	0.363	0	2.160	0	5.948	0	1971	45	1.4
50115.0	10000	41.4579	92.8270	-844	QAL	2.7	0	7.3	1	1.3	1	0.368	0	2.113	0	5.740	0	1976	45	1.4
50114.9	10000	41.4584	92.8269	-842	QK	2.6	0	7.4	0	1.2	1	0.346	0	2.061	0	5.956	-1	1966	45	1.4
50114.8	10000	41.4590	92.8269	-839	QK	2.4	0	7.4	0	1.2	1	0.330	-1	2.029	-1	6.148	0	1961	41	1.4
50114.7	10000	41.4596	92.8269	-838	QK	2.5	0	7.4	0	1.2	1	0.339	0	2.117	0	6.249	0	1956	39	1.4
50114.6	10000	41.4602	92.8269	-836	QK	2.4	0	7.5	0	1.2	1	0.321	0	2.013	-1	6.272	0	1952	43	1.4
50114.5	10000	41.4608	92.8269	-834	QK	2.5	0	7.5	0	1.2	1	0.340	0	2.114	0	6.209	0	1959	39	1.4
50114.4	10000	41.4614	92.8269	-833	QK	2.9	1	7.3	0	1.2	1	0.391	0	2.456	0	6.278	0	1967	44	1.4
50114.3	10000	41.4619	92.8269	-832	QK	2.8	1	7.7	1	1.1	0	0.365	0	2.512	1	6.881	1	1954	37	1.4
50114.2	10000	41.4625	92.8269	-830	QK	3.0	1	7.9	1	1.1	0	0.381	0	2.626	1	6.893	1	1969	38	1.4
50114.1	10000	41.4631	92.8269	-829	QK	3.0	1	7.5	1	1.1	0	0.399	0	2.598	1	6.518	0	1961	44	1.4
50114.0	10000	41.4637	92.8269	-827	QK	2.9	1	7.7	1	1.1	0	0.382	0	2.593	1	6.791	0	1961	54	1.4
50113.9	10000	41.4643	92.8269	-826	QK	3.2	1	7.9	1	1.1	0	0.403	0	2.790	1	6.923	1	1972	39	1.4
50113.8	10000	41.4649	92.8269	-824	QK	3.2	1	7.6	1	1.1	0	0.418	1	2.833	1	6.771	0	1973	53	1.4
50113.7	10000	41.4654	92.8268	-822	QK	3.0	1	7.2	1	1.1	0	0.415	1	2.602	1	6.271	0	1976	44	1.4
50113.6	10000	41.4660	92.8268	-820	QK	3.3	2	7.1	1	1.2	0	0.467	2	2.888	1	6.187	0	1992	39	1.4
50113.5	10000	41.4666	92.8268	-821	QK	3.4	2	6.8	-1	1.2	0	0.504	2	2.931	1	5.817	-1	1998	43	1.4
50113.4	10000	41.4672	92.8268	-822	QK	3.6	2	7.1	0	1.2	1	0.511	2	3.068	2	6.001	-1	2008	42	1.4
50113.3	10000	41.4678	92.8268	-820	QK	3.5	2	6.9	-1	1.2	1	0.511	2	2.896	1	5.671	-1	2006	40	1.4
50113.2	10000	41.4684	92.8268	-818	QK	3.4	2	6.8	-1	1.2	1	0.501	2	2.859	1	5.711	-1	1998	35	1.4
50113.1	10000	41.4689	92.8268	-817	QK	3.5	2	7.3	0	1.2	0	0.480	2	3.004	2	6.263	0	1984	45	1.4
50113.0	10000	41.4695	92.8268	-815	QK	3.4	2	7.4	0	1.1	0	0.460	2	3.072	2	6.673	0	1967	48	1.4
50112.9	10000	41.4701	92.8268	-814	QK	3.2	1	7.5	0	1.1	0	0.428	1	2.947	1	6.892	1	1935	38	1.4
50112.8	10000	41.4707	92.8268	-812	QK	2.8	1	7.5	0	1.1	0	0.377	1	2.672	1	7.085	1	1903	30	1.4
50112.7	10000	41.4713	92.8268	-810	QK	2.7	1	7.7	0	1.1	0	0.355	1	2.725	1	7.665	2	1892	27	1.4
50112.6	10000	41.4719	92.8268	-808	QK	2.7	1	7.7	0	1.1	0	0.350	1	2.680	2	7.648	2	1886	45	1.4
50112.5	10000	41.4725	92.8268	-806	QAL	2.5	1	7.4	0	1.1	0	0.346	1	2.422	1	7.009	1	1884	51	1.4
50112.4	10000	41.4730	92.8268	-804	QAL	2.0	0	7.3	1	1.1	1	0.279	-1	1.787	-1	6.395	0	1895	25	1.4
50112.3	10000	41.4736	92.8268	-803	QAL	2.2	0	7.5	1	1.1	2	0.296	-1	1.830	-1	6.175	0	1902	50	1.5
50112.2	10000	41.4742	92.8267	-801	QAL	1.7	-1	7.2	1	1.2	2	0.242	-2	1.439	-2	5.955	0	1897	27	1.5
50112.1	10000	41.4748	92.8267	-799	QAL	1.9	-1	7.3	1	1.2	2	0.263	-1	1.610	-1	6.130	0	1908	40	1.5
50112.0	10000	41.4754	92.8267	-797	QAL	1.8	-1	7.0	1	1.3	2	0.255	-1	1.374	-2	5.389	-1	1911	42	1.5
50111.9	10000	41.4759	92.8267	-795	QAL	1.9	-1	6.8	1	1.3	3	0.280	-1	1.434	-2	5.122	-1	1929	48	1.4
50111.8	10000	41.4765	92.8267	-794	QAL	2.0	-1	6.7	1	1.3	3	0.293	-1	1.483	-2	5.060	-1	1937	28	1.4
50111.7	10000	41.4771	92.8267	-792	QAL	2.5	0	6.5	1	1.3	3	0.390	-1	2.007	-1	5.145	-1	1939	37	1.4
50111.6	10000	41.4777	92.8267	-790	QAL	2.3	0	6.6	1	1.2	3	0.348	0	1.867	-1	5.360	-1	1948	46	1.4
50111.5	10000	41.4783	92.8267	-789	QAL	2.8	1	6.8	1	1.3	3	0.418	0	2.171	0	5.192	-1	1967	47	1.4
50111.4	10000	41.4789	92.8267	-788	QAL	3.0	1	6.7	1	1.3	3	0.451	1	2.234	0	4.953	-1	1975	44	1.4
50111.3	10000	41.4794	92.8267	-787	QAL	3.1	1	7.1	1	1.3	2	0.443	1	2.358	0	5.321	-1	1988	42	1.4
50111.2	10000	41.4800	92.8267	-787	QAL	3.3	1	6.9	1	1.2	2	0.469	1	2.626	1	5.598	-1	1974	37	1.4
50111.1	10000	41.4806	92.8267	-786	QAL	3.7	2	7.2	1	1.2	2	0.512	2	3.050	1	5.961	0	1969	54	1.4
50111.0	10000	41.4812	92.8266	-785	QAL	3.4	2	7.4	1	1.2	2	0.456	2	2.705	1	5.934	0	1967	52	1.4
50110.9	10000	41.4818	92.8266	-785	QAL	3.7	2	7.0	1	1.2	2	0.525	2	2.971	1	5.660	-1	1958	29	1.4
50110.8	10000	41.4824	92.8266	-785	QAL	3.7	2	6.6	1	1.1	2	0.558	2	3.205	2	5.738	0	1948	34	1.4
50110.7	10000	41.4829	92.8266	-784	QAL	3.6	2	6.4	1	1.1	2	0.558	2	3.444	2	6.059	0	1925	49	1.4
50110.6	10000	41.4835	92.8266	-784	QAL	3.5	2	6.2	1	1.1	2	0.558	2	3.225	2	5.783	0	1925	52	1.4
50110.5	10000	41.4841	92.8266	-784	QAL	3.1	2	6.5	1	1.1	2	0.480	2	2.741	1	5.711	-1	1932	33	1.4
50110.4	10000	41.4847	92.8266	-784	QAL	2.5	0	6.8	0	1.2	1	0.371	0	2.171	0	5.856	0	1926	42	1.4

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50110.3	10000	41.4853	92.8266	-784	QAL	2.3	0	6.9	0	1.1	0	0.338	0	2.032	-1	6.016	0	1924	39	1.4
50110.2	10000	41.4859	92.8266	-784	QAL	2.4	0	7.1	1	1.2	1	0.337	0	2.059	0	6.110	0	1914	40	1.4
50110.1	10000	41.4864	92.8266	-784	QAL	2.4	0	7.3	1	1.2	1	0.334	-1	2.039	0	6.104	0	1924	48	1.4
50110.0	10000	41.4870	92.8266	-784	QK	2.3	0	7.4	0	1.2	1	0.312	-1	1.887	-1	6.043	-1	1930	41	1.4
50109.9	10000	41.4876	92.8266	-784	QK	2.6	0	7.1	0	1.2	1	0.363	0	2.168	0	5.967	-1	1916	50	1.4
50109.8	10000	41.4882	92.8266	-784	QK	2.7	0	7.0	0	1.2	1	0.388	1	2.270	0	5.848	-1	1904	40	1.4
50109.7	10000	41.4888	92.8266	-785	QK	3.0	1	6.4	-1	1.2	1	0.465	2	2.514	1	5.408	-2	1911	47	1.4
50109.6	10000	41.4894	92.8266	-784	QK	3.4	2	6.0	-2	1.2	1	0.558	3	2.767	1	4.956	-2	1896	50	1.4
50109.5	10000	41.4900	92.8265	-784	QK	2.9	1	6.2	-1	1.2	1	0.462	2	2.363	0	5.113	-2	1899	44	1.4
50109.4	10000	41.4905	92.8265	-784	QK	2.7	0	6.6	-1	1.2	1	0.408	1	2.262	0	5.548	-1	1900	40	1.4
50109.3	10000	41.4911	92.8265	-784	QK	2.6	0	6.6	-1	1.2	1	0.398	1	2.238	0	5.619	-1	1893	36	1.4
50109.2	10000	41.4917	92.8265	-783	QK	2.5	0	7.4	0	1.1	0	0.338	0	2.190	0	6.482	0	1885	53	1.4
50109.1	10000	41.4923	92.8265	-782	QK	2.5	0	7.4	0	1.1	0	0.343	0	2.342	0	6.833	0	1880	37	1.4
50109.0	10000	41.4929	92.8265	-781	QK	2.7	0	7.5	0	1.1	-1	0.359	0	2.551	1	7.116	1	1868	50	1.4
50108.9	10000	41.4934	92.8265	-781	QK	2.4	0	7.8	1	1.0	-1	0.311	-1	2.383	0	7.662	2	1868	50	1.4
50108.8	10000	41.4940	92.8265	-780	QK	2.5	0	7.4	0	1.0	-1	0.337	0	2.536	1	7.522	1	1853	44	1.4
50108.7	10000	41.4946	92.8265	-778	QK	2.7	0	7.1	0	1.0	-1	0.376	0	2.747	1	7.306	1	1831	34	1.4
50108.6	10000	41.4952	92.8265	-778	QK	2.6	0	7.0	0	1.0	-1	0.375	0	2.682	1	7.145	1	1808	53	1.4
50108.5	10000	41.4958	92.8265	-779	QK	2.9	1	6.6	-1	1.0	-1	0.432	1	2.945	1	6.813	0	1799	57	1.4
50108.4	10000	41.4963	92.8265	-779	QK	2.9	1	6.8	-1	1.0	-1	0.428	1	2.939	1	6.865	1	1800	40	1.4
50108.3	10000	41.4969	92.8265	-778	QK	2.7	0	6.5	-1	1.0	-1	0.409	1	2.632	1	6.441	0	1793	51	1.4
50108.2	10000	41.4975	92.8264	-777	QK	2.9	0	6.8	-1	1.0	-1	0.427	1	2.918	1	6.829	0	1800	41	1.4
50108.1	10000	41.4980	92.8264	-776	QK	2.9	1	6.8	-1	1.0	-1	0.421	1	2.753	1	6.543	0	1815	48	1.4
50108.0	10000	41.4986	92.8264	-774	QK	2.8	1	6.6	-1	1.1	0	0.423	1	2.498	0	5.907	-1	1821	41	1.4
50107.9	10000	41.4992	92.8264	-772	QK	2.8	1	6.7	-1	1.1	0	0.411	1	2.415	0	5.879	-1	1851	43	1.4
50107.8	10000	41.4997	92.8264	-770	QK	2.5	1	6.8	-1	1.2	0	0.371	0	2.134	0	5.754	-1	1877	43	1.4
50107.7	10000	41.5003	92.8264	-768	QAL	2.3	0	6.6	0	1.2	1	0.334	-1	1.793	-1	5.365	-1	1885	42	1.4
50107.6	10000	41.5009	92.8264	-766	QAL	2.3	0	6.9	0	1.2	1	0.329	-1	1.877	-1	5.699	-1	1904	56	1.4
50107.5	10000	41.5015	92.8264	-766	QAL	2.2	-1	6.5	0	1.2	1	0.333	-1	1.760	-1	5.279	-1	1916	41	1.4
50107.4	10000	41.5020	92.8264	-764	QAL	2.4	0	6.5	0	1.2	1	0.365	0	1.932	-1	5.297	-1	1911	41	1.4
50107.3	10000	41.5026	92.8264	-762	QAL	2.2	0	6.8	0	1.2	1	0.319	-1	1.852	-1	5.804	0	1914	46	1.4
50107.2	10000	41.5032	92.8264	-760	QAL	2.3	0	7.1	1	1.2	1	0.325	-1	1.964	-1	6.045	0	1917	43	1.4
50107.1	10000	41.5038	92.8264	-758	QAL	2.1	-1	7.3	1	1.1	1	0.292	-1	1.861	-1	6.363	0	1903	44	1.4
50107.0	10000	41.5043	92.8264	-756	QAL	2.2	-1	7.1	1	1.1	1	0.307	-1	1.893	-1	6.168	0	1900	36	1.4
50106.9	10000	41.5049	92.8264	-755	QAL	1.9	-1	7.1	1	1.1	1	0.265	-1	1.699	-1	6.404	0	1896	48	1.4
50106.8	10000	41.5055	92.8263	-753	QAL	2.2	-1	7.2	1	1.1	1	0.301	-1	1.987	-1	6.596	1	1884	50	1.4
50106.7	10000	41.5060	92.8263	-752	QAL	2.2	0	7.2	1	1.0	1	0.303	-1	2.128	0	7.025	1	1882	39	1.4
50106.6	10000	41.5066	92.8263	-750	QAL	2.2	0	7.2	1	1.1	0	0.301	-1	2.038	0	6.768	1	1889	38	1.4
50106.5	10000	41.5072	92.8263	-748	QK	2.1	-1	7.0	1	1.1	-1	0.305	-1	2.034	0	6.674	0	1902	53	1.4
50106.4	10000	41.5078	92.8263	-747	QK	2.3	0	7.2	1	1.1	0	0.324	0	2.198	0	6.792	0	1909	36	1.4
50106.3	10000	41.5083	92.8263	-745	QK	2.4	0	7.9	1	1.1	-1	0.299	-1	2.220	0	7.415	1	1917	39	1.4
50106.2	10000	41.5089	92.8263	-744	QK	2.5	0	8.1	1	1.1	-1	0.313	-1	2.402	0	7.663	2	1926	41	1.4
50106.1	10000	41.5095	92.8263	-742	QK	2.2	-1	8.2	1	1.1	0	0.267	-1	2.018	-1	7.552	2	1922	37	1.4
50106.0	10000	41.5100	92.8263	-739	QK	2.1	-1	8.2	1	1.2	0	0.257	-1	1.836	-1	7.137	1	1920	52	1.4
50105.9	10000	41.5106	92.8263	-736	QK	2.0	-1	8.2	1	1.1	0	0.247	-1	1.814	-1	7.334	1	1904	38	1.4
50105.8	10000	41.5112	92.8263	-732	QK	1.9	-1	8.3	1	1.2	0	0.229	-2	1.600	-1	7.001	1	1887	37	1.4
50105.7	10000	41.5118	92.8263	-731	QK	1.8	-1	8.2	1	1.2	0	0.221	-2	1.515	-2	6.843	1	1891	48	1.4
50105.6	10000	41.5123	92.8263	-730	QK	1.9	-1	7.7	1	1.2	0	0.253	-1	1.666	-1	6.589	0	1878	47	1.4
50105.5	10000	41.5129	92.8262	-728	QK	2.0	-1	7.3	1	1.2	0	0.276	-1	1.701	-1	6.159	0	1871	40	1.4
50105.4	10000	41.5135	92.8262	-727	QK	2.2	-1	7.2	1	1.2	1	0.306	-1	1.840	-1	6.016	-1	1874	42	1.4
50105.3	10000	41.5140	92.8262	-725	QK	2.1	-1	7.2	1	1.2	1	0.284	-1	1.730	-1	6.086	-1	1873	48	1.4
50105.2	10000	41.5146	92.8262	-722	QK	2.0	-1	7.2	0	1.2	1	0.280	-1	1.709	-1	6.112	-1	1872	39	1.4

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50105.1	10000	41.5152	92.8262	-718	QK	2.1	-1	6.8	-1	1.1	0	0.315	-1	1.933	-1	6.147	0	1872	43	1.4
50105.0	10000	41.5158	92.8262	-716	QK	2.4	0	6.4	-1	1.2	0	0.369	0	2.035	0	5.518	-1	1855	48	1.4
50104.9	10000	41.5163	92.8262	-716	QK	2.3	0	6.3	-1	1.2	1	0.363	0	1.882	-1	5.189	-2	1854	45	1.4
50104.8	10000	41.5169	92.8262	-716	QK	2.3	0	6.4	-1	1.2	1	0.363	0	1.865	-1	5.136	-2	1855	38	1.4
50104.7	10000	41.5175	92.8262	-713	QK	2.3	0	6.4	-1	1.2	1	0.361	0	1.900	-1	5.261	-2	1854	47	1.4
50104.6	10000	41.5180	92.8262	-712	QK	2.5	0	6.5	-1	1.2	1	0.383	0	2.039	0	5.326	-2	1867	41	1.4
50104.5	10000	41.5186	92.8262	-710	QK	2.7	0	6.4	-1	1.2	1	0.417	1	2.173	0	5.215	-2	1876	33	1.4
50104.4	10000	41.5192	92.8262	-709	QK	2.5	0	6.7	-1	1.3	1	0.365	0	1.950	-1	5.340	-2	1872	38	1.4
50104.3	10000	41.5198	92.8262	-707	QK	2.6	0	6.5	-1	1.2	1	0.401	1	2.202	0	5.487	-1	1883	47	1.4
50104.2	10000	41.5203	92.8262	-704	QK	2.9	1	6.5	-1	1.1	0	0.446	1	2.616	1	5.863	-1	1890	37	1.4
50104.1	10000	41.5209	92.8261	-701	QK	3.0	1	6.4	-1	1.1	0	0.466	2	2.683	1	5.756	-1	1878	39	1.4
50104.0	10000	41.5215	92.8261	-700	QK	3.1	1	6.5	-1	1.1	0	0.469	2	2.685	1	5.726	-1	1878	51	1.4
50103.9	10000	41.5221	92.8261	-700	QK	3.1	1	6.5	-1	1.2	0	0.469	2	2.649	1	5.652	-1	1885	30	1.4
50103.8	10000	41.5226	92.8261	-699	QK	3.1	1	6.7	-1	1.1	0	0.457	1	2.694	1	5.896	-1	1896	46	1.4
50103.7	10000	41.5232	92.8261	-697	QK	3.2	1	6.9	0	1.2	0	0.469	2	2.812	1	5.995	-1	1901	44	1.4
50103.6	10000	41.5238	92.8261	-696	QK	3.0	1	7.0	0	1.2	0	0.424	1	2.543	1	5.997	-1	1903	37	1.4
50103.5	10000	41.5243	92.8261	-695	QK	2.8	1	7.4	0	1.2	1	0.382	0	2.332	0	6.104	-1	1915	43	1.4
50103.4	10000	41.5249	92.8261	-693	QK	2.6	0	7.3	0	1.2	1	0.350	0	2.144	0	6.124	-1	1913	33	1.4
50103.3	10000	41.5255	92.8261	-692	QK	2.7	0	7.5	0	1.2	1	0.362	0	2.270	0	6.269	0	1925	49	1.4
50103.2	10000	41.5261	92.8261	-690	QK	2.7	0	7.3	0	1.2	0	0.368	0	2.323	0	6.316	0	1911	49	1.4
50103.1	10000	41.5266	92.8261	-689	QK	2.8	1	7.4	0	1.2	0	0.378	0	2.371	0	6.267	0	1913	47	1.4
50103.0	10000	41.5272	92.8261	-688	QK	2.8	1	7.1	0	1.1	0	0.400	1	2.508	1	6.278	0	1915	37	1.4
50102.9	10000	41.5278	92.8261	-686	QK	2.9	1	7.2	0	1.1	0	0.402	1	2.677	1	6.654	0	1920	39	1.4
50102.8	10000	41.5283	92.8260	-685	QK	2.8	1	7.0	0	1.1	-1	0.396	1	2.636	1	6.661	0	1916	28	1.4
50102.7	10000	41.5289	92.8260	-683	QK	2.9	1	7.1	0	1.1	0	0.413	1	2.764	1	6.698	0	1945	48	1.4
50102.6	10000	41.5295	92.8260	-682	QK	2.7	0	6.8	-1	1.0	-1	0.391	1	2.534	1	6.487	0	1948	46	1.4
50102.5	10000	41.5301	92.8260	-681	QK	2.8	1	7.1	0	1.0	-1	0.399	1	2.706	1	6.784	0	1949	38	1.4
50102.4	10000	41.5306	92.8260	-680	QK	2.7	0	6.6	-1	1.0	-1	0.414	1	2.629	1	6.345	0	1944	50	1.4
50102.3	10000	41.5312	92.8260	-679	QK	2.7	0	6.7	-1	1.1	0	0.411	1	2.553	1	6.211	0	1948	47	1.4
50102.2	10000	41.5318	92.8260	-677	QK	2.9	1	6.7	-1	1.1	-1	0.428	1	2.511	1	5.871	-1	1943	42	1.4
50102.1	10000	41.5323	92.8260	-676	QK	2.9	1	6.8	-1	1.1	0	0.430	1	2.569	1	5.970	-1	1949	40	1.4
50102.0	10000	41.5329	92.8260	-675	QK	2.9	1	7.3	0	1.2	0	0.399	1	2.470	1	6.186	0	1943	55	1.4
50101.9	10000	41.5335	92.8260	-674	QK	2.8	1	7.4	0	1.2	0	0.386	0	2.439	1	6.320	0	1933	43	1.4
50101.8	10000	41.5341	92.8260	-672	QK	2.6	1	7.4	0	1.2	0	0.350	0	2.206	0	6.305	0	1932	31	1.4
50101.7	10000	41.5346	92.8260	-671	QK	2.6	1	7.8	0	1.2	0	0.330	0	2.130	0	6.454	0	1915	47	1.4
50101.6	10000	41.5352	92.8260	-669	QK	2.5	1	7.5	0	1.2	0	0.332	0	2.106	0	6.344	0	1912	49	1.4
50101.5	10000	41.5358	92.8260	-667	QK	2.3	1	7.8	0	1.2	-1	0.296	-1	1.946	-1	6.572	0	1913	51	1.4
50101.4	10000	41.5363	92.8260	-666	QK	2.4	1	7.7	0	1.2	-1	0.306	-1	2.005	-1	6.557	0	1896	52	1.4
50101.3	10000	41.5369	92.8259	-664	QK	2.3	1	7.2	0	1.2	0	0.325	0	2.022	-1	6.211	0	1883	49	1.4
50101.2	10000	41.5375	92.8259	-663	QK	2.4	1	7.4	0	1.2	0	0.329	0	2.078	0	6.323	0	1890	41	1.4
50101.1	10000	41.5381	92.8259	-662	QK	2.7	1	7.3	0	1.2	0	0.372	0	2.350	0	6.323	0	1892	39	1.4
50101.0	10000	41.5386	92.8259	-661	QK	2.7	1	7.0	0	1.2	1	0.394	0	2.379	0	6.035	-1	1899	46	1.4
50100.9	10000	41.5392	92.8259	-660	QK	2.8	1	7.4	0	1.2	0	0.383	0	2.358	0	6.160	0	1902	35	1.4
50100.8	10000	41.5398	92.8259	-658	QK	2.7	1	7.5	0	1.2	0	0.358	0	2.215	0	6.189	0	1901	50	1.4
50100.7	10000	41.5404	92.8259	-656	QK	2.5	1	7.7	0	1.3	0	0.325	0	1.954	-1	6.011	-1	1905	46	1.4
50100.6	10000	41.5409	92.8259	-655	QK	2.3	0	8.0	1	1.3	1	0.283	-1	1.702	-1	6.026	-1	1902	45	1.4
50100.5	10000	41.5415	92.8259	-655	QK	2.3	0	8.1	1	1.3	1	0.281	-1	1.726	-1	6.134	0	1904	45	1.4
50100.4	10000	41.5421	92.8259	-654	QK	2.0	-1	8.1	1	1.3	1	0.243	-1	1.475	-2	6.063	-1	1907	39	1.4
50100.3	10000	41.5426	92.8259	-653	QK	1.9	-1	8.5	2	1.3	1	0.222	-2	1.467	-2	6.617	0	1907	38	1.4
50100.2	10000	41.5432	92.8259	-651	QK	1.8	-2	8.7	2	1.3	1	0.203	-2	1.393	-2	6.851	1	1912	36	1.4
50100.1	10000	41.5438	92.8259	-650	QK	2.0	-1	8.7	2	1.3	1	0.229	-2	1.576	-1	6.896	1	1911	50	1.4
50100.0	10000	41.5443	92.8259	-649	QK	1.8	-1	8.6	2	1.2	1	0.208	-2	1.491	-2	7.151	1	1901	56	1.4

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50099.9	10000	41.5449	92.8258	-648	QK	2.1	-1	8.8	2	1.2	1	0.241	-2	1.790	-1	7.434	1	1911	46	1.4
50099.8	10000	41.5455	92.8258	-647	QK	2.1	-1	8.3	1	1.2	1	0.251	-1	1.761	-1	7.026	1	1901	43	1.4
50099.7	10000	41.5461	92.8258	-645	QK	2.3	-1	8.3	1	1.1	0	0.272	-1	1.969	-1	7.244	1	1898	39	1.4
50099.6	10000	41.5466	92.8258	-644	QK	2.4	0	7.9	1	1.2	0	0.299	-1	2.046	0	6.838	1	1899	56	1.4
50099.5	10000	41.5472	92.8258	-643	QK	2.6	0	7.7	1	1.1	0	0.336	0	2.292	0	6.826	0	1898	46	1.4
50099.4	10000	41.5478	92.8258	-642	QK	2.5	0	7.6	1	1.2	0	0.331	0	2.170	0	6.552	0	1917	44	1.4
50099.3	10000	41.5483	92.8258	-641	QK	2.7	0	7.3	0	1.2	0	0.365	0	2.277	0	6.233	0	1910	36	1.4
50099.2	10000	41.5489	92.8258	-640	QK	2.7	0	7.1	0	1.1	0	0.381	0	2.420	0	6.352	0	1902	39	1.3
50099.1	10000	41.5495	92.8258	-639	QK	2.5	0	7.4	0	1.1	0	0.342	0	2.294	0	6.705	0	1896	43	1.3
50099.0	10000	41.5501	92.8258	-639	QK	2.5	0	7.2	0	1.1	0	0.346	0	2.183	0	6.308	0	1889	41	1.3
50098.9	10000	41.5506	92.8258	-638	QK	2.5	0	7.3	0	1.2	1	0.337	0	2.086	0	6.182	0	1892	38	1.3
50098.8	10000	41.5512	92.8258	-637	QK	2.3	0	7.1	0	1.2	1	0.326	0	1.878	-1	5.759	-1	1894	44	1.3
50098.7	10000	41.5518	92.8258	-636	QK	2.3	0	7.0	0	1.1	0	0.327	0	1.998	-1	6.112	-1	1879	37	1.3
50098.6	10000	41.5524	92.8257	-635	QK	2.3	0	7.0	0	1.1	0	0.335	0	2.060	0	6.156	0	1896	33	1.3
50098.5	10000	41.5529	92.8257	-634	QK	2.2	-1	7.1	0	1.2	0	0.313	-1	1.921	-1	6.143	0	1909	41	1.3
50098.4	10000	41.5535	92.8257	-633	QK	2.5	0	6.7	-1	1.2	0	0.377	0	2.162	0	5.732	-1	1933	43	1.3
50098.3	10000	41.5541	92.8257	-633	QK	2.6	0	6.6	-1	1.2	1	0.393	1	2.128	0	5.421	-2	1950	39	1.3
50098.2	10000	41.5546	92.8257	-632	QK	2.6	0	6.5	-1	1.2	1	0.396	1	2.102	0	5.310	-2	1965	38	1.3
50098.1	10000	41.5552	92.8257	-631	QK	2.5	0	6.7	-1	1.2	1	0.371	0	2.070	0	5.586	-1	1956	44	1.3
50098.0	10000	41.5558	92.8257	-630	QK	2.8	1	6.5	-1	1.2	1	0.438	1	2.361	0	5.394	-2	1958	37	1.3
50097.9	10000	41.5564	92.8257	-629	QK	2.9	1	6.5	-1	1.2	1	0.444	1	2.371	0	5.342	-2	1963	43	1.3
50097.8	10000	41.5569	92.8257	-627	QK	3.1	1	6.6	-1	1.2	1	0.466	2	2.480	0	5.324	-2	1953	29	1.3
50097.7	10000	41.5575	92.8257	-625	QK	2.8	1	6.8	-1	1.2	1	0.409	1	2.285	0	5.591	-1	1926	46	1.3
50097.6	10000	41.5581	92.8257	-623	QK	2.9	1	7.0	0	1.2	1	0.422	1	2.449	0	5.796	-1	1915	40	1.3
50097.5	10000	41.5586	92.8257	-622	QK	3.0	1	6.9	0	1.2	1	0.444	1	2.635	1	5.936	-1	1902	45	1.3
50097.4	10000	41.5592	92.8257	-624	QK	3.2	1	6.8	-1	1.2	1	0.468	2	2.729	1	5.830	-1	1896	52	1.3
50097.3	10000	41.5598	92.8257	-627	QK	2.8	1	7.0	0	1.2	1	0.393	1	2.354	0	5.987	-1	1888	35	1.3
50097.2	10000	41.5604	92.8256	-626	QK	2.6	1	7.0	0	1.2	1	0.372	0	2.216	0	5.949	-1	1880	35	1.3
50097.1	10000	41.5609	92.8256	-625	QK	2.5	0	6.9	0	1.2	1	0.366	0	2.108	0	5.767	-1	1872	61	1.3
50097.0	10000	41.5615	92.8256	-624	QK	2.6	0	6.8	-1	1.2	1	0.384	0	2.105	0	5.474	-1	1870	36	1.3
50096.9	10000	41.5621	92.8256	-623	QK	2.3	0	7.2	0	1.2	1	0.326	-1	1.942	-1	5.948	-1	1862	52	1.3
50096.8	10000	41.5626	92.8256	-622	QK	2.1	-1	7.3	0	1.2	1	0.291	-1	1.682	-1	5.787	-1	1851	41	1.3
50096.7	10000	41.5632	92.8256	-621	QK	1.9	-1	7.5	0	1.3	1	0.255	-1	1.503	-2	5.904	-1	1858	38	1.3
50096.6	10000	41.5638	92.8256	-621	QK	2.0	-1	7.5	0	1.3	1	0.268	-1	1.556	-1	5.796	-1	1848	39	1.3
50096.5	10000	41.5644	92.8256	-620	QK	2.0	-1	7.8	1	1.3	2	0.254	-1	1.515	-2	5.975	-1	1854	36	1.3
50096.4	10000	41.5649	92.8256	-620	QK	2.0	-1	8.0	1	1.3	2	0.243	-1	1.513	-2	6.230	0	1852	47	1.3
50096.3	10000	41.5655	92.8256	-619	QK	2.1	-1	7.7	1	1.3	2	0.250	-1	1.528	-2	6.107	-1	1859	44	1.3
50096.2	10000	41.5661	92.8256	-618	QK	2.2	-1	7.9	1	1.3	2	0.275	-1	1.615	-1	5.875	-1	1865	51	1.3
50096.1	10000	41.5666	92.8256	-617	QK	2.4	0	7.8	1	1.2	1	0.277	-1	1.736	-1	6.268	0	1855	41	1.3
50096.0	10000	41.5672	92.8256	-616	QK	2.4	0	7.5	1	1.2	1	0.302	-1	1.906	-1	6.302	0	1851	38	1.3
50095.9	10000	41.5678	92.8255	-615	QK	2.4	0	7.2	0	1.2	1	0.322	0	2.016	-1	6.269	0	1869	41	1.3
50095.8	10000	41.5684	92.8255	-614	QK	2.7	0	7.3	0	1.1	1	0.373	0	2.347	0	6.291	0	1861	35	1.3
50095.7	10000	41.5689	92.8255	-613	QK	2.6	0	7.3	0	1.1	1	0.377	0	2.332	0	6.192	0	1865	48	1.3
50095.6	10000	41.5695	92.8255	-612	QK	2.8	0	7.3	0	1.1	1	0.380	0	2.507	0	6.596	0	1869	50	1.3
50095.5	10000	41.5701	92.8255	-611	QK	2.6	0	7.4	0	1.1	1	0.352	0	2.357	0	6.698	0	1880	45	1.3
50095.4	10000	41.5706	92.8255	-610	QK	2.5	0	7.6	0	1.1	1	0.346	0	2.239	0	6.476	0	1904	42	1.3
50095.3	10000	41.5712	92.8255	-608	QK	2.7	0	7.5	0	1.1	1	0.351	0	2.356	0	6.716	0	1920	40	1.3
50095.2	10000	41.5718	92.8255	-607	QK	2.6	0	7.4	0	1.2	1	0.354	0	2.285	0	6.463	0	1911	36	1.3
50095.1	10000	41.5724	92.8255	-605	QK	2.8	0	7.4	0	1.2	1	0.375	0	2.394	0	6.380	0	1912	35	1.3
50095.0	10000	41.5729	92.8255	-604	QK	2.6	0	7.1	0	1.2	1	0.364	0	2.228	0	6.123	-1	1907	43	1.3
50094.9	10000	41.5735	92.8255	-603	QK	2.6	0	7.1	0	1.1	1	0.372	0	2.302	0	6.188	0	1894	45	1.3
50094.8	10000	41.5741	92.8255	-601	QK	2.7	0	6.7	-1	1.1	0	0.401	1	2.420	0	6.041	-1	1877	38	1.3

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50094.7	10000	41.5746	92.8255	-601	QK	2.8	1	6.8	-1	1.0	-1	0.406	1	2.648	1	6.526	0	1852	39	1.3
50094.6	10000	41.5752	92.8255	-600	QK	2.4	0	6.3	-1	1.0	-1	0.387	0	2.417	0	6.247	0	1818	36	1.3
50094.5	10000	41.5758	92.8254	-598	QK	2.4	0	6.6	-1	1.0	-1	0.363	0	2.458	0	6.769	0	1812	39	1.3
50094.4	10000	41.5764	92.8254	-597	QK	2.3	-1	6.7	-1	1.0	-1	0.339	0	2.320	0	6.835	0	1787	43	1.3
50094.3	10000	41.5769	92.8254	-596	QK	2.4	0	6.8	-1	1.0	-1	0.352	0	2.523	1	7.161	1	1768	45	1.3
50094.2	10000	41.5775	92.8254	-595	QK	2.1	-1	6.5	-1	1.0	-1	0.323	0	2.203	0	6.816	0	1755	47	1.3
50094.1	10000	41.5781	92.8254	-594	QK	2.0	-1	6.9	0	1.0	-1	0.291	-1	1.975	-1	6.788	0	1745	38	1.3
50094.0	10000	41.5787	92.8254	-594	QK	2.0	-1	6.5	-1	1.1	0	0.307	-1	1.872	-1	6.101	-1	1741	44	1.3
50093.9	10000	41.5792	92.8254	-593	QK	2.3	-1	6.4	-1	1.1	0	0.354	0	2.098	0	5.929	-1	1740	49	1.3
50093.8	10000	41.5798	92.8254	-592	QK	2.3	0	6.6	-1	1.1	0	0.346	0	2.131	0	6.169	0	1733	36	1.3
50093.7	10000	41.5804	92.8254	-592	QK	2.3	0	6.5	-1	1.0	-1	0.359	0	2.278	0	6.351	0	1756	37	1.3
50093.6	10000	41.5809	92.8254	-592	QK	2.6	0	6.8	-1	1.0	-1	0.384	0	2.550	1	6.648	0	1779	51	1.3
50093.5	10000	41.5815	92.8254	-591	QK	3.0	1	7.2	0	1.0	-1	0.412	1	2.965	1	7.199	1	1818	51	1.3
50093.4	10000	41.5821	92.8254	-591	QK	3.5	2	7.0	0	1.0	-1	0.502	2	3.525	3	7.021	1	1865	51	1.4
50093.3	10000	41.5827	92.8254	-591	QK	3.7	2	7.3	0	1.0	-1	0.504	2	3.851	3	7.640	2	1912	40	1.4
50093.2	10000	41.5832	92.8253	-590	QK	3.6	2	7.8	1	1.0	-1	0.463	2	3.755	3	8.111	2	1956	23	1.4
50093.1	10000	41.5838	92.8253	-590	QK	3.6	2	7.9	1	1.0	-1	0.461	2	3.649	3	7.914	2	1974	44	1.4
50093.0	10000	41.5844	92.8253	-590	QK	3.2	1	8.6	2	1.0	-1	0.375	2	3.099	2	8.271	3	1986	47	1.4
50092.9	10000	41.5849	92.8253	-591	QK	3.1	1	8.5	2	1.1	0	0.366	2	2.863	1	7.832	2	2003	50	1.4
50092.8	10000	41.5855	92.8253	-592	QK	2.9	1	8.5	2	1.1	0	0.341	0	2.572	1	7.543	2	2001	54	1.4
50092.7	10000	41.5861	92.8253	-593	QK	2.7	0	8.9	2	1.1	0	0.302	-1	2.330	0	7.715	2	1986	55	1.4
50092.6	10000	41.5867	92.8253	-594	QK	2.5	0	9.0	2	1.2	0	0.274	-1	2.078	0	7.579	2	1971	44	1.4
50092.5	10000	41.5872	92.8253	-595	QK	2.4	0	8.8	2	1.2	0	0.277	-1	2.079	0	7.505	1	1952	37	1.4
50092.4	10000	41.5878	92.8253	-596	QK	2.7	0	8.9	2	1.2	1	0.303	-1	2.263	0	7.458	1	1969	46	1.4
50092.3	10000	41.5884	92.8253	-598	QK	3.1	1	8.1	1	1.2	1	0.379	0	2.545	1	6.710	0	1963	36	1.4
50092.2	10000	41.5889	92.8253	-599	QK	2.8	1	8.2	1	1.2	1	0.342	0	2.312	0	6.764	0	1960	47	1.4
50092.1	10000	41.5895	92.8253	-600	QK	2.8	1	8.0	1	1.2	1	0.349	0	2.273	0	6.519	0	1952	42	1.4
50092.0	10000	41.5901	92.8253	-601	QK	2.8	1	7.7	1	1.2	1	0.359	0	2.262	0	6.302	0	1941	49	1.4
50091.9	10000	41.5907	92.8253	-602	QK	2.8	1	7.2	1	1.2	1	0.386	0	2.258	0	5.856	-1	1931	53	1.4
50091.8	10000	41.5913	92.8253	-603	QK	2.9	1	7.1	1	1.3	1	0.408	1	2.244	0	5.501	-1	1923	45	1.4
50091.7	10000	41.5919	92.8253	-603	QK	2.7	0	6.8	-1	1.3	1	0.396	0	2.141	0	5.410	-2	1902	31	1.4
50091.6	10000	41.5925	92.8253	-606	QK	2.5	0	7.2	0	1.3	1	0.351	0	2.006	-1	5.718	-1	1889	41	1.4
50091.5	10000	41.5931	92.8253	-610	QK	2.5	0	7.1	0	1.2	1	0.357	0	2.104	0	5.898	-1	1873	34	1.4
50091.4	10000	41.5937	92.8253	-614	QK	2.7	0	7.2	0	1.2	1	0.378	0	2.368	0	6.261	0	1866	27	1.4
50091.3	10000	41.5943	92.8253	-616	QK	2.7	0	7.1	0	1.1	0	0.376	0	2.442	0	6.497	0	1856	54	1.4
50091.2	10000	41.5950	92.8253	-617	QK	2.7	0	7.2	0	1.1	-1	0.368	0	2.538	1	6.889	1	1863	56	1.4
50091.1	10000	41.5956	92.8253	-619	QK	2.5	0	7.5	0	1.0	-1	0.329	0	2.426	1	7.373	1	1866	41	1.4
50091.0	10000	41.5962	92.8253	-621	QK	2.6	0	7.6	0	1.0	-1	0.344	0	2.544	1	7.388	1	1865	41	1.4
50090.9	10000	41.5968	92.8253	-622	QK	2.6	0	7.5	0	1.0	-1	0.342	0	2.461	0	7.185	1	1879	36	1.4
50090.8	10000	41.5974	92.8253	-624	QK	2.9	1	7.4	1	1.1	0	0.394	1	2.630	1	6.672	0	1902	49	1.4
50090.7	10000	41.5980	92.8253	-625	QK	2.8	1	7.1	1	1.2	1	0.393	1	2.436	1	6.192	0	1924	39	1.4
50090.6	10000	41.5986	92.8253	-626	QK	2.9	1	7.2	1	1.2	1	0.407	1	2.380	1	5.844	-1	1952	40	1.4
50090.5	10000	41.5992	92.8253	-628	QAL	3.1	1	7.2	1	1.3	1	0.425	1	2.415	1	5.677	-1	1976	48	1.4
50090.4	10000	41.5998	92.8253	-629	QAL	3.3	2	7.1	1	1.3	1	0.465	1	2.568	1	5.522	-1	2012	37	1.4
50090.3	10000	41.6004	92.8253	-629	QAL	3.2	1	6.8	1	1.4	1	0.477	1	2.369	1	4.963	-1	2033	46	1.4
50090.2	10000	41.6011	92.8253	-630	QAL	3.5	2	6.9	1	1.3	2	0.506	2	2.637	1	5.211	-1	2049	43	1.4
50090.1	10000	41.6017	92.8253	-630	QAL	3.4	2	6.7	1	1.3	2	0.514	2	2.554	1	4.967	-1	2060	43	1.4
50090.0	10000	41.6023	92.8253	-630	QAL	3.5	2	6.7	1	1.4	2	0.522	2	2.551	1	4.890	-2	2055	31	1.4
50089.9	10000	41.6029	92.8253	-630	QAL	3.3	2	6.6	1	1.3	2	0.492	2	2.482	1	5.041	-1	2047	42	1.4
50089.8	10000	41.6035	92.8253	-630	QK	3.4	2	6.9	1	1.3	2	0.490	2	2.646	1	5.405	-2	2021	47	1.4
50089.7	10000	41.6041	92.8253	-631	QK	3.2	1	6.8	-1	1.2	1	0.475	2	2.611	1	5.497	-1	1991	41	1.4
50089.6	10000	41.6047	92.8253	-632	QK	3.1	1	7.1	0	1.1	0	0.436	1	2.690	1	6.173	0	1971	45	1.4

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50089.5	10000	41.6053	92.8253	-631	QK	2.9	1	6.8	-1	1.2	1	0.428	1	2.435	0	5.695	-1	1966	45	1.4
50089.4	10000	41.6059	92.8253	-631	QK	2.6	0	6.8	-1	1.1	0	0.377	0	2.279	0	6.047	-1	1931	35	1.4
50089.3	10000	41.6065	92.8253	-631	QK	2.2	-1	6.8	-1	1.1	0	0.327	0	1.978	-1	6.043	-1	1905	47	1.4
50089.2	10000	41.6071	92.8253	-629	QK	2.4	0	6.9	0	1.1	0	0.341	0	2.082	0	6.101	-1	1885	48	1.4
50089.1	10000	41.6077	92.8253	-627	QK	2.1	-1	6.6	-1	1.2	0	0.313	-1	1.767	-1	5.648	-1	1864	54	1.4
50089.0	10000	41.6084	92.8253	-624	QAL	2.0	-1	6.6	0	1.2	1	0.312	-1	1.693	-1	5.428	-1	1867	50	1.4
50088.9	10000	41.6090	92.8253	-625	QAL	1.9	-1	6.5	0	1.2	1	0.299	-1	1.604	-1	5.361	-1	1865	48	1.4
50088.8	10000	41.6096	92.8253	-630	QAL	2.0	-1	6.6	0	1.1	0	0.299	-1	1.729	-1	5.790	0	1839	36	1.4
50088.7	10000	41.6102	92.8253	-633	QAL	2.2	0	6.9	0	1.1	0	0.325	-1	1.962	-1	6.037	0	1842	34	1.4
50088.6	10000	41.6108	92.8253	-632	QAL	2.4	0	7.2	1	1.1	0	0.336	0	2.224	0	6.610	1	1860	50	1.4
50088.5	10000	41.6114	92.8253	-631	QAL	2.8	1	7.1	1	1.1	0	0.393	0	2.641	1	6.724	1	1861	47	1.4
50088.4	10000	41.6120	92.8253	-631	QK	3.0	1	6.9	1	1.0	-1	0.436	1	3.090	2	7.096	1	1876	42	1.4
50088.3	10000	41.6126	92.8253	-631	QK	3.3	2	7.3	0	0.9	-2	0.456	1	3.627	3	7.950	2	1881	45	1.4
50088.2	10000	41.6132	92.8253	-632	QK	3.4	2	7.5	0	0.9	-1	0.451	1	3.582	3	7.949	2	1895	54	1.4
50088.1	10000	41.6138	92.8253	-633	QK	3.5	2	7.3	0	1.0	-1	0.479	2	3.598	3	7.515	1	1909	29	1.4
50088.0	10000	41.6144	92.8253	-633	QK	3.4	2	7.3	0	1.0	-1	0.464	2	3.554	3	7.660	2	1928	46	1.4
50087.9	10000	41.6151	92.8253	-634	QK	3.5	2	7.0	0	1.0	-1	0.499	2	3.649	3	7.314	1	1931	41	1.4
50087.8	10000	41.6157	92.8253	-635	QK	3.2	1	7.5	0	1.0	-1	0.425	1	3.082	2	7.248	1	1962	43	1.4
50087.7	10000	41.6163	92.8253	-636	QK	3.1	1	7.9	1	1.1	0	0.387	0	2.833	1	7.325	1	1985	36	1.4
50087.6	10000	41.6169	92.8253	-637	QK	2.9	0	8.0	1	1.2	0	0.328	0	2.284	0	6.973	1	1998	45	1.4
50087.5	10000	41.6175	92.8253	-638	QK	2.5	0	7.6	1	1.2	1	0.325	0	2.054	0	6.328	0	1997	50	1.4
50087.4	10000	41.6181	92.8253	-639	QK	2.4	0	7.8	1	1.2	1	0.313	-1	2.031	0	6.499	0	1998	53	1.4
50087.3	10000	41.6187	92.8253	-640	QK	2.7	0	7.7	1	1.2	1	0.351	0	2.259	0	6.436	0	1971	56	1.4
50087.2	10000	41.6193	92.8253	-636	QK	2.6	0	7.9	1	1.2	1	0.324	0	2.088	0	6.442	0	1960	45	1.4
50087.1	10000	41.6199	92.8253	-629	QK	2.4	0	7.5	1	1.2	1	0.325	0	2.055	0	6.325	0	1937	43	1.4
50087.0	10000	41.6205	92.8253	-634	QK	2.3	0	7.6	1	1.2	1	0.302	-1	1.933	-1	6.399	0	1925	34	1.4
50086.9	10000	41.6211	92.8253	-646	QK	2.4	0	7.3	1	1.2	1	0.324	0	1.976	-1	6.089	-1	1912	54	1.4
50086.8	10000	41.6217	92.8253	-651	QK	2.4	0	7.4	1	1.2	1	0.328	0	2.091	0	6.380	0	1906	36	1.4
50086.7	10000	41.6224	92.8253	-653	QK	2.2	-1	7.6	1	1.2	1	0.295	-1	1.906	-1	6.456	0	1907	50	1.4
50086.6	10000	41.6230	92.8253	-655	QK	2.0	-1	7.8	1	1.2	1	0.253	-1	1.577	-1	6.222	0	1930	50	1.4
50086.5	10000	41.6236	92.8253	-657	QK	1.9	-1	7.9	1	1.3	1	0.245	-1	1.557	-1	6.349	0	1943	55	1.4
50086.4	10000	41.6242	92.8253	-659	QK	1.8	-1	8.0	1	1.3	1	0.228	-2	1.438	-2	6.317	0	1944	51	1.4
50086.3	10000	41.6248	92.8253	-661	QK	2.0	-1	8.0	1	1.2	1	0.256	-1	1.652	-1	6.454	0	1965	44	1.3
50086.2	10000	41.6254	92.8253	-663	QK	2.4	0	7.9	1	1.2	1	0.302	-1	2.001	-1	6.623	0	1965	36	1.3
50086.1	10000	41.6260	92.8253	-665	QK	2.7	0	7.9	1	1.2	1	0.339	0	2.245	0	6.617	0	1975	45	1.3
50086.0	10000	41.6266	92.8253	-667	QK	2.8	1	7.8	1	1.2	1	0.357	0	2.312	0	6.481	0	1992	35	1.3
50085.9	10000	41.6272	92.8253	-669	QK	2.9	1	7.6	1	1.2	1	0.383	0	2.419	0	6.323	0	1989	41	1.3
50085.8	10000	41.6278	92.8253	-671	QK	2.9	1	7.5	1	1.2	1	0.391	1	2.438	0	6.237	0	2006	57	1.3
50085.7	10000	41.6284	92.8253	-673	QK	3.5	2	7.7	1	1.3	1	0.453	1	2.883	1	6.359	0	2033	43	1.3
50085.6	10000	41.6291	92.8253	-676	QK	3.5	2	7.5	1	1.3	2	0.468	1	2.752	1	5.886	-1	2024	42	1.3
50085.5	10000	41.6297	92.8253	-678	QK	3.3	2	7.5	1	1.3	1	0.444	1	2.527	1	5.690	-1	2041	39	1.3
50085.4	10000	41.6303	92.8253	-682	QK	3.2	1	7.7	1	1.3	2	0.419	1	2.458	0	5.871	-1	2038	37	1.3
50085.3	10000	41.6309	92.8253	-685	QK	3.3	2	7.5	1	1.3	1	0.446	1	2.612	1	5.851	-1	2027	30	1.3
50085.2	10000	41.6315	92.8253	-688	QK	3.5	2	7.4	1	1.3	1	0.473	2	2.848	1	6.026	-1	2042	42	1.3
50085.1	10000	41.6321	92.8253	-691	QK	3.6	2	7.2	1	1.3	1	0.499	2	3.007	2	6.030	-1	2047	41	1.3
50085.0	10000	41.6327	92.8253	-693	QK	3.4	2	7.3	1	1.3	1	0.465	2	2.735	1	5.879	-1	2055	45	1.3
50084.9	10000	41.6333	92.8253	-694	QK	3.4	2	7.3	1	1.3	1	0.462	2	2.681	1	5.797	-1	2070	61	1.3
50084.8	10000	41.6339	92.8253	-697	QK	3.4	2	7.6	1	1.3	1	0.452	2	2.869	2	6.351	0	2071	49	1.3
50084.7	10000	41.6345	92.8253	-699	QK	3.6	2	7.7	1	1.3	1	0.475	2	3.076	2	6.476	0	2070	51	1.3
50084.6	10000	41.6351	92.8253	-701	QK	3.5	2	7.6	1	1.3	1	0.460	2	2.791	1	6.061	-1	2072	53	1.3
50084.5	10000	41.6357	92.8253	-703	QK	3.4	2	7.7	1	1.3	1	0.438	2	2.603	1	5.941	-1	2051	56	1.3
50084.4	10000	41.6364	92.8253	-705	QK	3.3	2	7.7	1	1.3	2	0.431	1	2.489	0	5.776	-1	2028	43	1.3

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50084.3	10000	41.6370	92.8253	-707	QK	3.3	2	7.6	1	1.3	1	0.436	1	2.589	1	5.935	-1	1996	38	1.3
50084.2	10000	41.6376	92.8253	-709	QK	3.1	1	7.7	1	1.3	1	0.406	1	2.478	0	6.108	-1	1977	35	1.3
50084.1	10000	41.6382	92.8253	-710	QK	3.0	1	7.3	0	1.3	2	0.412	1	2.324	0	5.637	-1	1956	42	1.3
50084.0	10000	41.6388	92.8253	-712	QK	2.8	1	7.2	0	1.3	2	0.386	0	2.071	0	5.366	-2	1939	41	1.3
50083.9	10000	41.6394	92.8253	-715	QK	2.6	0	7.3	0	1.3	1	0.361	0	2.052	0	5.687	-1	1922	47	1.3
50083.8	10000	41.6400	92.8253	-717	QK	2.5	0	7.1	0	1.2	1	0.351	0	2.006	-1	5.714	-1	1906	40	1.3
50083.7	10000	41.6406	92.8253	-718	QK	2.2	-1	7.2	0	1.3	1	0.302	-1	1.739	-1	5.758	-1	1888	31	1.3
50083.6	10000	41.6412	92.8253	-719	QK	1.9	-1	7.2	0	1.3	1	0.271	-1	1.553	-2	5.723	-1	1895	47	1.3
50083.5	10000	41.6418	92.8253	-721	QK	2.2	-1	7.0	0	1.3	1	0.310	-1	1.723	-1	5.557	-1	1898	40	1.3
50083.4	10000	41.6424	92.8253	-723	QK	1.9	-1	6.6	-1	1.3	1	0.294	-1	1.555	-1	5.298	-2	1910	30	1.3
50083.3	10000	41.6431	92.8253	-725	QK	1.9	-1	6.3	-1	1.2	1	0.305	-1	1.560	-1	5.110	-2	1909	41	1.3
50083.2	10000	41.6437	92.8253	-726	QK	2.1	-1	6.2	-1	1.2	0	0.338	0	1.797	-1	5.315	-2	1902	53	1.3
50083.1	10000	41.6443	92.8253	-727	QK	2.2	-1	6.1	-2	1.2	0	0.362	0	1.891	-1	5.231	-2	1887	46	1.3
50083.0	10000	41.6449	92.8253	-728	QK	2.4	0	5.8	-2	1.1	0	0.418	1	2.255	0	5.394	-2	1855	46	1.3
50082.9	10000	41.6455	92.8253	-729	QK	2.6	0	5.5	-3	1.0	-1	0.466	2	2.552	1	5.480	-1	1790	47	1.3
50082.8	10000	41.6461	92.8253	-730	QK	2.9	1	5.1	-3	0.9	-2	0.562	3	3.240	2	5.761	-1	1726	51	1.3
50082.7	10000	41.6467	92.8253	-731	QK	3.1	1	4.9	-3	0.8	-3	0.634	4	3.895	3	6.142	0	1660	45	1.3
50082.6	10000	41.6473	92.8253	-731	QK	3.3	2	4.7	-3	0.8	-3	0.701	5	4.337	4	6.191	0	1610	46	1.3
50082.5	10000	41.6479	92.8253	-732	QK	3.3	2	4.4	-4	0.7	-3	0.750	6	4.529	5	6.037	-1	1584	45	1.3
50082.4	10000	41.6485	92.8253	-734	QK	3.5	2	4.7	-3	0.7	-4	0.738	5	5.041	6	6.830	0	1575	38	1.3
50082.3	10000	41.6491	92.8253	-736	QK	3.6	2	4.8	-3	0.7	-3	0.745	5	4.954	6	6.648	0	1612	37	1.3
50082.2	10000	41.6497	92.8253	-741	QAL	3.9	3	4.7	-2	0.8	-2	0.829	5	5.006	5	6.036	0	1655	35	1.3
50082.1	10000	41.6504	92.8253	-744	QAL	3.6	2	5.1	-1	0.9	-1	0.696	4	4.065	3	5.840	0	1700	46	1.3
50082.0	10000	41.6510	92.8253	-745	QAL	3.6	2	5.6	-1	0.9	-1	0.655	4	4.173	3	6.374	0	1750	39	1.3
50081.9	10000	41.6516	92.8253	-745	QAL	3.6	2	6.1	0	0.9	-1	0.595	4	4.072	3	6.843	1	1796	37	1.3
50081.8	10000	41.6522	92.8253	-746	QAL	3.5	2	6.1	0	0.9	-1	0.575	3	3.738	3	6.500	0	1817	32	1.3
50081.7	10000	41.6528	92.8253	-748	QAL	3.4	2	6.0	-1	1.0	-1	0.575	3	3.564	2	6.194	0	1822	47	1.3
50081.6	10000	41.6534	92.8253	-749	QAL	3.2	1	5.9	-1	1.0	-1	0.547	2	3.228	2	5.901	0	1788	41	1.3
50081.5	10000	41.6540	92.8253	-750	QAL	2.9	1	5.6	-1	1.0	-1	0.518	2	2.897	1	5.589	-1	1759	52	1.3
50081.4	10000	41.6546	92.8253	-751	QAL	2.9	1	5.3	-1	1.0	0	0.545	2	2.872	1	5.270	-1	1737	45	1.3
50081.3	10000	41.6552	92.8253	-752	QAL	2.5	1	5.2	-1	1.0	-1	0.491	2	2.421	0	4.933	-2	1706	34	1.3
50081.2	10000	41.6558	92.8253	-754	QAL	2.4	1	4.7	-2	1.1	-1	0.511	2	2.236	0	4.375	-2	1670	39	1.4
50081.1	10000	41.6565	92.8253	-755	QK	2.4	0	4.8	-3	1.1	-1	0.498	2	2.269	0	4.557	-3	1640	38	1.4
50081.0	10000	41.6571	92.8253	-756	QK	2.3	0	5.0	-3	1.0	-1	0.449	2	2.203	0	4.906	-2	1639	33	1.4
50080.9	10000	41.6577	92.8253	-757	QK	2.6	0	5.0	-3	1.0	-1	0.518	2	2.518	1	4.865	-2	1657	50	1.4
50080.8	10000	41.6583	92.8253	-759	QK	2.5	0	5.5	-2	1.0	-1	0.457	2	2.448	1	5.363	-2	1683	42	1.4
50080.7	10000	41.6589	92.8253	-760	QK	2.5	0	5.8	-2	1.0	-1	0.428	1	2.406	1	5.620	-1	1692	33	1.4
50080.6	10000	41.6595	92.8253	-761	QK	2.6	0	6.0	-2	1.0	-1	0.437	1	2.497	1	5.714	-1	1722	41	1.4
50080.5	10000	41.6601	92.8253	-762	QK	2.6	0	6.2	-1	1.0	-1	0.415	1	2.495	1	6.009	-1	1767	34	1.4
50080.4	10000	41.6607	92.8253	-763	QK	2.6	0	6.5	-1	1.1	0	0.397	1	2.314	1	5.824	-1	1819	48	1.4
50080.3	10000	41.6613	92.8253	-764	QK	2.6	0	6.4	-1	1.2	0	0.411	1	2.264	1	5.508	-1	1849	46	1.4
50080.2	10000	41.6619	92.8253	-765	QK	2.4	0	6.3	-1	1.2	0	0.371	1	2.024	0	5.455	-1	1875	43	1.4
50080.1	10000	41.6625	92.8253	-766	QK	2.5	0	6.4	-1	1.2	0	0.397	1	2.110	0	5.321	-2	1913	47	1.4
50080.0	10000	41.6631	92.8253	-767	QK	2.5	0	6.7	-1	1.2	0	0.350	1	1.923	-1	5.499	-1	1958	42	1.4
50079.9	10000	41.6638	92.8253	-768	QK	2.5	0	7.2	0	1.2	0	0.315	1	1.813	-1	5.765	-1	1990	52	1.4
50079.8	10000	41.6644	92.8253	-770	QK	2.5	0	7.1	0	1.3	0	0.351	1	1.968	-1	5.612	-1	2006	45	1.4
50079.7	10000	41.6650	92.8253	-771	QK	2.5	0	7.1	0	1.3	0	0.349	1	1.963	-1	5.632	-1	2015	33	1.4
50079.6	10000	41.6656	92.8253	-772	QK	3.0	1	7.2	0	1.3	0	0.410	2	2.316	0	5.652	-1	2049	43	1.5
50079.5	10000	41.6662	92.8253	-773	QK	3.1	1	7.4	0	1.3	0	0.415	2	2.420	0	5.836	-1	2051	46	1.5
50079.4	10000	41.6668	92.8253	-774	QK	2.9	1	7.5	0	1.3	0	0.385	2	2.217	0	5.753	-1	2062	43	1.5
50079.3	10000	41.6674	92.8253	-774	QK	3.1	1	7.1	0	1.3	0	0.434	2	2.364	0	5.442	-1	2061	37	1.5
50079.2	10000	41.6680	92.8253	-774	QK	3.0	1	6.6	-1	1.3	1	0.463	2	2.345	0	5.064	-2	2045	43	1.5

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50079.1	10000	41.6686	92.8253	-775	QK	3.1	1	6.8	-1	1.3	1	0.452	1	2.379	0	5.268	-2	2049	33	1.5
50079.0	10000	41.6692	92.8253	-775	QK	3.1	1	6.5	-1	1.2	1	0.479	2	2.489	0	5.198	-2	2044	34	1.5
50078.9	10000	41.6698	92.8253	-775	QK	2.6	0	6.6	-1	1.2	1	0.394	1	2.111	0	5.358	-2	2013	33	1.5
50078.8	10000	41.6704	92.8253	-775	QK	2.8	1	6.6	-1	1.2	1	0.429	1	2.286	0	5.329	-2	2007	38	1.5
50078.7	10000	41.6710	92.8253	-775	QK	3.0	1	6.4	-1	1.2	0	0.476	2	2.605	1	5.468	-1	1985	46	1.5
50078.6	10000	41.6716	92.8253	-775	QK	3.1	1	6.3	-1	1.1	0	0.487	2	2.727	1	5.598	-1	1973	36	1.5
50078.5	10000	41.6722	92.8253	-775	QK	3.3	2	6.2	-1	1.1	0	0.533	3	2.910	1	5.462	-1	1973	42	1.5
50078.4	10000	41.6727	92.8253	-774	QAL	3.1	1	6.2	0	1.2	1	0.507	1	2.717	1	5.362	-1	1972	43	1.5
50078.3	10000	41.6733	92.8253	-774	QAL	3.2	1	6.4	0	1.2	1	0.500	1	2.661	1	5.318	-1	1986	35	1.5
50078.2	10000	41.6739	92.8253	-773	QAL	3.4	2	6.3	0	1.2	1	0.528	2	2.761	1	5.230	-1	2018	39	1.5
50078.1	10000	41.6744	92.8253	-772	QAL	3.1	1	6.5	0	1.2	1	0.475	1	2.475	0	5.215	-1	2042	44	1.6
50078.0	10000	41.6750	92.8253	-771	QAL	3.1	1	6.6	0	1.3	2	0.478	1	2.394	0	5.005	-1	2064	37	1.6
50077.9	10000	41.6756	92.8253	-770	QAL	3.2	1	6.5	0	1.3	2	0.486	1	2.393	0	4.928	-2	2082	48	1.6
50077.8	10000	41.6761	92.8253	-769	QAL	3.2	1	6.8	0	1.3	2	0.480	1	2.438	0	5.077	-1	2094	38	1.6
50077.7	10000	41.6767	92.8253	-768	QAL	3.3	2	7.0	0	1.3	2	0.476	1	2.513	0	5.281	-1	2083	47	1.6
50077.6	10000	41.6773	92.8253	-766	QAL	3.1	1	7.3	1	1.3	2	0.430	1	2.335	0	5.437	-1	2085	43	1.6
50077.5	10000	41.6778	92.8253	-763	QAL	2.9	1	7.3	1	1.4	2	0.405	0	2.169	0	5.359	-1	2048	40	1.6
50077.4	10000	41.6784	92.8253	-761	QAL	3.1	1	7.1	1	1.3	1	0.434	1	2.396	0	5.526	-1	2017	34	1.6
50077.3	10000	41.6790	92.8253	-759	QAL	2.9	1	7.3	1	1.3	1	0.398	0	2.327	0	5.840	0	1983	43	1.6
50077.2	10000	41.6795	92.8253	-759	QAL	2.7	0	7.4	1	1.2	1	0.364	0	2.192	0	6.029	0	1945	40	1.6
50077.1	10000	41.6801	92.8254	-758	QAL	2.5	0	7.3	1	1.2	1	0.342	0	2.162	0	6.328	0	1919	56	1.6
50077.0	10000	41.6807	92.8254	-757	QAL	2.3	0	7.2	1	1.1	0	0.312	-1	1.982	-1	6.345	0	1899	33	1.6
50076.9	10000	41.6812	92.8254	-757	QAL	2.5	0	7.3	1	1.0	0	0.348	0	2.450	0	7.050	1	1865	43	1.6
50076.8	10000	41.6818	92.8254	-756	QAL	2.6	0	7.2	1	1.0	-1	0.360	0	2.689	1	7.469	2	1854	37	1.6
50076.7	10000	41.6824	92.8254	-755	QAL	2.5	0	7.3	1	1.0	-1	0.343	0	2.600	1	7.574	2	1846	44	1.6
50076.6	10000	41.6829	92.8254	-755	QAL	2.4	0	7.1	1	0.9	-1	0.337	0	2.670	1	7.913	2	1823	41	1.6
50076.5	10000	41.6835	92.8254	-754	QK	2.4	0	7.2	0	0.9	-2	0.329	0	2.774	1	8.439	3	1817	44	1.6
50076.4	10000	41.6841	92.8254	-754	QK	2.2	-1	7.1	0	0.9	-2	0.313	-1	2.461	0	7.871	2	1802	46	1.6
50076.3	10000	41.6846	92.8254	-754	QK	2.4	0	7.0	0	0.9	-2	0.339	0	2.782	1	8.195	2	1[illegible]	38	1.6
50076.2	10000	41.6852	92.8254	-755	QK	2.4	0	6.8	-1	0.9	-2	0.352	0	2.636	1	7.497	2	1809	46	1.6
50076.1	10000	41.6858	92.8254	-755	QK	2.5	0	6.4	-1	0.9	-1	0.389	0	2.649	1	6.810	2	1815	49	1.6
50076.0	10000	41.6863	92.8254	-756	QK	2.4	0	6.4	-1	1.0	-1	0.371	0	2.439	1	6.575	1	1821	47	1.6
50075.9	10000	41.6869	92.8254	-757	QK	2.4	0	6.4	-1	1.0	-1	0.376	0	2.436	1	6.471	0	1830	47	1.6
50075.8	10000	41.6875	92.8254	-759	QK	2.5	0	6.5	-1	1.0	-1	0.389	1	2.547	1	6.548	0	1827	47	1.6
50075.7	10000	41.6880	92.8255	-760	QK	2.8	1	6.6	-1	1.0	-1	0.421	1	2.831	2	6.716	1	1825	47	1.6
50075.6	10000	41.6886	92.8255	-763	QK	2.9	1	6.7	-1	1.0	-1	0.433	1	3.048	2	7.046	1	1823	44	1.6
50075.5	10000	41.6892	92.8255	-765	QK	2.9	1	6.7	-1	0.9	-2	0.440	1	3.136	2	7.129	1	1820	42	1.6
50075.4	10000	41.6897	92.8255	-768	QK	3.1	1	6.9	0	0.9	-2	0.446	1	3.391	2	7.600	2	1829	44	1.6
50075.3	10000	41.6903	92.8255	-770	QK	3.2	1	6.8	-1	0.9	-2	0.473	1	3.711	3	7.839	2	1837	41	1.6
50075.2	10000	41.6909	92.8255	-772	QK	3.3	2	7.0	0	0.9	-2	0.474	1	3.745	3	7.905	2	1848	43	1.6
50075.1	10000	41.6914	92.8255	-775	QK	3.4	2	6.9	0	0.9	-2	0.498	1	3.771	3	7.576	2	1859	50	1.6
50075.0	10000	41.6920	92.8255	-777	QK	3.3	2	7.0	0	0.9	-2	0.467	1	3.594	3	7.701	2	1870	38	1.6
50074.9	10000	41.6926	92.8255	-779	QK	3.2	2	6.6	-1	1.0	-1	0.489	1	3.392	3	6.938	1	1880	40	1.6
50074.8	10000	41.6931	92.8255	-782	QK	3.0	1	6.5	-1	1.0	-1	0.464	1	3.023	2	6.512	0	1880	58	1.6
50074.7	10000	41.6937	92.8255	-784	QK	2.6	1	6.6	-1	1.0	-1	0.401	1	2.551	2	6.355	0	1868	42	1.6
50074.6	10000	41.6943	92.8255	-786	QK	2.6	1	6.7	-1	1.0	-1	0.397	1	2.525	2	6.358	0	1863	35	1.6
50074.5	10000	41.6948	92.8255	-788	QK	2.6	1	6.6	-1	1.0	-1	0.395	1	2.448	2	6.200	0	1854	34	1.6
50074.4	10000	41.6954	92.8255	-790	QK	2.5	1	6.5	-1	1.0	-1	0.382	1	2.352	2	6.164	0	1860	49	1.6
50074.3	10000	41.6960	92.8255	-792	QK	2.7	1	6.4	-1	1.1	-1	0.414	1	2.478	2	5.982	-1	1854	37	1.6
50074.2	10000	41.6965	92.8255	-794	QK	2.4	1	6.7	-1	1.1	-1	0.357	1	2.197	2	6.152	0	1846	46	1.5
50074.1	10000	41.6971	92.8256	-795	QK	2.5	1	6.9	0	1.1	-1	0.368	0	2.348	2	6.375	0	1829	48	1.5
50074.0	10000	41.6977	92.8256	-797	QK	2.6	0	6.9	0	1.1	0	0.373	0	2.400	0	6.429	0	1814	47	1.5

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50073.9	10000	41.6982	92.8256	-798	QK	2.4	0	7.0	0	1.1	0	0.341	0	2.197	0	6.447	0	1801	52	1.5
50073.8	10000	41.6988	92.8256	-799	QK	2.4	0	6.8	-1	1.1	0	0.354	0	2.251	0	6.353	0	1798	45	1.5
50073.7	10000	41.6994	92.8256	-800	QK	2.2	-1	6.8	-1	1.1	0	0.323	0	1.936	-1	5.986	-1	1805	33	1.5
50073.6	10000	41.6999	92.8256	-800	QK	2.0	-1	6.7	-1	1.1	0	0.301	-1	1.778	-1	5.914	-1	1804	77	1.5
50073.5	10000	41.7005	92.8256	-801	QK	2.1	-1	6.5	-1	1.1	0	0.331	0	1.877	-1	5.673	-1	1811	41	1.5
50073.4	10000	41.7011	92.8256	-802	QK	2.0	-1	6.2	-1	1.1	0	0.316	0	1.740	-1	5.504	-1	1830	41	1.5
50073.3	10000	41.7016	92.8256	-802	QK	2.0	-1	6.3	-1	1.1	0	0.326	0	1.795	-1	5.499	-1	1859	44	1.5
50073.2	10000	41.7022	92.8256	-802	QK	2.5	0	6.3	-1	1.1	0	0.390	1	2.149	0	5.508	-1	1886	32	1.5
50073.1	10000	41.7028	92.8256	-803	QK	2.6	0	6.6	-1	1.2	0	0.393	1	2.251	0	5.730	-1	1911	49	1.5
50073.0	10000	41.7034	92.8256	-802	QK	2.5	0	6.9	0	1.1	0	0.365	0	2.276	0	6.241	0	1907	48	1.5
50072.9	10000	41.7039	92.8256	-801	QK	2.5	0	7.4	0	1.1	0	0.344	0	2.270	0	6.594	0	1923	41	1.5
50072.8	10000	41.7045	92.8256	-800	QK	2.3	0	7.5	0	1.1	0	0.311	-1	2.179	0	7.015	1	1923	38	1.5
50072.7	10000	41.7050	92.8257	-800	QK	2.3	0	8.0	1	1.1	0	0.291	-1	2.107	0	7.240	1	1930	49	1.5
50072.6	10000	41.7056	92.8257	-798	QK	2.5	0	7.9	1	1.1	0	0.319	0	2.372	0	7.434	1	1921	45	1.5
50072.5	10000	41.7062	92.8257	-803	QK	2.1	-1	7.5	0	1.0	-1	0.277	-1	1.997	-1	7.218	1	1915	55	1.5
50072.4	10000	41.7067	92.8257	-805	QK	2.0	-1	7.5	0	1.1	0	0.264	-1	1.841	-1	6.975	1	1912	48	1.5
50072.3	10000	41.7073	92.8257	-804	QK	2.2	-1	7.0	0	1.1	0	0.317	0	2.057	0	6.480	0	1925	44	1.5
50072.2	10000	41.7079	92.8257	-803	QK	2.5	0	6.7	-1	1.1	0	0.364	0	2.196	0	6.031	-1	1932	37	1.4
50072.1	10000	41.7084	92.8257	-802	QK	2.5	0	6.5	-1	1.2	1	0.376	0	2.058	0	5.467	-1	1935	45	1.4
50072.0	10000	41.7090	92.8257	-802	QK	2.6	0	6.2	-1	1.2	0	0.429	1	2.259	0	5.265	-2	1922	45	1.4
50071.9	10000	41.7096	92.8257	-802	QK	2.5	0	6.0	-2	1.2	0	0.421	1	2.154	0	5.116	-2	1895	52	1.4
50071.8	10000	41.7101	92.8257	-802	QK	2.4	0	6.3	-1	1.2	1	0.376	0	1.995	-1	5.308	-2	1846	43	1.4
50071.7	10000	41.7107	92.8257	-802	QK	2.1	-1	6.2	-1	1.1	0	0.348	0	1.895	-1	5.445	-1	1804	44	1.4
50071.6	10000	41.7113	92.8257	-802	QK	2.0	-1	6.3	-1	1.1	0	0.314	-1	1.798	-1	5.731	-1	1754	48	1.4
50071.5	10000	41.7118	92.8257	-802	QK	1.8	-1	6.3	-1	1.0	-1	0.288	-1	1.791	-1	6.210	0	1722	38	1.4
50071.4	10000	41.7124	92.8257	-801	QK	2.0	-1	6.3	-1	0.9	-1	0.312	-1	2.087	0	6.680	0	1685	38	1.4
50071.3	10000	41.7130	92.8257	-800	QK	1.8	-2	6.4	-1	0.9	-1	0.279	-1	1.921	-1	6.881	1	1668	30	1.4
50071.2	10000	41.7136	92.8257	-800	QK	1.7	-2	6.5	-1	0.9	-1	0.261	-1	1.790	-1	6.862	1	1677	52	1.4
50071.1	10000	41.7141	92.8258	-800	QK	2.1	-1	6.2	-1	0.9	-2	0.333	0	2.218	0	6.658	0	1691	48	1.4
50071.0	10000	41.7147	92.8258	-800	QK	2.2	-1	5.9	-2	0.9	-2	0.376	0	2.452	0	6.520	0	1680	56	1.4
50070.9	10000	41.7153	92.8258	-800	QK	2.3	0	5.6	-2	0.9	-2	0.408	1	2.590	1	6.347	0	1654	45	1.4
50070.8	10000	41.7158	92.8258	-799	QK	2.3	0	5.3	-3	0.9	-2	0.436	1	2.721	1	6.239	0	1600	44	1.4
50070.7	10000	41.7164	92.8258	-797	QK	2.3	0	5.1	-3	0.8	-3	0.449	1	2.810	1	6.250	0	1555	55	1.4
50070.6	10000	41.7170	92.8258	-798	QK	2.1	-1	5.0	-3	0.8	-3	0.419	1	2.734	1	6.522	0	1490	49	1.4
50070.5	10000	41.7175	92.8258	-799	QK	2.0	-1	4.9	-3	0.7	-3	0.411	1	2.846	1	6.927	1	1438	38	1.4
50070.4	10000	41.7181	92.8258	-799	QK	1.8	-1	4.8	-3	0.7	-4	0.384	0	2.811	1	7.324	1	1396	47	1.4
50070.3	10000	41.7187	92.8258	-798	QK	1.8	-1	4.7	-3	0.7	-4	0.394	1	2.726	1	6.924	1	1396	45	1.4
50070.2	10000	41.7192	92.8258	-798	QK	2.1	-1	4.6	-4	0.7	-4	0.451	1	3.139	2	6.953	1	1409	51	1.4
50070.1	10000	41.7198	92.8258	-799	QK	2.2	-1	4.6	-4	0.7	-3	0.468	1	2.991	2	6.389	0	1447	34	1.4
50070.0	10000	41.7204	92.8258	-799	QK	2.2	-1	4.5	-4	0.8	-3	0.487	1	2.901	2	5.955	-1	1505	43	1.4
50069.9	10000	41.7209	92.8258	-798	QK	2.6	0	4.5	-4	0.8	-2	0.576	2	3.082	2	5.353	-2	1582	48	1.4
50069.8	10000	41.7215	92.8258	-798	QK	2.6	0	4.5	-3	0.9	-2	0.538	2	3.018	2	5.614	-1	1630	54	1.4
50069.7	10000	41.7221	92.8259	-798	QK	2.8	0	5.3	-3	1.0	-1	0.539	2	2.982	2	5.537	-1	1695	40	1.4
50069.6	10000	41.7226	92.8259	-798	QK	2.7	0	5.8	-2	1.0	-1	0.459	1	2.738	2	5.959	-1	1738	35	1.4
50069.5	10000	41.7232	92.8259	-798	QK	2.6	0	6.1	-2	1.1	-1	0.419	1	2.433	2	5.803	-1	1800	38	1.3
50069.4	10000	41.7238	92.8259	-797	QK	2.6	0	6.5	-1	1.1	0	0.403	1	2.402	2	5.964	-1	1856	47	1.3
50069.3	10000	41.7243	92.8259	-797	QK	2.6	0	7.0	-1	1.2	0	0.371	1	2.252	2	6.070	-1	1884	38	1.3
50069.2	10000	41.7249	92.8259	-797	QK	2.6	0	6.8	-1	1.3	0	0.375	1	2.147	2	5.729	-1	1922	52	1.3
50069.1	10000	41.7255	92.8259	-797	QK	2.6	0	6.7	-1	1.3	0	0.387	1	2.009	1	5.189	-2	1958	46	1.3
50069.0	10000	41.7260	92.8259	-797	QK	2.8	0	6.8	-1	1.3	0	0.388	1	1.992	1	5.139	-2	1974	47	1.3
50068.9	10000	41.7266	92.8259	-796	QK	2.8	0	6.7	-1	1.3	0	0.423	1	2.151	2	5.090	-2	1984	34	1.3
50068.8	10000	41.7272	92.8259	-796	QK	2.7	0	6.8	-1	1.3	1	0.389	1	2.120	0	5.448	-1	1965	39	1.3

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50068.7	10000	41.7277	92.8259	-796	QK	2.6	0	7.0	0	1.2	1	0.369	0	2.091	0	5.670	-1	1945	58	1.3
50068.6	10000	41.7283	92.8259	-796	QK	2.6	0	6.9	0	1.2	1	0.373	0	2.140	0	5.736	-1	1935	51	1.3
50068.5	10000	41.7289	92.8259	-797	QK	2.5	0	7.0	0	1.1	0	0.356	0	2.202	0	6.183	0	1896	38	1.3
50068.4	10000	41.7294	92.8259	-797	QK	2.5	0	7.3	0	1.1	0	0.339	0	2.296	0	6.765	0	1866	51	1.3
50068.3	10000	41.7300	92.8259	-797	QK	2.3	0	7.1	0	1.0	-1	0.328	0	2.241	0	6.833	0	1844	38	1.3
50068.2	10000	41.7306	92.8259	-797	QK	2.1	-1	7.1	0	1.1	0	0.295	-1	1.965	-1	6.662	0	1828	36	1.3
50068.1	10000	41.7311	92.8260	-797	QK	2.4	0	6.7	-1	1.1	0	0.366	0	2.200	0	6.007	-1	1810	48	1.3
50068.0	10000	41.7317	92.8260	-796	QK	2.2	-1	6.7	-1	1.1	0	0.331	0	2.007	-1	6.055	-1	1805	42	1.3
50067.9	10000	41.7323	92.8260	-795	QK	2.2	-1	6.6	-1	1.1	0	0.334	0	2.012	-1	6.024	-1	1802	43	1.3
50067.8	10000	41.7328	92.8260	-794	QK	2.0	-1	6.8	-1	1.1	0	0.300	-1	1.787	-1	5.965	-1	1824	42	1.3
50067.7	10000	41.7334	92.8260	-793	QK	2.2	-1	6.7	-1	1.2	1	0.331	0	1.830	-1	5.525	-1	1853	40	1.3
50067.6	10000	41.7340	92.8260	-793	QK	2.1	-1	7.0	0	1.2	1	0.308	-1	1.763	-1	5.723	-1	1878	45	1.3
50067.5	10000	41.7345	92.8260	-794	QK	2.4	0	7.2	0	1.2	1	0.329	0	1.930	-1	5.872	-1	1900	58	1.3
50067.4	10000	41.7351	92.8260	-794	QK	2.2	-1	7.8	1	1.2	1	0.281	-1	1.769	-1	6.294	0	1931	45	1.3
50067.3	10000	41.7357	92.8260	-794	QK	2.3	0	7.6	1	1.3	1	0.301	-1	1.812	-1	6.028	-1	1945	38	1.3
50067.2	10000	41.7362	92.8260	-795	QK	2.4	0	8.1	1	1.3	1	0.291	-1	1.891	-1	6.500	0	1954	38	1.3
50067.1	10000	41.7368	92.8260	-794	QK	2.4	0	8.3	1	1.2	1	0.295	-1	2.029	-1	6.878	1	1962	53	1.3
50067.0	10000	41.7374	92.8260	-794	QK	2.4	0	8.2	1	1.2	0	0.288	-1	2.031	0	7.058	1	1955	38	1.3
50066.9	10000	41.7379	92.8260	-793	QK	2.3	0	8.5	2	1.2	0	0.272	-1	1.991	-1	7.308	1	1950	41	1.3
50066.8	10000	41.7385	92.8260	-793	QK	2.2	-1	8.8	2	1.2	0	0.247	-1	1.876	-1	7.587	2	1935	43	1.3
50066.7	10000	41.7391	92.8260	-792	QK	2.1	-1	8.4	2	1.1	0	0.251	-1	1.898	-1	7.553	2	1903	28	1.3
50066.6	10000	41.7396	92.8260	-791	QK	2.2	-1	8.2	1	1.1	0	0.264	-1	1.939	-1	7.347	1	1873	51	1.3
50066.5	10000	41.7402	92.8260	-792	QK	2.3	0	7.5	0	1.1	0	0.309	-1	2.155	0	6.973	1	1863	42	1.3
50066.4	10000	41.7408	92.8261	-792	QK	2.6	0	6.9	0	1.1	0	0.370	0	2.355	0	6.374	0	1848	25	1.3
50066.3	10000	41.7413	92.8261	-792	QK	2.4	0	6.7	-1	1.1	0	0.361	0	2.213	0	6.131	-1	1827	63	1.3
50066.2	10000	41.7419	92.8261	-791	QK	2.6	0	6.1	-2	1.1	0	0.430	0	2.409	0	5.596	-1	1798	45	1.3
50066.1	10000	41.7425	92.8261	-791	QK	2.5	0	5.2	-3	1.0	0	0.480	0	2.413	0	5.031	-2	1768	32	1.3
50066.0	10000	41.7430	92.8261	-791	QK	2.7	0	5.4	-2	1.0	1	0.497	0	2.586	0	5.200	-2	1760	47	1.3
50065.9	10000	41.7436	92.8261	-791	QK	2.7	0	5.9	-2	1.0	1	0.488	0	2.786	0	5.713	-1	1763	51	1.3
50065.8	10000	41.7442	92.8261	-790	QAL	2.6	0	5.9	-1	1.0	1	0.442	0	2.644	0	5.980	0	1755	51	1.3
50065.7	10000	41.7447	92.8261	-790	QAL	2.3	0	6.0	-1	1.0	1	0.375	0	2.326	0	6.201	0	1752	49	1.3
50065.6	10000	41.7453	92.8261	-790	QAL	2.4	0	6.3	0	0.9	1	0.379	0	2.601	1	6.868	1	1738	53	1.3
50065.5	10000	41.7459	92.8261	-790	QAL	2.4	0	6.4	0	0.9	1	0.373	0	2.778	1	7.443	2	1734	47	1.3
50065.4	10000	41.7464	92.8261	-790	QAL	2.6	0	6.4	0	0.9	1	0.406	0	2.949	1	7.262	1	1737	51	1.3
50065.3	10000	41.7470	92.8261	-790	QAL	2.8	0	6.3	0	0.9	1	0.447	0	3.279	2	7.338	2	1735	47	1.3
50065.2	10000	41.7476	92.8261	-789	QAL	2.6	0	5.9	-1	0.9	1	0.435	0	3.012	1	6.930	1	1728	48	1.3
50065.1	10000	41.7481	92.8261	-789	QAL	2.6	0	5.9	-1	0.9	1	0.451	0	3.062	1	6.787	1	1723	49	1.3
50065.0	10000	41.7487	92.8262	-789	QK	2.7	0	5.7	-2	0.9	1	0.477	0	3.054	2	6.397	0	1708	48	1.3
50064.9	10000	41.7493	92.8262	-790	QK	2.6	0	5.5	-2	0.9	1	0.482	0	2.896	1	6.005	-1	1721	44	1.3
50064.8	10000	41.7498	92.8262	-790	QK	2.8	0	5.3	-3	0.9	1	0.529	0	2.989	2	5.651	-1	1741	49	1.3
50064.7	10000	41.7504	92.8262	-790	QK	2.7	0	5.7	-2	1.0	1	0.469	0	2.794	1	5.956	-1	1766	37	1.3
50064.6	10000	41.7510	92.8262	-790	QK	2.4	0	5.4	-2	1.0	1	0.438	0	2.414	0	5.518	-1	1780	48	1.4
50064.5	10000	41.7515	92.8262	-791	QK	2.4	0	6.1	-2	1.0	1	0.402	0	2.391	0	5.945	-1	1802	39	1.4
50064.4	10000	41.7521	92.8262	-791	QK	2.2	-1	6.7	-1	1.1	0	0.338	-1	2.112	0	6.257	0	1815	48	1.4
50064.3	10000	41.7527	92.8262	-792	QK	2.4	0	7.2	0	1.1	0	0.335	-1	2.295	0	6.840	1	1824	37	1.4
50064.2	10000	41.7532	92.8262	-793	QK	2.4	0	7.1	0	1.1	0	0.337	-1	2.242	0	6.648	1	1826	41	1.4
50064.1	10000	41.7538	92.8262	-794	QK	2.2	-1	7.3	0	1.1	0	0.303	-1	2.014	-1	6.654	0	1813	45	1.4
50064.0	10000	41.7544	92.8262	-795	QK	2.3	-1	7.3	0	1.1	0	0.312	-1	2.160	0	6.920	0	1795	45	1.4
50063.9	10000	41.7550	92.8262	-797	QK	2.2	-1	7.4	0	1.1	0	0.304	-1	2.065	0	6.790	0	1807	55	1.4
50063.8	10000	41.7555	92.8262	-798	QK	2.3	0	7.0	0	1.1	0	0.327	0	2.031	0	6.218	0	1811	57	1.4
50063.7	10000	41.7561	92.8262	-799	QK	2.5	0	6.6	-1	1.1	0	0.378	0	2.249	0	5.949	-1	1813	30	1.4
50063.6	10000	41.7566	92.8262	-799	QK	2.5	0	6.4	-1	1.1	0	0.385	0	2.228	0	5.791	-1	1823	44	1.4

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50063.5	10000	41.7572	92.8262	-802	QK	2.4	0	6.6	-1	1.1	0	0.368	0	2.210	0	6.008	-1	1829	37	1.4
50063.4	10000	41.7578	92.8263	-803	QK	2.3	-1	6.5	-1	1.1	-1	0.351	0	2.158	0	6.146	0	1829	45	1.4
50063.3	10000	41.7583	92.8263	-805	QK	2.3	0	6.4	-1	1.1	0	0.362	0	2.188	0	6.044	-1	1820	44	1.4
50063.2	10000	41.7589	92.8263	-806	QK	2.2	-1	6.5	-1	1.0	-1	0.337	0	2.121	0	6.294	0	1808	45	1.4
50063.1	10000	41.7595	92.8263	-807	QK	2.1	-1	6.5	-1	1.0	-1	0.326	0	2.094	0	6.429	0	1790	43	1.4
50063.0	10000	41.7600	92.8263	-808	QK	1.8	-1	6.4	-1	1.1	-1	0.286	-1	1.727	-1	6.043	-1	1792	45	1.4
50062.9	10000	41.7606	92.8263	-809	QK	1.7	-2	6.6	-1	1.0	-1	0.259	-1	1.651	-1	6.371	0	1790	47	1.4
50062.8	10000	41.7612	92.8263	-810	QK	1.8	-1	6.8	-1	1.1	0	0.266	-1	1.644	-1	6.189	0	1797	48	1.4
50062.7	10000	41.7617	92.8262	-810	QK	2.1	-1	6.9	0	1.2	0	0.303	-1	1.807	-1	5.959	-1	1799	49	1.4
50062.6	10000	41.7623	92.8262	-811	QK	1.9	-1	6.8	-1	1.2	0	0.277	-1	1.620	-1	5.854	-1	1816	45	1.4
50062.5	10000	41.7629	92.8262	-811	QK	2.1	-1	7.2	0	1.2	1	0.292	-1	1.768	-1	6.061	-1	1835	44	1.4
50062.4	10000	41.7634	92.8262	-811	QK	2.1	-1	7.2	0	1.2	0	0.292	-1	1.812	-1	6.208	0	1849	42	1.4
50062.3	10000	41.7640	92.8262	-812	QK	2.0	-1	7.4	0	1.1	0	0.276	-1	1.776	-1	6.444	0	1861	53	1.4
50062.2	10000	41.7645	92.8262	-812	QK	2.0	-1	7.2	0	1.2	0	0.280	-1	1.727	-1	6.162	0	1861	43	1.4
50062.1	10000	41.7651	92.8262	-813	QK	2.1	-1	7.4	0	1.2	0	0.286	-1	1.831	-1	6.405	0	1873	40	1.4
50062.0	10000	41.7657	92.8262	-813	QK	1.9	-1	7.6	1	1.2	0	0.250	-1	1.629	-1	6.514	0	1896	33	1.4
50061.9	10000	41.7662	92.8262	-814	QK	2.0	-1	7.8	1	1.2	1	0.261	-1	1.715	-1	6.576	0	1917	43	1.4
50061.8	10000	41.7668	92.8262	-814	QK	2.1	-1	7.5	0	1.2	1	0.286	-1	1.812	-1	6.340	0	1923	36	1.4
50061.7	10000	41.7674	92.8262	-815	QK	2.2	-1	7.5	0	1.2	1	0.295	-1	1.848	-1	6.257	0	1934	40	1.4
50061.6	10000	41.7679	92.8262	-816	QK	2.3	-1	7.3	0	1.2	0	0.310	-1	1.932	-1	6.239	0	1921	45	1.4
50061.5	10000	41.7685	92.8262	-816	QK	2.4	0	7.6	0	1.2	1	0.314	-1	2.026	-1	6.455	0	1927	47	1.5
50061.4	10000	41.7691	92.8262	-817	QK	2.4	0	7.6	0	1.2	1	0.312	-1	2.009	-1	6.437	0	1914	53	1.5
50061.3	10000	41.7696	92.8262	-817	QK	2.6	0	7.6	0	1.1	1	0.347	0	2.323	0	6.701	0	1914	52	1.5
50061.2	10000	41.7702	92.8262	-817	QK	2.6	0	7.6	1	1.1	0	0.338	0	2.311	0	6.833	0	1892	38	1.5
50061.1	10000	41.7708	92.8262	-818	QK	2.4	0	7.9	1	1.1	0	0.306	-1	2.166	0	7.084	1	1877	40	1.5
50061.0	10000	41.7713	92.8262	-818	QK	2.2	-1	7.7	1	1.1	0	0.287	-1	2.008	-1	7.001	1	1855	37	1.5
50060.9	10000	41.7719	92.8262	-818	QK	2.4	0	7.4	0	1.1	0	0.328	0	2.200	0	6.706	0	1845	53	1.5
50060.8	10000	41.7725	92.8262	-819	QK	2.4	0	7.1	0	1.1	0	0.337	0	2.151	0	6.388	0	1839	51	1.5
50060.7	10000	41.7730	92.8262	-819	QK	2.4	0	6.8	-1	1.1	0	0.348	0	2.080	0	5.979	-1	1845	41	1.5
50060.6	10000	41.7736	92.8262	-818	QK	2.2	-1	6.4	-1	1.2	0	0.350	0	1.883	-1	5.382	-2	1833	51	1.5
50060.5	10000	41.7741	92.8262	-818	QK	2.3	0	6.3	-1	1.2	0	0.363	0	1.879	-1	5.178	-2	1847	46	1.5
50060.4	10000	41.7747	92.8262	-818	QK	2.3	0	6.4	-1	1.2	0	0.358	0	1.894	-1	5.288	-2	1848	61	1.5
50060.3	10000	41.7753	92.8262	-816	QK	2.4	0	6.7	-1	1.2	0	0.355	0	1.976	-1	5.570	-1	1868	47	1.5
50060.2	10000	41.7758	92.8262	-817	QK	2.5	0	7.0	0	1.2	0	0.353	0	2.078	0	5.878	-1	1894	41	1.5
50060.1	10000	41.7764	92.8262	-816	QK	2.7	0	6.9	0	1.1	0	0.394	0	2.367	0	6.005	-1	1906	42	1.5
50060.0	10000	41.7770	92.8262	-816	QK	2.7	0	7.2	0	1.1	0	0.371	0	2.422	0	6.536	0	1916	35	1.5
50059.9	10000	41.7775	92.8262	-815	QK	2.6	0	7.7	1	1.1	0	0.341	0	2.455	0	7.202	1	1925	35	1.6
50059.8	10000	41.7781	92.8261	-815	QK	2.6	0	7.5	0	1.1	0	0.351	0	2.467	0	7.029	1	1930	56	1.6
50059.7	10000	41.7787	92.8261	-815	QK	2.7	0	7.3	0	1.1	0	0.372	0	2.458	0	6.616	0	1943	36	1.6
50059.6	10000	41.7792	92.8261	-814	QK	3.0	1	7.2	0	1.1	1	0.411	0	2.703	1	6.583	0	1940	45	1.6
50059.5	10000	41.7798	92.8261	-813	QK	2.8	1	7.1	0	1.1	1	0.400	0	2.556	1	6.394	0	1938	35	1.6
50059.4	10000	41.7804	92.8261	-812	QK	2.5	0	7.4	0	1.1	0	0.332	0	2.148	0	6.468	0	1938	46	1.6
50059.3	10000	41.7809	92.8261	-812	QK	2.2	-1	7.1	0	1.2	0	0.318	-1	1.951	-1	6.131	-1	1931	38	1.6
50059.2	10000	41.7815	92.8261	-811	QK	2.2	-1	7.2	0	1.2	0	0.304	-1	1.858	-1	6.101	-1	1932	49	1.6
50059.1	10000	41.7820	92.8261	-810	QK	2.5	0	7.0	0	1.2	0	0.350	0	2.119	0	6.051	-1	1945	45	1.6
50059.0	10000	41.7826	92.8261	-809	QK	2.5	0	7.3	0	1.1	0	0.338	0	2.287	0	6.763	0	1937	40	1.6
50058.9	10000	41.7832	92.8261	-807	QK	2.5	0	7.4	0	1.1	0	0.344	0	2.344	0	6.814	0	1940	39	1.6
50058.8	10000	41.7837	92.8261	-806	QK	2.5	0	7.5	0	1.1	0	0.334	0	2.361	0	7.067	1	1929	65	1.6
50058.7	10000	41.7843	92.8261	-805	QK	2.6	0	7.3	-1	1.0	0	0.359	0	2.585	1	7.191	1	1917	41	1.7
50058.6	10000	41.7849	92.8261	-804	QK	2.7	0	7.4	-1	1.0	0	0.365	0	2.636	1	7.228	1	1911	42	1.7
50058.5	10000	41.7854	92.8261	-802	QK	2.7	0	7.3	-1	1.0	0	0.377	0	2.722	1	7.217	1	1912	44	1.7
50058.4	10000	41.7860	92.8261	-800	QK	2.5	0	7.7	1	1.0	-1	0.325	0	2.440	0	7.513	1	1899	47	1.7

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50058.3	10000	41.7866	92.8261	-798	QK	2.5	0	7.2	0	1.1	0	0.343	0	2.268	0	6.608	0	1892	41	1.7
50058.2	10000	41.7871	92.8261	-796	QK	2.3	0	6.9	0	1.1	0	0.337	0	2.140	0	6.358	0	1881	51	1.7
50058.1	10000	41.7877	92.8261	-794	QK	2.5	0	6.7	-1	1.1	0	0.373	0	2.276	0	6.106	-1	1869	41	1.7
50058.0	10000	41.7882	92.8261	-791	QK	2.5	0	6.6	-1	1.1	0	0.374	0	2.155	0	5.767	-1	1880	51	1.7
50057.9	10000	41.7888	92.8261	-788	QK	2.6	0	6.7	-1	1.2	0	0.387	0	2.248	0	5.809	-1	1882	37	1.7
50057.8	10000	41.7894	92.8261	-788	QL	2.6	0	6.4	-1	1.2	0	0.413	-1	2.260	0	5.477	-1	1873	40	1.7
50057.7	10000	41.7899	92.8261	-788	QL	2.4	0	6.4	-1	1.1	0	0.378	0	2.111	0	5.580	-1	1862	47	1.7
50057.6	10000	41.7905	92.8261	-786	QL	2.1	-1	6.7	-1	1.2	0	0.318	-1	1.813	-1	5.696	-1	1876	39	1.7
50057.5	10000	41.7911	92.8261	-784	QL	2.0	-1	7.1	0	1.2	0	0.277	-1	1.665	-1	6.009	0	1880	40	1.8
50057.4	10000	41.7916	92.8261	-782	QL	1.8	-2	7.2	0	1.2	0	0.253	-2	1.539	-2	6.081	0	1891	38	1.8
50057.3	10000	41.7922	92.8260	-781	QL	1.6	-2	7.3	0	1.2	0	0.223	-2	1.410	-2	6.313	0	1878	47	1.8
50057.2	10000	41.7928	92.8260	-779	QL	1.6	-2	7.3	0	1.1	0	0.215	-2	1.370	-2	6.370	0	1868	39	1.8
50057.1	10000	41.7933	92.8260	-777	QL	1.6	-2	7.5	0	1.1	0	0.220	-2	1.452	-2	6.613	1	1865	45	1.8
50057.0	10000	41.7939	92.8260	-776	QL	1.7	-2	7.5	0	1.2	0	0.225	-2	1.454	-2	6.461	0	1870	41	1.8
50056.9	10000	41.7944	92.8260	-775	QL	1.8	-2	7.3	0	1.1	0	0.250	-2	1.596	-1	6.390	0	1869	44	1.8
50056.8	10000	41.7950	92.8260	-773	QL	2.0	-1	7.0	0	1.1	0	0.284	-1	1.739	-1	6.134	0	1865	47	1.8
50056.7	10000	41.7956	92.8260	-772	QL	2.0	-1	7.4	0	1.1	0	0.274	-1	1.763	-1	6.440	0	1861	51	1.8
50056.6	10000	41.7961	92.8260	-771	QL	2.0	-1	7.3	0	1.1	0	0.273	-1	1.738	-1	6.364	0	1864	46	1.8
50056.5	10000	41.7967	92.8260	-769	QL	1.9	-1	7.2	0	1.1	0	0.266	-1	1.698	-1	6.381	0	1867	45	1.8
50056.4	10000	41.7973	92.8260	-768	QL	1.9	-1	7.1	0	1.1	0	0.264	-1	1.653	-1	6.270	0	1862	39	1.8
50056.3	10000	41.7978	92.8260	-767	QL	1.8	-2	7.0	0	1.1	-1	0.261	-1	1.661	-1	6.362	0	1850	51	1.8
50056.2	10000	41.7984	92.8260	-766	QL	1.7	-2	7.1	0	1.1	-1	0.248	-2	1.661	-1	6.708	1	1825	52	1.8
50056.1	10000	41.7990	92.8260	-765	QL	1.6	-2	7.0	0	1.1	-1	0.231	-2	1.480	-2	6.415	0	1817	35	1.9
50056.0	10000	41.7995	92.8260	-765	QL	1.6	-2	6.7	-1	1.1	-1	0.239	-2	1.497	-2	6.268	0	1824	43	1.9
50055.9	10000	41.8001	92.8260	-764	QL	1.6	-2	6.6	-1	1.1	-1	0.248	-2	1.518	-2	6.120	0	1818	45	1.9
50055.8	10000	41.8007	92.8260	-764	QL	1.7	-2	6.6	-1	1.1	-2	0.255	-2	1.622	-2	6.369	1	1815	34	1.9
50055.7	10000	41.8012	92.8260	-763	QL	1.4	-2	6.9	-1	1.0	-2	0.205	-2	1.376	-2	6.698	1	1814	26	1.9
50055.6	10000	41.8018	92.8260	-763	QL	1.6	-2	6.7	-1	1.0	-2	0.246	-2	1.612	-1	6.543	1	1806	49	1.9
50055.5	10000	41.8023	92.8260	-762	QL	1.7	-2	6.6	-1	1.0	-2	0.259	-2	1.721	-1	6.642	1	1799	38	1.9
50055.4	10000	41.8029	92.8260	-762	QL	1.6	-2	6.6	-1	1.0	-2	0.239	-2	1.691	-1	7.069	1	1774	48	1.9
50055.3	10000	41.8035	92.8260	-762	QL	1.6	-2	6.6	-1	1.0	-2	0.244	-2	1.625	-1	6.668	1	1757	43	1.9
50055.2	10000	41.8040	92.8260	-762	QL	1.7	-2	6.5	-1	1.0	-2	0.267	-1	1.751	-1	6.548	1	1738	49	1.9
50055.1	10000	41.8046	92.8260	-763	QL	1.9	-2	6.5	-1	1.0	-2	0.291	-1	1.856	-1	6.370	1	1733	46	1.9
50055.0	10000	41.8052	92.8260	-763	QL	2.2	-1	6.5	-1	1.0	-2	0.346	-1	2.263	0	6.544	1	1746	51	1.9
50054.9	10000	41.8057	92.8260	-764	QL	2.3	-1	6.4	-1	1.0	-2	0.364	-1	2.357	0	6.466	1	1766	40	1.9
50054.8	10000	41.8063	92.8260	-765	QL	2.6	-1	6.4	-1	1.0	-2	0.405	-1	2.611	1	6.453	1	1799	44	1.9
50054.7	10000	41.8069	92.8260	-765	QL	2.7	0	6.4	-1	1.0	-2	0.425	-1	2.735	1	6.430	1	1846	47	1.9
50054.6	10000	41.8074	92.8260	-767	QL	2.6	0	6.7	-1	1.0	-2	0.385	-1	2.506	1	6.516	1	1874	42	1.9
50054.5	10000	41.8080	92.8260	-769	QL	2.7	0	7.2	0	1.1	-2	0.373	-1	2.482	1	6.654	1	1909	52	1.9
50054.4	10000	41.8085	92.8259	-770	QL	2.6	0	7.0	0	1.1	-2	0.372	-1	2.354	0	6.336	1	1927	38	1.9
50054.3	10000	41.8091	92.8259	-775	QL	2.3	-1	7.9	-1	1.2	-2	0.342	-1	1.994	-1	5.834	1	1938	37	1.9
50054.2	10000	41.8097	92.8259	-774	QL	2.2	-1	7.5	-1	1.2	-1	0.294	-1	1.784	-1	6.062	1	1958	56	1.9
50054.1	10000	41.8102	92.8259	-776	QL	2.0	-1	7.7	-1	1.2	-1	0.255	-1	1.569	-1	6.143	1	1960	41	1.9
50054.0	10000	41.8108	92.8259	-778	QL	2.0	-1	7.8	-1	1.2	-1	0.255	-1	1.546	-2	6.056	1	1957	49	1.9
50053.9	10000	41.8114	92.8259	-780	QL	2.0	-1	7.4	-1	1.2	-1	0.275	-1	1.576	-1	5.737	1	1948	44	1.9
50053.8	10000	41.8119	92.8259	-782	QL	2.0	-1	7.5	-1	1.2	-1	0.271	-1	1.553	-2	5.724	1	1951	52	1.9
50053.7	10000	41.8125	92.8259	-784	QL	2.1	-1	7.6	-1	1.2	-1	0.258	-1	1.558	-2	6.037	1	1950	43	1.9
50053.6	10000	41.8131	92.8259	-787	QL	2.1	-1	7.6	-1	1.2	-1	0.269	-1	1.668	-1	6.194	1	1947	37	1.9
50053.5	10000	41.8136	92.8259	-789	QL	2.1	-1	7.6	-1	1.2	-1	0.281	-1	1.705	-1	6.057	1	1925	39	1.9
50053.4	10000	41.8142	92.8259	-791	QL	2.0	-1	7.6	-1	1.2	-1	0.299	-1	1.689	-1	5.658	1	1923	55	1.9
50053.3	10000	41.8148	92.8259	-794	QL	2.0	-1	7.6	-1	1.2	-1	0.290	-1	1.671	-1	5.765	1	1903	53	1.9
50053.2	10000	41.8153	92.8259	-796	QL	2.0	-1	7.3	0	1.2	0	0.279	-1	1.749	-1	6.268	0	1899	48	1.8

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50053.1	10000	41.8159	92.8259	-799	QL	1.9	-1	7.7	1	1.1	0	0.252	-2	1.708	-1	6.766	1	1886	54	1.8
50053.0	10000	41.8164	92.8259	-802	QL	1.9	-2	7.5	0	1.2	0	0.251	-2	1.637	-1	6.528	1	1866	30	1.8
50052.9	10000	41.8170	92.8259	-804	QL	1.8	-2	7.3	0	1.2	0	0.241	-2	1.525	-2	6.336	0	1833	37	1.8
50052.8	10000	41.8176	92.8259	-806	QL	1.9	-1	7.1	0	1.2	0	0.271	-1	1.663	-1	6.134	0	1820	41	1.8
50052.7	10000	41.8181	92.8259	-810	QL	1.9	-2	7.1	0	1.2	0	0.263	-1	1.622	-1	6.169	0	1800	50	1.8
50052.6	10000	41.8187	92.8259	-812	QL	1.8	-2	7.0	0	1.2	0	0.262	-1	1.586	-1	6.061	0	1794	42	1.8
50052.5	10000	41.8193	92.8259	-814	QL	1.8	-2	6.7	-1	1.1	-1	0.261	-1	1.618	-1	6.196	0	1773	47	1.8
50052.4	10000	41.8198	92.8259	-817	QL	1.9	-1	6.4	-1	1.1	-1	0.303	-1	1.738	-1	5.737	-1	1760	47	1.8
50052.3	10000	41.8204	92.8259	-819	QL	2.1	-1	6.1	-2	1.1	-1	0.344	0	1.940	-1	5.638	-1	1755	55	1.8
50052.2	10000	41.8210	92.8259	-820	QL	2.2	-1	6.1	-2	1.1	-1	0.367	0	2.097	0	5.712	-1	1770	42	1.7
50052.1	10000	41.8215	92.8259	-822	QL	2.3	-1	6.4	-1	1.1	-1	0.358	0	2.144	0	5.991	0	1775	39	1.7
50052.0	10000	41.8221	92.8259	-824	QL	2.3	-1	6.3	-1	1.0	-1	0.366	0	2.226	0	6.079	0	1784	53	1.7
50051.9	10000	41.8226	92.8259	-826	QL	2.4	0	6.4	-1	1.1	-1	0.378	0	2.295	0	6.066	0	1818	33	1.7
50051.8	10000	41.8232	92.8259	-829	QL	2.6	0	6.6	-1	1.1	-1	0.395	1	2.376	0	6.017	0	1837	47	1.7
50051.7	10000	41.8238	92.8259	-830	QL	2.5	0	6.4	-1	1.1	-1	0.391	0	2.382	0	6.089	0	1851	43	1.7
50051.6	10000	41.8243	92.8259	-832	QL	2.6	0	6.5	-1	1.1	-1	0.397	1	2.381	0	5.994	0	1884	45	1.7
50051.5	10000	41.8249	92.8258	-834	QL	2.4	0	6.7	-1	1.1	0	0.366	0	2.147	0	5.869	-1	1910	50	1.7
50051.4	10000	41.8255	92.8258	-835	QL	2.3	-1	6.6	-1	1.2	0	0.347	0	1.958	-1	5.636	-1	1928	38	1.6
50051.3	10000	41.8260	92.8258	-837	QL	2.2	-1	6.9	-1	1.2	0	0.323	-1	1.855	-1	5.736	-1	1935	53	1.6
50051.2	10000	41.8266	92.8258	-838	QL	2.2	-1	7.0	0	1.2	1	0.315	-1	1.796	-1	5.702	-1	1930	54	1.6
50051.1	10000	41.8272	92.8258	-840	QL	2.0	-1	6.7	-1	1.3	1	0.299	-1	1.581	-1	5.295	-2	1930	47	1.6
50051.0	10000	41.8277	92.8258	-841	QL	1.9	-2	6.7	-1	1.3	1	0.282	-1	1.461	-2	5.189	-2	1938	43	1.6
50050.9	10000	41.8283	92.8258	-843	QL	1.7	-2	7.1	0	1.3	2	0.241	-2	1.267	-2	5.263	-2	1919	44	1.6
50050.8	10000	41.8289	92.8258	-845	QL	1.8	-2	7.1	0	1.3	2	0.259	-1	1.371	-2	5.283	-2	1905	46	1.6
50050.7	10000	41.8294	92.8258	-847	QL	1.8	-2	7.2	0	1.3	2	0.248	-2	1.322	-2	5.335	-1	1905	40	1.5
50050.6	10000	41.8300	92.8258	-848	QL	1.9	-2	7.2	0	1.4	2	0.263	-1	1.401	-2	5.320	-1	1905	52	1.5
50050.5	10000	41.8305	92.8258	-849	QL	1.8	-2	6.8	-1	1.3	2	0.259	-1	1.322	-2	5.107	-2	1878	40	1.5
50050.4	10000	41.8311	92.8258	-851	QL	2.1	-1	7.1	0	1.3	1	0.293	-1	1.613	-1	5.511	-1	1867	55	1.5
50050.3	10000	41.8317	92.8258	-852	QL	2.3	-1	6.8	-1	1.3	0	0.333	-1	1.793	-1	5.390	-1	1839	46	1.5
50050.2	10000	41.8322	92.8258	-853	QL	2.2	-1	6.7	-1	1.2	0	0.323	-1	1.812	-1	5.602	-1	1829	52	1.5
50050.1	10000	41.8328	92.8258	-855	QL	2.0	-1	6.6	-1	1.2	0	0.302	-1	1.709	-1	5.666	-1	1804	40	1.4
50050.0	10000	41.8334	92.8258	-856	QL	2.0	-1	6.4	-1	1.1	-1	0.309	-1	1.806	-1	5.841	-1	1774	44	1.4
50049.9	10000	41.8339	92.8258	-857	QL	2.0	-1	6.3	-1	1.1	-1	0.319	-1	1.880	-1	5.901	0	1738	48	1.4
50049.8	10000	41.8345	92.8258	-858	QL	2.0	-1	6.4	-1	1.1	-1	0.311	-1	1.896	-1	5.096	0	1735	51	1.4
50049.7	10000	41.8351	92.8258	-859	QL	1.8	-2	6.4	-1	1.0	-1	0.280	-1	1.729	-1	6.177	0	1739	44	1.4
50049.6	10000	41.8356	92.8258	-860	QL	1.7	-2	6.7	-1	1.1	-1	0.256	-1	1.620	-1	6.339	0	1773	48	1.4
50049.5	10000	41.8362	92.8258	-861	QL	1.9	-1	6.7	-1	1.1	0	0.291	-1	1.697	-1	5.832	-1	1801	39	1.4
50049.4	10000	41.8368	92.8258	-861	QL	2.2	-1	6.8	-1	1.2	0	0.326	0	1.862	-1	5.714	-1	1834	47	1.3
50049.3	10000	41.8373	92.8258	-861	QL	2.3	-1	7.2	0	1.2	0	0.312	-1	1.877	-1	6.025	0	1876	52	1.3
50049.2	10000	41.8379	92.8258	-861	QL	2.2	-1	7.3	0	1.2	0	0.305	-1	1.857	-1	6.093	0	1915	40	1.3
50049.1	10000	41.8384	92.8258	-862	QL	2.5	0	7.6	0	1.2	0	0.337	0	2.136	0	6.343	0	1950	48	1.3
50049.0	10000	41.8390	92.8257	-862	QL	2.4	0	7.6	0	1.2	0	0.317	0	2.038	0	6.435	0	1960	45	1.3
50048.9	10000	41.8396	92.8257	-862	QL	2.7	0	7.8	0	1.2	0	0.343	0	2.284	0	6.656	1	1943	50	1.3
50048.8	10000	41.8401	92.8257	-862	QL	2.5	0	7.9	1	1.1	0	0.310	0	2.246	0	7.233	2	1929	36	1.3
50048.7	10000	41.8407	92.8257	-861	QL	2.5	0	7.8	1	1.1	0	0.320	0	2.408	0	7.527	2	1920	42	1.3
50048.6	10000	41.8413	92.8257	-861	QL	2.5	0	7.3	0	1.1	0	0.349	0	2.410	0	6.912	1	1899	38	1.3
50048.5	10000	41.8418	92.8257	-860	QL	2.5	0	7.2	0	1.1	0	0.352	0	2.393	0	6.807	1	1879	50	1.2
50048.4	10000	41.8424	92.8257	-859	QL	2.3	-1	6.8	-1	1.1	-1	0.334	0	2.218	0	6.649	1	1845	43	1.2
50048.3	10000	41.8430	92.8257	-859	QL	2.3	-1	6.9	-1	1.1	-1	0.340	0	2.117	0	6.233	1	1858	45	1.2
50048.2	10000	41.8435	92.8257	-858	QL	2.3	-1	6.7	-1	1.1	-1	0.350	0	2.078	0	5.930	0	1873	48	1.2
50048.1	10000	41.8441	92.8257	-857	QL	2.6	0	6.6	-1	1.1	-1	0.397	1	2.318	0	5.845	-1	1876	32	1.2
50048.0	10000	41.8447	92.8257	-857	QL	2.8	0	6.7	-1	1.1	-1	0.413	1	2.475	1	5.991	0	1873	58	1.2

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50047.9	10000	41.8452	92.8257	-856	QL	2.6	0	6.9	-1	1.1	-1	0.382	0	2.341	0	6.133	0	1868	34	1.2
50047.8	10000	41.8458	92.8257	-854	QL	2.7	0	7.0	0	1.1	-1	0.395	1	2.488	0	6.302	0	1863	39	1.2
50047.7	10000	41.8463	92.8257	-855	QL	3.0	1	7.2	0	1.1	-1	0.424	1	2.763	1	6.513	1	1870	37	1.2
50047.6	10000	41.8469	92.8257	-854	QL	3.4	2	6.6	-1	1.1	-1	0.506	2	3.193	2	6.308	0	1857	40	1.1
50047.5	10000	41.8475	92.8257	-853	QL	3.2	1	6.8	-1	1.0	-1	0.463	2	3.051	2	6.584	1	1844	49	1.1
50047.4	10000	41.8480	92.8257	-853	QL	3.1	1	7.3	0	1.0	-1	0.428	1	3.003	2	7.018	1	1854	47	1.1
50047.3	10000	41.8486	92.8256	-853	QL	2.8	1	7.4	0	1.1	-1	0.384	0	2.594	1	6.754	1	1853	46	1.1
50047.2	10000	41.8491	92.8256	-851	QL	2.9	1	7.1	0	1.1	-1	0.406	1	2.640	1	6.504	1	1859	35	1.1
50047.1	10000	41.8497	92.8256	-850	QL	2.7	0	7.3	0	1.1	-1	0.364	0	2.365	0	6.493	0	1871	42	1.1
50047.0	10000	41.8503	92.8256	-849	QL	2.7	0	7.3	0	1.2	0	0.367	0	2.285	0	6.233	0	1884	49	1.1
50046.9	10000	41.8508	92.8256	-848	QL	2.3	-1	7.7	1	1.2	0	0.301	-1	2.001	0	6.651	1	1873	43	1.1
50046.8	10000	41.8514	92.8255	-847	QL	2.2	-1	7.6	1	1.1	0	0.284	-1	1.878	-1	6.618	1	1867	54	1.1
50046.7	10000	41.8519	92.8255	-846	QL	2.1	-1	7.1	0	1.1	0	0.296	-1	1.837	-1	6.216	0	1849	45	1.1
50046.6	10000	41.8525	92.8255	-847	QL	2.2	-1	7.3	0	1.1	0	0.305	-1	1.962	-1	6.424	0	1848	43	1.1
50046.5	10000	41.8531	92.8255	-844	QL	2.3	-1	7.6	1	1.1	-1	0.295	-1	2.091	0	7.089	1	1848	60	1.1
50046.4	10000	41.8536	92.8255	-844	QL	2.3	-1	7.6	0	1.1	-1	0.308	-1	2.115	0	6.876	1	1845	33	1.1
50046.3	10000	41.8542	92.8254	-843	QL	2.0	-1	7.6	0	1.1	-1	0.270	-1	1.877	-1	6.939	1	1837	44	1.1
50046.2	10000	41.8547	92.8254	-843	QL	2.2	-1	7.5	0	1.1	0	0.292	-1	1.912	-1	6.550	1	1850	40	1.1
50046.1	10000	41.8553	92.8254	-842	QL	2.4	0	7.4	0	1.2	0	0.319	-1	2.028	0	6.367	0	1873	44	1.1
50046.0	10000	41.8559	92.8254	-842	QL	2.6	0	7.4	0	1.2	0	0.346	0	2.177	0	6.299	0	1892	46	1.1
50045.9	10000	41.8564	92.8254	-841	QL	2.7	0	7.5	0	1.2	0	0.360	0	2.229	0	6.184	0	1913	30	1.1
50045.8	10000	41.8570	92.8253	-841	QL	2.8	1	7.2	1	1.3	1	0.390	1	2.231	0	5.719	-1	1913	51	1.1
50045.7	10000	41.8575	92.8253	-839	QL	2.9	1	7.0	1	1.2	1	0.413	1	2.344	0	5.672	-1	1911	40	1.1
50045.6	10000	41.8581	92.8253	-837	QL	3.0	1	6.7	-1	1.2	0	0.450	1	2.495	1	5.538	-1	1911	34	1.1
50045.5	10000	41.8586	92.8253	-836	QL	3.1	1	7.0	0	1.2	0	0.448	1	2.670	1	5.961	0	1900	52	1.1
50045.4	10000	41.8592	92.8253	-836	QL	3.2	1	7.1	1	1.1	-1	0.452	1	2.885	2	6.383	0	1881	40	1.1
50045.3	10000	41.8598	92.8252	-839	QL	3.0	1	7.4	0	1.1	0	0.401	1	2.633	1	6.567	1	1867	47	1.1
50045.2	10000	41.8603	92.8252	-841	QL	2.6	0	7.1	0	1.1	-1	0.366	0	2.395	1	6.549	1	1837	56	1.1
50045.1	10000	41.8609	92.8252	-841	QL	2.5	0	7.1	0	1.1	-1	0.354	0	2.357	0	6.665	1	1833	46	1.1
50045.0	10000	41.8614	92.8252	-841	QL	2.4	0	7.4	0	1.1	-1	0.328	0	2.236	0	6.827	1	1844	47	1.1
50044.9	10000	41.8620	92.8252	-841	QL	2.3	-1	8.0	1	1.1	0	0.287	-1	2.035	0	7.098	2	1856	39	1.1
50044.8	10000	41.8626	92.8251	-841	QL	2.1	-1	7.6	0	1.2	1	0.278	-1	1.790	-1	6.432	0	1868	39	1.1
50044.7	10000	41.8631	92.8251	-841	QL	2.0	-1	7.5	0	1.2	1	0.263	-1	1.597	-1	6.074	0	1878	43	1.1
50044.6	10000	41.8637	92.8251	-841	QL	2.2	-1	7.3	0	1.3	1	0.298	-1	1.730	-1	5.798	-1	1892	47	1.2
50044.5	10000	41.8642	92.8251	-841	QL	2.4	0	7.4	0	1.2	1	0.327	0	1.948	-1	5.961	0	1909	50	1.2
50044.4	10000	41.8648	92.8251	-841	QL	2.3	-1	7.7	1	1.2	1	0.300	-1	1.854	-1	6.175	0	1908	42	1.2
50044.3	10000	41.8654	92.8250	-841	QL	2.2	-1	7.5	0	1.3	1	0.291	-1	1.698	-1	5.840	-1	1894	47	1.2
50044.2	10000	41.8659	92.8250	-841	QL	2.2	-1	7.1	0	1.2	1	0.307	-1	1.767	-1	5.751	-1	1870	56	1.2
50044.1	10000	41.8665	92.8250	-841	QL	2.0	-1	7.1	0	1.2	1	0.283	-1	1.714	-1	6.064	0	1849	44	1.2
50044.0	10000	41.8670	92.8250	-841	QL	1.9	-2	7.0	0	1.2	0	0.270	-1	1.618	-1	5.980	0	1826	41	1.2
50043.9	10000	41.8676	92.8250	-841	QL	1.7	-2	7.0	0	1.1	-1	0.244	-2	1.543	-2	6.324	0	1805	34	1.2
50043.8	10000	41.8682	92.8250	-841	QL	1.4	-2	7.0	0	1.1	0	0.194	-2	1.190	-2	6.121	0	1802	49	1.2
50043.7	10000	41.8687	92.8249	-841	QL	1.5	-2	7.0	0	1.1	-1	0.217	-2	1.351	-2	6.239	0	1803	44	1.2
50043.6	10000	41.8693	92.8249	-841	QL	1.8	-2	7.0	0	1.1	-1	0.260	-1	1.700	-1	6.532	1	1831	54	1.2
50043.5	10000	41.8698	92.8249	-841	QL	1.9	-1	7.2	0	1.1	-1	0.271	-1	1.718	-1	6.346	0	1864	38	1.3
50043.4	10000	41.8704	92.8249	-841	QL	2.1	-1	7.3	0	1.2	-1	0.276	-1	1.762	-1	6.382	0	1884	44	1.3
50043.3	10000	41.8710	92.8248	-841	QL	2.3	-1	7.3	0	1.2	0	0.319	-1	1.956	-1	6.129	0	1905	44	1.3
50043.2	10000	41.8715	92.8248	-840	QL	2.2	-1	7.3	0	1.3	1	0.301	-1	1.735	-1	5.766	-1	1935	41	1.3
50043.1	10000	41.8721	92.8248	-840	QL	2.5	0	7.3	0	1.3	1	0.337	0	1.951	-1	5.795	-1	1933	50	1.3
50043.0	10000	41.8726	92.8248	-839	QL	2.3	-1	7.0	0	1.3	1	0.327	0	1.787	-1	5.473	-1	1937	47	1.3
50042.9	10000	41.8732	92.8248	-839	QL	2.1	-1	7.2	0	1.3	1	0.296	-1	1.669	-1	5.631	-1	1914	43	1.3
50042.8	10000	41.8737	92.8248	-839	QL	2.1	-1	7.5	0	1.2	1	0.275	-1	1.661	-1	6.036	0	1891	40	1.3

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50042.7	10000	41.8743	92.8247	-838	QL	2.0	-1	7.2	0	1.2	1	0.283	-1	1.660	-1	5.860	-1	1890	48	1.3
50042.6	10000	41.8749	92.8247	-838	QL	1.8	-2	7.6	1	1.2	0	0.241	-2	1.560	-2	6.469	0	1883	32	1.3
50042.5	10000	41.8754	92.8247	-837	QL	1.8	-2	7.7	1	1.1	0	0.240	-2	1.616	-1	6.724	1	1866	46	1.3
50042.4	10000	41.8760	92.8247	-837	QL	1.9	-2	7.9	1	1.1	0	0.237	-2	1.641	-1	6.936	1	1870	40	1.3
50042.3	10000	41.8765	92.8246	-836	QL	2.1	-1	8.0	1	1.1	-1	0.261	-1	1.882	-1	7.200	2	1866	44	1.3
50042.2	10000	41.8771	92.8246	-834	QL	2.2	-1	7.9	1	1.1	-1	0.273	-1	1.945	-1	7.131	2	1867	36	1.4
50042.1	10000	41.8777	92.8246	-831	QL	2.3	-1	8.0	1	1.1	-1	0.283	-1	2.012	0	7.105	2	1869	44	1.4
50042.0	10000	41.8782	92.8246	-823	QL	2.2	-1	7.7	1	1.2	0	0.283	-1	1.874	-1	6.628	1	1874	31	1.4
50041.9	10000	41.8788	92.8246	-822	QL	2.1	-1	7.5	0	1.2	1	0.279	-1	1.713	-1	6.131	0	1888	39	1.4
50041.8	10000	41.8793	92.8246	-832	QL	2.3	-1	7.4	0	1.2	1	0.314	-1	1.875	-1	5.965	0	1902	54	1.4
50041.7	10000	41.8799	92.8245	-834	QL	2.1	-1	7.0	0	1.3	1	0.303	-1	1.687	-1	5.569	-1	1901	51	1.4
50041.6	10000	41.8805	92.8245	-832	QL	2.0	-1	7.0	0	1.3	1	0.283	-1	1.569	-1	5.538	-1	1901	38	1.4
50041.5	10000	41.8810	92.8245	-830	QL	2.4	0	6.9	-1	1.3	1	0.349	0	1.917	-1	5.490	-1	1907	50	1.4
50041.4	10000	41.8816	92.8245	-829	QL	2.3	-1	6.4	-1	1.2	1	0.359	0	1.854	-1	5.163	-2	1916	47	1.4
50041.3	10000	41.8821	92.8244	-828	QL	2.4	0	6.7	-1	1.2	0	0.356	0	2.017	0	5.665	-1	1918	37	1.4
50041.2	10000	41.8827	92.8244	-827	QL	2.4	0	6.9	0	1.1	0	0.349	0	2.114	0	6.061	0	1918	47	1.4
50041.1	10000	41.8833	92.8244	-827	QL	2.4	0	6.9	-1	1.1	0	0.347	0	2.120	0	6.112	0	1917	47	1.4
50041.0	10000	41.8838	92.8244	-826	QL	2.6	0	6.9	0	1.1	-1	0.379	0	2.346	0	6.191	0	1916	53	1.4
50040.9	10000	41.8844	92.8244	-825	QL	2.8	0	6.9	-1	1.1	0	0.406	1	2.446	1	6.019	0	1923	34	1.4
50040.8	10000	41.8849	92.8244	-825	QL	2.6	0	6.6	-1	1.1	0	0.396	1	2.298	0	5.803	-1	1933	46	1.4
50040.7	10000	41.8855	92.8243	-824	QL	2.7	0	6.6	-1	1.1	0	0.404	1	2.352	0	5.827	-1	1928	41	1.5
50040.6	10000	41.8860	92.8243	-823	QL	2.7	0	6.7	-1	1.1	0	0.397	1	2.313	0	5.830	-1	1928	46	1.5
50040.5	10000	41.8866	92.8243	-823	QL	2.7	0	6.5	-1	1.1	0	0.420	1	2.381	0	5.673	-1	1910	41	1.5
50040.4	10000	41.8872	92.8243	-822	QL	2.7	0	6.5	-1	1.1	-1	0.417	1	2.409	0	5.777	-1	1893	30	1.5
50040.3	10000	41.8877	92.8242	-821	QL	2.7	0	6.5	-1	1.1	-1	0.409	1	2.510	1	6.138	0	1882	46	1.5
50040.2	10000	41.8883	92.8242	-820	QL	2.6	0	6.5	-1	1.0	-2	0.406	1	2.630	1	6.472	0	1861	39	1.5
50040.1	10000	41.8888	92.8242	-820	QL	2.4	0	6.9	-1	1.0	-2	0.344	0	2.331	0	6.767	1	1834	38	1.5
50040.0	10000	41.8894	92.8242	-819	QL	2.5	0	6.8	-1	1.1	-1	0.362	0	2.341	0	6.468	0	1824	35	1.5
50039.9	10000	41.8900	92.8242	-819	QL	2.4	0	6.6	-1	1.0	-1	0.363	0	2.307	0	6.359	0	1820	45	1.5
50039.8	10000	41.8905	92.8242	-818	QL	2.3	-1	6.8	-1	1.1	-1	0.341	0	2.140	0	6.272	0	1831	47	1.5
50039.7	10000	41.8911	92.8241	-817	QL	2.2	-1	6.7	-1	1.1	0	0.331	0	1.946	-1	5.870	-1	1843	42	1.5
50039.6	10000	41.8916	92.8241	-817	QL	2.0	-1	6.9	-1	1.2	0	0.294	-1	1.680	-1	5.707	-1	1854	39	1.5
50039.5	10000	41.8922	92.8241	-817	QL	2.0	-1	6.8	-1	1.3	1	0.299	-1	1.607	-1	5.374	-1	1892	48	1.5
50039.4	10000	41.8928	92.8241	-816	QL	2.1	-1	7.0	0	1.3	1	0.308	-1	1.657	-1	5.383	-1	1925	39	1.5
50039.3	10000	41.8933	92.8241	-815	QL	2.0	-1	6.9	-1	1.3	1	0.286	-1	1.545	-2	5.397	-1	1921	51	1.5
50039.2	10000	41.8939	92.8240	-811	QL	2.4	0	6.9	-1	1.2	1	0.345	0	1.936	-1	5.615	-1	1911	35	1.5
50039.1	10000	41.8944	92.8240	-808	QL	2.3	-1	6.7	-1	1.2	0	0.347	0	1.997	-1	5.760	-1	1893	43	1.5
50039.0	10000	41.8950	92.8240	-809	QL	2.3	-1	6.8	-1	1.1	-1	0.341	0	2.085	0	6.105	0	1877	37	1.5
50038.9	10000	41.8956	92.8240	-813	QL	2.4	0	6.7	-1	1.1	-1	0.356	0	2.137	0	6.000	0	1870	40	1.5
50038.8	10000	41.8961	92.8240	-816	QL	2.1	-1	7.0	0	1.1	-1	0.303	-1	1.963	-1	6.487	0	1846	61	1.5
50038.7	10000	41.8967	92.8239	-816	QL	2.0	-1	6.8	-1	1.1	-1	0.299	-1	1.920	-1	6.417	0	1822	47	1.5
50038.6	10000	41.8972	92.8239	-816	QL	2.1	-1	7.1	0	1.1	-1	0.301	-1	2.010	0	6.687	1	1846	44	1.5
50038.5	10000	41.8978	92.8239	-815	QL	1.9	-1	7.5	0	1.1	-1	0.260	-1	1.731	-1	6.667	1	1859	33	1.5
50038.4	10000	41.8984	92.8239	-816	QL	2.0	-1	7.3	0	1.1	0	0.276	-1	1.777	-1	6.430	0	1885	48	1.5
50038.3	10000	41.8989	92.8239	-816	QL	2.1	-1	7.3	0	1.2	0	0.282	-1	1.780	-1	6.305	0	1905	40	1.5
50038.2	10000	41.8995	92.8238	-816	QL	2.0	-1	7.3	0	1.2	0	0.269	-1	1.648	-1	6.129	0	1918	43	1.5
50038.1	10000	41.9000	92.8238	-817	QL	2.1	-1	7.1	0	1.3	1	0.298	-1	1.680	-1	5.642	-1	1930	41	1.5
50037.9	10000	41.9012	92.8238	-817	QL	2.1	-1	7.3	0	1.2	0	0.286	-1	1.680	-1	5.865	-1	1931	50	1.5
50037.8	10000	41.9017	92.8238	-818	QL	2.0	-1	7.0	0	1.2	0	0.280	-1	1.614	-1	5.761	-1	1914	49	1.5
50037.7	10000	41.9023	92.8237	-815	QL	2.1	-1	6.5	-1	1.2	0	0.322	-1	1.771	-1	5.506	-1	1887	33	1.5
50037.6	10000	41.9028	92.8237	-819	QL	2.4	-1	6.4	-1	1.2	0	0.369	0	2.027	0	5.498	-1	1870	45	1.5
50037.5	10000	41.9034	92.8237	-819	QL	2.4	0	6.6	-1	1.2	0	0.360	0	2.047	0	5.683	-1	1840	47	1.5

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50037.4	10000	41.9040	92.8237	-819	QL	2.5	0	6.6	-1	1.1	-1	0.379	0	2.290	0	6.036	0	1826	54	1.5
50037.3	10000	41.9045	92.8237	-820	QL	2.7	0	6.8	-1	1.0	-2	0.401	1	2.668	1	6.649	1	1794	35	1.5
50037.2	10000	41.9051	92.8236	-822	QL	2.8	1	6.7	-1	1.0	-1	0.419	1	2.690	1	6.414	0	1788	37	1.5
50037.1	10000	41.9056	92.8236	-824	QL	2.9	1	7.0	0	1.1	-1	0.410	1	2.708	1	6.602	1	1782	58	1.5
50037.0	10000	41.9062	92.8236	-825	QL	2.8	0	7.2	0	1.1	-1	0.385	0	2.630	1	6.840	1	1799	46	1.5
50036.9	10000	41.9067	92.8236	-826	QL	2.5	0	7.4	0	1.1	-1	0.336	0	2.375	0	7.067	1	1797	38	1.5
50036.8	10000	41.9073	92.8236	-827	QL	2.7	0	7.4	0	1.0	-2	0.361	0	2.580	1	7.138	2	1806	39	1.5
50036.7	10000	41.9079	92.8235	-831	QL	2.6	0	7.5	0	1.0	-1	0.352	0	2.521	1	7.172	2	1812	48	1.5
50036.6	10000	41.9084	92.8235	-829	QL	2.2	-1	7.7	1	1.0	-1	0.293	-1	2.154	0	7.362	2	1845	45	1.5
50036.5	10000	41.9090	92.8235	-830	QL	2.1	-1	8.1	1	1.1	-1	0.262	-1	1.949	-1	7.445	2	1863	53	1.5
50036.4	10000	41.9096	92.8235	-831	QL	2.1	-1	8.1	1	1.1	-1	0.258	-1	1.853	-1	7.192	2	1885	38	1.5
50036.3	10000	41.9101	92.8235	-831	QL	1.9	-2	7.9	1	1.2	0	0.239	-2	1.631	-1	6.811	1	1897	57	1.5
50036.2	10000	41.9107	92.8234	-833	QL	2.0	-1	7.6	1	1.2	0	0.268	-1	1.735	-1	6.465	0	1899	51	1.5
50036.1	10000	41.9112	92.8234	-833	QL	1.7	-2	7.4	0	1.2	0	0.231	-2	1.409	-2	6.096	0	1892	38	1.5
50036.0	10000	41.9118	92.8234	-832	QL	1.8	-2	7.1	0	1.2	1	0.248	-2	1.408	-2	5.682	-1	1888	43	1.5
50035.9	10000	41.9123	92.8234	-831	QL	1.9	-2	6.5	-1	1.3	1	0.291	-1	1.479	-2	5.082	-2	1869	46	1.5
50035.8	10000	41.9129	92.8234	-834	QL	2.3	-1	6.2	-2	1.2	1	0.366	0	1.850	-1	5.054	-2	1863	41	1.5
50035.7	10000	41.9135	92.8233	-838	QL	2.4	0	6.1	-2	1.2	0	0.392	0	2.018	0	5.143	-2	1847	51	1.5
50035.6	10000	41.9140	92.8233	-840	QL	2.3	-1	6.7	-1	1.2	0	0.351	0	1.969	-1	5.615	-1	1833	39	1.5
50035.5	10000	41.9146	92.8233	-841	QL	2.4	0	7.1	0	1.2	0	0.341	0	2.025	0	5.931	0	1844	44	1.5
50035.4	10000	41.9151	92.8233	-841	QL	2.6	0	7.3	0	1.2	0	0.349	0	2.200	0	6.300	0	1857	51	1.5
50035.3	10000	41.9157	92.8233	-841	QL	2.3	-1	7.6	0	1.2	0	0.304	-1	1.997	-1	6.570	1	1858	43	1.5
50035.2	10000	41.9163	92.8232	-842	QL	2.3	-1	7.8	1	1.2	0	0.298	-1	1.989	-1	6.664	1	1859	43	1.5
50035.1	10000	41.9168	92.8232	-842	QL	2.1	-1	7.8	1	1.2	0	0.272	-1	1.764	-1	6.493	0	1857	39	1.5
50035.0	10000	41.9174	92.8232	-844	QL	2.0	-1	7.7	1	1.2	0	0.261	-1	1.653	-1	6.332	0	1863	40	1.5
50034.9	10000	41.9179	92.8232	-847	QL	2.2	-1	7.1	0	1.2	0	0.310	-1	1.875	-1	6.040	0	1855	45	1.5
50034.8	10000	41.9185	92.8232	-849	QL	2.1	-1	6.7	-1	1.2	0	0.314	-1	1.766	-1	5.627	-1	1849	32	1.5
50034.7	10000	41.9190	92.8231	-849	QL	2.3	-1	6.7	-1	1.2	0	0.346	0	1.897	-1	5.477	-1	1855	36	1.5
50034.6	10000	41.9196	92.8231	-850	QL	2.5	-1	7.1	0	1.2	0	0.352	0	2.036	0	5.785	-1	1874	42	1.5
50034.5	10000	41.9202	92.8231	-849	QL	2.3	-1	7.2	0	1.2	0	0.317	-1	1.878	-1	5.922	0	1896	45	1.5
50034.4	10000	41.9207	92.8231	-849	QL	2.2	-1	7.0	0	1.2	0	0.319	-1	1.802	-1	5.658	-1	1902	46	1.5
50034.3	10000	41.9213	92.8231	-850	QL	2.2	-1	7.5	0	1.3	0	0.295	-1	1.682	-1	5.701	-1	1918	37	1.5
50034.2	10000	41.9219	92.8230	-852	QL	2.0	-1	7.7	1	1.4	0	0.265	-1	1.447	-2	5.470	-1	1931	46	1.5
50034.1	10000	41.9224	92.8230	-853	QK	1.9	-1	8.0	1	1.4	0	0.244	-1	1.356	-2	5.558	-1	1938	45	1.5
50034.0	10000	41.9230	92.8230	-853	QK	1.8	-2	8.0	1	1.4	0	0.220	-2	1.263	-2	5.741	-1	1937	32	1.5
50033.9	10000	41.9235	92.8230	-854	QK	1.9	-1	7.5	0	1.4	1	0.251	-1	1.332	-2	5.298	-2	1942	34	1.5
50033.8	10000	41.9241	92.8230	-853	QK	2.2	-1	7.2	0	1.4	1	0.298	-1	1.513	-2	5.076	-2	1942	47	1.5
50033.7	10000	41.9247	92.8229	-855	QK	2.2	-1	7.1	0	1.4	1	0.313	-1	1.658	-1	5.294	-2	1938	57	1.5
50033.6	10000	41.9252	92.8229	-857	QK	2.2	-1	6.7	-1	1.3	1	0.326	0	1.720	-1	5.269	-2	1935	52	1.5
50033.5	10000	41.9258	92.8229	-855	QK	2.3	-1	6.9	0	1.3	1	0.335	0	1.810	-1	5.408	-2	1945	50	1.5
50033.4	10000	41.9263	92.8229	-856	QK	2.3	-1	7.0	0	1.3	1	0.327	0	1.812	-1	5.543	-1	1949	40	1.5
50033.3	10000	41.9269	92.8229	-856	QK	2.4	0	6.9	-1	1.3	1	0.350	0	1.862	-1	5.313	-2	1960	41	1.5
50033.2	10000	41.9274	92.8228	-857	QK	2.6	0	6.7	-1	1.3	1	0.381	0	1.986	-1	5.208	-2	1955	38	1.5
50033.1	10000	41.9280	92.8228	-857	QK	2.3	-1	6.6	-1	1.3	1	0.353	0	1.862	-1	5.275	-2	1951	54	1.5
50033.0	10000	41.9286	92.8228	-856	QK	2.4	0	6.7	-1	1.3	1	0.354	0	1.886	-1	5.320	-2	1954	47	1.5
50032.9	10000	41.9291	92.8228	-856	QK	2.6	0	6.7	0	1.3	1	0.390	0	2.048	0	5.246	-2	1950	45	1.5
50032.8	10000	41.9297	92.8228	-856	QK	2.6	0	6.8	0	1.3	1	0.378	0	2.084	0	5.508	-1	1952	45	1.5
50032.7	10000	41.9302	92.8227	-857	QK	2.6	0	6.6	0	1.3	1	0.386	0	2.180	0	5.653	-1	1943	45	1.5
50032.6	10000	41.9308	92.8227	-858	QK	2.6	0	6.6	0	1.3	1	0.388	0	2.186	0	5.633	-1	1928	50	1.5
50032.5	10000	41.9314	92.8227	-858	QK	2.4	0	7.0	0	1.2	0	0.340	0	2.057	0	6.057	-1	1909	44	1.5
50032.4	10000	41.9319	92.8227	-858	QK	2.6	0	7.1	0	1.2	0	0.372	0	2.288	0	6.147	0	1899	36	1.5
50032.3	10000	41.9325	92.8227	-859	QK	2.3	-1	7.2	0	1.1	0	0.314	-1	1.988	-1	6.322	0	1868	53	1.5

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50032.2	10000	41.9330	92.8226	-858	QK	2.1	-1	7.3	0	1.1	0	0.286	-1	1.912	-1	6.679	0	1852	44	1.5
50032.1	10000	41.9336	92.8226	-858	QK	1.9	-1	7.1	0	1.1	0	0.274	-1	1.752	-1	6.393	0	1836	46	1.5
50032.0	10000	41.9342	92.8226	-858	QK	1.7	-2	7.3	0	1.1	0	0.234	-2	1.510	-2	6.450	0	1834	52	1.5
50031.9	10000	41.9347	92.8226	-859	QK	1.7	-2	7.7	1	1.2	1	0.221	-2	1.432	-2	6.475	0	1844	49	1.5
50031.8	10000	41.9353	92.8226	-860	QL	1.5	-2	7.6	0	1.2	0	0.198	-2	1.250	-2	6.323	0	1840	48	1.5
50031.7	10000	41.9358	92.8226	-863	QL	1.3	-3	7.6	1	1.2	0	0.168	-3	1.069	-3	6.350	0	1839	40	1.5
50031.6	10000	41.9364	92.8226	-859	QL	1.4	-3	7.5	0	1.2	0	0.188	-2	1.175	-2	6.262	0	1857	45	1.5
50031.5	10000	41.9369	92.8226	-859	QL	1.5	-2	7.5	0	1.2	0	0.201	-2	1.248	-2	6.194	0	1867	43	1.5
50031.4	10000	41.9375	92.8225	-859	QL	1.7	-2	7.3	0	1.2	0	0.237	-2	1.492	-2	6.300	0	1863	39	1.5
50031.3	10000	41.9380	92.8225	-859	QL	2.2	-1	6.9	-1	1.1	0	0.313	-1	1.888	-1	6.039	0	1866	48	1.5
50031.2	10000	41.9386	92.8225	-858	QL	1.9	-1	6.3	-1	1.1	-1	0.307	-1	1.749	-1	5.696	-1	1845	40	1.5
50031.1	10000	41.9392	92.8225	-856	QL	2.2	-1	6.2	-2	1.1	-1	0.362	0	2.036	0	5.626	-1	1855	39	1.5
50031.0	10000	41.9397	92.8225	-856	QL	2.4	0	6.2	-2	1.1	-1	0.385	0	2.148	0	5.583	-1	1859	48	1.5
50030.9	10000	41.9403	92.8225	-858	QL	2.6	0	6.0	-2	1.2	0	0.436	1	2.261	0	5.185	-2	1873	41	1.5
50030.8	10000	41.9408	92.8225	-860	QL	2.7	0	6.1	-2	1.2	0	0.448	1	2.295	0	5.128	-2	1879	47	1.5
50030.7	10000	41.9414	92.8225	-860	QL	2.8	1	6.2	-2	1.2	1	0.458	1	2.285	0	4.988	-2	1892	42	1.5
50030.6	10000	41.9419	92.8225	-861	QL	2.7	0	6.5	-1	1.2	1	0.417	1	2.187	0	5.245	-2	1900	44	1.5
50030.5	10000	41.9425	92.8225	-861	QL	2.6	0	7.0	0	1.2	0	0.377	0	2.197	0	5.834	-1	1907	40	1.5
50030.4	10000	41.9431	92.8224	-861	QL	2.5	0	7.1	0	1.2	0	0.361	0	2.131	0	5.807	-1	1916	43	1.5
50030.3	10000	41.9436	92.8224	-861	QL	2.5	0	6.9	0	1.2	0	0.360	0	2.107	0	5.851	-1	1910	46	1.5
50030.2	10000	41.9442	92.8224	-862	QL	2.3	-1	7.2	0	1.2	0	0.321	-1	1.941	-1	6.042	0	1925	37	1.5
50030.1	10000	41.9447	92.8224	-862	QL	2.0	-1	7.3	0	1.2	0	0.277	-1	1.712	-1	6.185	0	1925	46	1.5
50030.0	10000	41.9453	92.8224	-861	QL	2.0	-1	7.6	1	1.2	0	0.264	-1	1.700	-1	6.426	0	1930	41	1.5
50029.9	10000	41.9458	92.8224	-861	QL	2.1	-1	7.4	0	1.2	0	0.281	-1	1.775	-1	6.317	0	1921	49	1.5
50029.8	10000	41.9464	92.8224	-860	QL	2.3	-1	7.4	0	1.2	0	0.310	-1	1.932	-1	6.241	0	1911	42	1.5
50029.7	10000	41.9470	92.8224	-860	QL	2.3	-1	7.2	0	1.2	0	0.319	-1	1.948	-1	6.115	0	1886	48	1.5
50029.6	10000	41.9475	92.8224	-861	QL	2.4	0	7.5	0	1.2	0	0.328	0	2.079	0	6.339	0	1886	42	1.5
50029.5	10000	41.9481	92.8224	-861	QL	2.4	0	7.6	1	1.2	0	0.321	-1	2.095	0	6.527	1	1867	50	1.5
50029.4	10000	41.9486	92.8224	-860	QL	2.7	0	7.3	0	1.2	0	0.368	-1	2.295	0	6.242	0	1859	42	1.5
50029.3	10000	41.9492	92.8224	-860	QL	2.7	0	6.9	0	1.2	0	0.394	0	2.378	0	6.033	0	1844	40	1.5
50029.2	10000	41.9497	92.8223	-860	QL	2.6	0	6.9	0	1.2	0	0.379	-1	2.271	0	5.989	0	1842	46	1.5
50029.1	10000	41.9503	92.8223	-860	QL	2.6	0	6.7	-1	1.2	0	0.386	0	2.242	0	5.805	-1	1850	50	1.5
50029.0	10000	41.9509	92.8223	-860	QL	2.5	0	7.3	0	1.2	0	0.348	0	2.157	0	6.202	0	1855	39	1.5
50028.9	10000	41.9514	92.8223	-861	QL	2.4	-1	7.0	0	1.2	0	0.336	-1	1.957	-1	5.826	-1	1861	40	1.5
50028.8	10000	41.9520	92.8223	-860	QL	2.3	-1	6.7	-1	1.2	0	0.341	-1	1.945	-1	5.698	-1	1851	46	1.5
50028.7	10000	41.9525	92.8223	-859	QL	2.0	-1	6.7	-1	1.2	0	0.297	-1	1.717	-1	5.777	-1	1842	56	1.5
50028.6	10000	41.9531	92.8223	-857	QL	1.9	-1	7.1	0	1.2	0	0.271	-1	1.649	-1	6.091	0	1842	40	1.5
50028.5	10000	41.9536	92.8223	-857	QL	1.9	-2	6.9	-1	1.2	0	0.272	-1	1.656	-1	6.085	0	1847	36	1.4
50028.4	10000	41.9542	92.8223	-859	QL	2.0	-1	7.1	0	1.2	0	0.283	-1	1.732	-1	6.122	0	1857	50	1.4
50028.3	10000	41.9548	92.8223	-860	QL	2.0	-1	6.7	-1	1.2	0	0.299	-1	1.701	-1	5.692	-1	1874	52	1.4
50028.2	10000	41.9553	92.8223	-859	QL	2.2	-1	7.0	0	1.2	0	0.315	-1	1.827	-1	5.808	-1	1882	38	1.4
50028.1	10000	41.9559	92.8222	-859	QL	2.4	0	7.1	0	1.2	0	0.345	0	2.008	0	5.819	-1	1898	45	1.4
50028.0	10000	41.9564	92.8222	-859	QL	2.6	0	7.0	0	1.2	0	0.378	0	2.124	0	5.615	-1	1920	45	1.4
50027.9	10000	41.9570	92.8222	-854	QL	2.4	0	7.0	0	1.2	0	0.346	-1	1.874	-1	5.418	-1	1928	40	1.4
50027.8	10000	41.9575	92.8222	-857	QL	2.4	0	7.5	0	1.2	0	0.328	0	1.850	-1	5.646	-1	1930	38	1.4
50027.7	10000	41.9581	92.8222	-856	QL	2.3	-1	7.7	0	1.2	0	0.297	-1	1.710	-1	5.764	-1	1924	32	1.4
50027.6	10000	41.9586	92.8222	-856	QL	2.2	-1	7.8	1	1.2	0	0.279	-1	1.694	-1	6.063	0	1918	43	1.4
50027.5	10000	41.9592	92.8222	-857	QL	1.9	-1	7.9	1	1.3	1	0.246	-2	1.540	-2	6.260	0	1887	36	1.4
50027.4	10000	41.9598	92.8222	-856	QL	1.9	-1	7.5	1	1.3	1	0.258	-1	1.544	-2	5.991	0	1858	41	1.4
50027.3	10000	41.9603	92.8222	-856	QL	2.0	-1	7.6	1	1.2	1	0.258	-1	1.708	-1	6.608	1	1821	42	1.4
50027.2	10000	41.9609	92.8222	-856	QL	2.2	-1	7.4	0	1.1	1	0.303	-1	2.063	0	6.817	1	1786	38	1.4
50027.1	10000	41.9614	92.8221	-855	QL	2.1	-1	7.1	0	1.1	-1	0.300	-1	2.011	0	6.700	1	1760	41	1.4

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50027.0	10000	41.9620	92.8221	-854	QL	2.2	-1	6.8	-1	1.0	-2	0.318	-1	2.103	0	6.611	1	1740	50	1.4
50026.9	10000	41.9625	92.8221	-852	QL	2.3	-1	6.3	-2	1.0	-2	0.364	0	2.300	0	6.320	0	1731	45	1.4
50026.8	10000	41.9631	92.8221	-849	QL	2.3	-1	6.1	-2	0.9	-2	0.374	0	2.420	0	6.468	0	1734	48	1.4
50026.7	10000	41.9637	92.8221	-850	QL	2.2	-1	6.9	-1	1.0	-2	0.322	-1	2.252	0	6.999	1	1748	40	1.4
50026.6	10000	41.9642	92.8221	-851	QL	2.1	-1	6.8	-1	1.0	-2	0.318	-1	2.092	0	6.588	1	1770	23	1.4
50026.5	10000	41.9648	92.8221	-851	QL	2.1	-1	6.8	-1	1.0	-1	0.302	-1	1.966	-1	6.512	1	1789	44	1.4
50026.4	10000	41.9653	92.8221	-849	QL	2.4	0	6.9	-1	1.0	-2	0.344	0	2.316	0	6.740	1	1803	43	1.4
50026.3	10000	41.9659	92.8221	-848	QL	2.4	0	6.6	-1	1.0	-2	0.364	0	2.373	0	6.522	1	1800	38	1.4
50026.2	10000	41.9664	92.8221	-847	QL	2.3	-1	7.2	0	1.0	-2	0.322	-1	2.288	0	7.104	2	1801	48	1.4
50026.1	10000	41.9670	92.8221	-846	QL	2.4	0	7.6	1	1.1	-1	0.321	-1	2.278	0	7.104	2	1818	38	1.4
50026.0	10000	41.9676	92.8220	-841	QL	2.4	0	7.3	0	1.1	-1	0.330	0	2.208	0	6.689	1	1822	44	1.4
50025.9	10000	41.9681	92.8220	-840	QL	2.4	0	7.6	1	1.1	-1	0.315	-1	2.202	0	6.981	1	1822	43	1.4
50025.8	10000	41.9687	92.8220	-841	QL	2.4	0	8.0	1	1.1	-1	0.304	-1	2.212	0	7.280	2	1833	54	1.4
50025.7	10000	41.9692	92.8220	-840	QL	2.3	-1	8.1	1	1.1	-1	0.291	-1	2.104	0	7.242	2	1825	55	1.4
50025.6	10000	41.9698	92.8220	-839	QL	2.3	-1	8.5	2	1.1	-1	0.274	-1	2.120	0	7.747	3	1843	47	1.4
50025.5	10000	41.9703	92.8220	-838	QL	2.5	0	8.2	1	1.0	-1	0.299	-1	2.340	0	7.838	3	1852	31	1.4
50025.4	10000	41.9709	92.8220	-835	QL	2.5	0	7.8	1	1.1	-1	0.318	-1	2.272	0	7.134	2	1870	44	1.4
50025.3	10000	41.9715	92.8220	-833	QL	2.6	0	7.8	1	1.0	-2	0.337	0	2.564	1	7.607	2	1874	44	1.4
50025.2	10000	41.9720	92.8220	-830	QL	2.6	0	7.5	0	1.1	-1	0.348	0	2.429	1	6.985	1	1865	38	1.4
50025.1	10000	41.9726	92.8220	-825	QL	2.6	0	7.0	0	1.1	-1	0.366	0	2.414	1	6.602	1	1874	36	1.4
50025.0	10000	41.9731	92.8219	-823	QL	2.4	0	6.6	-1	1.1	-1	0.367	0	2.244	0	6.111	0	1885	49	1.4
50024.9	10000	41.9737	92.8219	-819	QL	2.3	-1	6.4	-1	1.1	-1	0.364	0	2.108	0	5.795	-1	1869	31	1.4
50024.8	10000	41.9742	92.8219	-815	QL	2.3	-1	6.1	-2	1.1	-1	0.375	0	2.029	0	5.415	-1	1841	43	1.4
50024.7	10000	41.9748	92.8219	-810	QL	2.2	-1	6.2	-2	1.0	-1	0.354	0	2.090	0	5.907	0	1805	40	1.4
50024.6	10000	41.9753	92.8219	-804	QL	2.2	-1	6.2	-2	1.1	-1	0.347	0	1.972	-1	5.687	-1	1784	43	1.4
50024.5	10000	41.9759	92.8219	-800	QL	2.3	-1	6.2	-2	1.0	-2	0.366	0	2.211	0	6.043	0	1778	44	1.4
50024.4	10000	41.9765	92.8219	-800	QL	2.4	-1	6.4	-1	1.0	-2	0.367	0	2.376	0	6.484	0	1750	46	1.5
50024.3	10000	41.9770	92.8219	-806	QL	2.2	-1	6.3	-1	1.0	-2	0.341	0	2.184	0	6.412	0	1723	38	1.5
50024.2	10000	41.9776	92.8219	-805	QL	2.3	-1	6.5	-1	1.0	-2	0.350	0	2.352	0	6.723	1	1732	51	1.5
50024.1	10000	41.9781	92.8219	-803	QL	2.3	-1	6.6	-1	0.9	-2	0.341	0	2.390	0	7.011	1	1746	43	1.5
50024.0	10000	41.9787	92.8219	-799	QL	2.1	-1	6.1	-2	1.0	-2	0.348	0	2.219	0	6.374	0	1745	42	1.5
50023.9	10000	41.9792	92.8218	-798	QL	1.9	-2	6.1	-2	1.0	-2	0.312	-1	1.918	-1	6.146	0	1759	39	1.5
50023.8	10000	41.9798	92.8218	-798	QL	2.0	-1	6.3	-1	1.1	-1	0.319	-1	1.899	-1	5.952	0	1782	38	1.5
50023.7	10000	41.9804	92.8218	-797	QL	2.1	-1	6.4	-1	1.1	-1	0.320	-1	1.881	-1	5.871	-1	1800	57	1.5
50023.6	10000	41.9809	92.8218	-795	QL	2.0	-1	6.7	-1	1.1	-1	0.301	-1	1.851	-1	6.152	0	1817	37	1.5
50023.5	10000	41.9815	92.8218	-793	QL	1.9	-1	6.5	-1	1.1	-1	0.298	-1	1.798	-1	6.040	0	1805	44	1.5
50023.4	10000	41.9820	92.8218	-789	QL	1.9	-2	6.7	-1	1.1	-1	0.282	-1	1.709	-1	6.064	0	1805	35	1.5
50023.3	10000	41.9826	92.8218	-783	QL	2.0	-1	7.2	0	1.1	-1	0.279	-1	1.774	-1	6.359	0	1814	43	1.5
50023.2	10000	41.9831	92.8218	-779	QL	2.2	-1	6.9	-1	1.1	-1	0.315	-1	1.970	-1	6.255	0	1808	50	1.5
50023.1	10000	41.9837	92.8218	-779	QL	1.9	-1	6.7	-1	1.1	-1	0.288	-1	1.793	-1	6.223	0	1794	41	1.5
50023.0	10000	41.9843	92.8218	-779	QL	1.8	-2	6.6	-1	1.1	-1	0.276	-1	1.621	-1	5.864	-1	1786	39	1.5
50022.9	10000	41.9848	92.8217	-777	QL	2.1	-1	6.8	-1	1.1	0	0.317	-1	1.893	-1	5.980	0	1783	41	1.5
50022.8	10000	41.9854	92.8217	-775	QL	2.2	-1	7.0	0	1.2	0	0.309	-1	1.844	-1	5.963	0	1795	40	1.5
50022.7	10000	41.9859	92.8217	-772	QL	2.2	-1	6.7	-1	1.2	0	0.323	-1	1.846	-1	5.722	-1	1802	39	1.5
50022.6	10000	41.9865	92.8217	-768	QL	2.3	-1	6.6	-1	1.1	0	0.351	0	2.016	0	5.746	-1	1810	46	1.6
50022.5	10000	41.9870	92.8217	-765	QL	2.3	-1	6.6	-1	1.1	-1	0.347	0	2.045	0	5.890	-1	1800	45	1.6
50022.4	10000	41.9876	92.8217	-761	QL	2.3	-1	6.7	-1	1.2	0	0.346	0	1.985	-1	5.742	-1	1809	44	1.6
50022.3	10000	41.9881	92.8217	-757	QL	2.3	-1	6.7	-1	1.2	0	0.346	0	2.026	0	5.859	-1	1824	54	1.6
50022.2	10000	41.9887	92.8217	-757	QL	2.2	-1	6.5	-1	1.2	0	0.345	0	1.873	-1	5.429	-1	1847	34	1.6
50022.1	10000	41.9893	92.8217	-756	QK	2.2	-1	6.2	-1	1.2	1	0.351	0	1.804	-1	5.146	-2	1845	50	1.6
50022.0	10000	41.9898	92.8217	-754	QK	2.0	-1	6.4	-1	1.2	1	0.307	-1	1.627	-1	5.301	-2	1846	42	1.6
50021.9	10000	41.9904	92.8217	-750	QK	1.8	-2	6.8	-1	1.3	1	0.265	-1	1.429	-2	5.400	-2	1843	54	1.6

LINE 1100 DATA ACQUIRED 80331 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
50021.8	10000	41.9909	92.8217	-746	QK	1.8	-2	6.9	0	1.3	1	0.253	-1	1.358	-2	5.368	-2	1873	46	1.6
50021.7	10000	41.9915	92.8216	-741	QK	1.7	-2	6.9	0	1.2	1	0.252	-1	1.425	-2	5.654	-1	1855	40	1.6
50021.6	10000	41.9920	92.8216	-736	QK	1.9	-1	6.8	-1	1.2	1	0.277	-1	1.545	-2	5.572	-1	1847	32	1.6
50021.5	10000	41.9926	92.8216	-736	QK	2.0	-1	6.9	0	1.2	1	0.295	-1	1.689	-1	5.732	-1	1855	52	1.6
50021.4	10000	41.9932	92.8216	-736	QK	2.1	-1	7.2	0	1.2	1	0.299	-1	1.815	-1	6.077	-1	1863	37	1.6
50021.3	10000	41.9937	92.8216	-734	QK	2.4	0	6.9	0	1.2	1	0.342	0	1.948	-1	5.693	-1	1880	49	1.7
50021.2	10000	41.9943	92.8216	-730	QK	2.3	0	6.7	-1	1.2	1	0.347	0	1.935	-1	5.575	-1	1897	60	1.7
50021.1	10000	41.9948	92.8216	-727	QK	2.1	-1	6.7	-1	1.1	0	0.318	0	1.870	-1	5.873	-1	1879	38	1.7
50021.0	10000	41.9954	92.8216	-724	QK	2.0	-1	6.8	-1	1.2	0	0.298	-1	1.724	-1	5.788	-1	1904	40	1.7
50020.9	10000	41.9959	92.8216	-721	QK	1.9	-1	7.0	0	1.2	1	0.276	-1	1.610	-1	5.845	-1	1914	42	1.7
50020.8	10000	41.9965	92.8215	-718	QK	1.7	-2	7.0	0	1.2	1	0.241	-2	1.423	-2	5.904	-1	1907	47	1.7
50020.7	10000	41.9970	92.8215	-715	QK	1.7	-2	7.2	0	1.2	1	0.234	-2	1.383	-2	5.911	-1	1932	32	1.7
50020.6	10000	41.9976	92.8215	-712	QK	1.6	-2	7.5	0	1.3	1	0.218	-2	1.315	-2	6.022	-1	1943	46	1.7
50020.5	10000	41.9982	92.8215	-709	QK	2.0	-1	7.6	0	1.3	1	0.261	-1	1.554	-2	5.953	-1	1955	45	1.7
50020.4	10000	41.9987	92.8215	-706	QK	2.1	-1	7.8	1	1.3	1	0.266	-1	1.621	-1	6.103	-1	1967	56	1.7
50020.3	10000	41.9993	92.8215	-702	QK	2.1	-1	8.0	1	1.3	1	0.265	-1	1.679	-1	6.344	0	1964	45	1.7
50020.2	10000	41.9998	92.8215	-700	QK	1.9	-1	8.0	1	1.2	1	0.241	-2	1.607	-1	6.656	0	1960	51	1.7
50020.1	10000	42.0004	92.8215	-697	QK	2.0	-1	8.3	1	1.2	1	0.237	-2	1.666	-1	7.019	1	1954	37	1.7

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47632.6	10000	41.0041	92.4853	-898	QK	2.2	-1	6.0	-2	0.8	-3	0.367	0	2.846	1	7.746	2	1572	42	0.7
47632.5	10000	41.0048	92.4853	-894	QK	2.2	-1	6.0	-2	0.8	-3	0.359	0	2.707	1	7.536	1	1576	26	0.7
47632.4	10000	41.0054	92.4853	-890	QK	2.3	-1	5.8	-2	0.8	-3	0.388	1	2.827	1	7.278	1	1584	35	0.7
47632.3	10000	41.0060	92.4853	-885	QK	2.3	-1	5.8	-2	0.8	-3	0.387	1	2.778	1	7.173	1	1595	40	0.7
47632.2	10000	41.0066	92.4854	-881	QK	2.5	0	5.8	-2	0.9	-2	0.434	1	2.791	1	6.431	0	1625	43	0.7
47632.1	10000	41.0072	92.4854	-876	QK	2.3	-1	5.9	-2	1.0	-1	0.379	0	2.366	0	6.237	0	1642	35	0.6
47632.0	10000	41.0078	92.4854	-871	QK	2.1	-1	5.8	-2	1.0	-1	0.354	0	2.083	0	5.891	-1	1657	37	0.6
47631.9	10000	41.0084	92.4854	-866	QK	2.2	-1	6.0	-2	1.0	-1	0.363	0	2.221	0	6.126	-1	1671	49	0.6
47631.8	10000	41.0090	92.4854	-861	QK	2.3	0	5.9	-2	1.0	-1	0.390	1	2.340	0	6.000	-1	1663	48	0.6
47631.7	10000	41.0096	92.4855	-856	QK	2.2	-1	6.4	-1	1.0	-1	0.349	0	2.226	0	6.373	0	1675	42	0.6
47631.6	10000	41.0103	92.4855	-851	QK	2.5	0	6.2	-1	1.0	-1	0.399	1	2.509	1	6.289	0	1681	46	0.6
47631.5	10000	41.0109	92.4855	-846	QK	2.3	0	6.7	-1	1.0	-1	0.345	0	2.441	0	7.086	1	1681	41	0.6
47631.4	10000	41.0115	92.4855	-841	QK	2.6	0	7.1	0	1.0	-1	0.361	0	2.640	1	7.308	1	1695	48	0.6
47631.3	10000	41.0121	92.4855	-837	QK	3.0	1	7.2	0	1.0	-1	0.410	1	2.893	1	7.050	1	1723	51	0.6
47631.2	10000	41.0127	92.4856	-834	QK	3.2	1	6.7	-1	1.0	-1	0.474	2	3.102	2	6.548	0	1745	37	0.6
47631.1	10000	41.0133	92.4856	-831	QK	2.8	1	6.8	-1	1.0	-1	0.411	1	2.717	1	6.607	0	1772	39	0.6
47631.0	10000	41.0139	92.4856	-828	QK	3.1	1	6.6	-1	1.0	-1	0.471	2	3.112	2	6.611	0	1767	43	0.6
47630.9	10000	41.0145	92.4856	-824	QK	3.0	1	7.0	0	1.0	-1	0.429	1	3.011	2	7.015	1	1752	50	0.6
47630.8	10000	41.0152	92.4856	-819	QK	2.9	1	6.6	-1	1.0	-1	0.435	1	2.810	1	6.462	0	1731	46	0.6
47630.7	10000	41.0158	92.4857	-814	QK	2.9	1	6.2	-1	1.0	-1	0.459	2	2.823	1	6.146	0	1719	38	0.6
47630.6	10000	41.0164	92.4857	-809	QK	2.5	0	6.2	-1	1.0	-1	0.400	1	2.584	1	6.454	0	1686	44	0.6
47630.5	10000	41.0170	92.4857	-804	QK	2.2	-1	6.3	-1	1.0	-1	0.344	0	2.198	0	6.397	0	1656	44	0.6
47630.4	10000	41.0176	92.4857	-800	QK	2.3	0	6.4	-1	1.0	-1	0.369	0	2.390	0	6.475	0	1638	38	0.6
47630.3	10000	41.0182	92.4857	-795	QK	2.0	-1	6.2	-1	1.0	-1	0.319	0	1.953	-1	6.115	-1	1630	48	0.6
47630.2	10000	41.0188	92.4858	-791	QK	1.6	-2	6.2	-1	1.0	-1	0.263	-1	1.572	-1	5.985	-1	1625	40	0.6
47630.1	10000	41.0194	92.4858	-786	QK	1.8	-1	6.5	-1	1.0	-1	0.281	-1	1.809	-1	6.433	0	1648	37	0.6
47630.0	10000	41.0201	92.4858	-782	QK	2.0	-1	6.7	-1	1.0	-1	0.305	-1	2.003	-1	6.562	0	1665	45	0.6
47629.9	10000	41.0207	92.4858	-777	QK	2.2	-1	6.4	-1	1.0	-1	0.348	0	2.203	0	6.337	0	1684	30	0.6
47629.8	10000	41.0213	92.4859	-772	QK	2.5	0	6.7	-1	1.0	-1	0.364	0	2.457	0	6.744	0	1707	38	0.6
47629.7	10000	41.0219	92.4859	-767	QK	2.7	0	6.9	0	1.0	-1	0.395	1	2.873	1	7.270	1	1718	51	0.6
47629.6	10000	41.0225	92.4859	-763	QK	2.8	0	6.9	-1	0.9	-2	0.402	1	3.085	2	7.668	2	1711	46	0.6
47629.5	10000	41.0231	92.4859	-759	QK	3.2	1	6.8	-1	0.9	-2	0.467	2	3.661	3	7.843	2	1732	43	0.6
47629.4	10000	41.0237	92.4859	-755	QK	3.1	1	6.5	-1	0.9	-2	0.479	2	3.498	3	7.303	1	1714	34	0.6
47629.3	10000	41.0243	92.4860	-751	QK	3.1	1	6.4	-1	0.8	-3	0.481	2	3.804	3	7.913	2	1698	48	0.6
47629.2	10000	41.0249	92.4860	-747	QK	3.3	2	6.8	-1	0.8	-3	0.477	2	4.039	4	8.471	3	1687	33	0.6
47629.1	10000	41.0256	92.4860	-744	QK	3.3	2	6.9	0	0.8	-3	0.482	2	4.320	4	8.971	4	1694	47	0.6
47629.0	10000	41.0262	92.4860	-741	QK	3.1	1	7.0	0	0.8	-2	0.449	1	3.776	3	8.411	3	1706	41	0.6
47628.9	10000	41.0268	92.4861	-736	QK	3.1	1	7.5	0	0.9	-2	0.422	1	3.498	3	8.298	3	1725	41	0.6
47628.8	10000	41.0274	92.4861	-732	QK	3.2	1	7.7	1	1.0	-1	0.414	1	3.219	2	7.783	2	1759	37	0.6
47628.7	10000	41.0280	92.4861	-728	QK	3.3	2	8.0	1	1.0	-1	0.417	1	3.351	2	8.040	2	1795	35	0.6
47628.6	10000	41.0286	92.4861	-724	QK	3.2	2	8.0	1	1.0	-1	0.401	1	3.140	2	7.834	2	1817	38	0.6
47628.5	10000	41.0292	92.4861	-720	QK	3.3	2	8.0	1	1.0	-1	0.406	1	3.135	2	7.717	2	1827	36	0.6
47628.4	10000	41.0298	92.4862	-717	QK	3.2	2	8.0	1	1.0	-1	0.399	1	3.046	2	7.640	2	1827	48	0.6
47628.3	10000	41.0304	92.4862	-714	QK	3.3	2	7.4	0	1.0	-1	0.447	1	3.309	2	7.410	1	1820	46	0.6
47628.2	10000	41.0311	92.4862	-712	QK	3.3	2	7.4	0	1.0	-1	0.447	1	3.450	2	7.726	2	1816	49	0.6
47628.1	10000	41.0317	92.4862	-709	QK	3.2	2	7.1	0	0.9	-2	0.452	1	3.684	3	8.152	2	1785	37	0.6
47628.0	10000	41.0323	92.4863	-707	QK	3.2	1	6.8	-1	0.9	-2	0.477	2	3.771	3	7.901	2	1763	38	0.7
47627.9	10000	41.0329	92.4863	-705	QK	3.3	2	6.7	-1	0.9	-2	0.516	2	3.985	3	7.719	2	1752	48	0.7
47627.8	10000	41.0335	92.4863	-702	QK	3.3	2	6.3	-1	0.9	-2	0.522	2	3.885	3	7.445	1	1746	35	0.7
47627.7	10000	41.0341	92.4863	-701	QK	3.2	1	6.3	-1	0.9	-2	0.504	2	3.547	3	7.036	1	1744	40	0.7
47627.6	10000	41.0347	92.4863	-698	QK	3.2	1	6.5	-1	0.9	-2	0.485	2	3.437	2	7.091	1	1748	46	0.7
47627.5	10000	41.0353	92.4864	-697	QK	3.1	1	6.3	-1	1.0	-1	0.498	2	3.167	2	6.363	0	1753	34	0.7

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47627.4	10000	41.0360	92.4864	-696	QK	3.2	1	6.5	-1	1.0	-1	0.488	2	3.127	2	6.404	0	1739	32	0.7
47627.3	10000	41.0366	92.4864	-694	QK	3.0	1	6.5	-1	1.0	-1	0.461	2	3.001	2	6.504	0	1729	30	0.7
47627.2	10000	41.0372	92.4864	-693	QK	2.8	1	6.3	-1	1.0	-1	0.449	1	2.945	1	6.557	0	1725	48	0.7
47627.1	10000	41.0378	92.4864	-692	QK	2.8	1	6.3	-1	0.9	-2	0.441	1	2.984	2	6.764	0	1720	49	0.7
47627.0	10000	41.0384	92.4865	-691	QK	2.9	1	6.2	-1	0.9	-2	0.468	2	3.204	2	6.844	1	1699	40	0.7
47626.9	10000	41.0390	92.4865	-689	QK	2.6	0	6.4	-1	0.9	-2	0.408	1	2.929	1	7.173	1	1694	36	0.8
47626.8	10000	41.0396	92.4865	-688	QK	2.7	0	6.8	-1	0.9	-2	0.400	1	3.113	2	7.782	2	1706	42	0.8
47626.7	10000	41.0402	92.4865	-686	QK	2.6	0	6.9	0	0.9	-2	0.373	0	2.866	1	7.690	2	1716	43	0.8
47626.6	10000	41.0409	92.4865	-686	QK	2.6	0	7.2	0	0.9	-2	0.360	0	2.891	1	8.022	2	1735	42	0.8
47626.5	10000	41.0415	92.4866	-686	QK	2.4	0	7.4	0	1.0	-1	0.318	0	2.465	0	7.748	2	1754	50	0.8
47626.4	10000	41.0421	92.4866	-685	QK	2.2	-1	7.6	0	1.0	-1	0.284	-1	2.226	0	7.835	2	1763	38	0.8
47626.3	10000	41.0427	92.4866	-684	QK	1.9	-1	7.5	0	1.1	-1	0.257	-1	1.820	-1	7.075	1	1782	41	0.8
47626.2	10000	41.0433	92.4866	-683	QK	2.0	-1	7.7	1	1.1	-1	0.263	-1	1.923	-1	7.303	1	1767	39	0.8
47626.1	10000	41.0439	92.4866	-682	QK	2.0	-1	7.3	0	1.0	-1	0.270	-1	1.988	-1	7.372	1	1730	40	0.8
47626.0	10000	41.0445	92.4867	-681	QK	1.8	-1	6.8	-1	1.0	-1	0.270	-1	1.892	-1	7.003	1	1703	41	0.8
47625.9	10000	41.0451	92.4867	-681	QK	1.9	-1	6.5	-1	1.0	-1	0.288	-1	1.951	-1	6.778	0	1686	63	0.9
47625.8	10000	41.0457	92.4867	-680	QK	2.0	-1	6.4	-1	0.9	-2	0.320	0	2.183	0	6.818	0	1661	36	0.9
47625.7	10000	41.0464	92.4867	-678	QK	2.1	-1	5.9	-2	0.9	-2	0.361	0	2.277	0	6.301	0	1639	33	0.9
47625.6	10000	41.0470	92.4868	-677	QK	2.2	-1	5.9	-2	0.8	-3	0.376	0	2.716	1	7.221	1	1621	45	0.9
47625.5	10000	41.0476	92.4868	-676	QK	2.2	-1	5.6	-2	0.8	-3	0.399	1	2.754	1	6.903	1	1633	34	0.9
47625.4	10000	41.0482	92.4868	-674	QK	2.3	0	5.6	-2	0.9	-2	0.413	1	2.690	1	6.514	0	1660	29	0.9
47625.3	10000	41.0488	92.4868	-672	QK	2.5	0	5.8	-2	0.9	-2	0.430	1	2.709	1	6.307	0	1699	36	0.9
47625.2	10000	41.0494	92.4868	-671	QK	2.5	0	5.7	-2	0.9	-2	0.438	1	2.668	1	6.090	-1	1726	44	0.9
47625.1	10000	41.0500	92.4869	-669	QK	2.5	0	5.4	-2	0.9	-2	0.459	1	2.737	1	5.962	-1	1731	39	0.9
47625.0	10000	41.0506	92.4869	-666	QK	2.8	1	6.1	-2	0.9	-2	0.452	1	3.032	2	6.705	0	1754	46	0.9
47624.9	10000	41.0513	92.4869	-664	QK	3.0	1	6.4	-1	0.9	-2	0.467	2	3.180	2	6.802	0	1757	49	0.9
47624.8	10000	41.0519	92.4869	-662	QK	3.2	2	6.2	-1	0.9	-2	0.523	2	3.572	3	6.824	0	1765	33	1.0
47624.7	10000	41.0525	92.4870	-660	QK	3.1	2	6.0	-2	0.9	-2	0.511	2	3.313	3	6.487	0	1764	47	1.0
47624.6	10000	41.0531	92.4870	-659	QK	3.4	2	6.2	-1	0.9	-2	0.546	2	3.718	3	6.810	0	1767	44	1.0
47624.5	10000	41.0537	92.4870	-658	QK	3.4	2	6.2	-1	0.9	-2	0.552	2	3.664	3	6.632	0	1770	34	1.0
47624.4	10000	41.0543	92.4870	-657	QK	3.4	2	6.5	-1	1.0	-1	0.529	2	3.452	3	6.521	0	1821	41	1.0
47624.3	10000	41.0549	92.4870	-656	QK	3.6	2	6.5	-1	1.1	-1	0.549	2	3.396	2	6.184	0	1874	39	1.0
47624.2	10000	41.0555	92.4871	-656	QK	3.7	2	6.4	-1	1.1	0	0.576	2	3.251	2	5.644	-1	1945	42	1.0
47624.1	10000	41.0562	92.4871	-655	QAL	3.5	2	6.8	0	1.2	1	0.520	2	2.939	2	5.651	-1	1995	48	1.0
47624.0	10000	41.0568	92.4871	-657	QAL	3.9	3	7.0	0	1.2	1	0.565	2	3.242	2	5.741	0	2046	48	1.0
47623.9	10000	41.0574	92.4871	-657	QAL	4.0	3	6.6	0	1.2	1	0.597	2	3.430	2	5.743	0	2052	46	1.0
47623.8	10000	41.0580	92.4871	-655	QAL	4.1	3	7.0	0	1.2	1	0.587	2	3.550	2	6.049	0	2034	41	1.0
47623.7	10000	41.0586	92.4872	-650	QAL	4.0	3	6.8	0	1.1	0	0.587	2	3.792	3	6.456	0	1936	39	1.1
47623.6	10000	41.0592	92.4872	-646	QAL	3.8	2	6.3	0	1.0	-1	0.600	3	3.968	4	6.615	1	1823	42	1.1
47623.5	10000	41.0598	92.4872	-643	QAL	3.6	2	5.7	-1	0.8	-2	0.642	3	4.627	5	7.211	1	1678	43	1.1
47623.4	10000	41.0604	92.4872	-641	QAL	3.4	2	4.9	-2	0.7	-3	0.689	4	4.934	5	7.157	1	1524	44	1.1
47623.3	10000	41.0610	92.4873	-639	QAL	3.1	2	4.7	-2	0.6	-3	0.663	3	5.285	5	7.968	2	1400	35	1.1
47623.2	10000	41.0617	92.4873	-637	QAL	2.6	1	4.6	-2	0.6	-3	0.560	2	4.265	4	7.621	2	1340	43	1.1
47623.1	10000	41.0623	92.4873	-637	QAL	2.2	0	4.7	-2	0.6	-3	0.477	1	3.790	3	7.947	2	1333	33	1.1
47623.0	10000	41.0629	92.4873	-635	WATER	2.2	999	4.8	999	0.7	999	0.456	999	3.329	999	7.294	999	1377	48	1.1
47622.9	10000	41.0635	92.4873	-634	WATER	2.3	999	4.8	999	0.7	999	0.471	999	3.337	999	7.077	999	1420	42	1.1
47622.8	10000	41.0641	92.4874	-634	WATER	2.2	999	5.0	999	0.8	999	0.434	999	2.796	999	6.448	999	1496	43	1.1
47622.7	10000	41.0647	92.4874	-635	WATER	2.4	999	5.2	999	0.9	999	0.455	999	2.777	999	6.103	999	1593	46	1.1
47622.6	10000	41.0653	92.4874	-635	QAL	2.6	0	5.2	-1	0.9	-1	0.495	1	2.809	1	5.670	-1	1661	48	1.1
47622.5	10000	41.0659	92.4874	-634	QAL	2.8	1	5.8	-1	1.0	0	0.479	1	2.705	1	5.652	-1	1719	48	1.1
47622.4	10000	41.0666	92.4874	-634	QAL	2.9	1	5.4	-1	1.1	0	0.542	2	2.717	1	5.017	-1	1748	42	1.1
47622.3	10000	41.0672	92.4875	-634	QAL	3.1	1	5.4	-1	1.1	0	0.568	2	2.868	1	5.046	-1	1766	51	1.1

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47622.2	10000	41.0678	92.4875	-633	QAL	3.0	1	5.7	-1	1.2	1	0.528	2	2.607	1	4.936	-2	1804	43	1.1
47622.1	10000	41.0684	92.4875	-634	QAL	3.2	1	5.7	-1	1.2	1	0.569	2	2.731	1	4.798	-2	1826	50	1.1
47622.0	10000	41.0690	92.4875	-634	QAL	3.4	2	5.8	-1	1.2	1	0.595	2	2.930	1	4.921	-2	1846	39	1.1
47621.9	10000	41.0696	92.4875	-635	QAL	3.1	2	5.9	-1	1.2	1	0.520	2	2.502	0	4.811	-2	1855	45	1.1
47621.8	10000	41.0702	92.4875	-636	QAL	3.3	2	5.4	-1	1.2	1	0.611	3	2.868	1	4.691	-2	1866	49	1.1
47621.7	10000	41.0708	92.4875	-637	QAL	3.4	2	5.7	-1	1.1	0	0.601	3	3.055	1	5.085	-1	1872	48	1.1
47621.6	10000	41.0714	92.4875	-638	QAL	3.5	2	5.4	-1	1.1	1	0.645	3	3.043	1	4.721	-2	1891	57	1.1
47621.5	10000	41.0721	92.4875	-638	QAL	3.5	2	5.4	-1	1.2	1	0.649	3	2.998	1	4.622	-2	1907	39	1.2
47621.4	10000	41.0727	92.4875	-639	QAL	3.3	2	5.8	-1	1.2	1	0.567	2	2.727	1	4.807	-2	1939	32	1.2
47621.3	10000	41.0733	92.4875	-640	QAL	3.1	2	6.0	-1	1.3	1	0.522	2	2.510	0	4.810	-2	1958	37	1.2
47621.2	10000	41.0739	92.4874	-640	QAL	3.4	2	6.3	0	1.2	1	0.540	2	2.811	1	5.209	-1	1989	32	1.2
47621.1	10000	41.0745	92.4874	-641	QAL	3.1	1	6.4	0	1.2	1	0.484	1	2.526	0	5.220	-1	1984	40	1.2
47621.0	10000	41.0751	92.4874	-642	QAL	3.3	1	6.7	0	1.3	1	0.488	1	2.589	0	5.301	-1	1992	38	1.2
47620.9	10000	41.0757	92.4874	-644	QAL	2.9	1	7.1	1	1.2	1	0.410	1	2.385	0	5.818	0	1983	43	1.2
47620.8	10000	41.0763	92.4874	-645	QAL	3.0	1	7.4	1	1.2	1	0.403	1	2.494	0	6.192	0	1967	38	1.2
47620.7	10000	41.0769	92.4874	-646	QAL	3.0	1	7.4	1	1.1	0	0.403	1	2.614	0	6.486	0	1945	44	1.2
47620.6	10000	41.0776	92.4874	-647	QAL	2.8	1	7.3	1	1.1	0	0.384	0	2.472	0	6.445	0	1940	37	1.2
47620.5	10000	41.0782	92.4874	-648	QAL	3.0	1	7.4	1	1.2	1	0.400	0	2.492	0	6.227	0	1946	32	1.2
47620.4	10000	41.0788	92.4874	-649	QAL	3.0	1	7.6	1	1.2	1	0.398	0	2.459	0	6.172	0	1968	57	1.2
47620.3	10000	41.0794	92.4874	-650	QK	2.7	0	7.1	0	1.2	1	0.380	0	2.188	0	5.760	-1	1978	31	1.2
47620.2	10000	41.0800	92.4874	-651	QK	2.9	1	7.2	0	1.3	1	0.406	1	2.270	0	5.597	-1	1986	29	1.2
47620.1	10000	41.0806	92.4874	-652	QK	2.8	1	7.2	0	1.3	1	0.385	0	2.173	0	5.651	-1	1998	36	1.2
47620.0	10000	41.0812	92.4874	-653	QK	2.5	0	7.7	1	1.3	1	0.330	0	2.021	-1	6.117	-1	2002	44	1.2
47619.9	10000	41.0818	92.4874	-655	QK	2.6	0	7.8	1	1.3	1	0.337	0	2.086	-1	6.185	0	2012	43	1.2
47619.8	10000	41.0824	92.4874	-656	QK	2.5	0	8.0	1	1.2	1	0.306	-1	2.020	-1	6.599	0	2013	45	1.2
47619.7	10000	41.0830	92.4873	-658	QK	2.4	0	8.2	1	1.1	0	0.294	-1	2.122	0	7.230	1	2020	55	1.2
47619.6	10000	41.0837	92.4873	-660	QK	2.5	0	8.5	2	1.1	0	0.289	-1	2.227	0	7.712	2	2020	36	1.1
47619.5	10000	41.0843	92.4873	-661	QK	2.7	0	8.6	2	1.0	-1	0.317	-1	2.591	0	8.171	2	2027	55	1.1
47619.4	10000	41.0849	92.4873	-663	QK	2.9	1	8.6	2	1.0	-1	0.341	0	2.869	1	8.419	3	2025	38	1.1
47619.3	10000	41.0855	92.4873	-664	QK	3.3	2	8.4	2	1.0	-1	0.398	1	3.434	1	8.632	3	2028	48	1.1
47619.2	10000	41.0861	92.4873	-664	QK	3.6	2	8.5	2	1.0	-1	0.424	1	3.784	2	8.929	3	2024	41	1.1
47619.1	10000	41.0867	92.4873	-666	QK	3.6	2	8.2	1	0.9	-2	0.435	1	3.902	2	8.971	4	2010	33	1.1
47619.0	10000	41.0873	92.4873	-667	QK	3.6	2	8.1	1	0.9	-2	0.449	1	3.934	3	8.760	3	1996	46	1.1
47618.9	10000	41.0879	92.4873	-667	QK	3.9	2	7.8	1	0.9	-2	0.498	2	4.354	3	8.746	3	1987	34	1.1
47618.8	10000	41.0885	92.4873	-667	QK	3.7	2	7.4	1	0.9	-2	0.501	2	4.031	2	8.041	2	1984	33	1.1
47618.7	10000	41.0891	92.4873	-668	QK	3.9	2	7.2	0	1.0	-1	0.537	3	4.092	2	7.623	2	1988	53	1.1
47618.6	10000	41.0898	92.4873	-668	QK	4.0	2	6.8	-1	1.0	-1	0.589	3	4.009	2	6.811	0	1994	30	1.1
47618.5	10000	41.0904	92.4873	-668	QK	4.1	2	6.5	-1	1.0	-1	0.634	4	4.147	2	6.543	0	1996	43	1.1
47618.4	10000	41.0910	92.4872	-668	QK	4.2	3	6.6	-1	1.1	0	0.632	4	3.889	2	6.153	0	2013	42	1.1
47618.3	10000	41.0916	92.4872	-668	QK	4.3	3	6.2	-1	1.1	1	0.706	5	3.866	3	5.480	-1	2008	55	1.1
47618.2	10000	41.0922	92.4872	-667	QK	4.3	3	6.2	-1	1.2	1	0.684	5	3.585	3	5.244	-2	2001	44	1.1
47618.1	10000	41.0928	92.4872	-666	QK	4.0	3	6.2	-1	1.2	1	0.637	4	3.275	3	5.145	-2	1985	32	1.1
47618.0	10000	41.0934	92.4872	-666	QK	3.5	3	6.4	-1	1.2	1	0.552	3	2.893	2	5.243	-2	1975	36	1.1
47617.9	10000	41.0940	92.4872	-665	QK	3.1	2	6.6	-1	1.2	1	0.472	2	2.577	1	5.461	-1	1959	40	1.1
47617.8	10000	41.0946	92.4872	-663	QK	2.8	2	7.2	0	1.2	1	0.385	1	2.228	1	5.793	-1	1945	31	1.1
47617.7	10000	41.0953	92.4872	-662	QK	2.6	2	7.2	0	1.3	1	0.363	0	2.090	0	5.755	-1	1927	53	1.1
47617.6	10000	41.0959	92.4872	-664	QK	2.3	1	7.6	1	1.2	1	0.300	-1	1.876	-1	6.253	0	1919	41	1.1
47617.5	10000	41.0965	92.4872	-663	QK	2.1	1	7.9	1	1.2	1	0.261	-1	1.723	-1	6.604	0	1912	35	1.1
47617.4	10000	41.0971	92.4872	-662	QK	2.3	1	8.1	1	1.2	1	0.282	-1	1.994	-1	7.068	1	1920	42	1.0
47617.3	10000	41.0977	92.4872	-661	QK	2.2	1	8.2	1	1.1	1	0.268	-1	1.954	-1	7.297	1	1903	47	1.0
47617.2	10000	41.0983	92.4872	-660	QK	2.6	1	8.2	1	1.1	1	0.324	0	2.381	0	7.339	1	1904	46	1.0
47617.1	10000	41.0989	92.4872	-660	QK	2.6	0	8.0	1	1.1	0	0.324	0	2.400	0	7.415	1	1895	49	1.0

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47617.0	10000	41.0995	92.4872	-658	QK	2.8	1	7.8	1	1.0	-1	0.365	0	2.720	1	7.449	1	1890	45	1.0
47616.9	10000	41.1001	92.4871	-657	QK	3.1	1	7.7	1	1.0	-1	0.409	1	2.990	1	7.313	1	1892	40	1.0
47616.8	10000	41.1008	92.4871	-657	QK	3.3	2	7.5	0	1.0	-1	0.443	1	3.338	2	7.540	2	1886	44	1.0
47616.7	10000	41.1014	92.4871	-656	QK	3.3	2	7.4	0	1.0	-1	0.448	1	3.310	2	7.395	1	1877	40	1.0
47616.6	10000	41.1020	92.4871	-655	QK	3.5	2	7.1	0	1.0	-1	0.491	2	3.518	3	7.162	1	1876	47	1.0
47616.5	10000	41.1026	92.4871	-654	QK	2.9	1	7.3	0	1.0	-1	0.391	1	2.826	1	7.232	1	1875	40	1.0
47616.4	10000	41.1032	92.4871	-653	QK	2.9	1	7.4	0	1.1	-1	0.394	1	2.763	1	7.017	1	1872	35	1.0
47616.3	10000	41.1038	92.4871	-652	QK	2.7	1	7.6	0	1.0	-1	0.361	0	2.653	1	7.346	1	1873	41	1.0
47616.2	10000	41.1044	92.4871	-651	QK	2.6	0	7.7	0	1.1	-1	0.332	0	2.437	0	7.345	1	1877	53	1.0
47616.1	10000	41.1050	92.4871	-649	QK	2.5	0	7.5	0	1.1	0	0.340	0	2.381	0	7.014	1	1878	32	1.0
47616.0	10000	41.1057	92.4871	-647	QK	2.5	0	7.9	1	1.2	0	0.323	0	2.189	0	6.781	0	1885	48	0.9
47615.9	10000	41.1062	92.4871	-649	QK	2.4	0	7.7	1	1.2	0	0.310	-1	2.044	0	6.589	0	1887	41	0.9
47615.8	10000	41.1069	92.4871	-650	QK	2.4	0	7.8	1	1.2	0	0.309	-1	2.057	0	6.665	0	1883	39	0.9
47615.7	10000	41.1075	92.4871	-650	QK	2.5	0	7.6	1	1.2	0	0.333	0	2.162	0	6.484	0	1873	40	0.9
47615.6	10000	41.1081	92.4870	-648	QK	2.6	0	7.3	0	1.2	0	0.350	0	2.184	0	6.245	0	1858	34	0.9
47615.5	10000	41.1087	92.4870	-647	QK	2.5	0	7.3	0	1.2	0	0.341	0	2.132	0	6.260	0	1828	36	0.9
47615.4	10000	41.1093	92.4870	-647	QK	2.3	0	7.6	1	1.2	1	0.307	-1	1.937	-1	6.316	0	1837	35	0.9
47615.3	10000	41.1099	92.4870	-646	QK	2.4	0	7.5	0	1.1	0	0.314	-1	2.136	0	6.802	0	1836	43	0.9
47615.2	10000	41.1105	92.4870	-645	QK	2.6	0	7.4	0	1.1	0	0.355	0	2.356	0	6.642	0	1846	37	0.9
47615.1	10000	41.1111	92.4870	-644	QK	2.7	0	7.3	0	1.1	0	0.367	0	2.449	0	6.668	0	1839	38	0.9
47615.0	10000	41.1117	92.4870	-644	QK	2.7	0	7.2	0	1.1	0	0.378	0	2.551	1	6.757	0	1875	36	0.9
47614.9	10000	41.1124	92.4870	-643	QK	3.0	1	7.6	0	1.1	0	0.400	1	2.799	1	6.992	1	1912	41	0.9
47614.8	10000	41.1130	92.4870	-642	QK	3.3	2	7.3	0	1.1	-1	0.446	1	3.103	2	6.965	1	1949	35	0.9
47614.7	10000	41.1136	92.4870	-642	QK	3.5	2	7.3	0	1.0	-1	0.481	2	3.403	2	7.076	1	1949	43	0.8
47614.6	10000	41.1142	92.4870	-640	QK	3.2	2	7.5	0	1.1	-1	0.435	1	3.070	2	7.053	1	1945	50	0.8
47614.5	10000	41.1148	92.4870	-639	QK	3.0	2	7.5	0	1.1	-1	0.374	1	2.825	2	7.545	1	1954	35	0.8
47614.4	10000	41.1154	92.4870	-638	QK	3.3	2	7.8	1	1.1	0	0.425	1	2.811	2	6.620	0	1987	53	0.8
47614.3	10000	41.1160	92.4870	-637	QK	3.0	2	7.8	1	1.1	0	0.386	1	2.484	2	6.438	0	1979	28	0.8
47614.2	10000	41.1166	92.4870	-635	QK	2.7	1	7.8	1	1.1	0	0.347	1	2.132	2	6.136	0	1970	28	0.8
47614.1	10000	41.1172	92.4869	-634	QK	2.6	1	7.7	1	1.2	0	0.335	1	2.074	2	6.189	0	1963	38	0.8
47614.0	10000	41.1179	92.4869	-633	QK	2.3	1	7.8	1	1.2	0	0.292	0	1.837	1	6.286	0	1961	53	0.8
47613.9	10000	41.1185	92.4869	-632	QK	2.4	1	7.7	1	1.2	0	0.317	1	1.920	1	6.058	-1	1977	49	0.8
47613.8	10000	41.1191	92.4869	-630	QK	2.6	1	7.8	1	1.3	0	0.340	1	2.037	1	5.998	-1	1989	55	0.8
47613.7	10000	41.1197	92.4869	-629	QK	2.5	1	7.8	1	1.2	0	0.312	0	2.083	0	6.669	0	1975	41	0.8
47613.6	10000	41.1203	92.4869	-628	QK	2.6	1	7.8	1	1.2	0	0.315	0	2.136	0	6.770	0	1961	50	0.8
47613.5	10000	41.1209	92.4869	-627	QK	2.7	1	8.1	1	1.3	0	0.330	0	2.316	0	7.017	1	1971	44	0.8
47613.4	10000	41.1215	92.4869	-626	QK	2.8	1	8.1	1	1.2	0	0.331	0	2.344	0	7.077	1	1960	44	0.8
47613.3	10000	41.1221	92.4869	-625	QK	2.9	1	8.3	1	1.2	0	0.352	0	2.419	0	6.872	0	1958	35	0.7
47613.2	10000	41.1227	92.4869	-624	QK	2.8	1	8.3	1	1.2	0	0.357	0	2.286	0	6.401	0	1933	45	0.7
47613.1	10000	41.1233	92.4869	-623	QK	2.6	1	8.3	1	1.2	0	0.339	0	2.191	0	6.462	0	1901	39	0.7
47613.0	10000	41.1240	92.4869	-622	QK	2.4	1	8.0	1	1.2	0	0.323	0	1.954	-1	6.039	-1	1886	55	0.7
47612.9	10000	41.1246	92.4869	-621	QK	2.4	1	7.7	1	1.2	0	0.348	-1	2.021	-1	5.809	-1	1857	43	0.7
47612.8	10000	41.1252	92.4868	-619	QK	2.2	1	7.9	1	1.2	0	0.323	-1	1.805	-1	5.591	-1	1827	33	0.7
47612.7	10000	41.1258	92.4868	-617	QK	2.1	1	7.0	1	1.2	0	0.296	-1	1.691	-1	5.709	-1	1825	23	0.7
47612.6	10000	41.1264	92.4868	-616	QK	2.2	0	6.7	1	1.2	0	0.324	-1	1.838	-1	5.679	-1	1806	36	0.7
47612.5	10000	41.1270	92.4868	-618	QK	2.5	0	6.7	1	1.1	0	0.374	0	2.229	0	5.956	-1	1805	41	0.7
47612.4	10000	41.1276	92.4868	-621	QK	2.6	0	6.6	1	1.1	0	0.390	0	2.362	0	6.061	-1	1791	47	0.7
47612.3	10000	41.1282	92.4868	-621	QK	2.8	0	6.5	1	1.1	0	0.439	0	2.581	0	5.874	-1	1797	40	0.7
47612.2	10000	41.1289	92.4868	-619	QK	2.9	0	6.7	1	1.1	0	0.449	0	2.721	0	6.061	-1	1806	48	0.7
47612.1	10000	41.1294	92.4868	-618	QK	3.1	0	6.8	1	1.1	0	0.456	0	2.885	0	6.326	0	1813	50	0.7
47612.0	10000	41.1301	92.4868	-617	QK	3.2	0	6.8	1	1.1	0	0.460	0	2.914	0	6.334	0	1821	51	0.7
47611.9	10000	41.1307	92.4868	-616	QK	2.9	0	7.0	0	1.1	0	0.415	0	2.544	1	6.134	0	1846	38	0.7

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47611.8	10000	41.1313	92.4868	-614	QK	2.6	0	7.3	0	1.1	0	0.353	0	2.238	0	6.334	0	1844	40	0.7
47611.7	10000	41.1319	92.4868	-612	QK	2.7	0	7.3	0	1.2	0	0.374	0	2.334	0	6.244	0	1863	51	0.7
47611.6	10000	41.1325	92.4868	-610	QK	2.7	0	7.6	0	1.2	0	0.350	0	2.275	0	6.505	0	1872	34	0.7
47611.5	10000	41.1331	92.4868	-608	QK	2.6	0	8.0	1	1.2	0	0.319	0	2.112	0	6.616	0	1890	46	0.7
47611.4	10000	41.1337	92.4868	-605	QK	2.6	0	8.1	0	1.2	0	0.325	0	2.271	0	6.990	1	1892	33	0.7
47611.3	10000	41.1343	92.4867	-602	QK	2.8	1	7.6	0	1.2	0	0.369	0	2.424	0	6.577	0	1875	37	0.7
47611.2	10000	41.1350	92.4867	-598	QK	2.9	1	7.9	0	1.1	0	0.372	0	2.683	1	7.221	1	1859	44	0.7
47611.1	10000	41.1356	92.4867	-593	QK	2.8	1	7.7	0	1.1	0	0.368	0	2.603	1	7.080	1	1852	41	0.7
47611.0	10000	41.1362	92.4867	-591	QK	2.6	1	7.9	1	1.1	0	0.324	0	2.316	1	7.138	1	1847	39	0.7
47610.9	10000	41.1368	92.4867	-590	QK	2.4	0	8.0	0	1.1	0	0.304	-1	2.218	0	7.287	1	1831	31	0.7
47610.8	10000	41.1374	92.4867	-587	QK	2.6	-1	8.2	1	1.0	-1	0.319	0	2.507	1	7.862	2	1829	35	0.7
47610.7	10000	41.1380	92.4867	-583	QK	2.4	0	7.9	1	1.1	0	0.305	-1	2.217	0	7.261	1	1819	41	0.7
47610.6	10000	41.1386	92.4867	-579	QK	2.2	-1	8.1	1	1.1	0	0.266	-1	2.002	-1	7.513	1	1831	41	0.7
47610.5	10000	41.1392	92.4867	-576	QK	2.4	0	7.5	1	1.1	0	0.315	-1	2.164	0	6.880	1	1822	39	0.7
47610.4	10000	41.1398	92.4867	-572	QK	2.6	1	7.2	0	1.1	0	0.363	0	2.406	0	6.632	0	1821	48	0.7
47610.3	10000	41.1405	92.4867	-570	QK	2.8	1	6.9	-1	1.0	-1	0.402	1	2.676	1	6.666	0	1818	44	0.7
47610.2	10000	41.1411	92.4867	-567	QK	3.0	1	6.8	-1	1.0	-1	0.434	1	2.941	1	6.770	0	1827	50	0.7
47610.1	10000	41.1417	92.4867	-564	QK	2.9	1	6.3	-1	1.0	-1	0.462	2	2.753	1	5.958	-1	1817	48	0.7
47610.0	10000	41.1423	92.4866	-560	QK	3.2	1	6.5	-1	1.0	-1	0.486	2	3.153	2	6.487	0	1811	41	0.7
47609.9	10000	41.1429	92.4866	-557	QK	3.1	1	6.7	-1	1.0	-1	0.464	2	3.157	2	6.800	0	1793	35	0.7
47609.8	10000	41.1435	92.4866	-554	QK	2.7	0	7.5	1	1.0	-1	0.361	0	2.667	1	7.392	1	1799	30	0.7
47609.7	10000	41.1441	92.4866	-554	QK	2.5	0	7.7	1	1.1	0	0.329	0	2.373	1	7.215	1	1811	42	0.7
47609.6	10000	41.1447	92.4866	-553	QK	2.4	0	8.2	1	1.1	0	0.289	-1	2.090	0	7.220	1	1816	47	0.7
47609.5	10000	41.1453	92.4866	-552	QK	2.2	-1	8.2	1	1.2	0	0.265	-1	1.843	-1	6.963	1	1812	39	0.7
47609.4	10000	41.1460	92.4866	-550	QK	2.0	-1	8.3	1	1.2	0	0.238	-2	1.661	-1	6.981	1	1813	46	0.7
47609.3	10000	41.1466	92.4866	-549	QK	1.8	-1	7.9	1	1.2	0	0.233	-2	1.486	-2	6.389	0	1816	27	0.7
47609.2	10000	41.1472	92.4866	-548	QK	2.0	-1	7.7	1	1.2	0	0.266	-1	1.634	-1	6.145	0	1826	46	0.7
47609.1	10000	41.1478	92.4866	-547	QK	2.1	-1	7.2	0	1.2	0	0.290	-1	1.715	-1	5.908	-1	1812	42	0.7
47609.0	10000	41.1484	92.4866	-546	QK	2.2	-1	7.1	0	1.2	1	0.303	-1	1.786	-1	5.899	-1	1808	47	0.7
47608.9	10000	41.1490	92.4866	-545	QK	2.3	0	6.6	-1	1.2	1	0.348	0	1.909	-1	5.486	-1	1799	34	0.7
47608.8	10000	41.1496	92.4866	-545	QK	2.5	0	6.3	-1	1.1	1	0.392	1	2.178	0	5.549	-1	1794	43	0.7
47608.7	10000	41.1502	92.4866	-545	QK	2.6	0	6.7	-1	1.1	1	0.387	1	2.346	0	6.060	-1	1781	48	0.7
47608.6	10000	41.1508	92.4866	-545	QK	2.5	0	6.7	-1	1.1	1	0.377	0	2.283	0	6.055	-1	1784	43	0.7
47608.5	10000	41.1514	92.4865	-545	QK	2.4	0	6.6	-1	1.1	0	0.365	0	2.164	0	5.923	-1	1775	34	0.7
47608.4	10000	41.1521	92.4865	-545	QK	2.5	0	6.6	-1	1.2	0	0.383	0	2.195	0	5.739	-1	1781	30	0.7
47608.3	10000	41.1527	92.4865	-545	QK	2.4	0	7.0	0	1.1	0	0.346	0	2.145	0	6.196	0	1775	39	0.8
47608.2	10000	41.1533	92.4865	-545	QK	2.3	0	7.4	0	1.1	0	0.316	0	2.117	0	6.699	0	1771	38	0.8
47608.1	10000	41.1539	92.4865	-545	QK	2.2	-1	7.5	0	1.1	0	0.293	-1	1.949	-1	6.662	0	1764	38	0.8
47608.0	10000	41.1545	92.4865	-546	QK	2.2	-1	7.3	0	1.2	0	0.303	-1	1.897	-1	6.269	0	1767	44	0.8
47607.9	10000	41.1551	92.4865	-545	QK	2.2	-1	7.1	0	1.1	0	0.305	-1	1.996	-1	6.549	0	1751	41	0.8
47607.8	10000	41.1557	92.4865	-546	QK	2.2	-1	7.7	1	1.1	0	0.287	-1	1.994	-1	6.935	1	1769	31	0.8
47607.7	10000	41.1563	92.4865	-546	QK	2.2	-1	7.4	1	1.1	0	0.298	-1	2.064	0	6.914	1	1774	46	0.8
47607.6	10000	41.1569	92.4865	-547	QK	2.2	-1	7.4	1	1.1	-1	0.295	-1	2.054	0	6.971	1	1776	36	0.8
47607.5	10000	41.1575	92.4865	-548	QK	2.0	-1	7.5	1	1.1	0	0.272	-1	1.804	-1	6.620	1	1804	37	0.8
47607.4	10000	41.1581	92.4865	-551	QK	2.1	-1	7.3	1	1.1	0	0.292	-1	1.914	-1	6.552	0	1816	44	0.8
47607.3	10000	41.1587	92.4865	-553	QK	2.2	-1	7.6	1	1.1	0	0.287	-1	1.973	-1	6.880	1	1838	51	0.8
47607.2	10000	41.1593	92.4865	-554	QK	2.3	-1	7.9	1	1.2	0	0.285	-1	1.903	-1	6.678	0	1867	38	0.8
47607.1	10000	41.1599	92.4865	-555	QK	2.1	-1	7.4	1	1.2	0	0.282	-1	1.788	-1	6.333	0	1862	42	0.8
47607.0	10000	41.1605	92.4865	-557	QK	2.1	-1	7.4	1	1.2	0	0.277	-1	1.743	-1	6.293	0	1866	45	0.8
47606.9	10000	41.1611	92.4865	-559	QK	2.2	-1	7.6	1	1.2	0	0.287	-1	1.763	-1	6.139	0	1899	43	0.8
47606.8	10000	41.1617	92.4865	-561	QK	2.5	0	7.3	0	1.2	1	0.340	0	2.054	0	6.043	-1	1899	36	0.8
47606.7	10000	41.1623	92.4865	-563	QK	2.3	0	7.5	0	1.2	1	0.305	-1	1.862	-1	6.098	-1	1909	36	0.8

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47606.6	10000	41.1629	92.4865	-565	QK	2.4	0	7.5	0	1.2	1	0.318	0	1.914	-1	6.023	-1	1914	52	0.8
47606.5	10000	41.1635	92.4865	-568	QK	2.3	0	7.6	1	1.2	1	0.303	-1	1.862	-1	6.155	0	1918	41	0.8
47606.4	10000	41.1641	92.4865	-570	QK	2.3	0	7.8	1	1.2	1	0.299	-1	1.896	-1	6.343	0	1921	45	0.8
47606.3	10000	41.1647	92.4865	-573	QK	2.5	0	8.0	1	1.2	1	0.313	-1	2.040	0	6.518	0	1928	29	0.8
47606.2	10000	41.1653	92.4865	-577	QK	2.6	0	7.5	0	1.2	1	0.344	0	2.098	0	6.092	-1	1914	32	0.8
47606.1	10000	41.1659	92.4865	-580	QK	2.6	0	7.6	0	1.3	1	0.341	0	2.003	-1	5.875	-1	1918	38	0.8
47606.0	10000	41.1665	92.4865	-584	QK	2.8	1	7.4	0	1.3	1	0.377	0	2.185	0	5.800	-1	1912	39	0.8
47605.9	10000	41.1671	92.4865	-587	QK	2.8	1	7.3	0	1.2	1	0.381	0	2.220	0	5.834	-1	1906	37	0.8
47605.8	10000	41.1677	92.4865	-591	QK	2.9	1	7.5	0	1.2	1	0.389	1	2.398	0	6.172	0	1905	45	0.9
47605.7	10000	41.1683	92.4865	-595	QK	3.0	1	7.5	0	1.2	1	0.405	1	2.518	1	6.221	0	1929	39	0.9
47605.6	10000	41.1689	92.4865	-599	QK	2.8	1	8.0	1	1.2	1	0.356	0	2.361	0	6.632	0	1932	45	0.9
47605.5	10000	41.1695	92.4865	-602	QK	2.7	0	8.0	1	1.1	1	0.331	0	2.305	0	6.966	1	1912	40	0.9
47605.4	10000	41.1701	92.4866	-606	QK	2.5	0	7.9	1	1.1	0	0.321	0	2.299	0	7.155	1	1892	51	0.9
47605.3	10000	41.1707	92.4866	-609	QK	2.5	0	8.2	1	1.1	0	0.307	-1	2.255	0	7.354	1	1894	45	0.9
47605.2	10000	41.1713	92.4866	-613	QK	2.5	0	8.2	1	1.2	0	0.305	-1	2.169	0	7.101	1	1902	48	0.9
47605.1	10000	41.1719	92.4866	-616	QK	2.5	0	7.9	1	1.2	1	0.316	0	2.073	0	6.554	0	1898	40	0.9
47605.0	10000	41.1725	92.4866	-618	QK	2.5	0	7.8	1	1.2	1	0.322	0	2.054	0	6.377	0	1882	51	0.9
47604.9	10000	41.1731	92.4866	-621	QK	2.7	0	7.5	1	1.3	1	0.358	0	2.237	0	6.249	0	1864	38	0.9
47604.8	10000	41.1737	92.4866	-623	QK	2.6	0	7.6	1	1.3	2	0.343	0	2.074	0	6.049	-1	1881	42	0.9
47604.7	10000	41.1743	92.4866	-626	QK	2.6	0	8.1	1	1.3	1	0.318	0	1.972	-1	6.204	0	1896	36	0.9
47604.6	10000	41.1749	92.4866	-628	QK	2.5	0	8.0	1	1.3	1	0.310	-1	1.919	-1	6.192	0	1879	44	0.9
47604.5	10000	41.1755	92.4866	-630	QK	2.5	0	7.9	1	1.2	1	0.311	-1	1.986	-1	6.382	0	1866	39	0.9
47604.4	10000	41.1760	92.4866	-631	QK	2.2	-1	8.1	1	1.2	1	0.278	-1	1.871	-1	6.722	0	1844	46	0.9
47604.3	10000	41.1766	92.4866	-631	QK	2.1	-1	8.0	1	1.3	1	0.262	-1	1.729	-1	6.589	0	1828	54	0.9
47604.2	10000	41.1772	92.4866	-632	QK	1.9	-1	7.8	1	1.3	1	0.243	-1	1.519	-2	6.238	0	1832	33	0.9
47604.1	10000	41.1778	92.4866	-633	QK	1.9	-1	8.2	1	1.2	1	0.236	-2	1.612	-1	6.838	1	1818	44	0.9
47604.0	10000	41.1784	92.4866	-635	QK	2.1	-1	7.9	1	1.1	0	0.266	-1	1.882	-1	7.086	1	1786	44	0.9
47603.9	10000	41.1790	92.4866	-635	QK	2.0	-1	7.8	1	1.1	0	0.254	-1	1.787	-1	7.039	1	1771	50	0.9
47603.8	10000	41.1796	92.4866	-636	QK	2.0	-1	7.5	0	1.1	0	0.263	-1	1.713	-1	6.523	0	1756	47	0.9
47603.7	10000	41.1802	92.4866	-637	QK	2.1	-1	7.2	1	1.1	0	0.285	-1	1.786	-1	6.259	0	1761	39	0.9
47603.6	10000	41.1808	92.4866	-638	QK	2.4	0	7.1	1	1.1	0	0.336	0	2.090	0	6.229	0	1767	42	0.8
47603.5	10000	41.1814	92.4866	-638	QK	2.5	0	7.3	1	1.1	0	0.348	0	2.218	0	6.372	0	1773	39	0.8
47603.4	10000	41.1820	92.4866	-638	QK	2.7	0	6.4	1	1.1	0	0.416	0	2.371	0	5.702	-1	1769	44	0.8
47603.3	10000	41.1826	92.4866	-638	QK	2.5	0	6.1	1	1.2	0	0.412	0	2.078	0	5.047	-2	1784	34	0.8
47603.2	10000	41.1832	92.4866	-637	QK	2.8	0	6.3	1	1.3	0	0.446	0	2.222	0	4.979	-2	1813	36	0.8
47603.1	10000	41.1838	92.4866	-638	QK	2.5	0	6.7	1	1.3	0	0.377	-1	1.990	-1	5.278	-2	1833	43	0.8
47603.0	10000	41.1844	92.4866	-640	QK	2.4	0	6.6	1	1.3	0	0.369	-1	1.888	-1	5.117	-2	1846	41	0.8
47602.9	10000	41.1850	92.4866	-640	QK	2.1	-1	6.4	1	1.3	0	0.324	-1	1.672	-1	5.155	-2	1847	28	0.8
47602.8	10000	41.1856	92.4866	-640	QK	2.3	0	6.4	1	1.3	0	0.362	-1	1.854	-1	5.126	-2	1857	34	0.8
47602.7	10000	41.1862	92.4866	-640	QK	2.4	0	7.1	1	1.3	0	0.333	-1	1.844	-1	5.537	-1	1885	49	0.8
47602.6	10000	41.1868	92.4866	-639	QK	2.6	0	7.1	1	1.2	0	0.374	0	2.144	0	5.738	-1	1905	33	0.8
47602.5	10000	41.1874	92.4866	-640	QK	2.4	0	6.9	1	1.2	0	0.350	0	2.061	0	5.888	-1	1900	41	0.8
47602.4	10000	41.1880	92.4866	-640	QK	2.8	0	6.9	1	1.2	0	0.410	0	2.456	0	5.991	-1	1901	48	0.8
47602.3	10000	41.1886	92.4866	-640	QK	3.0	1	7.1	1	1.2	0	0.417	0	2.623	0	6.285	0	1885	40	0.8
47602.2	10000	41.1892	92.4866	-640	QK	3.1	1	7.2	1	1.2	0	0.425	0	2.686	0	6.318	0	1883	32	0.8
47602.1	10000	41.1898	92.4866	-640	QK	2.8	0	7.0	1	1.2	0	0.407	0	2.410	0	5.928	-1	1875	41	0.8
47602.0	10000	41.1904	92.4866	-640	QK	2.9	0	6.7	1	1.2	0	0.437	0	2.508	0	5.741	-1	1867	34	0.8
47601.9	10000	41.1910	92.4866	-640	QK	2.8	0	6.8	1	1.2	0	0.415	0	2.409	0	5.810	-1	1854	40	0.8
47601.8	10000	41.1916	92.4866	-640	QK	2.9	0	7.0	1	1.2	0	0.409	0	2.406	0	5.888	-1	1862	43	0.8
47601.7	10000	41.1922	92.4866	-640	QK	2.6	0	6.7	1	1.2	0	0.392	0	2.147	0	5.480	-1	1858	34	0.8
47601.6	10000	41.1928	92.4866	-639	QK	2.5	0	6.7	1	1.2	0	0.369	0	2.046	0	5.539	-1	1865	43	0.8
47601.5	10000	41.1934	92.4866	-639	QK	2.6	0	6.9	1	1.2	1	0.380	0	2.117	0	5.576	-1	1871	46	0.8

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47601.4	10000	41.1940	92.4867	-638	QK	2.7	0	7.1	0	1.2	1	0.375	0	2.211	0	5.893	-1	1871	40	0.7
47601.3	10000	41.1946	92.4867	-637	QK	2.6	0	6.9	0	1.2	1	0.380	0	2.200	0	5.791	-1	1868	49	0.7
47601.2	10000	41.1952	92.4867	-636	QK	2.5	0	7.1	0	1.2	1	0.358	0	2.162	0	6.037	-1	1863	43	0.7
47601.1	10000	41.1958	92.4867	-634	QK	2.6	0	6.8	-1	1.1	0	0.383	0	2.262	0	5.905	-1	1853	38	0.7
47601.0	10000	41.1964	92.4867	-632	QK	2.8	1	7.4	0	1.2	1	0.374	0	2.393	0	6.398	0	1848	36	0.7
47600.9	10000	41.1970	92.4867	-630	QK	2.7	0	7.4	0	1.2	1	0.363	0	2.231	0	6.150	0	1854	45	0.7
47600.8	10000	41.1976	92.4867	-628	QK	2.4	0	8.0	1	1.2	1	0.301	-1	1.995	-1	6.631	0	1845	42	0.7
47600.7	10000	41.1982	92.4867	-626	QK	2.2	-1	8.0	1	1.2	1	0.280	-1	1.846	-1	6.599	0	1838	46	0.7
47600.6	10000	41.1988	92.4867	-623	QK	2.0	-1	8.6	2	1.2	1	0.232	-2	1.598	-1	6.893	1	1837	35	0.7
47600.5	10000	41.1993	92.4867	-621	QK	2.0	-1	8.4	2	1.3	2	0.240	-2	1.504	-2	6.255	0	1849	55	0.7
47600.4	10000	41.2000	92.4867	-619	QK	1.9	-1	8.5	2	1.3	2	0.220	-2	1.402	-2	6.381	0	1858	43	0.7
47600.3	10000	41.2005	92.4867	-616	QK	1.9	-1	8.0	1	1.3	2	0.236	-2	1.420	-2	6.027	-1	1872	43	0.7
47600.2	10000	41.2011	92.4867	-614	QK	1.8	-1	7.9	1	1.3	2	0.234	-2	1.413	-2	6.042	-1	1857	42	0.7
47600.1	10000	41.2017	92.4867	-611	QK	2.1	-1	7.1	0	1.3	1	0.298	-1	1.637	-1	5.500	-1	1860	39	0.7
47600.0	10000	41.2023	92.4867	-609	QK	2.4	0	6.9	0	1.3	1	0.346	0	1.882	-1	5.439	-1	1866	44	0.7
47599.9	10000	41.2029	92.4867	-606	QK	2.9	1	6.3	-1	1.2	1	0.459	1	2.364	0	5.148	-2	1864	45	0.7
47599.8	10000	41.2035	92.4867	-604	QK	3.0	1	6.4	-1	1.1	0	0.474	2	2.665	1	5.619	-1	1853	40	0.7
47599.7	10000	41.2041	92.4867	-602	QK	3.3	2	6.2	-1	1.1	0	0.541	3	2.958	1	5.470	-1	1849	36	0.7
47599.6	10000	41.2047	92.4867	-600	QK	3.3	2	6.2	-1	1.1	0	0.528	3	2.948	1	5.579	-1	1835	48	0.6
47599.5	10000	41.2053	92.4867	-598	QK	3.5	2	6.5	-1	1.1	0	0.540	3	3.176	2	5.878	-1	1853	47	0.6
47599.4	10000	41.2059	92.4867	-597	QK	3.4	2	6.7	-1	1.1	0	0.516	2	3.094	2	5.995	-1	1856	45	0.6
47599.3	10000	41.2065	92.4867	-596	QK	3.3	2	6.8	-1	1.1	0	0.486	2	2.919	1	6.004	-1	1851	41	0.6
47599.2	10000	41.2071	92.4867	-594	QK	3.3	2	7.3	0	1.2	0	0.449	1	2.810	1	6.262	0	1851	50	0.6
47599.1	10000	41.2077	92.4867	-593	QK	3.1	1	7.5	0	1.2	1	0.415	1	2.646	1	6.380	0	1854	48	0.6
47599.0	10000	41.2083	92.4867	-592	QK	3.1	1	7.5	0	1.2	1	0.411	1	2.534	0	6.167	0	1860	40	0.6
47598.9	10000	41.2089	92.4867	-591	QK	2.9	1	7.6	1	1.2	1	0.383	0	2.433	0	6.344	0	1867	48	0.6
47598.8	10000	41.2095	92.4867	-590	QK	3.1	1	7.4	0	1.2	1	0.417	1	2.600	1	6.238	0	1858	41	0.6
47598.7	10000	41.2101	92.4867	-589	QK	3.2	1	7.5	1	1.2	1	0.434	1	2.749	1	6.330	0	1866	49	0.6
47598.6	10000	41.2107	92.4867	-587	QK	3.4	2	7.6	1	1.1	1	0.448	1	2.962	1	6.616	0	1870	31	0.6
47598.5	10000	41.2113	92.4867	-586	QK	3.1	1	7.8	1	1.1	1	0.399	1	2.892	1	7.241	1	1871	52	0.6
47598.4	10000	41.2119	92.4867	-585	QK	2.9	1	7.3	0	1.1	1	0.396	1	2.634	1	6.647	0	1868	44	0.6
47598.3	10000	41.2125	92.4867	-583	QK	2.7	0	8.1	1	1.1	1	0.340	0	2.405	1	7.072	1	1883	31	0.6
47598.2	10000	41.2131	92.4867	-581	QK	2.7	0	7.9	1	1.2	1	0.345	0	2.360	1	6.845	0	1894	30	0.6
47598.1	10000	41.2137	92.4867	-580	QK	2.6	0	8.1	1	1.2	1	0.317	0	2.088	0	6.591	0	1918	45	0.6
47598.0	10000	41.2143	92.4868	-579	QK	2.4	0	8.1	1	1.2	1	0.299	-1	1.945	-1	6.513	0	1907	36	0.6
47597.9	10000	41.2149	92.4868	-577	QK	2.4	0	8.0	1	1.3	1	0.304	-1	1.869	-1	6.156	0	1904	42	0.6
47597.8	10000	41.2155	92.4868	-576	QK	2.4	0	7.8	1	1.4	1	0.304	-1	1.718	-1	5.652	-1	1921	45	0.6
47597.7	10000	41.2161	92.4868	-575	QK	2.7	0	8.2	2	1.4	2	0.330	-1	1.976	-1	5.993	-1	1929	43	0.6
47597.6	10000	41.2167	92.4868	-574	QK	2.6	0	7.8	1	1.3	1	0.336	-1	1.951	-1	5.814	-1	1909	48	0.6
47597.5	10000	41.2173	92.4868	-574	QK	2.8	1	8.1	2	1.3	2	0.350	0	2.183	0	6.235	0	1901	47	0.6
47597.4	10000	41.2179	92.4868	-574	QK	3.0	1	7.7	1	1.3	1	0.389	1	2.384	1	6.128	-1	1884	44	0.6
47597.3	10000	41.2185	92.4868	-573	QK	3.0	1	7.4	1	1.3	2	0.409	1	2.416	1	5.908	-1	1891	50	0.6
47597.2	10000	41.2191	92.4868	-573	QK	3.0	1	7.6	1	1.3	2	0.395	1	2.462	1	6.234	0	1902	48	0.6
47597.1	10000	41.2197	92.4868	-573	QK	3.3	2	7.4	1	1.3	2	0.438	1	2.706	1	6.179	0	1896	50	0.6
47597.0	10000	41.2203	92.4868	-574	QK	3.3	2	7.3	1	1.3	2	0.449	1	2.719	1	6.061	-1	1895	42	0.6
47596.9	10000	41.2209	92.4868	-575	QK	3.6	2	7.1	1	1.3	2	0.506	2	2.957	1	5.844	-1	1910	40	0.6
47596.8	10000	41.2215	92.4868	-576	QK	3.5	2	7.1	1	1.2	2	0.499	2	2.820	1	5.657	-1	1915	40	0.6
47596.7	10000	41.2221	92.4868	-578	QK	3.4	2	7.2	1	1.2	2	0.468	2	2.832	1	6.048	-1	1903	30	0.6
47596.6	10000	41.2226	92.4868	-579	QK	3.5	2	7.3	1	1.2	2	0.473	2	3.046	2	6.437	0	1887	48	0.6
47596.5	10000	41.2233	92.4868	-582	QK	3.2	2	7.1	1	1.1	1	0.454	1	2.890	1	6.359	0	1866	34	0.7
47596.4	10000	41.2239	92.4868	-584	QK	2.9	1	7.0	1	1.1	1	0.415	1	2.624	1	6.319	0	1841	48	0.7
47596.3	10000	41.2244	92.4868	-587	QK	2.7	0	6.8	-1	1.1	0	0.399	1	2.455	0	6.152	0	1823	49	0.7

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47596.2	10000	41.2251	92.4868	-590	QK	2.6	0	6.7	-1	1.1	0	0.383	0	2.407	0	6.288	0	1791	39	0.7
47596.1	10000	41.2256	92.4868	-593	QK	2.5	0	6.3	-1	1.0	-1	0.393	1	2.359	0	6.006	-1	1761	38	0.7
47596.0	10000	41.2262	92.4868	-597	QK	2.4	0	6.2	-1	1.1	0	0.387	1	2.163	0	5.585	-1	1754	33	0.7
47595.9	10000	41.2268	92.4868	-599	QK	2.1	-1	6.2	-1	1.1	0	0.333	0	1.826	-1	5.475	-1	1743	50	0.7
47595.8	10000	41.2274	92.4868	-601	QK	2.0	-1	6.3	-1	1.2	1	0.317	0	1.688	-1	5.319	-2	1742	45	0.7
47595.7	10000	41.2280	92.4868	-607	QK	2.3	0	6.3	-1	1.2	1	0.363	0	1.922	-1	5.291	-2	1760	46	0.7
47595.6	10000	41.2286	92.4868	-611	QK	2.4	0	6.7	-1	1.2	0	0.356	0	2.077	0	5.832	-1	1775	48	0.7
47595.5	10000	41.2292	92.4868	-615	QK	2.4	0	7.0	0	1.2	0	0.349	0	2.063	0	5.912	-1	1797	35	0.7
47595.4	10000	41.2298	92.4868	-619	QK	2.3	0	7.5	0	1.1	0	0.309	-1	2.024	-1	6.549	0	1804	38	0.7
47595.3	10000	41.2304	92.4868	-622	QK	2.4	0	7.6	1	1.1	0	0.320	0	2.144	0	6.706	0	1836	45	0.7
47595.2	10000	41.2310	92.4868	-625	QK	2.8	0	8.0	1	1.1	0	0.343	0	2.472	0	7.208	1	1864	36	0.8
47595.1	10000	41.2316	92.4868	-628	QK	3.0	1	7.9	1	1.1	0	0.380	0	2.796	1	7.362	1	1874	34	0.8
47595.0	10000	41.2322	92.4868	-631	QK	2.8	1	8.0	1	1.1	-1	0.347	0	2.618	1	7.541	2	1876	43	0.8
47594.9	10000	41.2328	92.4868	-634	QK	2.8	1	7.6	1	1.1	0	0.370	0	2.560	1	6.924	1	1879	37	0.8
47594.8	10000	41.2334	92.4868	-636	QK	2.9	1	7.5	0	1.1	0	0.384	0	2.706	1	7.041	1	1873	49	0.8
47594.7	10000	41.2340	92.4868	-639	QK	3.1	1	7.1	0	1.1	0	0.442	1	2.778	1	6.280	0	1873	37	0.8
47594.6	10000	41.2346	92.4868	-641	QK	3.4	2	7.1	0	1.1	0	0.472	2	3.025	2	6.415	0	1851	37	0.8
47594.5	10000	41.2352	92.4868	-644	QK	3.0	1	6.8	-1	1.1	0	0.444	1	2.721	1	6.123	-1	1834	38	0.8
47594.4	10000	41.2358	92.4868	-647	QK	3.1	1	6.9	0	1.1	0	0.445	1	2.823	1	6.345	0	1825	40	0.9
47594.3	10000	41.2364	92.4868	-650	QK	3.0	1	7.1	0	1.1	0	0.424	1	2.745	1	6.479	0	1812	43	0.9
47594.2	10000	41.2370	92.4868	-653	QK	3.0	1	6.9	0	1.1	0	0.431	1	2.771	1	6.423	0	1795	46	0.9
47594.1	10000	41.2376	92.4868	-655	QK	2.9	1	6.7	-1	1.1	0	0.427	1	2.544	1	5.954	-1	1779	48	0.9
47594.0	10000	41.2382	92.4869	-658	QK	2.8	1	6.7	-1	1.1	-1	0.413	1	2.631	1	6.372	0	1773	37	0.9
47593.9	10000	41.2388	92.4869	-661	QK	2.5	0	6.7	-1	1.0	-1	0.380	0	2.457	0	6.461	0	1764	46	0.9
47593.8	10000	41.2394	92.4869	-663	QK	2.8	1	7.0	0	1.0	-1	0.402	1	2.728	1	6.779	0	1762	39	0.9
47593.7	10000	41.2400	92.4869	-666	QK	2.6	0	7.0	0	1.1	0	0.367	0	2.396	0	6.533	0	1761	36	1.0
47593.6	10000	41.2406	92.4869	-669	QK	2.7	0	6.9	0	1.1	-1	0.386	0	2.523	1	6.529	0	1759	44	1.0
47593.5	10000	41.2412	92.4869	-672	QK	2.6	0	7.3	0	1.0	-1	0.348	0	2.483	0	7.134	1	1756	38	1.0
47593.4	10000	41.2418	92.4869	-675	QK	2.7	0	7.6	1	1.0	-1	0.361	0	2.839	1	7.860	2	1759	35	1.0
47593.3	10000	41.2424	92.4869	-678	QK	2.9	0	7.8	1	1.0	-1	0.376	0	2.950	1	7.846	2	1777	47	1.0
47593.2	10000	41.2430	92.4869	-681	QK	2.9	0	7.7	1	1.0	-1	0.373	0	2.827	1	7.585	2	1796	47	1.0
47593.1	10000	41.2436	92.4869	-685	QK	2.6	0	7.3	0	1.0	-1	0.360	0	2.590	1	7.197	1	1799	38	1.0
47593.0	10000	41.2442	92.4869	-688	QK	2.8	0	7.4	0	1.0	-1	0.378	0	2.804	1	7.409	1	1808	41	1.1
47592.9	10000	41.2448	92.4869	-691	QK	2.9	0	7.5	0	1.0	-1	0.392	1	2.930	1	7.482	1	1816	42	1.1
47592.8	10000	41.2454	92.4869	-694	QK	3.0	0	7.4	0	1.0	-1	0.399	1	2.873	1	7.200	1	1832	56	1.1
47592.7	10000	41.2460	92.4869	-697	QK	2.8	0	7.1	0	1.1	0	0.389	1	2.589	1	6.664	0	1842	45	1.1
47592.6	10000	41.2466	92.4869	-700	QK	2.6	0	7.1	0	1.1	0	0.361	0	2.358	1	6.536	0	1830	42	1.1
47592.5	10000	41.2472	92.4869	-704	QK	2.6	0	7.0	0	1.1	0	0.375	0	2.463	1	6.570	0	1834	40	1.1
47592.4	10000	41.2477	92.4869	-707	QK	2.7	0	6.8	0	1.1	0	0.398	1	2.554	1	6.419	0	1835	32	1.2
47592.3	10000	41.2484	92.4869	-711	QK	2.5	0	6.9	-1	1.1	0	0.369	0	2.403	1	6.505	0	1840	34	1.2
47592.2	10000	41.2489	92.4869	-716	QK	2.5	0	6.6	-1	1.0	-1	0.374	0	2.413	1	6.447	0	1838	43	1.2
47592.1	10000	41.2495	92.4869	-721	QK	2.7	0	6.6	-1	1.0	-1	0.401	1	2.601	1	6.479	0	1850	42	1.2
47592.0	10000	41.2501	92.4869	-726	QK	2.9	0	6.9	0	1.0	-1	0.415	1	2.883	1	6.952	1	1864	50	1.2
47591.9	10000	41.2507	92.4868	-731	QK	2.7	0	6.8	-1	1.0	-1	0.400	1	2.759	1	6.899	1	1893	40	1.2
47591.8	10000	41.2513	92.4868	-735	QK	2.7	0	7.1	0	1.0	-1	0.377	1	2.553	1	6.772	0	1911	41	1.2
47591.7	10000	41.2519	92.4868	-741	QK	2.6	0	7.2	0	1.1	-1	0.363	0	2.499	1	6.884	1	1941	36	1.3
47591.6	10000	41.2525	92.4868	-746	QK	3.0	0	7.5	0	1.1	0	0.400	1	2.665	1	6.656	0	1974	45	1.3
47591.5	10000	41.2531	92.4867	-751	QK	3.0	1	7.8	1	1.2	1	0.386	0	2.519	1	6.535	0	2003	38	1.3
47591.4	10000	41.2537	92.4867	-756	QK	2.9	1	7.7	1	1.2	1	0.375	0	2.369	1	6.316	0	2019	45	1.3
47591.3	10000	41.2543	92.4867	-760	QK	2.8	1	7.8	1	1.3	1	0.355	0	2.190	1	6.175	0	2031	42	1.3
47591.2	10000	41.2549	92.4866	-766	QK	3.0	1	7.6	1	1.3	1	0.399	1	2.377	1	5.959	-1	2018	39	1.3
47591.1	10000	41.2555	92.4866	-771	QK	2.9	1	7.5	0	1.2	1	0.388	1	2.381	0	6.133	0	2004	42	1.3

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47591.0	10000	41.2561	92.4866	-775	QK	3.1	1	7.3	0	1.2	1	0.431	1	2.555	1	5.925	-1	1991	35	1.4
47590.9	10000	41.2567	92.4866	-780	QK	2.8	1	7.1	0	1.2	1	0.400	1	2.370	0	5.921	-1	1968	44	1.4
47590.8	10000	41.2573	92.4865	-784	QK	2.8	1	6.7	-1	1.2	1	0.414	1	2.323	0	5.615	-1	1971	42	1.4
47590.7	10000	41.2579	92.4865	-788	QK	2.6	0	7.0	0	1.2	1	0.375	0	2.254	0	6.007	-1	1974	30	1.4
47590.6	10000	41.2585	92.4865	-791	QK	2.8	1	7.0	0	1.1	0	0.394	1	2.432	0	6.165	0	1979	37	1.4
47590.5	10000	41.2591	92.4865	-794	QK	2.9	1	7.4	0	1.1	0	0.387	1	2.490	0	6.429	0	1992	41	1.4
47590.4	10000	41.2597	92.4864	-798	QK	3.0	1	7.3	0	1.1	0	0.414	1	2.643	1	6.388	0	2018	34	1.4
47590.3	10000	41.2603	92.4864	-800	QK	3.1	2	8.0	1	1.1	0	0.384	1	2.663	1	6.929	1	2042	40	1.4
47590.2	10000	41.2609	92.4864	-802	QK	3.2	2	7.7	1	1.2	1	0.420	1	2.800	1	6.661	0	2062	28	1.5
47590.1	10000	41.2615	92.4863	-804	QK	3.4	2	7.9	1	1.1	1	0.430	2	3.003	2	6.988	1	2065	38	1.5
47590.0	10000	41.2621	92.4863	-806	QK	3.7	2	7.6	1	1.1	2	0.481	2	3.211	2	6.671	0	2069	35	1.5
47589.9	10000	41.2627	92.4863	-807	QK	3.6	2	7.1	0	1.2	2	0.503	2	3.044	2	6.045	-1	2073	49	1.5
47589.8	10000	41.2633	92.4863	-808	QK	3.7	2	6.8	-1	1.2	2	0.539	2	3.179	2	5.900	-1	2090	39	1.5
47589.7	10000	41.2639	92.4862	-809	QK	4.1	3	6.9	0	1.2	3	0.599	3	3.550	3	5.928	-1	2098	50	1.5
47589.6	10000	41.2645	92.4862	-811	QK	4.1	3	6.3	-1	1.1	3	0.642	3	3.631	3	5.655	-1	2099	46	1.5
47589.5	10000	41.2651	92.4862	-813	QK	4.0	3	6.7	-1	1.1	3	0.593	3	3.560	3	6.007	-1	2096	34	1.5
47589.4	10000	41.2657	92.4861	-814	QK	3.9	3	6.4	-1	1.1	3	0.612	3	3.502	3	5.726	-1	2075	49	1.5
47589.3	10000	41.2663	92.4861	-815	QK	3.5	2	6.1	-1	1.1	2	0.572	3	3.298	2	5.771	-1	2038	35	1.5
47589.2	10000	41.2669	92.4861	-816	QK	3.4	2	6.7	-1	1.0	2	0.507	2	3.418	2	6.739	0	2015	41	1.5
47589.1	10000	41.2675	92.4861	-817	QK	3.2	1	6.9	0	1.0	2	0.462	2	3.206	2	6.934	1	1986	43	1.6
47589.0	10000	41.2681	92.4860	-819	QK	2.8	1	6.7	-1	1.0	1	0.418	1	2.859	1	6.838	1	1946	53	1.6
47588.9	10000	41.2687	92.4860	-821	QK	2.7	1	6.6	-1	1.0	1	0.409	1	2.688	1	6.571	0	1907	40	1.6
47588.8	10000	41.2693	92.4860	-822	QK	2.9	1	6.0	-2	1.0	1	0.479	2	3.032	2	6.328	0	1867	54	1.6
47588.7	10000	41.2699	92.4859	-824	QK	3.0	1	6.0	-2	0.9	2	0.500	2	3.259	2	6.524	0	1860	58	1.6
47588.6	10000	41.2705	92.4859	-826	QK	3.0	1	6.4	-1	0.9	2	0.466	2	3.273	2	7.029	1	1859	37	1.6
47588.5	10000	41.2711	92.4859	-828	QK	2.8	1	6.6	-1	0.9	2	0.423	2	2.995	2	7.077	1	1843	37	1.6
47588.4	10000	41.2717	92.4859	-830	QK	2.7	1	6.3	-1	1.0	1	0.427	1	2.806	1	6.570	0	1832	47	1.6
47588.3	10000	41.2723	92.4858	-832	QK	2.7	1	6.3	-1	1.0	1	0.435	1	2.766	1	6.366	0	1833	32	1.6
47588.2	10000	41.2729	92.4858	-834	QK	2.6	1	6.4	-1	1.0	1	0.396	1	2.547	1	6.427	0	1841	33	1.6
47588.1	10000	41.2735	92.4858	-835	QK	2.4	0	6.9	0	1.0	1	0.342	0	2.370	1	6.927	1	1857	46	1.6
47588.0	10000	41.2741	92.4857	-836	QK	2.5	1	7.0	0	1.0	1	0.356	0	2.418	1	6.795	1	1870	49	1.6
47587.9	10000	41.2747	92.4857	-838	QK	2.9	1	6.4	-1	1.0	1	0.448	1	2.786	1	6.212	0	1874	34	1.6
47587.8	10000	41.2753	92.4857	-840	QK	3.2	1	5.8	-2	1.0	1	0.547	1	3.023	1	5.532	-1	1888	47	1.6
47587.7	10000	41.2759	92.4856	-842	QK	3.1	2	5.9	-2	1.0	1	0.527	1	3.107	1	5.893	-1	1900	46	1.6
47587.6	10000	41.2765	92.4856	-844	QK	3.2	2	6.5	-1	1.0	1	0.500	1	3.240	2	6.486	0	1923	37	1.6
47587.5	10000	41.2771	92.4856	-846	QK	3.5	2	6.9	0	0.9	2	0.469	2	3.527	2	7.515	1	1936	38	1.6
47587.4	10000	41.2777	92.4856	-848	QK	3.4	2	7.0	0	0.9	2	0.481	2	3.686	3	7.658	1	1947	50	1.6
47587.3	10000	41.2783	92.4855	-850	QK	3.5	2	7.4	1	0.9	2	0.447	2	3.741	3	8.363	1	1969	31	1.6
47587.2	10000	41.2789	92.4855	-852	QK	3.6	2	7.6	1	0.9	2	0.458	2	3.781	3	8.251	2	2002	41	1.6
47587.1	10000	41.2795	92.4855	-855	QK	3.7	2	7.8	1	0.9	2	0.460	2	3.880	3	8.441	2	2044	51	1.6
47587.0	10000	41.2801	92.4854	-857	QK	3.7	2	7.9	1	1.0	2	0.466	2	3.778	3	8.106	2	2064	45	1.6
47586.9	10000	41.2807	92.4854	-860	QK	3.3	2	7.6	1	1.0	2	0.437	2	3.301	3	7.547	2	2082	51	1.6
47586.8	10000	41.2813	92.4854	-862	QK	3.6	2	7.2	1	1.1	2	0.494	2	3.337	3	6.752	1	2114	38	1.6
47586.7	10000	41.2819	92.4854	-866	QK	3.7	2	7.6	1	1.1	2	0.485	2	3.264	3	6.726	1	2143	51	1.6
47586.6	10000	41.2825	92.4853	-869	QK	3.6	2	7.6	1	1.2	2	0.471	2	3.056	3	6.492	1	2157	45	1.5
47586.5	10000	41.2831	92.4853	-872	QK	3.7	2	7.8	1	1.2	2	0.448	2	2.946	3	6.576	1	2181	37	1.5
47586.4	10000	41.2837	92.4853	-876	QK	3.7	2	8.0	1	1.2	2	0.463	2	3.077	3	6.646	1	2181	45	1.5
47586.3	10000	41.2843	92.4852	-879	QK	3.8	2	7.9	1	1.2	2	0.465	2	3.085	3	6.635	1	2196	40	1.5
47586.2	10000	41.2849	92.4852	-882	QK	3.8	2	8.0	1	1.3	2	0.479	2	3.074	3	6.418	1	2193	40	1.5
47586.1	10000	41.2855	92.4852	-886	QK	3.6	2	7.7	1	1.2	2	0.472	2	2.943	3	6.237	1	2193	34	1.5
47586.0	10000	41.2861	92.4852	-889	QK	3.6	2	7.7	1	1.2	2	0.469	2	2.907	3	6.192	1	2187	25	1.5
47585.9	10000	41.2867	92.4851	-892	QK	3.6	2	8.0	1	1.2	1	0.447	1	2.889	1	6.463	0	2175	35	1.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47585.8	10000	41.2873	92.4851	-896	QK	3.3	2	8.0	1	1.2	1	0.412	1	2.716	1	6.586	0	2159	48	1.5
47585.7	10000	41.2879	92.4851	-899	QK	3.1	1	8.0	1	1.2	1	0.386	0	2.523	1	6.534	0	2155	46	1.5
47585.6	10000	41.2885	92.4850	-902	QK	3.4	2	8.0	1	1.2	0	0.429	1	2.929	1	6.820	0	2133	41	1.5
47585.5	10000	41.2891	92.4850	-905	QK	3.8	3	8.1	1	1.1	0	0.472	2	3.490	3	7.400	1	2126	33	1.5
47585.4	10000	41.2897	92.4850	-908	QK	3.7	3	7.7	1	1.1	0	0.490	2	3.497	3	7.140	1	2105	46	1.4
47585.3	10000	41.2903	92.4850	-911	QK	4.0	3	7.3	0	1.1	0	0.545	3	3.544	3	6.508	0	2089	40	1.4
47585.2	10000	41.2909	92.4849	-913	QK	3.9	3	7.0	0	1.1	0	0.564	3	3.490	3	6.185	0	2055	41	1.4
47585.1	10000	41.2915	92.4849	-915	QK	4.0	3	7.0	0	1.1	0	0.562	3	3.452	3	6.141	0	2019	31	1.4
47585.0	10000	41.2921	92.4849	-916	QK	4.0	3	6.8	-1	1.1	0	0.584	3	3.567	3	6.108	-1	1986	49	1.4
47584.9	10000	41.2927	92.4848	-918	QK	3.6	2	6.7	-1	1.1	0	0.535	3	3.232	2	6.043	-1	1974	45	1.4
47584.8	10000	41.2933	92.4848	-919	QK	3.6	2	6.9	0	1.1	0	0.525	2	3.281	2	6.245	0	1961	44	1.4
47584.7	10000	41.2939	92.4848	-920	QK	3.4	2	7.0	0	1.1	0	0.490	2	3.168	2	6.470	0	1946	56	1.4
47584.6	10000	41.2945	92.4848	-921	QK	3.3	2	7.0	0	1.0	-1	0.464	2	3.149	2	6.780	0	1927	32	1.4
47584.5	10000	41.2951	92.4847	-921	QK	3.5	2	6.7	-1	1.0	-1	0.497	2	3.288	2	6.618	0	1918	36	1.3
47584.4	10000	41.2957	92.4847	-922	QK	3.5	2	6.3	-1	1.0	-1	0.549	2	3.520	2	6.413	0	1925	35	1.3
47584.3	10000	41.2963	92.4847	-922	QK	3.3	2	6.2	-1	1.0	-1	0.542	2	3.421	2	6.313	0	1912	40	1.3
47584.2	10000	41.2969	92.4846	-922	QK	3.6	2	6.1	-2	1.0	-1	0.599	2	3.549	2	5.927	-1	1916	41	1.3
47584.1	10000	41.2975	92.4846	-922	QK	3.4	2	6.1	-2	1.0	-1	0.552	2	3.310	2	5.998	-1	1914	41	1.3
47584.0	10000	41.2981	92.4846	-921	QK	3.6	2	6.5	-1	1.0	-1	0.562	2	3.699	2	6.578	0	1922	50	1.3
47583.9	10000	41.2987	92.4846	-921	QK	3.7	2	6.7	-1	1.0	-1	0.552	2	3.618	2	6.551	0	1940	40	1.3
47583.8	10000	41.2993	92.4845	-920	QK	3.7	2	7.1	0	1.0	-1	0.518	2	3.543	2	6.846	1	1956	42	1.2
47583.7	10000	41.2999	92.4845	-919	QK	3.6	2	7.0	0	1.0	-1	0.510	2	3.569	2	6.996	1	1953	51	1.2
47583.6	10000	41.3005	92.4845	-918	QK	3.6	2	7.1	0	1.0	-1	0.501	2	3.464	2	6.916	1	1950	40	1.2
47583.5	10000	41.3011	92.4845	-917	QK	3.7	2	7.1	0	1.0	-1	0.519	2	3.740	2	7.201	1	1931	38	1.2
47583.4	10000	41.3017	92.4844	-916	QK	3.8	3	6.9	0	1.0	-1	0.545	2	3.664	2	6.720	0	1919	36	1.2
47583.3	10000	41.3023	92.4844	-915	QK	3.7	3	6.4	-1	1.0	-1	0.575	2	3.608	2	6.280	0	1915	34	1.2
47583.2	10000	41.3029	92.4844	-914	QK	3.8	3	6.2	-1	1.0	-1	0.611	2	3.659	2	5.986	-1	1924	44	1.2
47583.1	10000	41.3035	92.4843	-914	QAL	4.1	3	6.2	0	1.0	0	0.660	3	4.047	3	6.133	0	1940	45	1.2
47583.0	10000	41.3041	92.4843	-912	QAL	4.2	3	6.3	0	1.0	0	0.663	3	4.068	3	6.133	0	1964	43	1.1
47582.9	10000	41.3047	92.4843	-911	QAL	4.4	3	6.5	0	1.0	0	0.678	3	4.317	3	6.365	0	1983	50	1.1
47582.8	10000	41.3053	92.4843	-909	QAL	4.1	3	6.6	0	1.0	0	0.623	3	3.946	3	6.337	0	1995	36	1.1
47582.7	10000	41.3059	92.4842	-907	QAL	3.9	3	6.8	0	1.1	0	0.576	2	3.647	3	6.332	0	1992	32	1.1
47582.6	10000	41.3065	92.4842	-905	QAL	3.5	2	6.8	0	1.1	0	0.516	2	3.182	3	6.163	0	1983	39	1.1
47582.5	10000	41.3071	92.4842	-903	QAL	3.3	2	7.0	0	1.1	0	0.474	1	2.935	2	6.186	0	1954	38	1.1
47582.4	10000	41.3077	92.4841	-902	QAL	3.4	2	7.0	0	1.1	1	0.481	1	2.838	2	5.900	0	1950	46	1.1
47582.3	10000	41.3083	92.4841	-900	QAL	3.5	2	7.2	0	1.1	1	0.480	1	2.855	2	5.947	0	1923	46	1.0
47582.2	10000	41.3089	92.4841	-897	QAL	3.1	1	7.0	0	1.1	1	0.450	1	2.487	1	5.529	-1	1939	46	1.0
47582.1	10000	41.3095	92.4840	-894	QAL	2.9	1	7.4	0	1.1	1	0.390	1	2.265	1	5.809	0	1956	44	1.0
47582.0	10000	41.3101	92.4840	-891	QAL	3.1	1	7.5	0	1.1	1	0.418	1	2.526	1	6.039	0	1971	42	1.0
47581.9	10000	41.3107	92.4840	-888	QAL	3.3	2	7.7	0	1.1	1	0.428	1	2.625	1	6.139	0	1988	46	1.0
47581.8	10000	41.3113	92.4840	-885	QK	3.4	2	7.8	0	1.1	1	0.435	1	2.733	1	6.281	0	2015	42	1.0
47581.7	10000	41.3119	92.4839	-881	QK	3.3	2	7.5	0	1.1	1	0.446	1	2.663	1	5.970	-1	2023	39	0.9
47581.6	10000	41.3125	92.4839	-878	QK	3.1	2	7.4	0	1.1	1	0.425	1	2.670	1	6.280	0	2035	50	0.9
47581.5	10000	41.3131	92.4839	-874	QK	3.4	2	7.7	0	1.1	1	0.443	1	2.916	1	6.587	0	2040	35	0.9
47581.4	10000	41.3137	92.4838	-871	QK	3.6	2	7.8	0	1.1	1	0.458	2	3.046	2	6.656	0	2047	35	0.9
47581.3	10000	41.3143	92.4838	-867	QK	3.7	2	7.6	0	1.1	2	0.487	2	3.073	2	6.314	0	2061	37	0.9
47581.2	10000	41.3149	92.4838	-864	QK	4.1	3	7.5	0	1.1	2	0.545	3	3.408	3	6.251	0	2069	58	0.9
47581.1	10000	41.3155	92.4838	-860	QK	4.2	3	7.4	0	1.1	2	0.570	3	3.667	3	6.428	0	2065	42	0.9
47581.0	10000	41.3161	92.4837	-855	QK	4.2	3	7.6	0	1.1	2	0.546	3	3.734	3	6.844	1	2058	48	0.9
47580.9	10000	41.3167	92.4837	-852	QK	4.3	4	7.9	0	1.1	2	0.547	3	3.776	3	6.908	1	2038	45	0.8
47580.8	10000	41.3173	92.4837	-848	QK	4.6	4	7.5	0	1.1	2	0.604	4	4.187	4	6.936	1	2012	42	0.8
47580.7	10000	41.3179	92.4836	-844	QK	4.6	4	7.2	0	1.0	-1	0.632	4	4.409	5	6.974	1	1987	35	0.8

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47580.6	10000	41.3185	92.4836	-840	QK	4.5	4	7.1	0	1.0	-1	0.624	4	4.511	5	7.232	1	1957	41	0.8
47580.5	10000	41.3191	92.4836	-835	QK	4.2	4	6.9	0	1.0	-1	0.614	4	4.267	4	6.954	1	1928	49	0.8
47580.4	10000	41.3197	92.4836	-831	QK	4.0	3	6.6	-1	1.0	-1	0.607	4	3.830	3	6.314	0	1902	36	0.8
47580.3	10000	41.3203	92.4835	-828	QK	4.0	3	6.5	-1	1.1	0	0.611	4	3.684	3	6.033	-1	1888	38	0.8
47580.2	10000	41.3209	92.4835	-825	QK	3.9	3	6.2	-1	1.1	0	0.638	4	3.483	3	5.458	-1	1900	42	0.8
47580.1	10000	41.3215	92.4835	-821	QK	3.4	2	6.2	-1	1.2	0	0.543	3	2.864	1	5.280	-2	1898	35	0.8
47580.0	10000	41.3221	92.4834	-815	QK	3.5	2	5.8	-2	1.2	0	0.591	3	2.942	1	4.979	-2	1883	43	0.8
47579.9	10000	41.3227	92.4834	-810	QK	3.3	2	5.7	-2	1.2	1	0.587	3	2.817	1	4.798	-2	1874	41	0.7
47579.8	10000	41.3232	92.4834	-805	QK	3.4	2	6.0	-2	1.1	0	0.571	3	2.972	1	5.208	-2	1873	38	0.7
47579.7	10000	41.3239	92.4834	-803	QK	3.4	2	6.4	-1	1.1	0	0.522	2	2.930	1	5.616	-1	1879	38	0.7
47579.6	10000	41.3245	92.4833	-800	QK	3.4	2	6.4	-1	1.1	0	0.530	2	3.096	2	5.837	-1	1889	45	0.7
47579.5	10000	41.3251	92.4833	-796	QK	3.3	2	6.2	-1	1.1	0	0.532	2	3.052	2	5.733	-1	1899	29	0.7
47579.4	10000	41.3257	92.4833	-792	QK	3.7	2	6.5	-1	1.1	-1	0.573	3	3.522	3	6.145	0	1924	44	0.7
47579.3	10000	41.3262	92.4832	-789	QK	3.6	2	7.0	0	1.1	0	0.522	2	3.294	2	6.305	0	1936	42	0.7
47579.2	10000	41.3269	92.4832	-785	QK	3.7	2	7.1	0	1.1	0	0.517	2	3.288	2	6.363	0	1945	51	0.7
47579.1	10000	41.3274	92.4832	-783	QK	3.6	3	7.3	0	1.2	0	0.497	2	3.063	2	6.168	0	1969	31	0.7
47579.0	10000	41.3280	92.4832	-780	QK	3.9	3	7.0	0	1.2	0	0.558	3	3.314	2	5.939	-1	1980	36	0.6
47578.9	10000	41.3286	92.4831	-779	QK	3.9	3	6.7	-1	1.2	1	0.580	3	3.259	2	5.623	-1	1963	38	0.6
47578.8	10000	41.3292	92.4831	-777	QK	3.7	2	7.0	0	1.2	1	0.526	2	3.037	2	5.779	-1	1972	36	0.6
47578.7	10000	41.3298	92.4831	-776	QK	3.6	2	7.1	0	1.2	1	0.509	2	2.899	1	5.692	-1	1962	44	0.6
47578.6	10000	41.3304	92.4830	-775	QK	3.4	2	6.7	-1	1.2	1	0.510	2	2.745	1	5.388	-2	1964	39	0.6
47578.5	10000	41.3310	92.4830	-774	QK	3.5	2	6.8	-1	1.3	1	0.506	2	2.678	1	5.297	-2	1955	40	0.6
47578.4	10000	41.3316	92.4830	-774	QK	3.3	2	6.9	0	1.3	1	0.477	2	2.638	1	5.528	-1	1937	54	0.6
47578.3	10000	41.3322	92.4830	-773	QK	3.0	1	7.3	0	1.3	1	0.408	1	2.345	0	5.742	-1	1915	32	0.6
47578.2	10000	41.3328	92.4829	-770	QK	2.8	1	7.6	1	1.3	2	0.364	1	2.124	0	5.832	-1	1901	35	0.6
47578.1	10000	41.3334	92.4829	-768	QK	2.8	1	7.5	0	1.3	1	0.377	1	2.214	0	5.869	-1	1856	45	0.6
47578.0	10000	41.3340	92.4829	-770	QK	2.6	1	7.2	0	1.2	1	0.367	1	2.145	0	5.836	-1	1827	52	0.6
47577.9	10000	41.3346	92.4828	-773	QK	3.0	1	7.3	0	1.2	1	0.415	1	2.561	1	6.168	0	1815	38	0.6
47577.8	10000	41.3352	92.4828	-774	QK	2.8	1	7.3	0	1.1	0	0.387	1	2.559	1	6.607	0	1829	56	0.6
47577.7	10000	41.3358	92.4828	-776	QK	2.9	1	7.1	0	1.1	0	0.417	1	2.686	1	6.442	0	1835	47	0.6
47577.6	10000	41.3364	92.4828	-776	QK	3.1	1	6.8	-1	1.0	-1	0.449	1	2.931	1	6.529	0	1851	45	0.6
47577.5	10000	41.3370	92.4827	-775	QK	3.2	1	6.8	-1	1.0	-1	0.470	1	3.184	2	6.779	0	1876	44	0.6
47577.4	10000	41.3376	92.4827	-774	QK	3.6	2	6.7	-1	1.0	-1	0.533	2	3.663	2	6.867	1	1913	49	0.5
47577.3	10000	41.3382	92.4827	-774	QK	3.8	2	6.9	-1	1.1	-1	0.556	2	3.815	2	6.858	1	1941	56	0.5
47577.2	10000	41.3388	92.4827	-775	QK	3.6	2	7.0	0	1.1	0	0.513	2	3.426	2	6.682	0	1965	50	0.5
47577.1	10000	41.3394	92.4826	-777	QK	3.6	2	7.0	0	1.1	0	0.519	2	3.222	2	6.202	0	1976	36	0.5
47577.0	10000	41.3400	92.4826	-779	QK	3.7	2	6.8	-1	1.2	0	0.543	2	3.192	2	5.881	-1	1986	40	0.5
47576.9	10000	41.3406	92.4826	-782	QK	3.9	3	6.8	-1	1.2	0	0.570	3	3.351	2	5.884	-1	1991	48	0.5
47576.8	10000	41.3412	92.4825	-786	QK	3.9	3	7.2	0	1.1	0	0.543	2	3.441	2	6.333	0	1990	36	0.5
47576.7	10000	41.3418	92.4825	-789	QK	3.8	3	7.5	0	1.1	0	0.502	2	3.288	2	6.552	0	1973	41	0.5
47576.6	10000	41.3424	92.4825	-792	QK	3.6	3	7.1	0	1.2	0	0.516	2	3.096	2	5.995	-1	1974	43	0.5
47576.5	10000	41.3430	92.4824	-796	QK	3.7	3	6.8	-1	1.2	0	0.547	3	3.181	2	5.818	-1	1974	51	0.5
47576.4	10000	41.3436	92.4825	-800	QK	3.7	3	6.7	-1	1.2	0	0.557	3	3.205	2	5.754	-1	1958	44	0.5
47576.3	10000	41.3442	92.4825	-807	QK	3.9	3	7.2	0	1.1	0	0.534	2	3.504	3	6.569	0	1947	33	0.5
47576.2	10000	41.3448	92.4825	-814	QK	3.8	3	7.0	0	1.1	0	0.547	3	3.397	3	6.215	0	1938	47	0.5
47576.1	10000	41.3454	92.4825	-819	QK	4.0	3	6.3	-1	1.1	0	0.630	4	3.580	3	5.680	-1	1925	38	0.5
47576.0	10000	41.3460	92.4825	-825	QK	4.0	3	6.0	-2	1.1	0	0.664	4	3.533	3	5.317	-2	1921	39	0.5
47575.9	10000	41.3466	92.4825	-830	QK	4.0	3	6.3	-1	1.1	0	0.638	4	3.584	3	5.616	-1	1904	51	0.5
47575.8	10000	41.3472	92.4826	-836	QK	4.3	3	6.4	-1	1.1	0	0.631	4	3.781	3	5.993	-1	1885	35	0.5
47575.7	10000	41.3478	92.4826	-842	QK	4.1	3	6.8	-1	1.1	0	0.637	4	4.084	3	6.411	0	1898	37	0.5
47575.6	10000	41.3484	92.4826	-848	QK	4.1	3	6.2	-1	1.1	0	0.669	4	3.781	3	5.653	-1	1890	45	0.5
47575.5	10000	41.3490	92.4826	-855	QK	4.1	3	6.6	-1	1.1	0	0.611	4	3.803	3	6.220	0	1896	44	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47575.4	10000	41.3496	92.4826	-862	QAL	3.9	3	6.8	0	1.1	0	0.564	2	3.493	2	6.194	0	1907	35	0.5
47575.3	10000	41.3502	92.4827	-869	QAL	3.9	3	6.9	0	1.1	0	0.560	2	3.492	2	6.237	0	1905	47	0.5
47575.2	10000	41.3508	92.4827	-875	QAL	4.0	3	7.0	0	1.1	0	0.578	2	3.788	3	6.551	1	1907	43	0.5
47575.1	10000	41.3514	92.4827	-881	QAL	3.8	3	7.1	1	1.1	0	0.542	2	3.513	2	6.477	0	1884	40	0.5
47575.0	10000	41.3520	92.4827	-887	QAL	3.5	2	6.7	0	1.1	0	0.513	2	3.212	2	6.266	0	1857	32	0.5
47574.9	10000	41.3526	92.4827	-892	QAL	3.6	2	6.8	0	1.1	0	0.536	2	3.356	2	6.264	0	1834	37	0.5
47574.8	10000	41.3532	92.4827	-897	QAL	3.3	2	6.7	0	1.0	0	0.496	1	3.192	2	6.434	0	1795	36	0.5
47574.7	10000	41.3538	92.4828	-900	QK	3.1	1	6.9	0	1.0	-1	0.444	1	3.004	2	6.770	0	1763	35	0.5
47574.6	10000	41.3544	92.4828	-903	QK	3.1	1	6.9	0	1.0	-1	0.443	1	3.065	2	6.914	1	1754	45	0.5
47574.5	10000	41.3550	92.4828	-905	QK	2.9	1	7.0	0	1.0	-1	0.421	1	2.825	1	6.705	0	1750	50	0.5
47574.4	10000	41.3556	92.4828	-907	QK	2.9	1	7.0	0	1.1	-1	0.410	1	2.708	1	6.601	0	1775	45	0.5
47574.3	10000	41.3562	92.4828	-908	QK	3.0	1	6.9	0	1.1	0	0.429	1	2.696	1	6.281	0	1786	44	0.5
47574.2	10000	41.3568	92.4828	-908	QK	2.9	1	7.0	0	1.1	0	0.416	1	2.618	1	6.290	0	1812	45	0.5
47574.1	10000	41.3574	92.4829	-906	QK	3.1	1	6.8	-1	1.2	0	0.464	2	2.675	1	5.766	-1	1841	41	0.5
47574.0	10000	41.3580	92.4829	-903	QK	3.3	2	6.7	-1	1.2	1	0.493	2	2.791	1	5.659	-1	1863	42	0.5
47573.9	10000	41.3587	92.4829	-903	QK	3.3	2	6.8	-1	1.2	0	0.478	2	2.800	1	5.861	-1	1884	44	0.5
47573.8	10000	41.3592	92.4829	-902	QK	3.2	1	6.8	-1	1.2	0	0.469	2	2.758	1	5.885	-1	1900	35	0.5
47573.7	10000	41.3598	92.4829	-900	QK	3.4	2	6.6	-1	1.2	0	0.513	2	2.933	1	5.713	-1	1904	35	0.5
47573.6	10000	41.3605	92.4829	-897	QK	3.5	2	6.7	-1	1.1	0	0.524	2	3.090	2	5.897	-1	1913	39	0.5
47573.5	10000	41.3610	92.4830	-893	QK	3.5	2	6.9	-1	1.1	0	0.515	2	3.095	2	6.008	-1	1901	45	0.5
47573.4	10000	41.3616	92.4830	-889	QK	3.5	2	7.1	0	1.1	0	0.500	2	3.122	2	6.245	0	1897	47	0.5
47573.3	10000	41.3623	92.4830	-885	QK	3.5	2	7.3	0	1.1	0	0.479	2	3.145	2	6.570	0	1905	38	0.5
47573.2	10000	41.3628	92.4830	-880	QK	3.5	2	7.1	0	1.2	0	0.485	2	2.969	2	6.127	-1	1887	35	0.5
47573.1	10000	41.3634	92.4830	-875	QK	3.6	2	7.3	0	1.1	0	0.496	2	3.230	2	6.509	0	1871	41	0.5
47573.0	10000	41.3641	92.4830	-869	QK	3.4	2	7.5	0	1.1	0	0.455	2	3.029	2	6.651	0	1877	30	0.5
47572.9	10000	41.3646	92.4831	-864	QK	3.4	2	7.3	0	1.1	0	0.468	2	2.991	2	6.387	0	1884	46	0.5
47572.8	10000	41.3652	92.4831	-858	QK	3.2	1	7.6	1	1.1	0	0.421	1	2.978	2	7.070	1	1896	42	0.5
47572.7	10000	41.3659	92.4831	-854	QK	3.2	1	7.7	1	1.1	0	0.416	1	2.922	2	7.023	1	1912	47	0.5
47572.6	10000	41.3664	92.4831	-851	QK	3.3	2	7.6	1	1.1	0	0.431	1	3.032	2	7.032	1	1934	36	0.5
47572.5	10000	41.3671	92.4831	-848	QK	3.7	2	7.8	1	1.1	0	0.474	2	3.390	2	7.155	1	1975	39	0.5
47572.4	10000	41.3677	92.4832	-844	QK	3.6	2	7.7	1	1.1	0	0.469	2	3.297	2	7.035	1	2004	54	0.5
47572.3	10000	41.3682	92.4832	-842	QK	3.9	3	7.8	1	1.1	0	0.496	2	3.446	2	6.951	1	2026	41	0.5
47572.2	10000	41.3689	92.4832	-839	QK	4.0	3	7.8	1	1.1	0	0.513	2	3.537	3	6.894	1	2035	45	0.5
47572.1	10000	41.3695	92.4832	-837	QK	4.5	4	7.5	0	1.2	1	0.598	3	3.771	3	6.309	0	2048	39	0.6
47572.0	10000	41.3701	92.4832	-836	QK	4.2	4	7.3	0	1.2	0	0.575	3	3.661	3	6.362	0	2036	36	0.6
47571.9	10000	41.3707	92.4832	-836	QK	4.1	3	7.1	0	1.2	1	0.579	3	3.346	2	5.778	-1	2023	47	0.6
47571.8	10000	41.3713	92.4833	-836	QK	3.6	2	7.1	0	1.2	1	0.504	2	2.945	1	5.846	-1	1993	50	0.6
47571.7	10000	41.3719	92.4833	-838	QK	3.4	2	7.3	0	1.2	1	0.466	2	2.774	1	5.956	-1	1971	41	0.6
47571.6	10000	41.3725	92.4833	-839	QK	3.2	1	7.1	0	1.2	1	0.446	1	2.631	1	5.896	-1	1933	36	0.6
47571.5	10000	41.3731	92.4833	-840	QK	2.8	1	7.1	0	1.2	1	0.393	1	2.361	0	6.001	-1	1887	34	0.6
47571.4	10000	41.3737	92.4833	-842	QK	2.4	0	7.1	0	1.2	1	0.337	0	1.916	-1	5.680	-1	1870	47	0.6
47571.3	10000	41.3743	92.4834	-844	QK	2.5	0	7.1	0	1.2	1	0.353	0	2.045	0	5.794	-1	1853	41	0.6
47571.2	10000	41.3749	92.4834	-846	QK	2.6	0	7.2	0	1.2	1	0.359	0	2.156	0	6.007	-1	1838	52	0.6
47571.1	10000	41.3755	92.4834	-847	QK	2.5	0	7.1	0	1.2	1	0.352	0	2.094	0	5.948	-1	1832	37	0.6
47571.0	10000	41.3761	92.4834	-848	QK	2.5	0	7.0	0	1.2	1	0.362	0	2.062	0	5.694	-1	1820	32	0.6
47570.9	10000	41.3767	92.4834	-850	QK	2.6	0	7.1	0	1.2	1	0.367	0	2.130	0	5.803	-1	1814	46	0.6
47570.8	10000	41.3773	92.4834	-850	QK	2.7	0	7.1	0	1.2	1	0.374	0	2.228	0	5.959	-1	1814	45	0.6
47570.7	10000	41.3779	92.4834	-850	QK	2.7	0	6.9	0	1.1	0	0.385	0	2.368	1	6.152	0	1770	33	0.6
47570.6	10000	41.3785	92.4835	-850	QK	2.7	0	6.6	-1	1.1	0	0.408	1	2.486	1	6.097	-1	1739	46	0.7
47570.5	10000	41.3791	92.4835	-850	QK	2.6	0	6.4	-1	1.0	-1	0.407	1	2.544	1	6.248	0	1694	33	0.7
47570.4	10000	41.3797	92.4835	-849	QK	2.8	1	6.4	-1	1.0	-1	0.434	1	2.834	1	6.531	0	1670	42	0.7
47570.3	10000	41.3803	92.4835	-848	QK	2.6	0	6.2	-1	0.9	-2	0.414	1	2.780	1	6.715	0	1639	30	0.7

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47570.2	10000	41.3809	92.4835	-846	QK	2.4	0	6.3	-1	0.9	-2	0.379	0	2.630	1	6.940	1	1617	27	0.7
47570.1	10000	41.3815	92.4836	-843	QK	2.6	0	6.6	-1	0.9	-2	0.388	1	2.972	1	7.657	2	1610	41	0.7
47570.0	10000	41.3821	92.4836	-841	QK	2.6	0	6.7	-1	0.9	-2	0.384	0	2.967	1	7.716	2	1622	29	0.7
47569.9	10000	41.3827	92.4836	-838	QK	2.7	0	6.6	-1	0.9	-2	0.404	1	2.887	1	7.151	1	1642	35	0.7
47569.8	10000	41.3833	92.4836	-836	QK	2.6	0	6.4	-1	1.0	-1	0.404	1	2.581	1	6.389	0	1666	38	0.7
47569.7	10000	41.3839	92.4836	-833	QK	2.3	0	6.3	-1	1.1	0	0.365	0	2.118	0	5.799	-1	1692	34	0.7
47569.6	10000	41.3845	92.4836	-830	QK	2.5	0	6.9	0	1.1	0	0.361	0	2.221	0	6.153	0	1737	51	0.7
47569.5	10000	41.3851	92.4837	-828	QK	2.4	0	7.3	0	1.2	0	0.325	0	2.050	0	6.315	0	1758	35	0.7
47569.4	10000	41.3857	92.4837	-825	QK	2.2	-1	7.3	0	1.2	1	0.306	-1	1.821	-1	5.949	-1	1756	38	0.7
47569.3	10000	41.3863	92.4837	-822	QK	2.0	-1	7.3	0	1.2	1	0.278	-1	1.631	-1	5.873	-1	1769	52	0.8
47569.2	10000	41.3869	92.4837	-819	QK	2.0	-1	7.7	1	1.2	1	0.260	-1	1.678	-1	6.458	0	1783	47	0.8
47569.1	10000	41.3875	92.4837	-817	QK	2.1	-1	7.9	1	1.1	0	0.265	-1	1.839	-1	6.951	1	1790	39	0.8
47569.0	10000	41.3881	92.4837	-814	QK	2.5	0	7.8	1	1.1	0	0.321	0	2.238	0	6.973	1	1787	41	0.8
47568.9	10000	41.3887	92.4838	-811	QK	2.5	0	7.2	0	1.1	0	0.346	0	2.183	0	6.307	0	1779	40	0.8
47568.8	10000	41.3893	92.4838	-808	QK	2.3	0	6.7	-1	1.1	-1	0.346	0	2.176	0	6.295	0	1763	40	0.8
47568.7	10000	41.3899	92.4838	-806	QK	2.3	0	6.4	-1	1.0	-1	0.361	0	2.190	0	6.070	-1	1754	48	0.8
47568.6	10000	41.3905	92.4838	-805	QK	2.4	0	6.3	-1	1.0	-1	0.384	0	2.412	0	6.274	0	1730	48	0.8
47568.5	10000	41.3911	92.4838	-803	QK	2.1	-1	6.2	-1	1.0	-1	0.337	0	2.071	0	6.140	0	1691	49	0.8
47568.4	10000	41.3917	92.4839	-802	QK	2.0	-1	6.2	-1	1.0	-1	0.329	0	2.052	0	6.237	0	1681	35	0.8
47568.3	10000	41.3923	92.4839	-801	QK	1.8	-2	6.4	-1	1.0	-1	0.275	-1	1.739	-1	6.323	0	1669	36	0.8
47568.2	10000	41.3929	92.4839	-799	QK	1.5	-2	7.0	0	1.0	-1	0.208	-2	1.457	-2	6.992	1	1656	49	0.9
47568.1	10000	41.3935	92.4839	-797	QK	1.8	-2	6.9	0	1.0	-1	0.257	-1	1.690	-1	6.572	0	1663	40	0.9
47568.0	10000	41.3941	92.4839	-796	QK	1.7	-2	7.5	0	1.0	-1	0.220	-2	1.614	-1	7.334	1	1692	44	0.9
47567.9	10000	41.3947	92.4839	-795	QK	1.8	-2	7.8	1	1.0	-1	0.229	-2	1.734	-1	7.557	2	1721	35	0.9
47567.8	10000	41.3953	92.4839	-793	QK	1.9	-1	7.6	1	1.1	0	0.245	-1	1.743	-1	7.123	1	1768	43	0.9
47567.7	10000	41.3959	92.4840	-792	QK	1.9	-1	7.8	1	1.1	0	0.249	-1	1.785	-1	7.176	1	1782	44	0.9
47567.6	10000	41.3965	92.4840	-790	QK	2.1	-1	7.8	1	1.0	-1	0.266	-1	1.982	-1	7.458	1	1806	43	0.9
47567.5	10000	41.3971	92.4840	-788	QK	2.4	0	7.2	0	1.0	-1	0.332	0	2.308	0	6.953	1	1814	47	0.9
47567.4	10000	41.3977	92.4840	-785	QK	2.3	0	7.7	0	1.0	-1	0.303	-1	2.230	0	7.362	1	1822	43	0.9
47567.3	10000	41.3983	92.4840	-784	QK	2.4	0	7.3	0	1.1	0	0.327	0	2.170	0	6.645	0	1818	36	0.9
47567.2	10000	41.3989	92.4841	-783	QK	2.2	-1	7.2	0	1.1	0	0.314	-1	1.977	-1	6.296	0	1820	57	1.0
47567.1	10000	41.3995	92.4841	-782	QK	2.3	0	7.3	0	1.2	0	0.319	0	2.014	-1	6.313	0	1805	35	1.0
47567.0	10000	41.4001	92.4841	-781	QK	2.1	-1	7.7	1	1.2	0	0.269	-1	1.729	-1	6.437	0	1801	40	1.0
47566.9	10000	41.4007	92.4841	-780	QK	1.9	-1	7.7	1	1.2	1	0.247	-1	1.543	-2	6.240	0	1791	38	1.0
47566.8	10000	41.4013	92.4841	-778	QK	2.0	-1	7.8	1	1.3	1	0.262	-1	1.629	-1	6.226	0	1806	39	1.0
47566.7	10000	41.4019	92.4841	-776	QK	2.0	-1	7.3	0	1.3	1	0.271	-1	1.551	-2	5.732	-1	1806	53	1.0
47566.6	10000	41.4025	92.4842	-775	QK	2.1	-1	7.3	0	1.3	1	0.289	-1	1.663	-1	5.756	-1	1824	46	1.0
47566.5	10000	41.4031	92.4842	-775	QK	2.1	-1	7.3	0	1.3	1	0.286	-1	1.664	-1	5.819	-1	1832	39	1.0
47566.4	10000	41.4037	92.4842	-775	QK	2.1	-1	7.2	0	1.2	1	0.296	-1	1.715	-1	5.803	-1	1848	38	1.0
47566.3	10000	41.4043	92.4842	-774	QK	2.3	0	6.9	0	1.3	1	0.339	0	1.859	-1	5.482	-1	1871	38	1.0
47566.2	10000	41.4049	92.4842	-774	QK	2.5	0	6.8	-1	1.2	1	0.371	0	2.031	0	5.475	-1	1873	41	1.0
47566.1	10000	41.4055	92.4843	-773	QK	2.6	0	6.7	-1	1.3	1	0.391	1	2.069	0	5.292	-2	1871	50	1.0
47566.0	10000	41.4061	92.4843	-773	QK	2.7	0	7.0	0	1.2	1	0.383	0	2.208	0	5.759	-1	1866	38	1.0
47565.9	10000	41.4067	92.4843	-774	QK	2.3	0	7.1	0	1.2	0	0.332	0	1.912	-1	5.755	-1	1849	42	1.0
47565.8	10000	41.4073	92.4843	-774	QK	2.3	0	7.0	0	1.2	0	0.326	0	1.846	-1	5.663	-1	1841	49	1.1
47565.7	10000	41.4079	92.4843	-773	QK	2.3	-1	7.2	0	1.3	-1	0.314	-1	1.803	-1	5.735	-1	1863	40	1.1
47565.6	10000	41.4085	92.4843	-772	QK	2.2	-1	7.1	0	1.3	-1	0.307	-1	1.704	-1	5.554	-1	1865	44	1.1
47565.5	10000	41.4091	92.4844	-771	QK	2.2	-1	7.4	0	1.2	-1	0.303	-1	1.825	-1	6.030	-1	1885	44	1.1
47565.4	10000	41.4097	92.4844	-770	QK	2.0	-1	7.4	0	1.2	-1	0.274	-1	1.734	-1	6.324	0	1894	47	1.1
47565.3	10000	41.4103	92.4844	-769	QK	2.3	0	7.2	0	1.2	0	0.325	0	2.021	-1	6.220	0	1927	46	1.1
47565.2	10000	41.4109	92.4844	-767	QK	2.8	1	6.9	0	1.2	1	0.401	1	2.383	0	5.944	-1	1945	53	1.1
47565.1	10000	41.4115	92.4844	-764	QK	3.0	1	7.1	0	1.1	0	0.416	1	2.582	0	6.208	0	1961	54	1.1

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47565.0	10000	41.4121	92.4844	-758	QK	3.2	1	7.0	0	1.1	0	0.466	2	2.850	1	6.121	-1	1983	43	1.1
47564.9	10000	41.4127	92.4845	-758	QK	3.4	2	7.0	0	1.1	0	0.491	2	3.128	2	6.369	0	1988	46	1.1
47564.8	10000	41.4133	92.4845	-765	QK	3.4	2	6.9	0	1.1	0	0.496	2	3.032	2	6.108	-1	1995	53	1.1
47564.7	10000	41.4139	92.4845	-766	QK	3.3	2	6.8	-1	1.1	0	0.491	2	2.939	1	5.988	-1	1986	42	1.1
47564.6	10000	41.4145	92.4845	-765	QK	3.3	2	6.8	-1	1.2	0	0.481	2	2.773	1	5.759	-1	1982	38	1.1
47564.5	10000	41.4151	92.4845	-764	QK	3.4	2	7.1	0	1.2	1	0.481	2	2.803	1	5.827	-1	1996	35	1.1
47564.4	10000	41.4157	92.4845	-763	QK	3.5	2	7.0	0	1.2	1	0.501	2	2.868	1	5.722	-1	2019	32	1.1
47564.3	10000	41.4163	92.4846	-761	QK	3.8	3	7.3	0	1.2	1	0.524	2	3.229	2	6.162	0	2006	39	1.1
47564.2	10000	41.4169	92.4846	-760	QK	4.0	3	7.3	0	1.2	0	0.549	3	3.399	2	6.191	0	2032	42	1.1
47564.1	10000	41.4175	92.4846	-761	QK	4.0	3	7.0	0	1.2	0	0.574	3	3.487	3	6.078	-1	2041	41	1.1
47564.0	10000	41.4181	92.4846	-761	QK	4.4	4	7.2	0	1.2	1	0.608	4	3.566	3	5.867	-1	2073	38	1.1
47563.9	10000	41.4187	92.4846	-759	QK	4.3	4	7.0	0	1.2	1	0.615	4	3.477	3	5.653	-1	2103	47	1.1
47563.8	10000	41.4193	92.4846	-758	QK	4.2	4	6.8	-1	1.2	0	0.620	4	3.645	3	5.879	-1	2114	29	1.1
47563.7	10000	41.4199	92.4847	-758	QK	4.1	3	6.7	-1	1.1	0	0.620	4	3.674	3	5.926	-1	2091	48	1.1
47563.6	10000	41.4205	92.4847	-760	QK	3.6	2	6.0	-2	1.2	1	0.598	3	3.066	2	5.125	-2	2079	40	1.1
47563.5	10000	41.4211	92.4847	-760	QK	3.4	2	6.1	-2	1.2	1	0.550	3	2.723	1	4.956	-2	2039	44	1.1
47563.4	10000	41.4217	92.4847	-759	QK	3.3	2	6.1	-2	1.2	1	0.534	3	2.667	1	4.991	-2	2013	46	1.1
47563.3	10000	41.4223	92.4847	-759	QK	3.2	2	6.2	-1	1.2	1	0.528	2	2.748	1	5.208	-2	1986	35	1.1
47563.2	10000	41.4229	92.4848	-759	QK	3.2	1	6.4	-1	1.2	0	0.501	2	2.802	1	5.593	-1	1939	50	1.1
47563.1	10000	41.4235	92.4848	-759	QK	2.9	1	6.5	-1	1.1	0	0.444	1	2.541	1	5.718	-1	1892	35	1.1
47563.0	10000	41.4241	92.4848	-760	QK	2.8	1	6.4	-1	1.1	0	0.446	1	2.475	0	5.555	-1	1869	44	1.1
47562.9	10000	41.4247	92.4848	-760	QK	2.8	1	6.5	-1	1.1	0	0.431	1	2.597	1	6.021	-1	1820	46	1.1
47562.8	10000	41.4253	92.4848	-760	QK	2.8	1	6.4	-1	1.0	-1	0.441	1	2.756	1	6.242	0	1811	41	1.1
47562.7	10000	41.4259	92.4848	-760	QK	2.9	1	6.6	-1	1.1	0	0.431	1	2.691	1	6.245	0	1798	51	1.1
47562.6	10000	41.4265	92.4848	-760	QK	2.8	1	6.8	-1	1.1	0	0.414	1	2.604	1	6.283	0	1798	29	1.1
47562.5	10000	41.4271	92.4848	-761	QK	2.6	1	6.6	-1	1.1	0	0.397	1	2.426	0	6.114	-1	1819	40	1.1
47562.4	10000	41.4277	92.4848	-763	QK	2.8	1	6.8	-1	1.1	0	0.412	1	2.580	1	6.263	0	1838	43	1.1
47562.3	10000	41.4284	92.4848	-764	QAL	2.9	1	7.0	0	1.1	0	0.419	1	2.753	1	6.570	1	1863	55	1.1
47562.2	10000	41.4290	92.4848	-765	QAL	2.9	1	7.0	0	1.1	0	0.422	1	2.765	1	6.547	1	1899	41	1.0
47562.1	10000	41.4296	92.4848	-766	QAL	2.9	1	7.1	0	1.1	0	0.414	1	2.755	1	6.655	1	1920	36	1.0
47562.0	10000	41.4302	92.4848	-768	QAL	3.1	2	7.1	0	1.1	0	0.432	1	3.037	1	7.038	1	1921	30	1.0
47561.9	10000	41.4308	92.4848	-770	QAL	3.0	2	7.0	0	1.0	-1	0.430	1	3.070	1	7.140	1	1926	28	1.0
47561.8	10000	41.4314	92.4848	-772	QAL	3.3	2	7.2	0	1.1	-1	0.453	1	3.382	2	7.462	2	1904	28	1.0
47561.7	10000	41.4320	92.4848	-773	QAL	3.4	2	7.3	0	1.1	-1	0.465	1	3.448	2	7.409	2	1896	45	1.0
47561.6	10000	41.4326	92.4848	-776	QAL	3.3	2	7.3	0	1.1	-1	0.460	1	3.447	2	7.498	2	1893	44	1.0
47561.5	10000	41.4332	92.4848	-778	QAL	3.3	2	7.5	0	1.1	0	0.438	1	3.254	2	7.430	2	1895	37	1.0
47561.4	10000	41.4338	92.4848	-781	QAL	3.3	2	7.7	0	1.1	0	0.430	1	3.269	2	7.598	2	1882	36	1.0
47561.3	10000	41.4345	92.4847	-783	QAL	3.1	2	7.6	0	1.1	0	0.400	1	2.907	1	7.263	1	1905	42	1.0
47561.2	10000	41.4351	92.4847	-786	QAL	3.3	2	7.8	0	1.1	0	0.417	1	3.243	2	7.786	2	1900	45	1.0
47561.1	10000	41.4357	92.4847	-788	QAL	3.3	2	8.0	0	1.1	0	0.409	1	3.219	2	7.869	2	1926	38	1.0
47561.0	10000	41.4363	92.4847	-790	QAL	3.2	2	7.7	0	1.1	0	0.420	1	3.151	2	7.508	2	1941	43	1.0
47560.9	10000	41.4369	92.4847	-792	QAL	3.4	2	8.0	0	1.1	1	0.420	1	3.164	2	7.539	2	1942	43	1.0
47560.8	10000	41.4375	92.4847	-794	QAL	3.5	2	7.8	0	1.1	1	0.447	1	3.308	2	7.403	2	1943	51	0.9
47560.7	10000	41.4381	92.4847	-796	QAL	3.4	2	7.9	0	1.1	0	0.427	1	3.243	2	7.592	2	1938	38	0.9
47560.6	10000	41.4387	92.4847	-797	QAL	3.4	2	7.8	0	1.1	0	0.432	1	3.247	2	7.519	2	1921	30	0.9
47560.5	10000	41.4393	92.4847	-798	QAL	3.2	1	7.7	0	1.1	0	0.423	1	3.084	2	7.297	1	1910	46	0.9
47560.4	10000	41.4399	92.4847	-799	QAL	3.2	1	7.4	0	1.1	0	0.436	1	3.116	2	7.142	1	1881	46	0.9
47560.3	10000	41.4406	92.4847	-800	QAL	3.2	1	7.7	0	1.0	0	0.412	1	3.043	2	7.384	2	1861	37	0.9
47560.2	10000	41.4412	92.4847	-800	QAL	3.0	1	7.1	0	0.9	-1	0.426	1	3.170	2	7.441	2	1840	35	0.9
47560.1	10000	41.4418	92.4847	-800	QAL	3.3	2	6.6	0	0.9	-1	0.499	1	3.496	2	7.010	1	1823	31	0.9
47560.0	10000	41.4424	92.4846	-799	QAL	3.6	2	6.5	0	0.9	-1	0.564	1	3.841	2	6.813	1	1828	41	0.9
47559.9	10000	41.4430	92.4846	-799	QAL	3.7	2	6.4	0	0.9	-1	0.584	2	3.989	3	6.835	1	1817	36	0.9

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47559.8	10000	41.4436	92.4846	-799	QAL	3.5	2	6.1	0	1.0	-1	0.575	2	3.648	2	6.343	0	1817	44	0.9
47559.7	10000	41.4442	92.4846	-799	QAL	3.3	2	6.2	0	1.0	-1	0.541	2	3.349	2	6.187	0	1833	43	0.8
47559.6	10000	41.4448	92.4846	-798	QK	3.6	2	5.9	-2	1.0	-1	0.610	4	3.559	3	5.837	-1	1858	46	0.8
47559.5	10000	41.4454	92.4846	-797	QK	3.3	2	6.3	-1	1.1	0	0.519	2	2.994	2	5.764	-1	1876	31	0.8
47559.4	10000	41.4461	92.4846	-797	QK	3.0	1	6.8	-1	1.1	0	0.438	1	2.750	1	6.278	0	1880	39	0.8
47559.3	10000	41.4467	92.4846	-796	QK	2.7	0	6.6	-1	1.1	0	0.409	1	2.514	1	6.145	0	1863	54	0.8
47559.2	10000	41.4473	92.4846	-794	QK	2.5	0	6.6	-1	1.1	0	0.372	0	2.320	0	6.240	0	1861	45	0.8
47559.1	10000	41.4479	92.4846	-794	QK	2.5	0	6.9	0	1.1	0	0.355	0	2.318	0	6.522	0	1861	58	0.8
47559.0	10000	41.4485	92.4846	-793	QK	2.7	0	6.9	0	1.1	0	0.390	1	2.501	0	6.415	0	1833	44	0.8
47558.9	10000	41.4491	92.4846	-792	QK	2.2	-1	7.0	0	1.1	0	0.314	-1	2.082	0	6.620	0	1805	44	0.8
47558.8	10000	41.4497	92.4846	-790	QK	2.3	0	7.0	0	1.1	0	0.328	0	2.105	0	6.413	0	1808	38	0.8
47558.7	10000	41.4503	92.4846	-790	QK	2.4	0	7.1	0	1.1	0	0.338	0	2.207	0	6.536	0	1799	39	0.7
47558.6	10000	41.4509	92.4846	-788	QK	2.4	0	7.1	0	1.1	0	0.342	0	2.172	0	6.346	0	1803	41	0.7
47558.5	10000	41.4515	92.4846	-786	QK	2.5	0	7.2	0	1.1	0	0.353	0	2.211	0	6.271	0	1809	35	0.7
47558.4	10000	41.4521	92.4845	-784	QK	2.7	0	7.3	0	1.1	0	0.367	0	2.440	0	6.642	0	1818	35	0.7
47558.3	10000	41.4528	92.4845	-782	QK	2.4	0	7.2	0	1.1	0	0.339	0	2.269	0	6.695	0	1829	50	0.7
47558.2	10000	41.4534	92.4845	-780	QK	2.9	1	7.2	0	1.1	0	0.403	1	2.602	1	6.451	0	1853	39	0.7
47558.1	10000	41.4540	92.4845	-778	QK	3.0	1	7.2	0	1.1	0	0.413	1	2.809	1	6.798	0	1848	48	0.7
47558.0	10000	41.4546	92.4845	-776	QK	3.0	1	7.3	0	1.1	0	0.417	1	2.684	1	6.437	0	1884	37	0.7
47557.9	10000	41.4552	92.4845	-774	QK	3.4	2	7.1	0	1.1	0	0.483	2	3.036	2	6.284	0	1927	47	0.7
47557.8	10000	41.4558	92.4845	-771	QK	3.4	2	6.9	0	1.1	0	0.497	2	3.109	2	6.249	0	1951	41	0.7
47557.7	10000	41.4564	92.4845	-768	QK	3.5	2	6.6	-1	1.1	0	0.527	2	3.033	2	5.760	-1	1965	52	0.7
47557.6	10000	41.4570	92.4845	-765	QK	4.0	3	6.7	-1	1.1	0	0.592	3	3.579	3	6.046	-1	1992	34	0.6
47557.5	10000	41.4576	92.4845	-762	QK	3.8	3	6.9	0	1.1	0	0.544	3	3.485	3	6.403	0	1984	42	0.6
47557.4	10000	41.4583	92.4845	-759	QK	4.1	3	6.7	-1	1.1	0	0.620	4	3.861	3	6.227	0	1977	35	0.6
47557.3	10000	41.4589	92.4845	-756	QK	4.4	4	6.8	-1	1.0	-1	0.651	4	4.375	4	6.717	0	1966	36	0.6
47557.2	10000	41.4595	92.4845	-752	QK	4.1	3	6.9	-1	1.0	-1	0.596	3	3.981	3	6.675	0	1946	38	0.6
47557.1	10000	41.4601	92.4845	-749	QK	4.3	4	7.1	0	1.0	-1	0.604	4	4.135	4	6.843	1	1947	35	0.6
47557.0	10000	41.4607	92.4845	-745	QK	4.2	3	7.3	0	1.1	0	0.574	3	3.954	3	6.885	1	1932	39	0.6
47556.9	10000	41.4613	92.4845	-740	QK	3.9	3	7.5	0	1.1	0	0.518	2	3.586	3	6.917	1	1923	33	0.6
47556.8	10000	41.4619	92.4844	-736	QK	4.0	3	7.6	0	1.1	0	0.520	2	3.637	3	6.988	1	1922	47	0.6
47556.7	10000	41.4625	92.4844	-731	QK	3.6	2	7.5	0	1.1	0	0.479	2	3.198	2	6.678	1	1920	43	0.6
47556.6	10000	41.4631	92.4844	-727	QK	3.2	1	7.2	0	1.1	0	0.450	1	2.931	2	6.519	0	1887	45	0.6
47556.5	10000	41.4637	92.4844	-723	QK	3.0	1	7.2	0	1.1	0	0.416	1	2.829	1	6.797	0	1855	50	0.6
47556.4	10000	41.4644	92.4844	-719	QK	2.9	1	6.7	-1	1.1	0	0.431	1	2.799	1	6.495	0	1807	47	0.6
47556.3	10000	41.4650	92.4844	-715	QK	2.9	1	6.3	-1	1.0	-1	0.460	2	2.963	1	6.437	0	1766	41	0.5
47556.2	10000	41.4656	92.4844	-710	QK	2.7	1	6.1	-2	1.0	-1	0.449	2	2.898	2	6.459	0	1728	36	0.5
47556.1	10000	41.4662	92.4844	-706	QK	2.9	1	5.8	-2	0.9	-2	0.508	2	3.170	2	6.239	0	1703	54	0.5
47556.0	10000	41.4668	92.4844	-701	QK	2.9	1	6.1	-2	0.8	-2	0.482	2	3.519	2	7.296	1	1681	40	0.5
47555.9	10000	41.4674	92.4844	-696	QK	2.8	1	6.1	-2	0.9	-2	0.455	2	3.163	2	6.954	1	1689	37	0.5
47555.8	10000	41.4680	92.4844	-692	QK	3.0	1	6.4	-1	0.9	-2	0.471	2	3.372	2	7.154	1	1675	28	0.5
47555.7	10000	41.4686	92.4844	-687	QK	3.0	1	6.8	-1	0.9	-2	0.438	2	3.368	2	7.689	2	1678	45	0.5
47555.6	10000	41.4692	92.4844	-682	QK	2.8	1	7.1	0	0.9	-2	0.390	2	3.255	2	8.352	3	1683	38	0.5
47555.5	10000	41.4698	92.4843	-677	QK	2.7	1	7.0	0	0.9	-2	0.389	2	3.118	2	8.009	2	1685	34	0.5
47555.4	10000	41.4705	92.4843	-672	QK	2.5	1	7.4	0	0.9	-2	0.334	1	2.754	2	8.254	3	1690	33	0.5
47555.3	10000	41.4711	92.4843	-667	QK	2.3	1	7.4	0	1.0	-1	0.315	-1	2.437	2	7.745	2	1696	43	0.5
47555.2	10000	41.4717	92.4843	-663	QK	2.4	1	7.5	0	0.9	-2	0.316	0	2.532	2	8.004	2	1707	39	0.5
47555.1	10000	41.4723	92.4843	-658	QK	2.3	1	7.6	0	1.0	-1	0.308	-1	2.420	2	7.860	2	1739	49	0.5
47555.0	10000	41.4729	92.4843	-653	QK	2.2	1	7.2	0	1.1	0	0.340	0	2.281	2	6.712	2	1769	40	0.5
47554.9	10000	41.4735	92.4843	-649	QK	2.5	1	7.2	0	1.2	0	0.352	0	2.183	2	6.197	0	1799	38	0.5
47554.8	10000	41.4741	92.4843	-644	QK	2.8	1	7.3	0	1.2	1	0.383	1	2.345	2	6.130	-1	1831	46	0.5
47554.7	10000	41.4747	92.4843	-639	QK	2.8	1	7.3	0	1.2	1	0.377	0	2.273	0	6.030	-1	1864	37	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47554.6	10000	41.4753	92.4843	-634	QK	3.0	1	7.1	0	1.2	1	0.427	1	2.503	1	5.857	-1	1899	53	0.5
47554.5	10000	41.4760	92.4843	-629	QK	3.1	1	7.2	0	1.2	1	0.434	1	2.563	1	5.901	-1	1914	38	0.5
47554.4	10000	41.4766	92.4843	-625	QK	3.2	1	7.2	0	1.2	1	0.440	1	2.653	1	6.027	-1	1927	61	0.5
47554.3	10000	41.4772	92.4843	-620	QK	3.1	1	7.4	0	1.1	0	0.421	1	2.780	1	6.606	0	1931	33	0.5
47554.2	10000	41.4778	92.4843	-616	QK	3.3	2	7.4	0	1.1	0	0.443	1	2.853	1	6.437	0	1953	33	0.4
47554.1	10000	41.4784	92.4843	-612	QK	3.2	1	7.2	0	1.2	0	0.452	1	2.780	1	6.146	0	1956	33	0.4
47554.0	10000	41.4790	92.4843	-608	QK	3.3	2	7.0	0	1.2	0	0.475	2	2.862	1	6.020	-1	1945	42	0.4
47553.9	10000	41.4796	92.4842	-603	QK	3.1	1	7.1	0	1.1	0	0.444	1	2.730	1	6.150	0	1930	52	0.4
47553.8	10000	41.4802	92.4842	-598	QK	3.3	2	6.8	-1	1.1	0	0.485	2	2.941	1	6.066	-1	1917	38	0.4
47553.7	10000	41.4808	92.4842	-594	QK	3.4	2	6.5	-1	1.2	0	0.519	2	2.845	1	5.478	-1	1912	42	0.4
47553.6	10000	41.4814	92.4842	-593	QK	3.4	2	6.8	-1	1.2	1	0.492	2	2.764	1	5.618	-1	1925	45	0.4
47553.5	10000	41.4821	92.4842	-590	QK	3.1	1	7.1	0	1.2	1	0.444	1	2.583	1	5.814	-1	1908	45	0.4
47553.4	10000	41.4827	92.4842	-587	QK	3.1	1	7.3	0	1.2	1	0.418	1	2.591	1	6.197	0	1893	55	0.4
47553.3	10000	41.4833	92.4842	-584	QK	3.1	1	7.7	1	1.2	1	0.406	1	2.709	1	6.676	0	1888	54	0.4
47553.2	10000	41.4839	92.4842	-580	QK	3.1	1	7.7	1	1.2	1	0.407	1	2.659	1	6.532	0	1887	46	0.4
47553.1	10000	41.4845	92.4842	-577	QK	2.8	1	7.6	1	1.2	1	0.372	1	2.358	0	6.345	0	1880	41	0.4
47553.0	10000	41.4851	92.4842	-575	QK	2.9	1	8.2	1	1.1	0	0.347	0	2.503	0	7.219	1	1859	34	0.4
47552.9	10000	41.4857	92.4842	-572	QK	2.9	1	7.8	1	1.1	0	0.368	0	2.539	1	6.903	1	1823	36	0.4
47552.8	10000	41.4863	92.4842	-570	QK	3.1	1	7.6	1	1.1	-1	0.402	1	2.906	1	7.233	1	1798	40	0.4
47552.7	10000	41.4869	92.4842	-568	QK	3.1	1	7.4	0	1.0	-1	0.424	1	3.031	2	7.155	1	1783	47	0.4
47552.6	10000	41.4875	92.4841	-567	QK	3.1	1	6.8	-1	1.0	-1	0.460	2	3.050	2	6.632	0	1753	45	0.4
47552.5	10000	41.4882	92.4841	-566	QK	3.1	1	6.6	-1	1.0	-1	0.460	2	3.063	2	6.657	0	1731	44	0.4
47552.4	10000	41.4888	92.4841	-564	QK	3.3	2	6.9	0	1.0	-1	0.480	2	3.417	2	7.120	1	1705	45	0.4
47552.3	10000	41.4894	92.4841	-563	QK	3.3	2	6.5	-1	1.0	-1	0.511	2	3.362	2	6.585	0	1696	44	0.4
47552.2	10000	41.4900	92.4841	-561	QK	3.3	2	6.5	-1	1.0	-1	0.499	2	3.366	2	6.752	0	1687	28	0.4
47552.1	10000	41.4906	92.4841	-560	QK	3.1	1	6.4	-1	1.0	-1	0.494	2	3.055	2	6.189	0	1688	42	0.4
47552.0	10000	41.4912	92.4841	-558	QK	3.3	2	6.2	-1	1.0	-1	0.528	2	3.223	2	6.100	-1	1691	40	0.4
47551.9	10000	41.4918	92.4841	-557	QK	3.2	1	6.7	-1	1.0	-1	0.474	2	3.150	2	6.644	0	1701	31	0.4
47551.8	10000	41.4924	92.4841	-555	QK	3.2	1	6.9	0	1.0	-1	0.459	1	3.079	2	6.714	0	1727	35	0.4
47551.7	10000	41.4930	92.4841	-553	QK	2.8	1	6.8	-1	1.1	-1	0.418	1	2.634	1	6.309	0	1744	47	0.4
47551.6	10000	41.4937	92.4841	-551	QK	2.7	1	7.0	0	1.1	0	0.379	0	2.362	1	6.233	0	1772	36	0.4
47551.5	10000	41.4943	92.4841	-549	QK	2.7	1	7.4	0	1.1	0	0.361	0	2.390	1	6.622	0	1788	39	0.4
47551.4	10000	41.4949	92.4841	-546	QK	2.8	1	7.8	0	1.1	0	0.357	0	2.469	1	6.909	1	1811	40	0.4
47551.3	10000	41.4955	92.4841	-543	QK	2.6	1	8.0	0	1.2	0	0.324	0	2.191	1	6.770	0	1830	55	0.4
47551.2	10000	41.4961	92.4841	-540	QK	2.8	1	7.3	0	1.2	0	0.380	0	2.274	1	5.981	-1	1839	42	0.4
47551.1	10000	41.4967	92.4841	-536	QK	2.9	1	7.1	0	1.2	1	0.407	1	2.339	1	5.744	-1	1837	47	0.4
47551.0	10000	41.4973	92.4840	-532	QK	3.0	1	7.0	0	1.3	1	0.423	1	2.352	1	5.555	-1	1863	42	0.4
47550.9	10000	41.4979	92.4840	-528	QK	3.3	2	7.0	0	1.2	1	0.461	1	2.618	1	5.676	-1	1864	51	0.4
47550.8	10000	41.4985	92.4840	-524	QK	3.2	2	7.0	0	1.3	1	0.463	1	2.466	1	5.321	-2	1875	45	0.4
47550.7	10000	41.4991	92.4840	-520	QK	3.2	2	6.7	-1	1.3	1	0.474	1	2.417	1	5.096	-2	1894	45	0.4
47550.6	10000	41.4998	92.4840	-515	QK	3.0	2	6.9	0	1.3	1	0.461	1	2.405	1	5.219	-2	1899	38	0.4
47550.5	10000	41.5004	92.4840	-509	QK	3.0	2	7.5	1	1.3	1	0.402	1	2.293	1	5.703	-1	1912	41	0.5
47550.4	10000	41.5010	92.4840	-504	QK	3.0	2	7.9	1	1.3	1	0.383	1	2.339	1	6.108	-1	1906	52	0.5
47550.3	10000	41.5016	92.4840	-498	QK	2.9	2	7.8	1	1.2	1	0.381	1	2.397	1	6.299	0	1888	33	0.5
47550.2	10000	41.5022	92.4840	-493	QK	2.9	2	7.5	1	1.2	1	0.386	1	2.401	1	6.224	0	1881	41	0.5
47550.1	10000	41.5028	92.4840	-488	QK	2.9	2	7.7	1	1.2	1	0.377	1	2.391	1	6.344	0	1881	47	0.5
47550.0	10000	41.5034	92.4840	-483	QK	2.8	2	7.9	1	1.2	1	0.355	1	2.419	1	6.816	0	1847	47	0.5
47549.9	10000	41.5040	92.4840	-477	QK	2.9	2	8.1	1	1.1	1	0.360	1	2.547	1	7.071	1	1838	33	0.5
47549.8	10000	41.5046	92.4840	-471	QK	2.9	2	7.9	1	1.1	1	0.368	1	2.533	1	6.882	1	1827	38	0.5
47549.7	10000	41.5052	92.4839	-465	QK	2.9	2	7.6	1	1.1	1	0.389	1	2.575	1	6.625	0	1825	29	0.5
47549.6	10000	41.5058	92.4839	-459	QK	3.2	2	7.9	1	1.1	1	0.399	1	2.762	1	6.916	0	1825	43	0.5
47549.5	10000	41.5065	92.4839	-453	QK	3.0	1	7.8	1	1.2	0	0.378	0	2.516	1	6.654	0	1824	45	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47549.4	10000	41.5071	92.4839	-448	QK	3.2	1	7.7	1	1.1	0	0.414	1	2.801	1	6.772	0	1830	39	0.5
47549.3	10000	41.5077	92.4839	-442	QK	3.3	2	7.3	0	1.1	0	0.445	1	2.876	1	6.462	0	1832	29	0.5
47549.2	10000	41.5083	92.4839	-436	QK	3.1	1	7.1	0	1.1	0	0.445	1	2.798	1	6.289	0	1816	38	0.5
47549.1	10000	41.5089	92.4839	-430	QK	3.0	1	7.5	0	1.2	0	0.403	1	2.582	1	6.401	0	1808	43	0.5
47549.0	10000	41.5095	92.4839	-428	QK	2.9	1	7.3	0	1.2	1	0.390	1	2.386	0	6.115	-1	1796	48	0.5
47548.9	10000	41.5101	92.4839	-429	QK	2.7	0	7.1	0	1.2	1	0.379	0	2.260	0	5.963	-1	1783	40	0.5
47548.8	10000	41.5107	92.4839	-428	QK	2.8	1	7.3	0	1.2	1	0.388	1	2.386	0	6.149	0	1777	33	0.5
47548.7	10000	41.5113	92.4839	-426	QK	2.5	0	7.7	1	1.1	1	0.330	0	2.218	0	6.712	0	1752	46	0.5
47548.6	10000	41.5120	92.4839	-426	QK	2.4	0	8.0	1	1.2	1	0.307	-1	2.040	0	6.643	0	1755	34	0.5
47548.5	10000	41.5126	92.4839	-426	QK	2.5	0	8.1	1	1.2	1	0.312	-1	2.033	0	6.524	0	1763	37	0.5
47548.4	10000	41.5132	92.4839	-427	QK	2.6	0	7.9	1	1.2	1	0.327	0	2.113	0	6.459	0	1768	43	0.5
47548.3	10000	41.5138	92.4839	-428	QK	2.4	0	8.3	1	1.2	1	0.289	-1	1.916	-1	6.641	0	1784	39	0.5
47548.2	10000	41.5144	92.4839	-430	QK	2.4	0	8.4	2	1.3	1	0.290	-1	1.891	-1	6.527	0	1803	38	0.5
47548.1	10000	41.5150	92.4838	-433	QK	2.4	0	8.0	1	1.3	1	0.297	-1	1.842	-1	6.207	0	1807	41	0.5
47548.0	10000	41.5156	92.4838	-436	QK	2.4	0	7.3	0	1.3	2	0.331	0	1.810	-1	5.463	-1	1820	42	0.5
47547.9	10000	41.5162	92.4838	-440	QK	2.7	0	7.3	0	1.3	2	0.364	0	2.001	-1	5.494	-1	1830	47	0.5
47547.8	10000	41.5168	92.4838	-444	QK	2.5	0	7.1	0	1.3	2	0.348	0	1.893	-1	5.442	-1	1830	46	0.5
47547.7	10000	41.5174	92.4838	-448	QK	2.5	0	7.0	0	1.3	1	0.349	0	1.960	-1	5.622	-1	1841	53	0.5
47547.6	10000	41.5181	92.4838	-453	QK	2.7	0	7.0	0	1.2	1	0.382	0	2.242	0	5.871	-1	1826	43	0.5
47547.5	10000	41.5187	92.4838	-457	QK	2.5	0	7.4	0	1.1	1	0.346	0	2.252	0	6.513	0	1815	41	0.5
47547.4	10000	41.5193	92.4838	-462	QK	2.6	0	7.9	1	1.1	1	0.332	0	2.412	0	7.255	1	1814	47	0.5
47547.3	10000	41.5199	92.4838	-467	QK	2.5	0	7.9	1	1.1	0	0.322	0	2.357	0	7.329	1	1805	38	0.5
47547.2	10000	41.5205	92.4838	-472	QK	2.2	-1	7.9	1	1.1	1	0.274	-1	2.034	0	7.420	1	1799	39	0.5
47547.1	10000	41.5211	92.4838	-477	QK	2.3	0	8.0	1	1.0	-1	0.290	-1	2.229	0	7.698	2	1799	41	0.5
47547.0	10000	41.5217	92.4838	-481	QK	2.3	0	7.7	1	1.1	0	0.301	-1	2.095	0	6.952	1	1781	33	0.5
47546.9	10000	41.5223	92.4838	-485	QK	2.3	-1	7.5	0	1.1	1	0.302	-1	2.016	-1	6.667	0	1782	41	0.5
47546.8	10000	41.5229	92.4838	-489	QK	2.2	-1	7.0	0	1.1	1	0.310	-1	1.897	-1	6.125	-1	1775	52	0.5
47546.7	10000	41.5235	92.4837	-493	QK	2.1	-1	6.5	-1	1.2	1	0.332	0	1.826	-1	5.506	-1	1761	36	0.5
47546.6	10000	41.5241	92.4837	-497	QK	2.2	-1	6.9	0	1.2	1	0.318	0	1.836	-1	5.777	-1	1766	40	0.5
47546.5	10000	41.5247	92.4837	-501	QK	2.7	0	7.0	0	1.2	1	0.378	0	2.243	0	5.939	-1	1753	40	0.5
47546.4	10000	41.5253	92.4837	-504	QK	2.4	0	7.0	0	1.2	1	0.347	0	2.038	0	5.874	-1	1752	29	0.5
47546.3	10000	41.5259	92.4837	-508	QK	2.5	0	7.3	0	1.1	1	0.347	0	2.267	0	6.532	0	1757	49	0.5
47546.2	10000	41.5264	92.4837	-511	QK	2.6	0	7.4	0	1.1	1	0.350	0	2.358	0	6.728	0	1751	37	0.5
47546.1	10000	41.5270	92.4837	-513	QK	2.8	0	7.5	0	1.1	1	0.370	0	2.467	0	6.664	0	1752	35	0.5
47546.0	10000	41.5276	92.4837	-516	QK	2.5	0	7.5	0	1.1	1	0.333	0	2.308	0	6.938	1	1726	34	0.5
47545.9	10000	41.5282	92.4837	-519	QK	2.6	0	7.3	0	1.1	-1	0.355	0	2.449	0	6.899	1	1699	47	0.5
47545.8	10000	41.5288	92.4837	-522	QK	2.2	-1	7.0	0	1.0	-1	0.311	-1	2.105	0	6.761	0	1680	36	0.5
47545.7	10000	41.5294	92.4837	-524	QK	2.3	0	7.0	0	1.0	-1	0.332	0	2.255	0	6.801	0	1675	50	0.5
47545.6	10000	41.5300	92.4837	-527	QK	2.4	0	6.5	-1	1.1	0	0.360	0	2.187	0	6.074	-1	1675	39	0.5
47545.5	10000	41.5305	92.4837	-528	QK	2.5	0	6.4	-1	1.1	0	0.396	1	2.274	0	5.747	-1	1683	35	0.5
47545.4	10000	41.5311	92.4837	-530	QK	2.5	0	6.1	-2	1.0	-1	0.409	1	2.374	0	5.802	-1	1691	46	0.5
47545.3	10000	41.5317	92.4837	-531	QK	2.8	0	6.1	-2	1.1	0	0.451	1	2.512	1	5.572	-1	1729	40	0.5
47545.2	10000	41.5323	92.4836	-533	QAL	2.6	0	5.9	-1	1.1	0	0.439	1	2.284	0	5.203	-1	1754	59	0.5
47545.1	10000	41.5329	92.4836	-534	QAL	3.0	1	6.1	0	1.2	1	0.485	1	2.511	0	5.180	-1	1800	36	0.5
47545.0	10000	41.5335	92.4836	-534	QAL	2.8	1	6.0	-1	1.2	1	0.463	1	2.344	0	5.061	-1	1805	37	0.5
47544.9	10000	41.5341	92.4836	-535	QAL	2.5	0	6.6	0	1.2	1	0.381	0	2.082	0	5.461	-1	1813	46	0.5
47544.8	10000	41.5347	92.4836	-536	QAL	2.2	-1	6.8	0	1.2	1	0.321	-1	1.768	-1	5.500	-1	1811	38	0.5
47544.7	10000	41.5352	92.4836	-536	QAL	2.1	-1	7.1	1	1.3	2	0.293	-1	1.575	-1	5.383	-1	1819	40	0.5
47544.6	10000	41.5358	92.4836	-537	QAL	2.0	-1	7.3	1	1.3	1	0.272	-1	1.529	-1	5.626	-1	1810	49	0.5
47544.5	10000	41.5364	92.4836	-537	QAL	2.1	-1	7.4	1	1.3	1	0.286	-1	1.653	-1	5.783	0	1807	21	0.5
47544.4	10000	41.5370	92.4836	-537	QK	1.9	-1	7.3	1	1.3	1	0.258	-1	1.485	-2	5.753	-1	1778	51	0.5
47544.3	10000	41.5376	92.4836	-537	QK	2.0	-1	7.2	0	1.2	1	0.271	-1	1.570	-1	5.793	-1	1771	41	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47544.2	10000	41.5381	92.4836	-537	QK	2.0	-1	7.1	0	1.2	0	0.280	-1	1.690	-1	6.026	-1	1752	44	0.5
47544.1	10000	41.5387	92.4836	-538	QK	2.3	0	7.4	0	1.1	0	0.309	-1	2.012	-1	6.505	0	1752	45	0.5
47544.0	10000	41.5393	92.4836	-539	QK	2.5	0	7.5	0	1.1	0	0.330	0	2.226	0	6.741	0	1742	38	0.5
47543.9	10000	41.5399	92.4836	-539	QK	2.6	0	7.4	0	1.1	0	0.349	0	2.334	0	6.680	0	1744	45	0.5
47543.8	10000	41.5405	92.4836	-539	QK	2.7	0	7.5	0	1.1	0	0.359	0	2.525	1	7.031	1	1755	36	0.5
47543.7	10000	41.5411	92.4835	-540	QK	2.9	1	7.4	0	1.1	-1	0.394	1	2.756	1	6.995	1	1767	45	0.5
47543.6	10000	41.5417	92.4835	-540	QK	2.8	1	7.5	0	1.1	0	0.372	0	2.518	1	6.763	0	1782	46	0.5
47543.5	10000	41.5423	92.4835	-541	QK	2.7	0	7.6	0	1.1	0	0.354	0	2.361	0	6.676	0	1800	34	0.5
47543.4	10000	41.5428	92.4835	-542	QK	2.5	0	7.6	1	1.1	0	0.330	0	2.217	0	6.725	0	1809	29	0.5
47543.3	10000	41.5434	92.4835	-542	QK	2.2	-1	7.4	0	1.2	0	0.303	-1	1.926	-1	6.355	0	1819	38	0.5
47543.2	10000	41.5440	92.4835	-543	QK	2.2	-1	7.5	0	1.2	1	0.296	-1	1.860	-1	6.280	0	1824	36	0.5
47543.1	10000	41.5446	92.4835	-544	QK	2.0	-1	7.4	0	1.2	1	0.268	-1	1.645	-1	6.139	0	1809	33	0.5
47543.0	10000	41.5452	92.4835	-544	QK	1.8	-1	7.6	0	1.2	1	0.242	-2	1.541	-2	6.365	0	1800	46	0.5
47542.9	10000	41.5458	92.4835	-545	QK	1.9	-1	7.5	0	1.2	1	0.257	-1	1.684	-1	6.550	0	1789	43	0.5
47542.8	10000	41.5463	92.4835	-545	QK	2.1	-1	7.4	0	1.2	0	0.288	-1	1.812	-1	6.284	0	1781	46	0.5
47542.7	10000	41.5469	92.4835	-545	QK	2.2	-1	6.9	0	1.2	0	0.323	0	1.884	-1	5.838	-1	1775	36	0.5
47542.6	10000	41.5475	92.4835	-546	QK	2.4	0	6.8	-1	1.2	0	0.353	0	2.081	0	5.904	-1	1764	45	0.5
47542.5	10000	41.5481	92.4835	-546	QK	2.4	0	6.8	-1	1.1	0	0.346	0	2.123	0	6.143	0	1746	48	0.5
47542.4	10000	41.5487	92.4834	-545	QK	2.4	0	6.9	0	1.1	0	0.347	0	2.113	0	6.085	-1	1747	47	0.5
47542.3	10000	41.5493	92.4834	-546	QK	2.3	-1	6.9	0	1.2	0	0.331	0	1.967	-1	5.948	-1	1747	32	0.4
47542.2	10000	41.5499	92.4834	-545	QK	2.3	0	6.7	-1	1.2	0	0.343	0	1.936	-1	5.650	-1	1739	46	0.4
47542.1	10000	41.5504	92.4834	-544	QK	2.2	-1	6.5	-1	1.2	1	0.330	0	1.818	-1	5.501	-1	1726	50	0.5
47542.0	10000	41.5510	92.4834	-544	QK	2.0	-1	6.8	-1	1.2	1	0.293	-1	1.660	-1	5.670	-1	1710	44	0.5
47541.9	10000	41.5516	92.4834	-543	QK	1.8	-1	6.9	0	1.2	1	0.265	-1	1.496	-2	5.655	-1	1697	45	0.5
47541.8	10000	41.5522	92.4834	-543	QK	1.7	-2	6.8	-1	1.3	1	0.247	-1	1.329	-2	5.381	-2	1696	53	0.5
47541.7	10000	41.5528	92.4834	-542	QK	1.6	-2	6.9	0	1.3	1	0.227	-2	1.229	-2	5.406	-2	1687	42	0.5
47541.6	10000	41.5534	92.4834	-541	QK	1.8	-1	6.8	-1	1.3	1	0.271	-1	1.443	-2	5.325	-2	1691	43	0.5
47541.5	10000	41.5539	92.4834	-540	QK	1.8	-1	7.2	0	1.2	1	0.250	-1	1.493	-2	5.964	-1	1702	41	0.5
47541.4	10000	41.5545	92.4834	-538	QK	2.0	-1	7.1	0	1.2	1	0.283	-1	1.644	-1	5.818	-1	1716	36	0.5
47541.3	10000	41.5551	92.4834	-536	QK	2.1	0	6.8	-1	1.2	1	0.316	0	1.801	-1	5.696	-1	1728	39	0.5
47541.2	10000	41.5557	92.4834	-534	QK	2.6	1	6.7	-1	1.2	1	0.394	1	2.268	-1	5.748	-1	1730	42	0.5
47541.1	10000	41.5563	92.4834	-532	QK	2.8	1	6.6	-1	1.1	1	0.423	2	2.472	-1	5.850	-1	1747	46	0.5
47541.0	10000	41.5569	92.4834	-529	QK	3.2	1	6.4	-1	1.1	1	0.499	2	2.805	-1	5.620	-1	1760	40	0.5
47540.9	10000	41.5575	92.4834	-526	QK	2.8	1	6.5	-1	1.1	1	0.438	2	2.545	-1	5.810	-1	1754	44	0.5
47540.8	10000	41.5580	92.4833	-523	QK	3.0	1	6.4	-1	1.2	1	0.466	2	2.542	-1	5.458	-1	1751	42	0.5
47540.7	10000	41.5586	92.4833	-520	QK	2.9	1	6.4	-1	1.2	1	0.454	1	2.461	-2	5.421	-2	1749	43	0.5
47540.6	10000	41.5592	92.4833	-516	QK	3.1	1	6.7	-1	1.2	1	0.454	1	2.607	-1	5.737	-1	1753	48	0.5
47540.5	10000	41.5598	92.4833	-511	QK	2.8	1	6.9	0	1.1	1	0.408	1	2.459	0	6.031	-1	1761	35	0.5
47540.4	10000	41.5604	92.4833	-505	QK	3.0	1	7.0	0	1.1	1	0.426	1	2.627	1	6.166	0	1758	43	0.5
47540.3	10000	41.5610	92.4833	-501	QK	2.8	1	7.3	0	1.1	1	0.384	0	2.549	1	6.647	0	1750	36	0.5
47540.2	10000	41.5616	92.4833	-496	QK	3.0	1	7.3	0	1.1	1	0.411	0	2.716	1	6.606	0	1753	45	0.5
47540.1	10000	41.5621	92.4833	-490	QK	2.8	1	7.3	0	1.1	1	0.376	0	2.443	1	6.493	0	1757	54	0.5
47540.0	10000	41.5627	92.4833	-485	QK	2.7	1	7.7	0	1.1	1	0.351	0	2.397	1	6.831	0	1770	35	0.5
47539.9	10000	41.5633	92.4833	-479	QK	2.6	1	7.7	0	1.2	1	0.343	0	2.254	0	6.574	0	1764	35	0.5
47539.8	10000	41.5639	92.4833	-473	QK	2.5	1	7.9	0	1.2	1	0.315	0	2.136	0	6.776	0	1769	48	0.5
47539.7	10000	41.5645	92.4833	-466	QK	2.3	1	8.1	0	1.2	1	0.285	-1	1.912	-1	6.713	0	1760	43	0.5
47539.6	10000	41.5651	92.4833	-460	QK	2.2	1	8.2	0	1.2	1	0.271	-1	1.862	-1	6.861	1	1755	53	0.5
47539.5	10000	41.5657	92.4832	-453	QK	2.2	1	8.2	0	1.2	1	0.270	-1	1.870	-1	6.920	1	1750	46	0.5
47539.4	10000	41.5662	92.4832	-447	QK	2.5	1	7.9	0	1.2	1	0.314	-1	2.312	0	7.371	1	1747	46	0.5
47539.3	10000	41.5668	92.4832	-440	QK	2.4	1	7.9	0	1.2	1	0.312	-1	2.338	0	7.492	1	1730	38	0.5
47539.2	10000	41.5674	92.4832	-433	QK	2.5	1	7.9	0	1.2	1	0.304	-1	2.259	0	7.435	1	1727	41	0.5
47539.1	10000	41.5680	92.4832	-426	QK	2.5	1	7.9	1	1.1	0	0.317	0	2.247	0	7.088	1	1709	31	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47539.0	10000	41.5686	92.4832	-420	QK	2.5	0	7.6	1	1.1	0	0.334	0	2.265	0	6.792	0	1705	45	0.5
47538.9	10000	41.5692	92.4832	-412	QK	2.5	0	7.2	0	1.2	0	0.348	0	2.170	0	6.229	0	1711	44	0.5
47538.8	10000	41.5697	92.4832	-405	QK	2.3	-1	7.1	0	1.2	0	0.319	0	1.939	-1	6.087	-1	1706	44	0.5
47538.7	10000	41.5703	92.4832	-398	QK	2.0	-1	7.0	0	1.2	1	0.279	-1	1.616	-1	5.799	-1	1697	36	0.5
47538.6	10000	41.5709	92.4832	-392	QK	2.2	-1	7.0	0	1.2	1	0.315	-1	1.826	-1	5.804	-1	1689	43	0.5
47538.5	10000	41.5715	92.4832	-384	QK	2.2	-1	6.6	-1	1.2	1	0.328	0	1.821	-1	5.549	-1	1682	41	0.5
47538.4	10000	41.5721	92.4832	-378	QK	2.0	-1	6.3	-1	1.2	0	0.317	0	1.712	-1	5.404	-2	1683	47	0.5
47538.3	10000	41.5727	92.4832	-371	QK	1.8	-1	6.6	-1	1.2	0	0.278	-1	1.557	-1	5.602	-1	1692	45	0.5
47538.2	10000	41.5733	92.4832	-363	QK	1.9	-1	6.8	-1	1.2	0	0.274	-1	1.600	-1	5.833	-1	1682	39	0.5
47538.1	10000	41.5738	92.4832	-357	QK	1.9	-1	6.7	-1	1.2	1	0.280	-1	1.536	-2	5.479	-1	1699	43	0.5
47538.0	10000	41.5744	92.4831	-350	QK	2.0	-1	6.7	-1	1.2	1	0.298	-1	1.614	-1	5.415	-2	1699	42	0.5
47537.9	10000	41.5750	92.4831	-342	QK	1.7	-2	6.4	-1	1.2	1	0.263	-1	1.358	-2	5.169	-2	1699	58	0.5
47537.8	10000	41.5756	92.4831	-335	QK	1.6	-2	7.0	0	1.3	1	0.235	-2	1.297	-2	5.511	-1	1706	43	0.5
47537.7	10000	41.5762	92.4831	-328	QK	1.7	-2	6.9	0	1.3	1	0.241	-2	1.317	-2	5.473	-1	1714	39	0.5
47537.6	10000	41.5768	92.4831	-320	QK	2.0	-1	6.9	0	1.2	1	0.285	-1	1.600	-1	5.610	-1	1709	48	0.5
47537.5	10000	41.5774	92.4831	-312	QK	1.8	-1	6.8	-1	1.2	1	0.271	-1	1.531	-2	5.652	-1	1709	36	0.6
47537.4	10000	41.5779	92.4831	-303	QK	2.0	-1	7.1	0	1.1	0	0.280	-1	1.747	-1	6.233	0	1697	47	0.6
47537.3	10000	41.5785	92.4831	-295	QK	1.9	-1	7.4	0	1.1	0	0.251	-1	1.651	-1	6.574	0	1686	34	0.6
47537.2	10000	41.5791	92.4831	-286	QK	1.8	-1	7.6	1	1.1	0	0.241	-2	1.627	-1	6.757	0	1681	41	0.6
47537.1	10000	41.5797	92.4831	-278	QK	1.8	-1	7.5	1	1.1	0	0.243	-1	1.679	-1	6.897	1	1671	39	0.6
47537.0	10000	41.5803	92.4831	-270	QK	1.9	-1	7.4	0	1.1	0	0.250	-1	1.718	-1	6.861	1	1664	38	0.6
47536.9	10000	41.5809	92.4831	-261	QK	1.8	-1	7.7	1	1.1	0	0.235	-2	1.666	-1	7.097	1	1645	37	0.6
47536.8	10000	41.5815	92.4831	-253	QK	1.8	-2	7.8	1	1.1	0	0.228	-2	1.606	-1	7.040	1	1638	48	0.6
47536.7	10000	41.5820	92.4830	-244	QK	1.7	-2	7.8	1	1.1	0	0.222	-2	1.555	-2	7.009	1	1639	53	0.6
47536.6	10000	41.5826	92.4830	-235	QK	1.8	-1	7.3	0	1.1	0	0.248	-1	1.630	-1	6.568	0	1644	47	0.6
47536.5	10000	41.5832	92.4830	-227	QK	1.9	-1	7.2	0	1.1	0	0.263	-1	1.689	-1	6.429	0	1646	47	0.6
47536.4	10000	41.5838	92.4830	-220	QK	2.2	-1	6.9	-1	1.1	0	0.317	-1	1.943	-1	6.132	-1	1656	43	0.6
47536.3	10000	41.5844	92.4830	-212	QK	2.4	0	7.3	0	1.1	0	0.328	0	2.088	0	6.362	0	1668	52	0.6
47536.2	10000	41.5850	92.4830	-205	QK	2.2	-1	7.0	0	1.1	0	0.311	-1	1.921	-1	6.166	0	1695	36	0.6
47536.1	10000	41.5855	92.4830	-199	QK	2.3	0	6.8	-1	1.1	0	0.338	0	2.049	0	6.058	-1	1709	35	0.6
47536.0	10000	41.5861	92.4830	-193	QK	2.4	0	6.7	-1	1.1	0	0.355	0	2.109	0	5.939	-1	1713	44	0.6
47535.9	10000	41.5867	92.4830	-189	QK	2.5	0	6.5	-1	1.2	0	0.385	0	2.180	0	5.658	-1	1717	41	0.6
47535.8	10000	41.5873	92.4830	-185	QK	2.4	0	7.0	0	1.1	0	0.349	0	2.125	0	6.089	-1	1718	46	0.6
47535.7	10000	41.5879	92.4830	-182	QK	2.2	-1	6.7	-1	1.2	0	0.326	-1	1.870	-1	5.736	-1	1709	44	0.6
47535.6	10000	41.5885	92.4830	-181	QK	1.9	-1	6.5	-1	1.2	0	0.296	-1	1.610	-1	5.439	-1	1695	48	0.6
47535.5	10000	41.5891	92.4830	-180	QK	2.1	-1	6.5	-1	1.2	0	0.322	-1	1.693	-1	5.262	-2	1691	40	0.6
47535.4	10000	41.5896	92.4830	-180	QK	2.0	-1	6.5	-1	1.2	0	0.299	-1	1.587	-1	5.304	-2	1680	49	0.6
47535.3	10000	41.5902	92.4830	-181	QK	2.0	-1	6.3	-1	1.3	0	0.310	-1	1.554	-2	5.019	-2	1678	56	0.6
47535.2	10000	41.5908	92.4829	-183	QK	1.6	-2	6.6	-1	1.3	0	0.251	-1	1.293	-2	5.154	-2	1684	39	0.6
47535.1	10000	41.5914	92.4829	-185	QK	1.7	-2	6.1	-2	1.3	0	0.283	-1	1.342	-2	4.742	-2	1693	50	0.6
47535.0	10000	41.5920	92.4829	-188	QK	1.7	-2	6.5	-1	1.2	0	0.253	-1	1.334	-2	5.263	-2	1700	40	0.6
47534.9	10000	41.5926	92.4829	-192	QK	1.5	-2	6.6	-1	1.2	0	0.235	-2	1.311	-2	5.581	-1	1695	59	0.6
47534.8	10000	41.5932	92.4829	-196	QK	1.5	-2	6.6	-1	1.2	0	0.231	-2	1.300	-2	5.634	-1	1690	47	0.6
47534.7	10000	41.5937	92.4829	-201	QK	1.7	-2	6.4	-1	1.2	0	0.264	-1	1.414	-2	5.356	-2	1691	57	0.6
47534.6	10000	41.5943	92.4829	-205	QK	1.6	-2	6.7	-1	1.2	0	0.243	-1	1.393	-2	5.726	-1	1683	44	0.6
47534.5	10000	41.5949	92.4829	-210	QK	1.7	-2	7.1	0	1.1	0	0.241	-2	1.590	-1	6.585	0	1668	37	0.6
47534.4	10000	41.5955	92.4829	-215	QK	1.7	-2	7.3	0	1.1	0	0.238	-2	1.625	-1	6.816	0	1646	49	0.6
47534.3	10000	41.5961	92.4829	-219	QK	1.8	-1	7.3	0	1.1	0	0.251	-1	1.692	-1	6.750	0	1635	47	0.6
47534.2	10000	41.5967	92.4829	-224	QK	2.0	-1	7.0	0	1.1	0	0.288	-1	1.817	-1	6.310	0	1620	50	0.6
47534.1	10000	41.5973	92.4829	-228	QK	1.9	-1	6.8	-1	1.1	0	0.273	-1	1.696	-1	6.212	0	1603	39	0.6
47534.0	10000	41.5978	92.4829	-232	QK	1.6	-2	6.7	-1	1.1	0	0.235	-2	1.442	-2	6.141	0	1576	50	0.6
47533.9	10000	41.5984	92.4828	-235	QK	1.5	-2	6.4	-1	1.1	0	0.226	-2	1.340	-2	5.928	-1	1539	50	0.6

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47533.8	10000	41.5990	92.4828	-238	QK	1.4	-2	6.3	-1	1.1	0	0.222	-2	1.241	-2	5.578	-1	1510	38	0.6
47533.7	10000	41.5996	92.4828	-241	QK	1.4	-2	6.1	-2	1.1	0	0.236	-2	1.278	-2	5.418	-2	1504	42	0.6
47533.6	10000	41.6002	92.4828	-243	QK	1.5	-2	5.6	-2	1.1	0	0.273	-1	1.370	-2	5.024	-2	1490	45	0.6
47533.5	10000	41.6008	92.4828	-244	QK	1.5	-2	5.8	-2	1.1	0	0.253	-1	1.356	-2	5.369	-2	1499	40	0.6
47533.4	10000	41.6013	92.4828	-245	QK	1.5	-2	6.1	-2	1.1	0	0.251	-1	1.427	-2	5.690	-1	1496	38	0.6
47533.3	10000	41.6019	92.4828	-245	QK	1.7	-2	6.2	-1	1.0	-1	0.275	-1	1.657	-1	6.031	-1	1519	38	0.6
47533.2	10000	41.6025	92.4828	-244	QK	1.9	-1	6.5	-1	1.0	-1	0.288	-1	1.864	-1	6.463	0	1563	36	0.6
47533.1	10000	41.6031	92.4828	-243	QK	2.0	-1	6.5	-1	1.0	-1	0.309	-1	1.989	-1	6.426	0	1604	36	0.6
47533.0	10000	41.6037	92.4828	-241	QK	2.2	-1	7.0	0	1.0	-1	0.308	-1	2.107	0	6.841	1	1638	34	0.6
47532.9	10000	41.6043	92.4828	-238	QK	2.0	-1	7.3	0	1.0	-1	0.269	-1	1.902	-1	7.060	1	1642	32	0.6
47532.8	10000	41.6049	92.4828	-235	QK	2.2	-1	7.3	0	1.0	-1	0.295	-1	2.076	0	7.037	1	1672	43	0.6
47532.7	10000	41.6054	92.4828	-232	QK	2.2	-1	7.2	0	1.1	-1	0.300	-1	2.053	0	6.835	1	1693	35	0.6
47532.6	10000	41.6060	92.4828	-228	QK	2.3	-1	7.5	0	1.1	0	0.298	-1	2.054	0	6.890	1	1714	34	0.6
47532.5	10000	41.6066	92.4828	-224	QK	2.2	-1	7.4	0	1.1	0	0.290	-1	1.896	-1	6.536	0	1719	47	0.6
47532.4	10000	41.6072	92.4828	-219	QK	2.0	-1	7.1	0	1.1	0	0.284	-1	1.804	-1	6.353	0	1712	34	0.6
47532.3	10000	41.6078	92.4828	-213	QK	1.9	-1	6.9	0	1.1	0	0.278	-1	1.677	-1	6.041	-1	1708	54	0.6
47532.2	10000	41.6084	92.4828	-207	QK	2.0	-1	7.1	0	1.2	1	0.287	-1	1.710	-1	5.955	-1	1727	40	0.6
47532.1	10000	41.6090	92.4828	-203	QK	1.8	-1	7.1	0	1.2	1	0.254	-1	1.499	-2	5.898	-1	1709	51	0.6
47532.0	10000	41.6096	92.4828	-197	QK	1.7	-2	7.3	0	1.2	1	0.225	-2	1.390	-2	6.163	0	1691	41	0.6
47531.9	10000	41.6102	92.4828	-192	QK	1.6	-2	7.3	0	1.2	1	0.219	-2	1.364	-2	6.219	0	1668	48	0.6
47531.8	10000	41.6108	92.4828	-185	QK	1.7	-2	7.4	0	1.2	0	0.235	-2	1.484	-2	6.317	0	1664	43	0.6
47531.7	10000	41.6114	92.4828	-178	QK	1.8	-1	7.7	1	1.2	0	0.240	-2	1.600	-1	6.662	0	1673	49	0.6
47531.6	10000	41.6120	92.4828	-170	QK	1.7	-2	7.7	1	1.1	0	0.222	-2	1.512	-2	6.811	0	1678	48	0.6
47531.5	10000	41.6126	92.4828	-163	QK	1.7	-2	7.8	1	1.1	0	0.217	-2	1.511	-2	6.967	1	1681	43	0.6
47531.4	10000	41.6132	92.4828	-155	QK	1.8	-1	7.7	1	1.1	0	0.239	-2	1.647	-1	6.899	1	1699	47	0.6
47531.3	10000	41.6138	92.4828	-147	QK	2.2	-1	7.6	1	1.1	0	0.284	-1	1.928	-1	6.781	0	1724	42	0.6
47531.2	10000	41.6144	92.4828	-140	QK	2.2	-1	7.6	1	1.1	0	0.285	-1	1.918	-1	6.733	0	1742	32	0.6
47531.1	10000	41.6150	92.4828	-132	QK	2.1	-1	7.3	0	1.2	0	0.292	-1	1.836	-1	6.289	0	1750	44	0.6
47531.0	10000	41.6156	92.4828	-124	QK	2.1	-1	7.0	0	1.2	0	0.297	-1	1.721	-1	5.804	-1	1747	42	0.6
47530.9	10000	41.6162	92.4828	-116	QK	2.1	-1	7.0	0	1.2	0	0.306	-1	1.820	-1	5.954	-1	1736	31	0.6
47530.8	10000	41.6168	92.4828	-108	QK	2.2	-1	6.9	0	1.2	0	0.322	0	1.883	-1	5.849	-1	1737	55	0.6
47530.7	10000	41.6174	92.4828	-99	QK	2.2	-1	7.0	0	1.2	0	0.310	-1	1.878	-1	6.064	-1	1718	40	0.6
47530.6	10000	41.6180	92.4828	-90	QK	2.2	-1	6.7	-1	1.2	0	0.325	0	1.817	-1	5.600	-1	1717	45	0.6
47530.5	10000	41.6186	92.4828	-80	QK	2.1	-1	7.0	0	1.2	0	0.303	-1	1.737	-1	5.726	-1	1712	47	0.6
47530.4	10000	41.6192	92.4828	-70	QK	2.0	-1	6.8	-1	1.2	0	0.288	-1	1.687	-1	5.850	-1	1710	48	0.6
47530.3	10000	41.6198	92.4828	-60	QK	2.0	-1	7.2	0	1.2	0	0.283	-1	1.770	-1	6.253	0	1700	39	0.5
47530.2	10000	41.6204	92.4828	-50	QK	2.0	-1	7.1	0	1.2	0	0.287	-1	1.723	-1	6.009	-1	1698	37	0.6
47530.1	10000	41.6209	92.4828	-40	QK	1.9	-1	7.0	0	1.2	1	0.274	-1	1.608	-1	5.866	-1	1690	41	0.6
47530.0	10000	41.6215	92.4828	-29	QK	2.0	-1	7.1	0	1.1	0	0.279	-1	1.731	-1	6.200	0	1680	42	0.6
47529.9	10000	41.6221	92.4828	-17	QK	1.7	-2	7.0	0	1.1	0	0.245	-1	1.560	-1	6.375	0	1664	32	0.6
47529.8	10000	41.6227	92.4828	-4	QK	1.8	-1	6.5	-1	1.1	-1	0.276	-1	1.698	-1	6.159	0	1650	37	0.6
47529.7	10000	41.6233	92.4828	10	QK	1.8	-2	6.8	-1	1.0	-1	0.260	-1	1.717	-1	6.602	0	1643	37	0.6
47529.6	10000	41.6239	92.4828	24	QK	1.7	-2	6.5	-1	1.1	0	0.258	-1	1.569	-1	6.080	-1	1632	40	0.6
47529.5	10000	41.6245	92.4828	38	QK	1.7	-2	6.5	-1	1.0	-1	0.256	-1	1.618	-1	6.325	0	1607	44	0.6
47529.4	10000	41.6251	92.4828	53	QK	1.7	-2	6.8	-1	1.0	-1	0.249	-1	1.709	-1	6.867	1	1589	36	0.6
47529.3	10000	41.6257	92.4828	69	QK	1.6	-2	6.3	-1	1.0	-1	0.248	-1	1.588	-1	6.414	0	1570	50	0.6
47529.2	10000	41.6263	92.4828	85	QK	1.7	-2	6.3	-1	1.0	-1	0.265	-1	1.734	-1	6.541	0	1551	44	0.6
47529.1	10000	41.6269	92.4828	101	QK	1.8	-1	6.3	-1	1.0	-1	0.292	-1	1.914	-1	6.562	0	1539	29	0.6
47529.0	10000	41.6275	92.4828	113	QK	2.0	-1	6.1	-2	1.0	0	0.326	0	2.053	0	6.290	0	1515	52	0.6
47528.9	10000	41.6281	92.4828	123	QK	2.0	-1	6.4	-1	0.9	-2	0.311	-1	2.164	0	6.947	1	1515	39	0.6
47528.8	10000	41.6287	92.4828	136	QK	1.9	-1	6.1	-2	1.0	-1	0.319	0	1.999	-1	6.276	0	1522	49	0.6
47528.7	10000	41.6293	92.4828	150	QK	2.0	-1	5.9	-2	1.0	-1	0.343	0	2.016	-1	5.885	-1	1526	37	0.6

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47528.6	10000	41.6299	92.4828	164	QK	2.0	-1	6.1	-1	1.1	0	0.329	0	1.883	-1	5.729	-1	1531	46	0.6
47528.5	10000	41.6305	92.4828	178	QK	1.9	-1	6.1	-2	1.1	0	0.306	-1	1.727	-1	5.643	-1	1539	44	0.6
47528.4	10000	41.6311	92.4828	191	QK	1.7	-2	6.3	-1	1.1	0	0.266	-1	1.548	-2	5.815	-1	1560	44	0.6
47528.3	10000	41.6317	92.4828	205	QK	1.8	-1	6.6	-1	1.1	0	0.273	-1	1.676	-1	6.148	0	1573	48	0.6
47528.2	10000	41.6323	92.4828	217	QK	1.9	-1	6.6	-1	1.1	0	0.283	-1	1.729	-1	6.108	-1	1587	42	0.6
47528.1	10000	41.6329	92.4828	229	QK	2.0	-1	7.0	0	1.1	-1	0.287	-1	1.901	-1	6.622	0	1601	60	0.6
47528.0	10000	41.6335	92.4828	239	QK	1.8	-2	6.8	-1	1.0	-1	0.260	-1	1.764	-1	6.786	0	1599	32	0.6
47527.9	10000	41.6341	92.4828	248	QK	1.8	-1	6.6	-1	1.0	-1	0.278	-1	1.845	-1	6.627	0	1624	43	0.6
47527.8	10000	41.6347	92.4828	255	QK	2.3	0	6.9	0	1.0	-1	0.331	0	2.324	0	7.024	1	1643	43	0.6
47527.7	10000	41.6353	92.4828	262	QK	2.5	0	7.0	0	1.0	-1	0.358	0	2.562	1	7.150	1	1650	45	0.6
47527.6	10000	41.6359	92.4828	268	QK	2.5	0	6.7	-1	1.0	-1	0.365	0	2.439	0	6.673	0	1652	60	0.6
47527.5	10000	41.6365	92.4828	273	QK	2.6	0	6.2	-1	1.0	-1	0.416	1	2.502	0	6.018	-1	1652	44	0.6
47527.4	10000	41.6371	92.4828	277	QK	2.6	0	6.1	-2	1.0	-1	0.435	1	2.648	1	6.082	-1	1653	48	0.6
47527.3	10000	41.6377	92.4828	280	QK	3.0	1	6.3	-1	1.0	-1	0.477	2	2.933	1	6.153	0	1666	45	0.6
47527.2	10000	41.6383	92.4828	283	QK	3.0	1	6.3	-1	1.0	-1	0.480	2	2.986	2	6.215	0	1668	46	0.6
47527.1	10000	41.6389	92.4828	284	QK	2.8	1	6.2	-1	1.1	0	0.449	1	2.578	1	5.744	-1	1660	42	0.6
47527.0	10000	41.6395	92.4828	283	QK	2.6	0	5.7	-2	1.1	0	0.453	1	2.347	0	5.176	-2	1640	53	0.6
47526.9	10000	41.6401	92.4828	282	QK	2.8	1	5.5	-2	1.1	-1	0.511	2	2.667	1	5.222	-2	1629	41	0.7
47526.8	10000	41.6407	92.4828	280	QAL	2.7	0	5.6	-1	1.0	0	0.479	1	2.659	1	5.550	-1	1605	45	0.7
47526.7	10000	41.6413	92.4828	276	QAL	2.8	1	5.4	-1	1.0	0	0.522	2	2.776	1	5.320	-1	1594	46	0.7
47526.6	10000	41.6419	92.4828	272	QAL	2.6	0	5.3	-1	1.0	-1	0.488	1	2.564	0	5.251	-1	1580	40	0.7
47526.5	10000	41.6425	92.4828	267	QAL	2.5	0	5.1	-1	1.0	0	0.480	1	2.456	0	5.122	-1	1557	48	0.7
47526.4	10000	41.6431	92.4828	260	QAL	2.2	0	5.3	-1	1.0	-1	0.422	0	2.352	0	5.575	-1	1551	39	0.7
47526.3	10000	41.6437	92.4828	253	QAL	2.4	0	5.6	-1	1.0	-1	0.436	1	2.499	0	5.734	0	1568	47	0.7
47526.2	10000	41.6443	92.4828	246	QAL	2.3	0	5.8	-1	1.0	-1	0.386	0	2.261	0	5.863	0	1577	49	0.7
47526.1	10000	41.6449	92.4828	238	QAL	2.5	0	5.9	-1	1.1	0	0.420	0	2.337	0	5.570	-1	1597	37	0.7
47526.0	10000	41.6455	92.4828	230	QAL	2.2	0	6.1	0	1.1	0	0.370	0	2.126	0	5.748	0	1614	40	0.7
47525.9	10000	41.6461	92.4828	222	QAL	2.5	0	6.0	-1	1.1	0	0.413	0	2.268	0	5.491	-1	1625	56	0.7
47525.8	10000	41.6467	92.4828	214	QAL	2.3	0	6.3	0	1.1	0	0.364	0	2.071	0	5.695	-1	1632	58	0.7
47525.7	10000	41.6473	92.4828	203	QAL	2.3	0	6.3	0	1.1	0	0.358	0	2.096	0	5.862	0	1637	47	0.7
47525.6	10000	41.6479	92.4828	187	QAL	2.0	-1	6.2	0	1.1	0	0.319	-1	1.822	-1	5.712	-1	1620	48	0.7
47525.5	10000	41.6485	92.4828	172	QK	1.8	-2	6.1	-1	1.1	0	0.288	-1	1.628	-1	5.659	-1	1605	41	0.7
47525.4	10000	41.6491	92.4828	161	QK	1.6	-2	6.4	-1	1.0	-1	0.256	-1	1.671	-1	6.524	0	1572	35	0.7
47525.3	10000	41.6496	92.4828	149	QK	1.6	-2	6.3	-1	1.0	-1	0.247	-1	1.608	-1	6.507	0	1541	40	0.7
47525.2	10000	41.6502	92.4828	136	QK	1.3	-3	6.7	-1	0.9	-2	0.190	-2	1.416	-2	7.439	1	1506	45	0.7
47525.1	10000	41.6508	92.4828	123	QK	1.5	-2	6.2	-1	0.9	-2	0.242	-2	1.705	-1	7.043	1	1491	46	0.8
47525.0	10000	41.6514	92.4828	109	QK	1.5	-2	6.2	-1	0.9	-2	0.241	-2	1.671	-1	6.933	1	1485	35	0.8
47524.9	10000	41.6520	92.4828	95	QK	1.6	-2	6.2	-1	0.8	-2	0.267	-1	1.972	-1	7.396	1	1477	39	0.8
47524.8	10000	41.6526	92.4828	80	QK	1.8	-2	6.2	-1	0.8	-2	0.284	-1	2.069	0	7.285	1	1489	43	0.8
47524.7	10000	41.6532	92.4828	65	QK	1.8	-1	5.9	-2	0.9	-2	0.310	-1	1.953	-1	6.293	0	1517	52	0.8
47524.6	10000	41.6538	92.4828	50	QK	1.9	-1	6.2	-1	1.0	-1	0.311	-1	1.944	-1	6.259	0	1532	40	0.8
47524.5	10000	41.6544	92.4828	34	QK	1.8	-1	6.0	-2	1.0	-1	0.308	-1	1.844	-1	5.986	-1	1557	48	0.8
47524.4	10000	41.6550	92.4828	18	QK	1.7	-2	6.7	-1	1.0	-1	0.248	-1	1.613	-1	6.506	0	1578	46	0.8
47524.3	10000	41.6556	92.4828	2	QK	1.9	-1	6.7	-1	1.0	-1	0.290	-1	1.869	-1	6.440	0	1577	38	0.8
47524.2	10000	41.6562	92.4828	-15	QK	2.0	-1	6.7	-1	1.1	0	0.298	-1	1.826	-1	6.122	-1	1595	43	0.8
47524.1	10000	41.6568	92.4828	-28	QK	1.9	-1	7.0	0	1.1	0	0.272	-1	1.751	-1	6.447	0	1595	45	0.8
47524.0	10000	41.6574	92.4828	-43	QK	1.7	-2	7.1	0	1.1	0	0.241	-2	1.598	-1	6.629	0	1596	47	0.8
47523.9	10000	41.6580	92.4828	-58	QK	1.7	-2	7.2	0	1.1	0	0.235	-2	1.562	-1	6.637	0	1611	43	0.8
47523.8	10000	41.6586	92.4828	-73	QK	1.9	-1	7.1	0	1.2	0	0.275	-1	1.671	-1	6.070	-1	1612	55	0.8
47523.7	10000	41.6592	92.4828	-89	QAL	2.1	-1	6.6	0	1.1	0	0.313	-1	1.919	-1	6.138	0	1610	43	0.8
47523.6	10000	41.6598	92.4828	-104	QAL	1.9	-1	6.2	0	1.1	0	0.308	-1	1.785	-1	5.789	0	1616	48	0.8
47523.5	10000	41.6604	92.4828	-120	QAL	1.9	-1	6.7	0	1.0	0	0.286	-1	1.874	-1	6.561	1	1620	52	0.8

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47523.4	10000	41.6610	92.4828	-135	QAL	1.9	-1	6.4	0	1.0	0	0.290	-1	1.829	-1	6.314	0	1615	38	0.8
47523.3	10000	41.6616	92.4828	-150	QAL	1.9	-1	6.6	0	1.0	-1	0.281	-1	1.897	-1	6.762	1	1611	47	0.8
47523.2	10000	41.6622	92.4828	-164	QAL	1.9	-1	6.4	0	0.9	-1	0.299	-1	2.024	-1	6.777	1	1600	37	0.8
47523.1	10000	41.6628	92.4828	-178	QAL	1.8	-1	6.2	0	0.9	-1	0.297	-1	2.132	0	7.188	1	1595	37	0.8
47523.0	10000	41.6634	92.4828	-191	QAL	1.9	-1	6.2	0	0.9	-1	0.308	-1	2.160	0	7.020	1	1601	43	0.8
47522.9	10000	41.6640	92.4828	-206	QAL	2.1	-1	6.5	0	0.9	-1	0.323	-1	2.227	0	6.896	1	1605	39	0.8
47522.8	10000	41.6646	92.4828	-220	QAL	2.0	-1	6.5	0	1.0	-1	0.303	-1	2.034	-1	6.704	1	1605	44	0.8
47522.7	10000	41.6652	92.4828	-234	QAL	1.9	-1	6.8	0	1.0	-1	0.284	-1	1.974	-1	6.941	1	1606	45	0.8
47522.6	10000	41.6658	92.4828	-248	QAL	1.9	-1	6.7	0	1.0	0	0.287	-1	1.910	-1	6.648	1	1615	46	0.8
47522.5	10000	41.6664	92.4828	-260	QAL	1.8	-1	6.8	0	1.0	-1	0.262	-1	1.782	-1	6.789	1	1619	40	0.8
47522.4	10000	41.6670	92.4828	-269	QAL	1.9	-1	7.2	1	1.1	0	0.258	-1	1.753	-1	6.800	1	1636	42	0.8
47522.3	10000	41.6676	92.4828	-279	QAL	1.8	-1	7.1	1	1.1	0	0.248	-2	1.611	-1	6.488	0	1635	41	0.8
47522.2	10000	41.6682	92.4828	-292	QAL	1.5	-2	7.1	1	1.1	0	0.217	-2	1.436	-2	6.611	1	1643	40	0.8
47522.1	10000	41.6688	92.4828	-307	QAL	1.6	-2	6.8	0	1.1	0	0.239	-2	1.513	-1	6.342	0	1644	43	0.8
47522.0	10000	41.6694	92.4828	-317	QAL	1.7	-1	6.9	0	1.1	0	0.241	-2	1.538	-1	6.371	0	1655	44	0.8
47521.9	10000	41.6700	92.4828	-326	QAL	1.7	-1	6.9	0	1.1	0	0.245	-2	1.531	-1	6.254	0	1662	36	0.8
47521.8	10000	41.6706	92.4828	-338	QK	1.7	-2	7.2	0	1.1	0	0.233	-2	1.471	-2	6.312	0	1656	40	0.8
47521.7	10000	41.6712	92.4828	-347	QK	1.6	-2	7.1	0	1.1	0	0.227	-2	1.469	-2	6.458	0	1636	42	0.8
47521.6	10000	41.6718	92.4828	-355	QK	1.7	-2	7.3	0	1.1	0	0.225	-2	1.505	-2	6.679	0	1620	34	0.8
47521.5	10000	41.6724	92.4828	-362	QK	1.6	-2	7.1	0	1.1	0	0.218	-2	1.416	-2	6.486	0	1593	41	0.8
47521.4	10000	41.6730	92.4828	-368	QK	1.6	-2	7.2	0	1.0	-1	0.221	-2	1.513	-2	6.854	1	1574	38	0.8
47521.3	10000	41.6736	92.4828	-374	QK	1.6	-2	6.8	-1	1.0	-1	0.236	-2	1.569	-1	6.652	0	1546	40	0.8
47521.2	10000	41.6742	92.4828	-380	QK	1.4	-2	6.6	-1	1.0	-1	0.215	-2	1.414	-2	6.576	0	1508	39	0.8
47521.1	10000	41.6748	92.4828	-384	QK	1.4	-2	6.3	-1	1.0	-1	0.215	-2	1.420	-2	6.616	0	1485	51	0.7
47521.0	10000	41.6754	92.4828	-387	QK	1.4	-2	6.1	-2	1.0	-1	0.236	-2	1.420	-2	6.026	-1	1488	36	0.7
47520.9	10000	41.6760	92.4828	-390	QK	1.2	-3	6.2	-1	1.0	-1	0.198	-2	1.245	-2	6.298	0	1498	35	0.7
47520.8	10000	41.6766	92.4828	-392	QK	1.4	-2	6.5	-1	1.0	-1	0.222	-2	1.458	-2	6.564	0	1517	36	0.7
47520.7	10000	41.6771	92.4828	-394	QK	1.5	-2	6.5	-1	1.0	-1	0.237	-2	1.477	-2	6.230	0	1535	40	0.7
47520.6	10000	41.6778	92.4828	-394	QK	1.5	-2	6.5	-1	1.1	0	0.234	-2	1.404	-2	6.012	-1	1562	53	0.7
47520.5	10000	41.6784	92.4828	-395	QK	1.8	-2	6.6	-1	1.1	0	0.266	-1	1.597	-1	6.004	-1	1595	53	0.7
47520.4	10000	41.6789	92.4828	-397	QK	2.1	-1	6.6	-1	1.1	0	0.315	0	1.867	-1	5.925	-1	1627	36	0.7
47520.3	10000	41.6796	92.4828	-398	QK	2.1	-1	6.9	0	1.1	0	0.303	-1	1.935	-1	6.386	0	1652	42	0.7
47520.2	10000	41.6801	92.4828	-398	QK	2.3	0	6.4	-1	1.1	0	0.360	0	2.081	0	5.787	-1	1668	41	0.7
47520.1	10000	41.6807	92.4828	-397	QK	2.2	-1	6.3	-1	1.1	0	0.346	0	2.031	0	5.873	-1	1672	35	0.7
47520.0	10000	41.6813	92.4828	-396	QK	2.1	-1	6.5	-1	1.1	0	0.323	0	1.917	-1	5.936	-1	1677	48	0.7
47519.9	10000	41.6819	92.4828	-396	QK	2.1	-1	6.3	-1	1.1	0	0.331	0	1.907	-1	5.767	-1	1677	37	0.7
47519.8	10000	41.6825	92.4828	-395	QK	2.1	-1	6.7	-1	1.1	0	0.319	0	1.973	-1	6.190	0	1678	51	0.7
47519.7	10000	41.6831	92.4828	-395	QK	2.0	-1	6.6	-1	1.1	0	0.300	-1	1.812	-1	6.041	-1	1677	35	0.7
47519.6	10000	41.6837	92.4828	-394	QK	2.1	-1	6.8	-1	1.1	0	0.305	-1	1.918	-1	6.283	0	1683	48	0.7
47519.5	10000	41.6843	92.4828	-392	QK	1.9	-1	7.1	0	1.1	0	0.265	-1	1.712	-1	6.467	0	1678	39	0.6
47519.4	10000	41.6849	92.4828	-390	QK	2.0	-1	7.3	0	1.1	0	0.278	-1	1.856	-1	6.675	0	1680	38	0.6
47519.3	10000	41.6855	92.4828	-387	QK	1.9	-1	7.3	0	1.1	0	0.264	-1	1.759	-1	6.658	0	1688	50	0.6
47519.2	10000	41.6861	92.4828	-385	QK	1.8	-1	7.8	1	1.0	-1	0.236	-2	1.758	-1	7.466	1	1679	46	0.6
47519.1	10000	41.6867	92.4828	-381	QK	1.7	-2	7.7	1	1.1	0	0.219	-2	1.538	-2	7.020	1	1686	45	0.6
47519.0	10000	41.6873	92.4828	-378	QK	1.6	-2	7.8	1	1.1	0	0.208	-2	1.468	-2	7.069	1	1692	39	0.6
47518.9	10000	41.6879	92.4828	-378	QK	1.4	-2	7.3	0	1.1	0	0.196	-2	1.308	-2	6.687	0	1677	41	0.6
47518.8	10000	41.6885	92.4828	-376	QK	1.7	-2	7.4	0	1.1	0	0.236	-2	1.616	-1	6.861	1	1688	46	0.6
47518.7	10000	41.6890	92.4828	-373	QK	1.6	-2	7.0	0	1.1	0	0.221	-2	1.407	-2	6.380	0	1679	42	0.6
47518.6	10000	41.6896	92.4828	-370	QK	1.6	-2	7.0	0	1.1	0	0.229	-2	1.486	-2	6.494	0	1657	40	0.6
47518.5	10000	41.6902	92.4828	-365	QK	1.7	-2	6.5	-1	1.1	0	0.254	-1	1.543	-2	6.065	-1	1630	37	0.6
47518.4	10000	41.6907	92.4828	-361	QK	1.9	-1	6.2	-1	1.0	-1	0.304	-1	1.864	-1	6.141	0	1563	38	0.6
47518.3	10000	41.6913	92.4828	-357	QK	2.0	-1	5.7	-2	1.0	-1	0.345	0	2.071	0	6.008	-1	1507	49	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47518.2	10000	41.6919	92.4828	-353	QK	2.0	-1	6.0	-2	0.9	-1	0.331	0	2.091	0	6.312	0	1486	41	0.5
47518.1	10000	41.6924	92.4828	-349	QK	1.8	-1	5.7	-2	0.9	-2	0.320	0	1.939	-1	6.052	-1	1438	47	0.5
47518.0	10000	41.6930	92.4828	-344	QK	1.9	-1	5.7	-2	0.9	-2	0.333	0	2.129	0	6.392	0	1406	52	0.5
47517.9	10000	41.6936	92.4828	-339	QK	1.8	-1	5.6	-2	0.9	-2	0.326	0	2.054	0	6.294	0	1392	34	0.5
47517.8	10000	41.6941	92.4828	-334	QK	1.9	-1	5.7	-2	0.9	-2	0.325	0	2.097	0	6.456	0	1412	48	0.5
47517.7	10000	41.6947	92.4828	-330	QK	1.8	-1	6.1	-2	0.9	-1	0.302	-1	1.933	-1	6.409	0	1459	59	0.5
47517.6	10000	41.6953	92.4828	-325	QK	1.7	-2	6.3	-1	1.0	-1	0.272	-1	1.769	-1	6.513	0	1494	44	0.5
47517.5	10000	41.6958	92.4828	-319	QK	1.6	-2	6.2	-1	1.0	-1	0.258	-1	1.631	-1	6.315	0	1492	35	0.5
47517.4	10000	41.6964	92.4828	-313	QK	1.5	-2	6.6	-1	1.0	-1	0.230	-2	1.525	-2	6.625	0	1518	48	0.5
47517.3	10000	41.6970	92.4828	-307	QK	1.7	-2	6.4	-1	1.1	-1	0.263	-1	1.584	-1	6.035	-1	1546	36	0.5
47517.2	10000	41.6975	92.4828	-301	QK	1.6	-2	6.5	-1	1.1	0	0.249	-1	1.504	-2	6.039	-1	1572	38	0.5
47517.1	10000	41.6981	92.4828	-295	QK	1.7	-2	6.6	-1	1.1	0	0.254	-1	1.550	-2	6.096	-1	1577	46	0.5
47517.0	10000	41.6987	92.4828	-288	QK	1.6	-2	6.9	0	1.1	0	0.236	-2	1.513	-2	6.400	0	1578	54	0.5
47516.9	10000	41.6992	92.4828	-281	QK	1.5	-2	7.0	0	1.1	0	0.212	-2	1.398	-2	6.588	0	1573	37	0.5
47516.8	10000	41.6998	92.4828	-274	QK	1.8	-2	6.9	0	1.1	-1	0.258	-1	1.690	-1	6.561	0	1580	39	0.4
47516.7	10000	41.7004	92.4828	-267	QK	1.8	-2	6.9	0	1.0	-1	0.255	-1	1.683	-1	6.601	0	1582	39	0.4
47516.6	10000	41.7009	92.4828	-260	QK	1.5	-2	7.4	0	1.0	-1	0.206	-2	1.471	-2	7.126	1	1596	37	0.4
47516.5	10000	41.7015	92.4828	-252	QK	1.6	-2	7.5	0	1.0	-1	0.209	-2	1.513	-2	7.240	1	1591	35	0.4
47516.4	10000	41.7020	92.4828	-245	QK	1.7	-2	7.4	0	1.0	-1	0.226	-2	1.629	-1	7.225	1	1601	38	0.4
47516.3	10000	41.7026	92.4828	-237	QK	1.6	-2	7.2	0	1.0	-1	0.220	-2	1.520	-2	6.908	1	1613	42	0.4
47516.2	10000	41.7032	92.4828	-229	QK	1.8	-1	7.2	0	1.0	-1	0.256	-1	1.751	-1	6.852	1	1626	39	0.4
47516.1	10000	41.7037	92.4828	-220	QK	1.7	-2	7.2	0	1.0	-1	0.231	-2	1.606	-1	6.938	1	1639	49	0.4
47516.0	10000	41.7043	92.4828	-212	QK	1.6	-2	7.0	0	1.1	0	0.233	-2	1.482	-2	6.358	0	1648	37	0.4
47515.9	10000	41.7049	92.4828	-203	QK	1.7	-2	7.0	0	1.1	0	0.249	-1	1.601	-1	6.428	0	1633	38	0.4
47515.8	10000	41.7054	92.4828	-195	QK	1.8	-1	7.2	0	1.1	0	0.252	-1	1.661	-1	6.583	0	1644	35	0.4
47515.7	10000	41.7060	92.4828	-187	QK	1.7	-2	7.3	0	1.1	0	0.240	-2	1.568	-1	6.535	0	1644	39	0.4
47515.6	10000	41.7066	92.4828	-180	QK	1.7	-2	6.9	0	1.1	0	0.248	-1	1.597	-1	6.435	0	1641	53	0.4
47515.5	10000	41.7071	92.4828	-172	QK	1.6	-2	7.0	0	1.1	0	0.231	-2	1.466	-2	6.357	0	1647	25	0.4
47515.4	10000	41.7077	92.4828	-162	QK	1.6	-2	6.8	-1	1.1	0	0.235	-2	1.421	-2	6.043	-1	1643	49	0.4
47515.3	10000	41.7083	92.4828	-151	QK	1.8	-1	7.1	0	1.1	0	0.253	-1	1.665	-1	6.591	0	1650	36	0.4
47515.2	10000	41.7088	92.4828	-145	QK	1.7	-2	7.2	0	1.1	0	0.230	-2	1.528	-2	6.655	0	1670	43	0.4
47515.1	10000	41.7094	92.4828	-143	QK	1.9	-1	6.9	0	1.1	0	0.270	-1	1.705	-1	6.318	0	1686	23	0.4
47515.0	10000	41.7100	92.4828	-137	QK	1.9	-1	6.8	-1	1.1	0	0.284	-1	1.796	-1	6.315	0	1697	50	0.4
47514.9	10000	41.7105	92.4828	-130	QK	2.2	-1	6.9	0	1.1	0	0.318	0	2.011	-1	6.327	0	1718	45	0.4
47514.8	10000	41.7111	92.4828	-122	QK	2.3	-1	6.9	0	1.1	0	0.336	0	2.128	0	6.340	0	1723	48	0.4
47514.7	10000	41.7117	92.4828	-115	QK	2.4	-1	7.3	0	1.1	0	0.331	0	2.227	0	6.738	0	1735	43	0.4
47514.6	10000	41.7122	92.4828	-108	QK	2.3	-1	6.9	0	1.1	0	0.333	0	2.127	0	6.378	0	1730	32	0.4
47514.5	10000	41.7128	92.4828	-102	QK	2.5	-1	6.6	-1	1.1	0	0.374	0	2.181	0	5.830	-1	1729	43	0.4
47514.4	10000	41.7133	92.4828	-96	QK	2.5	-1	6.3	-1	1.1	0	0.389	0	2.231	0	5.732	-1	1700	49	0.4
47514.3	10000	41.7139	92.4828	-89	QK	2.5	-1	6.3	-1	1.1	0	0.407	0	2.375	0	5.831	-1	1697	32	0.4
47514.2	10000	41.7145	92.4828	-83	QK	2.2	-1	6.5	-1	1.1	0	0.342	0	2.093	0	6.113	-1	1677	56	0.4
47514.1	10000	41.7150	92.4828	-78	QK	2.4	-1	6.8	-1	1.1	0	0.351	0	2.267	0	6.463	0	1683	33	0.4
47514.0	10000	41.7156	92.4828	-72	QK	2.4	-1	6.8	-1	1.1	0	0.353	0	2.169	0	6.136	0	1689	42	0.4
47513.9	10000	41.7162	92.4828	-66	QK	2.5	0	7.0	0	1.1	0	0.361	0	2.269	0	6.288	0	1685	40	0.4
47513.8	10000	41.7167	92.4828	-60	QK	2.6	0	7.1	0	1.1	0	0.369	0	2.373	0	6.426	0	1671	44	0.4
47513.7	10000	41.7173	92.4828	-57	QK	2.7	0	7.2	0	1.1	0	0.371	0	2.363	0	6.373	0	1683	31	0.4
47513.6	10000	41.7179	92.4828	-55	QK	2.4	0	7.1	0	1.2	0	0.341	0	2.031	-1	5.955	-1	1689	43	0.4
47513.5	10000	41.7184	92.4828	-50	QK	2.5	0	7.0	0	1.2	0	0.366	0	2.104	0	5.756	-1	1693	41	0.4
47513.4	10000	41.7190	92.4828	-46	QK	2.4	-1	6.5	-1	1.2	0	0.368	0	2.019	-1	5.493	-1	1686	50	0.4
47513.3	10000	41.7196	92.4828	-42	QK	2.4	-1	6.6	-1	1.2	0	0.363	0	2.067	0	5.692	-1	1686	34	0.4
47513.2	10000	41.7201	92.4828	-38	QK	2.4	-1	6.5	-1	1.2	0	0.371	0	2.059	0	5.556	-1	1693	44	0.4
47513.1	10000	41.7207	92.4828	-34	QK	2.4	-1	6.5	-1	1.1	0	0.369	0	2.132	0	5.784	-1	1703	41	0.4

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47513.0	10000	41.7213	92.4828	-30	QK	2.2	-1	6.7	-1	1.1	0	0.331	0	2.017	-1	6.095	-1	1696	37	0.4
47512.9	10000	41.7218	92.4828	-26	QK	2.2	-1	7.0	0	1.1	0	0.321	0	2.015	-1	6.278	0	1686	36	0.4
47512.8	10000	41.7224	92.4828	-23	QK	2.4	0	7.1	0	1.1	0	0.336	0	2.156	0	6.422	0	1687	38	0.4
47512.7	10000	41.7230	92.4828	-19	QK	2.4	0	7.3	0	1.1	0	0.324	0	2.123	0	6.545	0	1691	46	0.4
47512.6	10000	41.7235	92.4828	-16	QK	2.3	-1	7.1	0	1.2	0	0.316	0	1.947	-1	6.153	0	1684	49	0.4
47512.5	10000	41.7241	92.4828	-12	QK	2.2	-1	7.4	0	1.1	0	0.295	-1	1.892	-1	6.417	0	1682	29	0.4
47512.4	10000	41.7247	92.4828	-9	QK	2.0	-1	7.7	1	1.1	0	0.259	-1	1.744	-1	6.741	0	1682	49	0.4
47512.3	10000	41.7252	92.4828	-7	QK	1.9	-1	7.6	1	1.2	1	0.246	-1	1.578	-1	6.401	0	1694	43	0.4
47512.2	10000	41.7258	92.4828	-4	QK	1.9	-1	7.5	0	1.2	0	0.257	-1	1.649	-1	6.410	0	1700	30	0.4
47512.1	10000	41.7263	92.4828	-2	QK	1.8	-1	7.5	0	1.2	1	0.244	-1	1.500	-2	6.156	0	1708	48	0.4
47512.0	10000	41.7269	92.4828	0	QK	1.8	-1	7.3	0	1.3	1	0.248	-1	1.436	-2	5.791	-1	1715	36	0.4
47511.9	10000	41.7275	92.4828	1	QK	1.9	-1	7.4	0	1.2	1	0.251	-1	1.550	-2	6.167	0	1708	53	0.4
47511.8	10000	41.7281	92.4828	4	QK	1.9	-1	7.2	0	1.2	1	0.266	-1	1.605	-1	6.036	-1	1705	52	0.4
47511.7	10000	41.7286	92.4828	6	QK	2.0	-1	7.1	0	1.2	1	0.286	-1	1.678	-1	5.873	-1	1702	47	0.4
47511.6	10000	41.7292	92.4828	9	QK	2.0	-1	7.0	0	1.2	0	0.291	-1	1.726	-1	5.939	-1	1681	39	0.4
47511.5	10000	41.7297	92.4828	11	QK	2.0	-1	7.2	0	1.2	1	0.272	-1	1.612	-1	5.935	-1	1682	37	0.4
47511.4	10000	41.7303	92.4828	8	QK	2.0	-1	6.9	0	1.2	0	0.284	-1	1.693	-1	5.960	-1	1668	49	0.4
47511.3	10000	41.7309	92.4828	7	QK	1.9	-1	7.3	0	1.1	0	0.266	-1	1.709	-1	6.412	0	1659	42	0.4
47511.2	10000	41.7314	92.4828	7	QK	2.0	-1	7.5	0	1.1	0	0.259	-1	1.712	-1	6.603	0	1663	56	0.4
47511.1	10000	41.7320	92.4828	6	QK	1.8	-2	7.7	1	1.2	0	0.229	-2	1.519	-2	6.619	0	1666	31	0.4
47511.0	10000	41.7326	92.4828	5	QK	1.7	-2	7.5	0	1.2	1	0.224	-2	1.399	-2	6.256	0	1676	44	0.4
47510.9	10000	41.7331	92.4828	4	QK	1.7	-2	7.7	0	1.2	1	0.223	-2	1.431	-2	6.410	0	1699	51	0.4
47510.8	10000	41.7337	92.4828	2	QK	1.8	-1	7.6	0	1.1	0	0.239	-2	1.583	-1	6.613	0	1712	35	0.4
47510.7	10000	41.7343	92.4828	0	QK	1.8	-1	7.8	0	1.2	0	0.232	-2	1.577	-1	6.781	0	1720	32	0.5
47510.6	10000	41.7348	92.4828	-3	QK	1.9	-1	7.6	0	1.2	0	0.252	-1	1.644	-1	6.532	0	1713	38	0.5
47510.5	10000	41.7354	92.4828	-6	QK	1.8	-1	7.0	0	1.2	0	0.253	-1	1.530	-2	5.984	-1	1707	45	0.5
47510.4	10000	41.7360	92.4828	-10	QK	1.8	-1	7.0	0	1.1	0	0.266	-1	1.611	-1	6.065	-1	1695	39	0.5
47510.3	10000	41.7365	92.4828	-15	QK	1.9	-1	6.9	0	1.1	0	0.272	-1	1.693	-1	6.234	0	1670	40	0.5
47510.2	10000	41.7371	92.4828	-19	QK	1.8	-2	6.8	-1	1.1	-1	0.262	-1	1.697	-1	6.479	0	1643	47	0.5
47510.1	10000	41.7376	92.4828	-24	QK	1.7	-2	6.6	-1	1.0	-1	0.258	-1	1.640	-1	6.362	0	1600	39	0.5
47510.0	10000	41.7382	92.4828	-31	QK	1.7	-2	6.6	-1	1.0	-1	0.256	-1	1.645	-1	6.428	0	1577	36	0.5
47509.9	10000	41.7388	92.4828	-38	QK	1.4	-2	6.6	-1	1.0	-1	0.212	-2	1.390	-2	6.544	0	1562	42	0.5
47509.8	10000	41.7393	92.4828	-44	QK	1.4	-2	7.0	0	1.0	-1	0.198	-2	1.400	-2	7.080	-1	1572	60	0.5
47509.7	10000	41.7399	92.4828	-51	QK	1.6	-2	6.9	0	1.0	-1	0.230	-2	1.596	-1	6.931	-1	1563	40	0.5
47509.6	10000	41.7405	92.4828	-58	QK	1.8	-1	6.8	-1	1.0	-1	0.272	-1	1.850	-1	6.791	0	1592	45	0.5
47509.5	10000	41.7410	92.4828	-65	QK	2.2	-1	6.6	-1	1.0	-1	0.339	0	2.137	0	6.304	0	1619	47	0.5
47509.4	10000	41.7416	92.4828	-72	QK	2.3	-1	6.6	-1	1.1	-1	0.354	0	2.166	0	6.121	-1	1646	35	0.5
47509.3	10000	41.7422	92.4828	-80	QK	2.3	0	6.7	-1	1.1	-1	0.351	0	2.092	0	5.954	-1	1671	36	0.5
47509.2	10000	41.7427	92.4828	-88	QK	2.5	0	6.8	-1	1.1	-1	0.370	0	2.177	0	5.887	-1	1699	40	0.5
47509.1	10000	41.7433	92.4828	-96	QK	2.4	0	6.3	-1	1.1	-1	0.386	0	2.114	0	5.474	-1	1675	42	0.5
47509.0	10000	41.7439	92.4828	-103	QK	2.4	-1	6.3	-1	1.2	-1	0.382	0	2.083	0	5.456	-1	1689	41	0.5
47508.9	10000	41.7444	92.4828	-111	QK	2.2	-1	6.6	-1	1.1	-1	0.327	0	1.885	-1	5.755	-1	1671	36	0.5
47508.8	10000	41.7450	92.4828	-117	QK	2.2	-1	6.7	-1	1.2	-1	0.276	-1	1.589	-1	5.755	-1	1670	30	0.5
47508.7	10000	41.7456	92.4828	-124	QK	1.8	-2	7.2	0	1.2	-1	0.243	-1	1.489	-2	6.120	-1	1670	35	0.5
47508.6	10000	41.7461	92.4828	-136	QK	1.9	-1	7.2	0	1.2	-1	0.270	-1	1.658	-1	6.130	-1	1675	40	0.5
47508.5	10000	41.7467	92.4828	-145	QK	1.8	-1	7.3	0	1.2	-1	0.253	-1	1.580	-1	6.259	0	1671	33	0.5
47508.4	10000	41.7473	92.4828	-152	QK	2.1	-1	7.4	0	1.2	-1	0.277	-1	1.727	-1	6.245	0	1713	31	0.5
47508.3	10000	41.7478	92.4828	-159	QK	1.9	-1	7.6	0	1.2	-1	0.250	-1	1.558	-1	6.230	0	1712	55	0.5
47508.2	10000	41.7484	92.4828	-165	QK	1.9	-1	7.4	0	1.3	-1	0.264	-1	1.556	-1	5.892	-1	1720	54	0.5
47508.1	10000	41.7490	92.4828	-171	QK	1.9	-1	7.4	0	1.3	-1	0.264	-1	1.544	-2	5.845	-1	1705	42	0.5
47508.0	10000	41.7495	92.4828	-177	QK	2.1	-1	6.7	-1	1.3	-1	0.305	-1	1.623	-1	5.316	-2	1692	39	0.5
47507.9	10000	41.7501	92.4828	-181	QK	2.0	-1	6.4	-1	1.2	1	0.306	-1	1.599	-1	5.223	-2	1683	45	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47507.8	10000	41.7507	92.4828	-186	QK	2.1	-1	6.2	-1	1.2	1	0.336	0	1.713	-1	5.103	-2	1668	39	0.5
47507.7	10000	41.7512	92.4828	-189	QK	2.2	-1	6.2	-1	1.2	0	0.352	0	1.862	-1	5.291	-2	1644	39	0.5
47507.6	10000	41.7518	92.4828	-193	QK	2.2	-1	6.2	-1	1.1	0	0.352	0	1.940	-1	5.511	-1	1631	55	0.6
47507.5	10000	41.7523	92.4828	-196	QK	2.0	-1	6.0	-2	1.1	0	0.341	0	1.860	-1	5.463	-1	1618	37	0.6
47507.4	10000	41.7529	92.4828	-199	QK	2.0	-1	6.0	-2	1.1	0	0.337	0	1.876	-1	5.559	-1	1615	49	0.6
47507.3	10000	41.7535	92.4828	-201	QK	1.9	-1	6.2	-1	1.0	-1	0.302	-1	1.792	-1	5.624	-1	1603	44	0.6
47507.2	10000	41.7540	92.4828	-203	QK	1.7	-2	6.4	-1	1.1	0	0.266	-1	1.573	-1	5.906	-1	1584	45	0.6
47507.1	10000	41.7546	92.4828	-204	QK	1.5	-2	6.1	-1	1.1	-1	0.243	-1	1.417	-2	5.819	-1	1567	42	0.6
47507.0	10000	41.7552	92.4828	-205	QK	1.4	-2	6.1	-1	1.1	0	0.226	-2	1.257	-2	5.574	-1	1555	49	0.6
47506.9	10000	41.7557	92.4828	-206	QK	1.5	-2	5.9	-2	1.1	0	0.253	-1	1.358	-2	5.365	-2	1555	35	0.6
47506.8	10000	41.7563	92.4828	-207	QK	1.5	-2	5.8	-2	1.1	0	0.264	-1	1.398	-2	5.287	-2	1547	42	0.6
47506.7	10000	41.7569	92.4828	-207	QK	1.6	-2	5.6	-2	1.0	-1	0.283	-1	1.519	-2	5.370	-2	1523	45	0.6
47506.6	10000	41.7574	92.4828	-207	QK	1.8	-1	5.5	-2	1.0	-1	0.335	0	1.820	-1	5.434	-1	1521	36	0.6
47506.5	10000	41.7580	92.4828	-207	QK	1.6	-2	5.4	-3	1.0	-1	0.307	-1	1.691	-1	5.506	-1	1519	40	0.6
47506.4	10000	41.7586	92.4828	-207	QK	1.8	-1	5.2	-3	1.0	-1	0.350	0	1.781	-1	5.081	-2	1532	44	0.6
47506.3	10000	41.7591	92.4828	-208	QK	1.6	-2	5.6	-2	1.0	-1	0.294	-1	1.638	-1	5.578	-1	1522	49	0.6
47506.2	10000	41.7597	92.4828	-207	QK	1.5	-2	5.8	-2	1.0	-1	0.267	-1	1.534	-2	5.755	-1	1514	43	0.6
47506.1	10000	41.7603	92.4828	-207	QK	1.6	-2	5.5	-2	1.0	-1	0.288	-1	1.556	-1	5.401	-2	1508	44	0.6
47506.0	10000	41.7608	92.4828	-207	QK	1.6	-2	5.5	-2	1.1	-1	0.291	-1	1.510	-2	5.186	-2	1509	34	0.6
47505.9	10000	41.7614	92.4828	-207	QK	1.5	-2	5.6	-2	1.1	0	0.269	-1	1.360	-2	5.056	-2	1513	42	0.6
47505.8	10000	41.7620	92.4828	-207	QK	1.8	-2	5.6	-2	1.1	0	0.318	0	1.605	-1	5.052	-2	1501	50	0.6
47505.7	10000	41.7625	92.4828	-207	QK	1.7	-2	5.9	-2	1.1	0	0.283	-1	1.510	-2	5.330	-2	1500	53	0.6
47505.6	10000	41.7631	92.4828	-207	QK	1.8	-1	5.6	-2	1.1	0	0.326	0	1.640	-1	5.035	-2	1494	19	0.6
47505.5	10000	41.7637	92.4828	-207	QK	1.8	-2	5.3	-3	1.1	0	0.334	0	1.548	-2	4.638	-3	1497	40	0.6
47505.4	10000	41.7642	92.4828	-207	QK	1.8	-1	5.9	-2	1.1	0	0.303	-1	1.586	-1	5.240	-2	1511	35	0.6
47505.3	10000	41.7648	92.4828	-208	QK	1.8	-1	6.0	-2	1.1	0	0.300	-1	1.608	-1	5.357	-2	1525	26	0.6
47505.2	10000	41.7654	92.4828	-208	QK	1.7	-2	5.9	-2	1.1	0	0.294	-1	1.568	-1	5.334	-2	1538	39	0.6
47505.1	10000	41.7659	92.4828	-208	QK	1.5	-2	6.1	-1	1.1	0	0.247	-1	1.325	-2	5.375	-2	1570	49	0.6
47505.0	10000	41.7665	92.4828	-209	QK	1.7	-2	6.8	-1	1.2	1	0.245	-1	1.388	-2	5.662	-1	1598	44	0.6
47504.9	10000	41.7670	92.4828	-209	QK	1.7	-2	6.7	-1	1.2	1	0.259	-1	1.443	-2	5.580	-1	1632	36	0.6
47504.8	10000	41.7676	92.4828	-210	QK	1.9	-1	7.2	0	1.2	1	0.265	-1	1.590	-1	5.992	-1	1658	53	0.6
47504.7	10000	41.7682	92.4828	-210	QK	1.8	-1	7.1	0	1.3	1	0.256	-1	1.443	-2	5.631	-1	1685	44	0.6
47504.6	10000	41.7687	92.4829	-211	QK	1.8	-2	7.5	0	1.3	2	0.238	-2	1.355	-2	5.694	-1	1712	44	0.6
47504.5	10000	41.7693	92.4829	-211	QK	1.7	-2	7.8	1	1.3	2	0.220	-2	1.302	-2	5.929	-1	1722	49	0.6
47504.4	10000	41.7699	92.4829	-212	QK	1.8	-1	7.9	1	1.3	2	0.231	-2	1.385	-2	5.985	-1	1740	36	0.6
47504.3	10000	41.7704	92.4829	-213	QK	2.0	-1	8.1	1	1.3	1	0.246	-1	1.581	-1	6.414	0	1742	41	0.6
47504.2	10000	41.7710	92.4829	-214	QK	1.8	-1	8.3	1	1.3	1	0.221	-2	1.450	-2	6.564	0	1752	48	0.6
47504.1	10000	41.7716	92.4829	-214	QK	1.7	-2	8.1	1	1.3	1	0.206	-2	1.354	-2	6.562	0	1749	43	0.6
47504.0	10000	41.7721	92.4829	-215	QK	1.8	-2	8.2	1	1.3	1	0.216	-2	1.497	-2	6.937	1	1735	48	0.6
47503.9	10000	41.7727	92.4829	-216	QK	1.8	-2	8.1	1	1.3	0	0.217	-2	1.508	-2	6.964	1	1730	39	0.6
47503.8	10000	41.7733	92.4829	-217	QK	1.8	-2	8.1	1	1.3	0	0.220	-2	1.501	-2	6.831	0	1742	33	0.6
47503.7	10000	41.7738	92.4829	-219	QK	1.8	-2	7.8	1	1.3	0	0.230	-2	1.548	-2	6.736	0	1723	46	0.6
47503.6	10000	41.7744	92.4829	-222	QK	1.7	-2	7.4	0	1.3	1	0.228	-2	1.395	-2	6.115	-1	1715	46	0.6
47503.5	10000	41.7750	92.4829	-225	QK	1.6	-2	7.2	0	1.3	1	0.228	-2	1.359	-2	5.971	-1	1702	40	0.6
47503.4	10000	41.7755	92.4829	-227	QK	1.7	-2	7.0	0	1.3	1	0.241	-2	1.425	-2	5.902	-1	1691	42	0.6
47503.3	10000	41.7761	92.4829	-229	QK	1.6	-2	7.0	0	1.3	1	0.225	-2	1.326	-2	5.905	-1	1695	30	0.6
47503.2	10000	41.7766	92.4829	-232	QK	1.7	-2	6.9	0	1.3	0	0.253	-1	1.537	-2	6.072	-1	1691	40	0.6
47503.1	10000	41.7772	92.4829	-236	QK	1.6	-2	6.7	-1	1.3	0	0.243	-1	1.457	-2	5.998	-1	1678	45	0.6
47503.0	10000	41.7778	92.4829	-238	QK	1.5	-2	6.8	-1	1.2	0	0.223	-2	1.296	-2	5.816	-1	1679	44	0.6
47502.9	10000	41.7783	92.4829	-240	QK	1.8	-1	6.3	-1	1.1	0	0.289	-1	1.644	-1	5.683	-1	1674	31	0.6
47502.8	10000	41.7789	92.4829	-243	QK	2.2	-1	6.8	-1	1.1	0	0.325	0	2.027	-1	6.236	0	1691	49	0.6
47502.7	10000	41.7795	92.4829	-246	QK	2.3	0	6.9	-1	1.1	-1	0.339	0	2.202	0	6.497	0	1711	42	0.6

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47502.6	10000	41.7801	92.4829	-249	QK	2.5	0	6.9	0	1.1	-1	0.367	0	2.419	0	6.595	0	1716	52	0.6
47502.5	10000	41.7806	92.4829	-251	QK	2.6	0	7.1	0	1.1	0	0.366	0	2.424	0	6.619	0	1719	50	0.6
47502.4	10000	41.7812	92.4829	-253	QK	2.9	1	7.2	0	1.1	0	0.396	1	2.674	1	6.745	0	1718	40	0.6
47502.3	10000	41.7817	92.4829	-255	QK	3.4	2	7.2	0	1.0	-1	0.470	2	3.479	3	7.402	1	1723	40	0.6
47502.2	10000	41.7823	92.4829	-257	QK	3.2	1	7.6	1	1.0	-1	0.418	1	3.228	2	7.728	2	1719	41	0.6
47502.1	10000	41.7829	92.4829	-260	QK	2.8	1	7.3	0	0.9	-2	0.389	1	3.060	2	7.869	2	1698	49	0.6
47502.0	10000	41.7834	92.4828	-262	QK	2.8	1	7.4	0	1.0	-1	0.373	0	2.909	1	7.809	2	1682	41	0.6
47501.9	10000	41.7840	92.4828	-265	QK	2.5	0	7.1	0	0.9	-1	0.352	0	2.624	1	7.456	1	1656	40	0.6
47501.8	10000	41.7845	92.4828	-269	QK	2.2	-1	7.2	0	1.0	-1	0.311	-1	2.325	0	7.475	1	1633	38	0.6
47501.7	10000	41.7851	92.4828	-272	QK	2.0	-1	7.1	0	1.0	-1	0.277	-1	2.022	-1	7.291	1	1614	42	0.6
47501.6	10000	41.7857	92.4828	-276	QK	1.4	-2	7.2	0	1.0	-1	0.193	-2	1.381	-2	7.163	1	1582	39	0.6
47501.5	10000	41.7862	92.4828	-280	QK	1.0	-3	7.0	0	1.0	-1	0.150	-3	1.073	-3	7.162	1	1558	32	0.6
47501.4	10000	41.7868	92.4828	-284	QK	1.1	-3	6.8	-1	1.0	-1	0.167	-3	1.113	-2	6.656	0	1541	45	0.6
47501.3	10000	41.7873	92.4828	-288	QK	1.1	-3	6.5	-1	1.0	-1	0.163	-3	1.033	-3	6.330	0	1519	44	0.6
47501.2	10000	41.7879	92.4828	-292	QK	1.3	-2	7.0	0	1.1	-1	0.191	-2	1.264	-2	6.626	0	1513	32	0.6
47501.1	10000	41.7884	92.4828	-296	QK	1.4	-2	6.6	-1	1.0	-1	0.215	-2	1.389	-2	6.456	0	1515	50	0.6
47501.0	10000	41.7890	92.4828	-299	QK	1.8	-2	6.7	-1	1.0	-1	0.261	-1	1.747	-1	6.698	0	1528	28	0.6
47500.9	10000	41.7896	92.4828	-303	QK	2.0	-1	6.8	-1	1.0	-1	0.295	-1	2.034	0	6.904	1	1552	52	0.6
47500.8	10000	41.7901	92.4828	-306	QK	2.3	0	7.0	0	1.0	-1	0.329	0	2.349	0	7.144	1	1568	49	0.6
47500.7	10000	41.7907	92.4828	-310	QK	2.3	0	7.4	0	1.0	-1	0.314	-1	2.358	0	7.514	1	1599	48	0.6
47500.6	10000	41.7912	92.4828	-313	QK	2.5	0	7.4	0	1.0	-1	0.342	0	2.544	1	7.446	1	1643	44	0.6
47500.5	10000	41.7918	92.4828	-316	QK	2.5	0	7.5	0	1.0	-1	0.329	0	2.535	1	7.715	2	1668	37	0.6
47500.4	10000	41.7924	92.4828	-320	QK	2.5	0	7.6	0	1.0	-1	0.324	0	2.467	0	7.616	2	1694	38	0.6
47500.3	10000	41.7929	92.4828	-323	QK	2.4	0	7.9	1	1.0	-1	0.299	-1	2.323	0	7.761	2	1701	51	0.6
47500.2	10000	41.7935	92.4828	-327	QK	2.1	-1	7.8	1	1.0	-1	0.265	-1	1.969	-1	7.416	1	1705	42	0.6
47500.1	10000	41.7940	92.4828	-331	QK	1.9	-1	7.6	1	1.1	0	0.243	-1	1.707	-1	7.024	1	1712	52	0.6
47500.0	10000	41.7946	92.4828	-333	QK	1.7	-2	7.7	1	1.1	0	0.221	-2	1.496	-2	6.782	0	1716	46	0.6
47499.9	10000	41.7952	92.4828	-336	QK	1.5	-2	7.9	1	1.1	0	0.195	-2	1.382	-2	7.070	1	1723	38	0.6
47499.8	10000	41.7957	92.4828	-338	QK	1.4	-2	7.6	1	1.2	0	0.181	-2	1.189	-2	6.569	0	1734	40	0.6
47499.7	10000	41.7963	92.4828	-341	QK	1.2	-3	8.0	1	1.2	0	0.156	-3	1.076	-3	6.874	1	1732	45	0.6
47499.6	10000	41.7968	92.4828	-343	QK	1.4	-2	8.1	1	1.2	0	0.170	-3	1.184	-2	6.983	1	1755	51	0.6
47499.5	10000	41.7974	92.4828	-345	QK	1.8	-2	8.1	1	1.2	0	0.216	-2	1.500	-2	6.960	1	1762	37	0.6
47499.4	10000	41.7980	92.4827	-347	QK	1.8	-1	8.0	1	1.2	0	0.227	-2	1.562	-1	6.875	1	1782	39	0.6
47499.3	10000	41.7985	92.4827	-348	QK	2.1	-1	7.7	1	1.1	0	0.266	-1	1.800	-1	6.779	0	1785	32	0.6
47499.2	10000	41.7991	92.4827	-349	QK	2.1	-1	7.4	0	1.2	0	0.286	-1	1.784	-1	6.234	0	1778	55	0.6
47499.1	10000	41.7996	92.4827	-350	QK	2.2	-1	7.4	0	1.2	0	0.292	-1	1.837	-1	6.287	0	1777	32	0.6
47499.0	10000	41.8002	92.4827	-351	QK	2.2	-1	6.9	0	1.2	1	0.323	0	1.829	-1	5.654	-1	1786	49	0.6
47498.9	10000	41.8007	92.4827	-351	QK	2.3	0	6.6	-1	1.2	1	0.345	0	1.846	-1	5.346	-2	1770	41	0.6
47498.8	10000	41.8013	92.4827	-351	QK	2.1	-1	6.6	-1	1.3	1	0.321	0	1.560	-1	5.169	-2	1771	42	0.6
47498.7	10000	41.8019	92.4827	-351	QK	2.0	-1	7.1	0	1.3	1	0.285	-1	1.578	-1	5.536	-1	1762	41	0.6
47498.6	10000	41.8024	92.4827	-351	QK	1.8	-2	7.0	0	1.3	2	0.250	-1	1.347	-2	5.395	-2	1760	44	0.6
47498.5	10000	41.8030	92.4827	-351	QK	1.7	-2	7.3	0	1.3	2	0.238	-2	1.330	-2	5.589	-1	1759	33	0.6
47498.4	10000	41.8035	92.4827	-351	QK	1.8	-1	7.3	0	1.3	1	0.251	-1	1.437	-2	5.714	-1	1747	51	0.6
47498.3	10000	41.8041	92.4827	-351	QK	1.9	-1	7.3	0	1.2	1	0.260	-1	1.559	-1	5.997	-1	1728	46	0.6
47498.2	10000	41.8046	92.4827	-350	QK	1.8	-2	7.3	0	1.2	1	0.245	-1	1.453	-2	5.940	-1	1722	42	0.6
47498.1	10000	41.8052	92.4827	-350	QK	1.7	-2	7.4	0	1.2	1	0.223	-2	1.362	-2	6.109	-1	1715	42	0.6
47498.0	10000	41.8058	92.4827	-350	QK	1.8	-2	6.9	0	1.2	1	0.253	-1	1.474	-2	5.831	-1	1717	36	0.6
47497.9	10000	41.8063	92.4827	-349	QK	1.7	-2	7.0	0	1.2	1	0.248	-1	1.460	-2	5.879	-1	1700	46	0.6
47497.8	10000	41.8069	92.4827	-349	QK	1.8	-1	7.0	0	1.1	1	0.258	-1	1.594	-1	6.185	0	1662	46	0.6
47497.7	10000	41.8074	92.4827	-349	QK	1.6	-2	6.8	-1	1.1	0	0.238	-2	1.441	-2	6.064	-1	1641	48	0.6
47497.6	10000	41.8080	92.4827	-350	QK	1.4	-2	7.1	0	1.1	0	0.199	-2	1.237	-2	6.227	0	1633	35	0.6
47497.5	10000	41.8086	92.4827	-350	QK	1.2	-3	7.3	0	1.1	0	0.165	-3	1.052	-3	6.379	0	1628	29	0.6

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47497.4	10000	41.8091	92.4827	-350	QK	1.4	-2	7.1	0	1.1	0	0.195	-2	1.235	-2	6.335	0	1624	41	0.6
47497.3	10000	41.8097	92.4827	-350	QK	1.3	-3	7.3	0	1.1	0	0.177	-2	1.185	-2	6.705	0	1597	31	0.7
47497.2	10000	41.8102	92.4827	-351	QK	1.5	-2	7.4	0	1.1	-1	0.210	-2	1.467	-2	6.995	1	1595	35	0.7
47497.1	10000	41.8108	92.4827	-351	QK	1.4	-2	7.1	0	1.1	0	0.198	-2	1.273	-2	6.417	0	1616	48	0.7
47497.0	10000	41.8114	92.4827	-352	QK	1.6	-2	7.3	0	1.1	0	0.221	-2	1.487	-2	6.738	0	1617	51	0.7
47496.9	10000	41.8119	92.4827	-353	QK	1.7	-2	6.9	0	1.1	0	0.253	-1	1.602	-1	6.330	0	1611	53	0.7
47496.8	10000	41.8125	92.4826	-353	QK	1.9	-1	6.6	-1	1.1	0	0.293	-1	1.822	-1	6.218	0	1601	34	0.7
47496.7	10000	41.8130	92.4826	-355	QK	1.9	-1	6.7	-1	1.0	-1	0.276	-1	1.846	-1	6.680	0	1565	25	0.7
47496.6	10000	41.8136	92.4826	-355	QK	2.0	-1	6.3	-1	1.0	-1	0.316	0	1.946	-1	6.158	0	1564	47	0.7
47496.5	10000	41.8141	92.4826	-357	QK	1.9	-1	6.2	-1	1.0	-1	0.309	-1	1.885	-1	6.102	-1	1553	44	0.7
47496.4	10000	41.8147	92.4826	-358	QK	1.9	-1	6.4	-1	0.9	-2	0.302	-1	2.066	0	6.840	1	1546	45	0.7
47496.3	10000	41.8153	92.4826	-359	QK	1.8	-2	6.3	-1	0.9	-2	0.281	-1	1.912	-1	6.805	0	1544	47	0.7
47496.2	10000	41.8158	92.4826	-361	QK	1.8	-1	6.6	-1	0.9	-2	0.275	-1	1.978	-1	7.199	1	1551	44	0.7
47496.1	10000	41.8164	92.4826	-363	QK	1.7	-2	6.5	-1	0.9	-2	0.267	-1	1.877	-1	7.030	1	1551	48	0.7
47496.0	10000	41.8169	92.4826	-365	QK	1.9	-1	6.3	-1	0.9	-2	0.298	-1	2.012	-1	6.743	0	1569	35	0.7
47495.9	10000	41.8175	92.4826	-367	QK	1.9	-1	6.4	-1	0.9	-2	0.290	-1	2.022	-1	6.966	1	1566	46	0.7
47495.8	10000	41.8181	92.4826	-369	QK	1.8	-1	6.5	-1	1.0	-1	0.283	-1	1.921	-1	6.796	0	1586	52	0.7
47495.7	10000	41.8186	92.4826	-370	QK	1.8	-1	6.6	-1	1.0	-1	0.279	-1	1.791	-1	6.411	0	1600	50	0.7
47495.6	10000	41.8192	92.4826	-372	QK	2.1	-1	6.2	-1	1.1	0	0.335	0	1.888	-1	5.636	-1	1620	42	0.7
47495.5	10000	41.8197	92.4826	-373	QK	2.2	-1	6.2	-1	1.2	0	0.358	0	1.919	-1	5.360	-2	1627	42	0.7
47495.4	10000	41.8203	92.4826	-374	QK	2.3	0	6.3	-1	1.2	1	0.367	0	1.968	-1	5.367	-2	1646	45	0.7
47495.3	10000	41.8209	92.4826	-376	QK	2.5	0	6.7	-1	1.2	1	0.377	0	2.035	0	5.395	-2	1670	38	0.7
47495.2	10000	41.8214	92.4826	-377	QK	2.5	0	6.9	0	1.2	1	0.360	0	2.020	-1	5.610	-1	1700	48	0.7
47495.1	10000	41.8220	92.4826	-378	QK	2.5	0	6.6	-1	1.2	1	0.387	1	2.093	0	5.402	-2	1710	38	0.7
47495.0	10000	41.8225	92.4826	-380	QK	2.6	0	6.4	-1	1.2	1	0.401	1	2.157	0	5.379	-2	1725	53	0.7
47494.9	10000	41.8231	92.4826	-381	QK	2.7	0	6.5	-1	1.1	1	0.416	1	2.375	0	5.715	-1	1713	36	0.7
47494.8	10000	41.8237	92.4826	-382	QK	2.6	0	6.9	0	1.1	0	0.369	0	2.303	0	6.242	0	1708	45	0.7
47494.7	10000	41.8242	92.4826	-384	QK	2.4	0	7.1	0	1.1	0	0.338	0	2.159	0	6.398	0	1698	46	0.7
47494.6	10000	41.8248	92.4825	-385	QK	2.3	0	7.1	0	1.1	0	0.328	0	2.199	0	6.705	0	1673	39	0.7
47494.5	10000	41.8253	92.4825	-386	QK	2.2	-1	6.9	0	1.1	0	0.322	0	2.055	0	6.338	0	1674	34	0.7
47494.4	10000	41.8259	92.4825	-387	QK	2.3	0	7.2	0	1.1	0	0.321	0	2.024	-1	6.314	0	1676	43	0.7
47494.3	10000	41.8264	92.4825	-388	QK	2.1	-1	7.2	0	1.2	1	0.288	-1	1.736	-1	6.036	-1	1668	44	0.7
47494.2	10000	41.8270	92.4825	-390	QK	2.0	-1	7.7	1	1.2	1	0.263	-1	1.705	-1	6.471	0	1681	47	0.7
47494.1	10000	41.8276	92.4825	-391	QK	1.8	-1	7.1	0	1.2	1	0.257	-1	1.545	-2	6.007	-1	1674	39	0.7
47494.0	10000	41.8281	92.4825	-394	QK	2.0	-1	7.1	0	1.2	1	0.286	-1	1.733	-1	6.052	-1	1677	43	0.7
47493.9	10000	41.8287	92.4825	-396	QK	1.7	-2	7.0	0	1.2	1	0.246	-1	1.431	-2	5.828	-1	1683	27	0.7
47493.8	10000	41.8292	92.4825	-397	QK	1.9	-1	7.0	0	1.1	0	0.275	-1	1.698	-1	6.172	0	1653	41	0.7
47493.7	10000	41.8298	92.4825	-400	QK	2.0	-1	7.1	0	1.1	0	0.282	-1	1.883	-1	6.669	0	1625	39	0.7
47493.6	10000	41.8304	92.4825	-402	QK	2.2	-1	7.0	0	1.0	-1	0.313	-1	2.199	0	7.024	1	1596	37	0.7
47493.5	10000	41.8309	92.4825	-403	QK	2.0	-1	6.6	-1	1.0	-1	0.312	-1	2.072	0	6.652	0	1580	40	0.7
47493.4	10000	41.8315	92.4825	-405	QK	2.2	-1	6.7	-1	1.0	-1	0.331	0	2.301	0	6.944	1	1583	28	0.7
47493.3	10000	41.8320	92.4825	-408	QK	2.3	0	6.7	-1	0.9	-2	0.345	0	2.503	1	7.260	1	1580	54	0.6
47493.2	10000	41.8326	92.4825	-410	QK	2.4	0	6.6	-1	0.9	-2	0.367	0	2.683	1	7.303	1	1593	42	0.6
47493.1	10000	41.8332	92.4825	-412	QK	2.4	0	6.4	-1	0.9	-2	0.377	0	2.579	1	6.844	1	1609	44	0.6
47493.0	10000	41.8337	92.4825	-414	QK	2.2	-1	6.3	-1	1.0	-1	0.356	0	2.340	1	6.581	0	1627	49	0.6
47492.9	10000	41.8343	92.4825	-416	QK	2.1	-1	6.5	-1	1.0	-1	0.329	0	2.175	0	6.606	0	1645	40	0.6
47492.8	10000	41.8348	92.4825	-419	QK	2.2	-1	6.7	-1	1.0	-1	0.329	0	2.223	0	6.750	0	1659	40	0.6
47492.7	10000	41.8354	92.4825	-421	QK	2.3	-1	6.9	0	1.0	-1	0.335	0	2.277	0	6.793	0	1660	47	0.6
47492.6	10000	41.8360	92.4825	-423	QL	2.3	-1	6.6	-1	1.0	-2	0.352	0	2.319	1	6.595	1	1656	35	0.6
47492.5	10000	41.8365	92.4825	-426	QL	2.4	0	6.4	-1	1.0	-2	0.378	0	2.468	1	6.532	1	1653	52	0.6
47492.4	10000	41.8371	92.4825	-429	QL	2.2	-1	6.6	-1	1.0	-2	0.338	0	2.239	1	6.632	1	1657	43	0.6
47492.3	10000	41.8376	92.4825	-432	QL	2.3	-1	6.9	-1	1.0	-2	0.337	0	2.298	1	6.812	1	1670	45	0.6

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47492.2	10000	41.8382	92.4825	-434	QL	2.5	0	7.2	0	1.0	-2	0.343	0	2.465	1	7.194	2	1688	55	0.6
47492.1	10000	41.8388	92.4825	-437	QL	2.4	0	7.0	0	1.0	-2	0.348	0	2.413	0	6.928	1	1695	31	0.6
47492.0	10000	41.8393	92.4824	-440	QL	2.6	0	7.1	0	1.0	-2	0.364	0	2.533	1	6.968	1	1727	35	0.6
47491.9	10000	41.8399	92.4824	-442	QL	2.4	0	7.6	1	1.1	-1	0.314	-1	2.187	0	6.963	1	1751	45	0.6
47491.8	10000	41.8404	92.4824	-445	QL	2.4	0	8.2	1	1.1	-1	0.296	-1	2.155	0	7.270	2	1767	43	0.6
47491.7	10000	41.8410	92.4824	-447	QL	2.5	0	8.4	2	1.2	0	0.296	-1	2.148	0	7.256	2	1776	38	0.6
47491.6	10000	41.8415	92.4824	-449	QL	2.3	-1	8.3	2	1.2	0	0.277	-1	1.994	-1	7.194	2	1776	44	0.6
47491.5	10000	41.8421	92.4824	-452	QL	2.1	-1	8.1	1	1.2	0	0.263	-1	1.827	-1	6.944	1	1765	57	0.6
47491.4	10000	41.8427	92.4824	-455	QL	2.1	-1	8.3	2	1.2	0	0.254	-2	1.810	-1	7.138	2	1762	37	0.6
47491.3	10000	41.8432	92.4824	-458	QL	1.9	-2	7.9	1	1.2	0	0.235	-2	1.586	-1	6.756	1	1746	39	0.6
47491.2	10000	41.8438	92.4824	-461	QL	1.8	-2	7.7	1	1.2	0	0.236	-2	1.531	-2	6.483	0	1728	39	0.6
47491.1	10000	41.8443	92.4824	-463	QL	1.7	-2	7.2	0	1.2	0	0.235	-2	1.445	-2	6.147	0	1711	49	0.6
47491.0	10000	41.8449	92.4824	-466	QL	1.7	-2	7.1	0	1.1	0	0.238	-2	1.483	-2	6.220	0	1706	52	0.6
47490.9	10000	41.8454	92.4824	-469	QL	2.0	-1	6.9	-1	1.1	0	0.293	-1	1.761	-1	6.010	0	1688	41	0.6
47490.8	10000	41.8460	92.4824	-471	QL	2.2	-1	6.6	-1	1.2	0	0.327	0	1.862	-1	5.696	-1	1692	38	0.6
47490.7	10000	41.8466	92.4824	-474	QL	2.2	-1	6.6	-1	1.1	0	0.331	0	1.920	-1	5.810	-1	1674	42	0.6
47490.6	10000	41.8471	92.4824	-477	QL	2.3	-1	6.7	-1	1.1	-1	0.340	0	2.017	0	5.933	0	1663	38	0.6
47490.5	10000	41.8477	92.4824	-480	QL	2.3	-1	6.7	-1	1.1	-1	0.344	0	2.116	0	6.157	0	1679	45	0.5
47490.4	10000	41.8482	92.4824	-482	QL	2.3	-1	6.9	-1	1.1	-1	0.333	0	2.079	0	6.247	0	1691	53	0.5
47490.3	10000	41.8488	92.4824	-485	QL	2.3	-1	6.7	-1	1.1	-1	0.338	0	2.017	0	5.971	0	1678	42	0.5
47490.2	10000	41.8494	92.4824	-487	QL	2.1	-1	6.9	-1	1.1	-1	0.307	-1	1.922	-1	6.254	0	1687	54	0.5
47490.1	10000	41.8499	92.4824	-489	QL	1.9	-2	7.2	0	1.1	-1	0.262	-1	1.753	-1	6.692	1	1670	43	0.5
47490.0	10000	41.8505	92.4824	-492	QL	1.7	-2	7.2	0	1.1	-1	0.238	-2	1.517	-2	6.381	0	1677	47	0.5
47489.9	10000	41.8510	92.4824	-496	QL	1.6	-2	7.3	0	1.1	-1	0.223	-2	1.442	-2	6.468	0	1682	48	0.5
47489.8	10000	41.8516	92.4823	-499	QL	1.8	-2	7.4	0	1.1	-1	0.241	-2	1.600	-1	6.630	1	1675	43	0.5
47489.7	10000	41.8522	92.4823	-503	QL	1.8	-2	7.5	0	1.1	-1	0.233	-2	1.612	-1	6.916	1	1672	49	0.5
47489.6	10000	41.8527	92.4823	-507	QL	1.6	-2	7.8	1	1.1	-1	0.205	-2	1.495	-2	7.289	2	1668	35	0.5
47489.5	10000	41.8533	92.4823	-511	QL	1.4	-3	7.9	1	1.1	-1	0.175	-3	1.255	-2	7.177	2	1671	36	0.5
47489.4	10000	41.8538	92.4823	-514	QL	1.4	-3	8.0	1	1.1	-1	0.175	-3	1.269	-2	7.241	2	1690	34	0.5
47489.3	10000	41.8544	92.4823	-517	QL	1.4	-3	8.0	1	1.1	-1	0.180	-3	1.308	-2	7.272	2	1690	52	0.5
47489.2	10000	41.8549	92.4823	-521	QL	1.5	-2	8.1	1	1.1	-1	0.189	-2	1.428	-2	7.556	2	1678	44	0.5
47489.1	10000	41.8555	92.4823	-524	QL	1.5	-2	8.1	1	1.1	-1	0.183	-3	1.348	-2	7.369	2	1665	43	0.5
47489.0	10000	41.8561	92.4823	-527	QL	1.4	-3	7.5	0	1.1	0	0.191	-2	1.254	-2	6.564	1	1655	44	0.5
47488.9	10000	41.8566	92.4823	-531	QL	1.5	-2	7.3	0	1.2	0	0.210	-2	1.295	-2	6.169	0	1651	35	0.5
47488.8	10000	41.8572	92.4823	-535	QL	1.5	-2	7.0	0	1.2	0	0.209	-2	1.266	-2	6.066	0	1643	29	0.5
47488.7	10000	41.8577	92.4823	-538	QL	1.8	-2	6.6	-1	1.2	0	0.269	-1	1.546	-2	5.751	-1	1633	40	0.5
47488.6	10000	41.8583	92.4823	-542	QL	2.1	-1	6.7	-1	1.1	0	0.307	-1	1.798	-1	5.849	-1	1636	45	0.5
47488.5	10000	41.8589	92.4823	-545	QL	1.9	-1	6.4	-1	1.2	0	0.297	-1	1.660	-1	5.594	-1	1640	42	0.5
47488.4	10000	41.8594	92.4823	-548	QL	2.0	-1	6.5	-1	1.1	0	0.306	-1	1.739	-1	5.683	-1	1656	41	0.5
47488.3	10000	41.8600	92.4823	-552	QL	1.9	-2	7.0	0	1.1	-1	0.272	-1	1.739	-1	6.391	0	1649	41	0.5
47488.2	10000	41.8605	92.4823	-557	QL	2.0	-1	7.3	0	1.1	-1	0.275	-1	1.835	-1	6.668	1	1678	52	0.5
47488.1	10000	41.8611	92.4823	-562	QL	2.1	-1	7.4	0	1.1	0	0.285	-1	1.871	-1	6.560	1	1678	46	0.5
47488.0	10000	41.8617	92.4823	-566	QL	2.0	-1	7.4	0	1.1	-1	0.265	-1	1.769	-1	6.670	1	1677	40	0.5
47487.9	10000	41.8622	92.4823	-570	QL	1.7	-2	7.3	0	1.1	-1	0.238	-2	1.556	-2	6.546	1	1676	39	0.5
47487.8	10000	41.8628	92.4823	-576	QL	2.0	-1	7.2	0	1.1	-1	0.277	-1	1.794	-1	6.465	1	1683	46	0.5
47487.7	10000	41.8633	92.4823	-582	QL	1.8	-2	7.0	0	1.1	-1	0.262	-1	1.682	-1	6.417	0	1672	46	0.5
47487.6	10000	41.8639	92.4823	-588	QL	2.1	-1	6.7	-1	1.1	-1	0.308	-1	1.903	-1	6.185	0	1671	46	0.5
47487.5	10000	41.8644	92.4823	-595	QL	2.2	-1	6.6	-1	1.1	-1	0.331	0	2.044	0	6.170	0	1652	49	0.5
47487.4	10000	41.8650	92.4823	-602	QL	2.4	0	6.4	-1	1.0	-2	0.376	0	2.358	0	6.262	0	1638	43	0.5
47487.3	10000	41.8656	92.4823	-611	QL	2.4	0	6.2	-2	1.1	-1	0.393	1	2.291	0	5.825	-1	1633	43	0.5
47487.2	10000	41.8661	92.4822	-619	QL	2.6	0	6.0	-2	1.0	-2	0.428	1	2.553	1	5.968	0	1622	49	0.5
47487.1	10000	41.8667	92.4822	-629	QL	2.6	0	6.3	-2	1.0	-2	0.410	1	2.547	1	6.207	0	1613	47	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47487.0	10000	41.8672	92.4822	-638	QL	2.6	0	6.5	-1	1.0	-1	0.396	1	2.481	1	6.267	0	1617	50	0.5
47486.9	10000	41.8678	92.4822	-649	QL	2.3	-1	6.5	-1	1.1	-1	0.362	0	2.228	0	6.152	0	1626	54	0.5
47486.8	10000	41.8684	92.4822	-660	QL	2.2	-1	6.7	-1	1.1	-1	0.325	0	1.984	-1	6.113	0	1649	45	0.5
47486.7	10000	41.8689	92.4822	-671	QL	2.3	-1	7.0	0	1.1	0	0.322	-1	1.982	-1	6.153	0	1682	39	0.5
47486.6	10000	41.8695	92.4822	-682	QL	2.1	-1	7.3	0	1.1	0	0.291	-1	1.862	-1	6.398	0	1704	45	0.5
47486.5	10000	41.8701	92.4823	-693	QL	2.0	-1	7.4	0	1.2	0	0.272	-1	1.677	-1	6.167	0	1727	42	0.5
47486.4	10000	41.8706	92.4823	-705	QL	2.0	-1	7.5	0	1.2	0	0.261	-1	1.615	-1	6.187	0	1753	31	0.5
47486.3	10000	41.8712	92.4823	-717	QL	2.0	-1	7.7	1	1.2	1	0.261	-1	1.630	-1	6.247	0	1766	45	0.5
47486.2	10000	41.8718	92.4823	-730	QL	2.0	-1	8.1	1	1.2	1	0.248	-2	1.648	-1	6.640	1	1783	42	0.5
47486.1	10000	41.8723	92.4823	-742	QL	2.3	-1	7.8	1	1.2	0	0.291	-1	1.891	-1	6.492	0	1773	37	0.5
47486.0	10000	41.8729	92.4823	-755	QL	2.2	-1	8.0	1	1.2	0	0.273	-1	1.852	-1	6.787	1	1765	66	0.5
47485.9	10000	41.8735	92.4823	-767	QL	2.2	-1	7.8	1	1.1	0	0.282	-1	1.933	-1	6.853	1	1762	43	0.5
47485.8	10000	41.8740	92.4823	-780	QL	2.3	-1	7.9	1	1.1	0	0.291	-1	2.029	0	6.960	1	1772	41	0.5
47485.7	10000	41.8746	92.4823	-792	QL	2.3	-1	8.3	2	1.1	0	0.274	-1	1.995	-1	7.268	2	1772	37	0.5
47485.6	10000	41.8752	92.4823	-803	QL	2.6	0	7.8	1	1.1	0	0.329	0	2.252	0	6.847	1	1781	45	0.5
47485.5	10000	41.8757	92.4823	-815	QL	2.7	0	7.3	0	1.2	0	0.362	0	2.289	0	6.325	0	1775	42	0.5
47485.4	10000	41.8763	92.4823	-826	QL	2.3	-1	7.3	0	1.2	0	0.311	-1	1.909	-1	6.144	0	1772	49	0.5
47485.3	10000	41.8769	92.4823	-837	QL	2.3	-1	7.2	0	1.2	0	0.317	-1	1.871	-1	5.910	0	1772	31	0.5
47485.2	10000	41.8774	92.4823	-847	QL	2.2	-1	7.3	0	1.2	0	0.297	-1	1.797	-1	6.057	0	1760	42	0.5
47485.1	10000	41.8780	92.4823	-857	QL	2.0	-1	7.3	0	1.2	1	0.273	-1	1.593	-1	5.838	-1	1738	37	0.5
47485.0	10000	41.8785	92.4823	-866	QK	1.9	-1	6.8	-1	1.2	1	0.282	-1	1.577	-1	5.600	-1	1730	44	0.5
47484.9	10000	41.8791	92.4823	-875	QK	1.6	-2	7.0	0	1.2	1	0.232	-2	1.352	-2	5.822	-1	1723	49	0.5
47484.8	10000	41.8797	92.4823	-883	QK	1.6	-2	7.3	0	1.2	1	0.216	-2	1.287	-2	5.959	-1	1733	47	0.5
47484.7	10000	41.8802	92.4824	-891	QK	1.7	-2	7.0	0	1.2	1	0.237	-2	1.391	-2	5.868	-1	1737	42	0.5
47484.6	10000	41.8808	92.4824	-899	QK	1.6	-2	6.9	0	1.2	1	0.230	-2	1.284	-2	5.574	-1	1740	43	0.5
47484.5	10000	41.8814	92.4824	-906	QK	1.6	-2	6.7	-1	1.3	1	0.244	-1	1.274	-2	5.216	-2	1755	39	0.5
47484.4	10000	41.8819	92.4824	-913	QK	1.8	-1	6.9	0	1.2	1	0.266	-1	1.480	-2	5.563	-1	1762	46	0.5
47484.3	10000	41.8825	92.4824	-919	QK	1.8	-1	7.1	0	1.3	1	0.256	-1	1.400	-2	5.469	-1	1765	38	0.5
47484.2	10000	41.8831	92.4824	-926	QK	1.7	-2	7.0	0	1.3	1	0.247	-1	1.317	-2	5.326	-2	1769	41	0.5
47484.1	10000	41.8836	92.4824	-931	QK	1.7	-2	7.0	0	1.3	1	0.250	-1	1.293	-2	5.169	-2	1768	51	0.5
47484.0	10000	41.8842	92.4824	-937	QK	1.9	-1	7.1	0	1.4	2	0.264	-1	1.384	-2	5.239	-2	1780	54	0.5
47483.9	10000	41.8848	92.4824	-941	QK	1.9	-1	7.4	1	1.3	2	0.254	-1	1.416	-2	5.586	-1	1798	30	0.5
47483.8	10000	41.8853	92.4824	-945	QK	1.9	-1	8.0	1	1.3	2	0.236	-2	1.504	-2	6.376	0	1789	40	0.5
47483.7	10000	41.8859	92.4824	-949	QK	1.9	-1	7.9	1	1.3	2	0.238	-2	1.418	-2	5.959	-1	1800	41	0.5
47483.6	10000	41.8865	92.4824	-952	QK	1.9	-1	8.0	1	1.3	2	0.236	-2	1.449	-2	6.147	0	1797	44	0.5
47483.5	10000	41.8870	92.4824	-954	QK	2.1	-1	8.0	1	1.3	1	0.261	-1	1.632	-1	6.259	0	1802	39	0.5
47483.4	10000	41.8876	92.4824	-957	QK	2.1	-1	8.0	1	1.3	1	0.263	-1	1.669	-1	6.337	0	1810	38	0.5
47483.3	10000	41.8882	92.4824	-959	QK	1.9	-1	8.0	2	1.3	2	0.230	-2	1.480	-2	6.446	0	1792	30	0.5
47483.2	10000	41.8887	92.4825	-962	QK	2.0	-1	8.0	1	1.3	1	0.249	-1	1.526	-2	6.119	-1	1768	36	0.5
47483.1	10000	41.8893	92.4825	-963	QK	2.4	0	7.8	1	1.4	1	0.304	-1	1.699	-1	5.593	-1	1786	32	0.5
47483.0	10000	41.8899	92.4825	-965	QK	2.3	0	7.7	1	1.3	1	0.304	-1	1.753	-1	5.773	-1	1778	46	0.5
47482.9	10000	41.8904	92.4825	-968	QK	2.5	0	7.3	0	1.3	0	0.340	0	1.836	-1	5.400	-2	1773	33	0.5
47482.8	10000	41.8910	92.4825	-970	QK	2.4	0	6.8	-1	1.2	0	0.348	0	1.795	-1	5.162	-2	1732	41	0.5
47482.7	10000	41.8916	92.4825	-971	QK	2.5	0	6.5	-1	1.2	0	0.381	0	2.017	-1	5.299	-2	1675	44	0.5
47482.6	10000	41.8921	92.4825	-972	QK	2.6	0	5.9	-2	1.1	-1	0.446	2	2.296	0	5.154	-2	1632	45	0.5
47482.5	10000	41.8927	92.4825	-973	QK	2.6	0	5.5	-2	1.1	-1	0.463	2	2.335	0	5.043	-2	1593	50	0.5
47482.4	10000	41.8933	92.4825	-973	QK	2.2	-1	5.3	-3	1.1	-1	0.422	2	2.023	-1	4.797	-2	1553	51	0.5
47482.3	10000	41.8938	92.4825	-973	QK	2.4	-1	5.2	-3	1.1	-1	0.462	2	2.192	0	4.714	-3	1529	44	0.5
47482.2	10000	41.8944	92.4825	-973	QK	2.4	-1	5.2	-3	1.1	-1	0.457	2	2.250	0	4.921	-2	1502	55	0.5
47482.1	10000	41.8950	92.4825	-976	QK	2.4	-1	5.5	-2	1.1	0	0.446	1	2.330	0	5.225	-2	1513	46	0.5
47482.0	10000	41.8955	92.4825	-976	QK	2.3	-1	5.4	-2	1.1	0	0.423	1	2.121	0	5.013	-2	1529	41	0.5
47481.9	10000	41.8961	92.4825	-976	QK	2.4	0	5.7	-2	1.1	0	0.421	1	2.144	0	5.095	-2	1555	56	0.5

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47481.8	10000	41.8967	92.4825	-976	QK	2.6	0	6.1	-2	1.1	0	0.422	1	2.264	0	5.362	-2	1589	40	0.5
47481.7	10000	41.8972	92.4825	-976	QK	2.7	0	5.7	-2	1.0	-1	0.474	2	2.630	0	5.547	-1	1587	51	0.5
47481.6	10000	41.8978	92.4825	-976	QK	2.4	0	5.6	-2	1.1	0	0.429	1	2.255	0	5.261	-2	1595	39	0.5
47481.5	10000	41.8984	92.4826	-976	QK	2.5	0	5.8	-2	1.1	0	0.438	1	2.386	0	5.453	-1	1618	43	0.5
47481.4	10000	41.8989	92.4826	-976	QAL	2.6	0	5.9	-1	1.1	0	0.439	1	2.425	0	5.521	-1	1625	37	0.5
47481.3	10000	41.8995	92.4826	-976	QAL	2.7	1	6.0	0	1.1	0	0.454	1	2.569	0	5.664	-1	1639	55	0.5
47481.2	10000	41.9001	92.4826	-976	QAL	2.6	0	5.8	-1	1.1	0	0.456	1	2.472	0	5.425	-1	1625	45	0.5
47481.1	10000	41.9006	92.4826	-975	QAL	2.4	0	5.2	-1	1.0	0	0.460	1	2.316	0	5.032	-1	1580	51	0.5
47481.0	10000	41.9012	92.4826	-975	QAL	2.3	0	5.4	0	1.1	0	0.414	0	2.093	0	5.050	-1	1547	36	0.5
47480.9	10000	41.9017	92.4826	-974	QAL	2.1	-1	5.3	-1	1.0	-1	0.403	0	2.155	0	5.345	-1	1493	33	0.5
47480.8	10000	41.9023	92.4826	-973	QAL	1.8	-1	5.0	-2	1.0	-1	0.364	0	1.830	-1	5.023	-1	1435	43	0.5
47480.7	10000	41.9029	92.4826	-973	QAL	1.7	-1	4.6	-2	1.0	-1	0.370	0	1.754	-1	4.741	-2	1381	49	0.5
47480.6	10000	41.9035	92.4826	-973	QAL	1.6	-2	4.6	-2	0.9	-1	0.337	0	1.702	-1	5.048	-1	1337	58	0.5
47480.5	10000	41.9040	92.4826	-973	QAL	1.7	-1	4.6	-2	0.9	-1	0.367	0	1.919	-1	5.223	-1	1333	35	0.5
47480.4	10000	41.9046	92.4826	-973	QAL	1.9	-1	4.9	-2	0.9	-1	0.388	0	2.206	0	5.685	-1	1341	47	0.5
47480.3	10000	41.9052	92.4826	-973	QAL	2.1	-1	4.6	-2	0.8	-2	0.451	0	2.526	0	5.598	-1	1357	42	0.5
47480.2	10000	41.9057	92.4826	-972	QK	2.2	-1	4.7	-3	0.8	-2	0.476	1	2.644	1	5.558	-1	1389	43	0.5
47480.1	10000	41.9063	92.4826	-972	QK	2.5	0	4.6	-4	0.9	-2	0.548	2	2.971	1	5.425	-2	1422	36	0.5
47480.0	10000	41.9069	92.4827	-972	QK	2.4	0	4.8	-3	0.9	-2	0.496	2	2.777	1	5.598	-1	1444	47	0.5
47479.9	10000	41.9074	92.4827	-971	QK	2.6	0	4.9	-3	0.9	-2	0.518	2	2.859	1	5.519	-1	1482	42	0.5
47479.8	10000	41.9080	92.4827	-971	QK	2.4	0	5.5	-2	0.9	-2	0.436	1	2.635	1	6.040	-1	1506	60	0.5
47479.7	10000	41.9085	92.4827	-970	QK	2.2	-1	5.6	-2	0.9	-2	0.393	1	2.354	0	5.992	-1	1525	51	0.5
47479.6	10000	41.9091	92.4827	-969	QK	2.2	-1	5.8	-2	0.9	-2	0.373	0	2.321	0	6.213	0	1529	30	0.5
47479.5	10000	41.9097	92.4827	-967	QK	2.3	0	6.1	-1	0.9	-2	0.375	0	2.468	0	6.576	0	1541	58	0.5
47479.4	10000	41.9102	92.4827	-966	QK	2.2	-1	6.5	-1	1.0	-1	0.338	0	2.315	0	6.850	1	1562	37	0.4
47479.3	10000	41.9108	92.4827	-965	QK	2.3	0	6.7	-1	1.0	-1	0.341	0	2.380	0	6.983	1	1587	42	0.4
47479.2	10000	41.9114	92.4827	-965	QK	2.3	-1	6.6	-1	1.0	-1	0.342	0	2.291	0	6.692	0	1597	39	0.4
47479.1	10000	41.9119	92.4827	-963	QK	2.3	0	6.6	-1	1.0	-1	0.349	0	2.295	0	6.575	0	1613	52	0.4
47479.0	10000	41.9125	92.4827	-962	QK	2.3	-1	6.7	-1	1.0	-1	0.338	0	2.225	0	6.589	0	1630	30	0.4
47478.9	10000	41.9131	92.4827	-960	QK	2.2	-1	7.0	-1	1.1	0	0.313	-1	2.054	0	6.555	0	1660	48	0.4
47478.8	10000	41.9136	92.4827	-958	QK	2.1	-1	7.1	0	1.1	0	0.298	-1	1.903	-1	6.393	0	1687	41	0.4
47478.7	10000	41.9142	92.4827	-958	QK	2.1	-1	6.9	0	1.1	0	0.297	-1	1.873	-1	6.298	0	1690	38	0.4
47478.6	10000	41.9148	92.4827	-957	QK	2.0	-1	6.9	0	1.1	0	0.292	-1	1.731	-1	5.928	-1	1699	42	0.4
47478.5	10000	41.9153	92.4827	-955	QK	1.9	-1	7.2	0	1.2	0	0.261	-1	1.590	-1	6.095	-1	1705	48	0.4
47478.4	10000	41.9159	92.4827	-954	QK	1.9	-1	7.3	0	1.2	0	0.260	-1	1.531	-2	5.896	-1	1699	55	0.4
47478.3	10000	41.9165	92.4827	-953	QK	1.8	-2	7.3	0	1.3	0	0.243	-1	1.415	-2	5.817	-1	1699	37	0.4
47478.2	10000	41.9170	92.4828	-951	QK	1.8	-2	7.2	0	1.3	0	0.248	-1	1.387	-2	5.591	-1	1694	41	0.4
47478.1	10000	41.9176	92.4828	-949	QK	1.7	-2	7.1	0	1.3	0	0.242	-2	1.348	-2	5.572	-1	1682	41	0.4
47478.0	10000	41.9182	92.4828	-946	QK	1.6	-2	7.2	0	1.2	0	0.223	-2	1.285	-2	5.755	-1	1663	34	0.4
47477.9	10000	41.9187	92.4828	-945	QK	1.7	-2	7.1	0	1.2	0	0.235	-2	1.369	-2	5.823	-1	1660	34	0.4
47477.8	10000	41.9193	92.4828	-946	QK	1.7	-2	7.0	0	1.2	0	0.237	-2	1.364	-2	5.765	-1	1649	42	0.4
47477.7	10000	41.9199	92.4828	-946	QK	1.7	-2	6.7	-1	1.2	0	0.258	-1	1.505	-2	5.841	-1	1649	26	0.4
47477.6	10000	41.9204	92.4828	-946	QK	1.8	-2	6.7	-1	1.1	0	0.266	-1	1.587	-1	5.961	-1	1648	28	0.4
47477.5	10000	41.9210	92.4828	-945	QK	1.8	-2	6.8	-1	1.1	0	0.261	-1	1.628	-1	6.233	0	1651	34	0.4
47477.4	10000	41.9216	92.4828	-943	QK	2.0	-1	6.9	-1	1.1	0	0.284	-1	1.785	-1	6.280	0	1654	38	0.4
47477.3	10000	41.9221	92.4828	-942	QK	2.0	-1	7.1	0	1.1	0	0.288	-1	1.800	-1	6.252	0	1672	36	0.4
47477.2	10000	41.9227	92.4828	-943	QK	2.0	-1	7.0	0	1.1	0	0.287	-1	1.772	-1	6.171	0	1685	42	0.4
47477.1	10000	41.9233	92.4828	-943	QK	2.1	-1	6.7	-1	1.1	0	0.320	-1	1.886	-1	5.887	-1	1692	52	0.3
47477.0	10000	41.9238	92.4828	-943	QK	2.1	-1	6.9	-1	1.2	0	0.297	-1	1.760	-1	5.936	-1	1695	43	0.3
47476.9	10000	41.9244	92.4828	-943	QK	2.2	-1	6.8	-1	1.2	0	0.317	-1	1.845	-1	5.818	-1	1689	38	0.3
47476.8	10000	41.9250	92.4828	-943	QK	2.2	-1	6.7	-1	1.2	0	0.334	0	1.881	-1	5.637	-1	1679	37	0.3
47476.7	10000	41.9255	92.4828	-943	QK	2.1	-1	6.4	-1	1.2	1	0.334	0	1.775	-1	5.315	-2	1677	38	0.3

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47476.6	10000	41.9261	92.4828	-944	QK	2.1	-1	6.0	-2	1.2	0	0.343	0	1.768	-1	5.161	-2	1671	33	0.3
47476.5	10000	41.9267	92.4829	-944	QK	2.2	-1	6.1	-1	1.1	0	0.359	0	1.921	-1	5.347	-2	1643	38	0.3
47476.4	10000	41.9272	92.4829	-945	QK	2.1	-1	6.2	-1	1.1	0	0.334	0	1.805	-1	5.401	-2	1640	48	0.3
47476.3	10000	41.9278	92.4829	-946	QK	1.9	-1	6.0	-2	1.1	0	0.322	0	1.695	-1	5.264	-2	1636	43	0.3
47476.2	10000	41.9284	92.4829	-946	QK	2.2	-1	6.2	-1	1.2	0	0.350	0	1.854	-1	5.297	-2	1639	45	0.3
47476.1	10000	41.9289	92.4829	-947	QK	2.1	-1	6.1	-2	1.2	0	0.353	0	1.844	-1	5.223	-2	1628	51	0.3
47476.0	10000	41.9295	92.4829	-948	QK	2.0	-1	6.1	-2	1.2	0	0.334	0	1.762	-1	5.270	-2	1600	48	0.3
47475.9	10000	41.9301	92.4829	-949	QK	2.0	-1	5.7	-2	1.2	0	0.354	0	1.737	-1	4.902	-2	1544	43	0.3
47475.8	10000	41.9306	92.4829	-950	QK	1.9	-1	5.5	-2	1.2	0	0.355	0	1.671	-1	4.708	-3	1512	39	0.3
47475.7	10000	41.9312	92.4829	-951	QK	1.8	-1	5.5	-2	1.1	0	0.333	0	1.625	-1	4.875	-2	1487	39	0.3
47475.6	10000	41.9318	92.4829	-952	QK	2.1	-1	5.4	-2	1.1	0	0.391	1	1.908	-1	4.880	-2	1468	37	0.3
47475.5	10000	41.9323	92.4829	-954	QK	1.8	-1	5.1	-3	1.0	-1	0.359	0	1.755	-1	4.885	-2	1445	37	0.3
47475.4	10000	41.9329	92.4829	-956	QK	1.9	-1	5.0	-3	1.0	-1	0.377	0	1.828	-1	4.849	-2	1413	49	0.3
47475.3	10000	41.9334	92.4829	-957	QK	1.8	-2	4.7	-3	1.0	-1	0.380	0	1.861	-1	4.903	-2	1376	38	0.3
47475.2	10000	41.9340	92.4829	-958	QK	1.8	-1	4.8	-3	0.9	-2	0.384	0	2.033	0	5.287	-2	1365	37	0.3
47475.1	10000	41.9346	92.4829	-960	QK	1.7	-2	4.6	-4	0.9	-2	0.370	0	1.932	-1	5.227	-2	1350	36	0.3
47475.0	10000	41.9352	92.4830	-962	QK	1.8	-1	4.5	-4	0.9	-2	0.414	1	2.003	-1	4.835	-2	1341	40	0.3
47474.9	10000	41.9357	92.4830	-963	QK	1.7	-2	4.2	-4	0.9	-2	0.395	1	1.808	-1	4.576	-3	1348	49	0.3
47474.8	10000	41.9363	92.4830	-964	QK	1.7	-2	4.3	-4	0.9	-2	0.401	1	1.872	-1	4.673	-3	1353	40	0.3
47474.7	10000	41.9368	92.4830	-965	QK	1.7	-2	4.7	-4	0.9	-2	0.370	0	1.883	-1	5.088	-2	1391	38	0.3
47474.6	10000	41.9374	92.4830	-965	QK	2.1	-1	5.3	-3	1.0	-1	0.384	0	2.147	0	5.588	-1	1457	46	0.3
47474.5	10000	41.9380	92.4830	-965	QK	2.1	-1	6.0	-2	1.0	-1	0.356	0	2.124	0	5.971	-1	1516	41	0.3
47474.4	10000	41.9385	92.4830	-965	QK	2.6	0	6.4	-1	1.0	-1	0.403	1	2.605	1	6.461	0	1560	46	0.3
47474.3	10000	41.9391	92.4830	-965	QK	2.8	1	6.5	-1	0.9	-1	0.432	1	2.950	1	6.827	0	1568	38	0.3
47474.2	10000	41.9397	92.4830	-965	QK	2.8	1	6.5	-1	0.9	-2	0.424	1	3.014	2	7.111	1	1556	52	0.3
47474.1	10000	41.9402	92.4830	-965	QK	2.9	1	6.5	-1	1.0	-1	0.439	1	3.003	2	6.843	1	1550	44	0.3
47474.0	10000	41.9408	92.4830	-965	QAL	2.8	1	6.0	-1	0.9	-1	0.464	1	3.104	2	6.687	1	1526	40	0.3
47473.9	10000	41.9414	92.4830	-964	QAL	2.8	1	5.6	-1	0.9	-1	0.506	1	3.286	2	6.499	0	1482	39	0.3
47473.8	10000	41.9419	92.4830	-963	QAL	2.9	1	5.2	-1	0.8	-2	0.560	2	3.483	2	6.215	0	1471	46	0.3
47473.7	10000	41.9425	92.4830	-960	QAL	2.5	1	5.1	-1	0.9	-1	0.492	1	2.889	1	5.871	0	1458	44	0.3
47473.6	10000	41.9431	92.4830	-959	QAL	2.5	1	5.0	-1	0.9	-1	0.497	1	2.790	1	5.614	-1	1448	42	0.3
47473.5	10000	41.9437	92.4830	-959	QAL	2.5	1	5.0	-2	0.9	-1	0.497	1	2.835	1	5.700	-1	1444	35	0.3
47473.4	10000	41.9443	92.4830	-960	QAL	2.5	1	4.6	-2	0.9	-1	0.547	2	2.876	1	5.256	-1	1450	45	0.3
47473.3	10000	41.9449	92.4830	-960	QAL	2.5	1	4.8	-2	0.9	-1	0.519	2	2.708	1	5.220	-1	1469	39	0.3
47473.2	10000	41.9455	92.4829	-959	QAL	2.3	1	5.0	-1	0.9	-1	0.468	1	2.475	1	5.293	-1	1511	49	0.3
47473.1	10000	41.9461	92.4829	-959	QAL	2.5	1	5.1	-1	1.0	-1	0.487	1	2.550	1	5.241	-1	1534	37	0.3
47473.0	10000	41.9467	92.4829	-958	QAL	2.8	1	5.2	-1	1.0	-1	0.536	2	2.913	1	5.438	-1	1560	38	0.3
47472.9	10000	41.9473	92.4829	-957	QAL	2.9	1	5.3	-1	0.9	-1	0.547	2	3.107	2	5.680	-1	1596	50	0.3
47472.8	10000	41.9479	92.4828	-955	QAL	3.2	1	5.4	-1	0.9	-1	0.587	2	3.513	2	5.989	0	1605	42	0.3
47472.7	10000	41.9485	92.4828	-954	QAL	3.0	1	5.8	-1	0.9	-1	0.514	2	3.327	2	6.470	0	1607	53	0.3
47472.6	10000	41.9491	92.4828	-953	QAL	3.1	1	5.9	-1	0.9	-1	0.522	2	3.373	2	6.461	0	1611	36	0.3
47472.5	10000	41.9497	92.4828	-952	QAL	3.1	1	5.8	-1	0.9	-1	0.527	2	3.376	2	6.405	0	1610	35	0.3
47472.4	10000	41.9503	92.4827	-951	QAL	2.9	1	6.1	0	0.9	-1	0.477	1	3.221	2	6.757	1	1618	29	0.3
47472.3	10000	41.9509	92.4827	-950	QAL	2.8	1	6.2	0	0.9	-1	0.452	1	3.047	2	6.737	1	1622	49	0.3
47472.2	10000	41.9515	92.4827	-949	QAL	3.0	1	6.2	0	0.9	-1	0.482	1	3.271	2	6.782	1	1611	36	0.3
47472.1	10000	41.9521	92.4827	-947	QAL	2.8	1	6.4	0	1.0	-1	0.440	1	2.929	1	6.656	1	1636	37	0.3
47472.0	10000	41.9528	92.4826	-946	QAL	3.0	1	6.6	0	1.0	-1	0.458	1	3.120	1	6.813	1	1647	52	0.3
47471.9	10000	41.9534	92.4826	-944	QAL	2.9	1	6.8	0	1.0	-1	0.430	1	2.964	1	6.889	1	1654	37	0.3
47471.8	10000	41.9540	92.4826	-943	QAL	3.1	1	7.1	0	1.0	0	0.434	1	2.981	1	6.870	1	1661	40	0.3
47471.7	10000	41.9546	92.4826	-941	QAL	3.1	1	6.7	0	1.0	0	0.459	1	3.084	1	6.723	1	1671	44	0.3
47471.6	10000	41.9552	92.4825	-940	QAL	3.4	2	6.9	0	1.1	0	0.490	1	3.167	2	6.460	0	1670	40	0.3
47471.5	10000	41.9558	92.4825	-939	QAL	3.1	1	7.3	1	1.1	0	0.422	0	2.801	1	6.635	1	1692	43	0.3

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47471.4	10000	41.9564	92.4825	-938	QAL	2.7	1	7.4	1	1.1	0	0.369	0	2.450	0	6.643	1	1682	55	0.3
47471.3	10000	41.9570	92.4825	-936	QAL	2.8	1	7.6	1	1.1	0	0.361	0	2.451	0	6.791	1	1700	50	0.3
47471.2	10000	41.9576	92.4824	-935	QAL	2.9	1	7.6	1	1.1	0	0.378	0	2.662	1	7.045	1	1710	43	0.3
47471.1	10000	41.9582	92.4824	-934	QAL	3.0	1	7.3	1	1.0	0	0.418	0	2.952	1	7.067	1	1711	46	0.3
47471.0	10000	41.9588	92.4824	-932	QAL	2.9	1	7.2	1	1.0	0	0.407	0	2.818	1	6.921	1	1696	44	0.3
47470.9	10000	41.9594	92.4824	-931	QAL	2.9	1	6.9	0	1.0	-1	0.426	1	2.986	1	7.013	1	1697	56	0.3
47470.8	10000	41.9600	92.4823	-929	QAL	2.9	1	6.3	0	1.0	-1	0.460	1	3.022	1	6.565	1	1679	47	0.3
47470.7	10000	41.9606	92.4823	-927	QAL	3.3	2	6.1	0	1.0	-1	0.538	2	3.446	2	6.408	0	1681	38	0.4
47470.6	10000	41.9612	92.4823	-926	QAL	3.3	2	5.8	-1	1.0	-1	0.576	2	3.468	2	6.020	0	1686	51	0.4
47470.5	10000	41.9618	92.4823	-927	QAL	3.4	2	5.9	-1	1.0	-1	0.572	2	3.392	2	5.925	0	1696	38	0.4
47470.4	10000	41.9624	92.4822	-923	QAL	3.2	1	6.1	0	1.0	0	0.531	2	3.208	2	6.040	0	1708	53	0.4
47470.3	10000	41.9630	92.4822	-921	QAL	3.4	2	6.3	0	1.0	-1	0.539	2	3.479	2	6.450	0	1725	42	0.4
47470.2	10000	41.9636	92.4822	-919	QAL	3.3	2	6.8	0	1.0	-1	0.486	1	3.315	2	6.817	1	1742	38	0.4
47470.1	10000	41.9643	92.4822	-917	QAL	3.4	2	7.0	0	1.0	-1	0.487	1	3.438	2	7.063	1	1749	46	0.4
47470.0	10000	41.9649	92.4821	-915	QAL	3.2	1	7.0	0	1.0	0	0.463	1	3.213	2	6.941	1	1752	43	0.4
47469.9	10000	41.9655	92.4821	-913	QAL	3.0	1	6.9	0	1.0	0	0.440	1	2.986	1	6.788	1	1734	34	0.4
47469.8	10000	41.9661	92.4821	-911	QAL	3.1	1	6.6	0	1.0	0	0.461	1	3.004	1	6.523	1	1727	45	0.4
47469.7	10000	41.9667	92.4821	-908	QAL	2.9	1	6.4	0	1.1	0	0.450	1	2.655	1	5.904	0	1724	42	0.4
47469.6	10000	41.9673	92.4820	-906	QAL	2.8	1	6.2	0	1.1	0	0.444	1	2.488	1	5.607	-1	1700	32	0.4
47469.5	10000	41.9679	92.4820	-904	QAL	2.8	1	5.9	-1	1.1	0	0.482	1	2.531	1	5.246	-1	1681	46	0.4
47469.4	10000	41.9685	92.4820	-902	QAL	2.5	1	5.5	-1	1.1	0	0.453	1	2.228	0	4.916	-2	1661	47	0.4
47469.3	10000	41.9691	92.4820	-899	QAL	2.5	1	5.3	-1	1.1	0	0.472	1	2.333	0	4.939	-2	1625	51	0.4
47469.2	10000	41.9697	92.4819	-896	QAL	2.5	1	5.4	-1	1.0	0	0.462	1	2.477	0	5.367	-1	1592	37	0.4
47469.1	10000	41.9703	92.4819	-893	QAL	2.4	1	5.4	-1	1.0	-1	0.443	1	2.429	0	5.484	-1	1567	59	0.5
47469.0	10000	41.9709	92.4819	-889	QAL	2.3	1	5.5	-1	1.0	-1	0.411	1	2.266	0	5.515	-1	1548	40	0.5
47468.9	10000	41.9715	92.4819	-886	QAL	2.1	1	5.3	-1	1.0	0	0.395	0	2.034	-1	5.155	-1	1546	39	0.5
47468.8	10000	41.9721	92.4818	-882	QAL	2.1	-1	5.1	-1	1.0	0	0.407	1	2.041	0	5.015	-1	1531	52	0.5
47468.7	10000	41.9727	92.4818	-878	QAL	2.3	1	5.1	-1	1.0	0	0.444	1	2.164	0	4.868	-2	1536	41	0.5
47468.6	10000	41.9733	92.4818	-873	QAL	2.3	1	5.1	-1	1.1	0	0.455	1	2.179	0	4.790	-2	1570	46	0.5
47468.5	10000	41.9739	92.4818	-870	QAL	2.4	1	4.9	-2	1.1	0	0.499	1	2.171	0	4.350	-2	1586	51	0.5
47468.4	10000	41.9745	92.4817	-866	QAL	2.6	1	4.9	-2	1.1	0	0.531	2	2.320	0	4.373	-2	1599	42	0.5
47468.3	10000	41.9751	92.4817	-861	QAL	3.0	1	5.0	-2	1.1	0	0.610	3	2.929	1	4.803	-2	1605	42	0.5
47468.2	10000	41.9757	92.4817	-856	QAL	3.1	1	5.2	-1	1.1	0	0.605	3	3.074	1	5.083	-1	1619	51	0.5
47468.1	10000	41.9764	92.4817	-850	QAL	2.8	1	5.6	-1	1.1	0	0.503	1	2.702	1	5.373	-1	1644	50	0.5
47468.0	10000	41.9770	92.4816	-844	QAL	2.9	1	6.1	0	1.1	0	0.470	1	2.778	1	5.914	0	1676	56	0.5
47467.9	10000	41.9776	92.4816	-837	QAL	2.9	1	6.2	0	1.1	0	0.469	1	2.782	1	5.936	0	1684	51	0.5
47467.8	10000	41.9782	92.4816	-830	QAL	2.7	1	6.7	0	1.1	0	0.405	1	2.648	1	6.539	1	1696	37	0.5
47467.7	10000	41.9788	92.4816	-823	QAL	2.3	1	6.5	0	1.1	0	0.346	0	2.197	1	6.349	0	1699	48	0.5
47467.6	10000	41.9794	92.4815	-815	QAL	1.9	-1	6.5	0	1.1	1	0.286	-1	1.697	0	5.943	0	1697	52	0.5
47467.5	10000	41.9800	92.4815	-807	QAL	1.9	-1	6.3	0	1.1	1	0.295	-1	1.769	-1	6.003	0	1685	51	0.5
47467.4	10000	41.9806	92.4815	-798	QAL	2.1	-1	6.2	0	1.1	0	0.347	0	2.116	0	6.103	0	1640	45	0.5
47467.3	10000	41.9812	92.4815	-788	QAL	2.2	-1	5.8	-1	1.1	-1	0.374	0	2.257	0	6.038	0	1576	49	0.6
47467.2	10000	41.9818	92.4814	-777	QAL	2.3	-1	5.7	-1	1.0	-1	0.400	0	2.571	0	6.434	0	1528	41	0.6
47467.1	10000	41.9824	92.4814	-765	QAL	2.3	-1	5.2	-1	0.9	-1	0.442	1	2.613	1	5.912	0	1481	50	0.6
47467.0	10000	41.9830	92.4814	-751	QAL	2.3	-1	5.3	-1	0.9	-2	0.446	1	2.853	1	6.399	0	1438	40	0.6
47466.9	10000	41.9836	92.4814	-739	QAL	2.4	-1	5.5	-1	0.8	-2	0.449	1	3.032	1	6.751	1	1399	35	0.6
47466.8	10000	41.9842	92.4813	-728	QAL	2.2	-1	5.3	-1	0.8	-2	0.410	1	2.741	1	6.682	1	1392	43	0.6
47466.7	10000	41.9848	92.4813	-714	QAL	2.2	-1	5.6	-1	0.8	-2	0.387	0	2.701	1	6.981	1	1416	57	0.6
47466.6	10000	41.9854	92.4813	-698	QAL	2.1	-1	5.9	-1	0.8	-2	0.347	0	2.440	0	7.024	1	1450	35	0.6
47466.5	10000	41.9860	92.4813	-682	QK	1.8	-2	5.9	-2	0.9	-2	0.298	-1	1.916	-1	6.438	0	1487	46	0.6
47466.4	10000	41.9866	92.4812	-665	QK	1.8	-2	6.1	-2	0.9	-2	0.295	-1	1.922	-1	6.510	0	1537	43	0.6
47466.3	10000	41.9872	92.4812	-647	QK	1.9	-1	6.3	-1	1.0	-1	0.305	-1	1.852	-1	6.074	-1	1591	40	0.6

LINE 1110 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47466.2	10000	41.9878	92.4812	-629	QK	2.1	-1	6.2	-1	1.1	0	0.344	0	1.955	-1	5.682	-1	1651	49	0.6
47466.1	10000	41.9884	92.4812	-609	QK	2.3	0	6.4	-1	1.1	0	0.366	0	2.117	0	5.784	-1	1706	44	0.6
47466.0	10000	41.9891	92.4811	-587	QK	2.3	0	6.5	-1	1.2	0	0.356	0	1.992	-1	5.587	-1	1739	42	0.6
47465.9	10000	41.9897	92.4811	-565	QK	2.3	0	6.4	-1	1.2	0	0.358	0	1.983	-1	5.542	-1	1757	44	0.6
47465.8	10000	41.9903	92.4811	-542	QK	2.3	0	7.0	0	1.2	0	0.333	0	1.997	-1	5.993	-1	1778	47	0.6
47465.7	10000	41.9909	92.4811	-518	QK	2.2	-1	7.1	0	1.2	1	0.316	0	1.858	-1	5.887	-1	1787	40	0.6
47465.6	10000	41.9915	92.4810	-493	QK	2.1	-1	7.3	0	1.2	1	0.287	-1	1.756	-1	6.110	-1	1789	45	0.6
47465.5	10000	41.9921	92.4810	-467	QK	2.0	-1	7.4	0	1.2	1	0.263	-1	1.651	-1	6.268	0	1788	42	0.6
47465.4	10000	41.9927	92.4810	-441	QK	1.9	-1	7.1	0	1.1	0	0.274	-1	1.685	-1	6.158	0	1748	44	0.6
47465.3	10000	41.9933	92.4810	-414	QK	2.0	-1	7.2	0	1.2	0	0.272	-1	1.685	-1	6.187	0	1736	50	0.6
47465.2	10000	41.9939	92.4809	-387	QK	1.9	-1	7.1	0	1.1	0	0.270	-1	1.662	-1	6.144	0	1709	55	0.6
47465.1	10000	41.9945	92.4809	-360	QK	1.8	-1	6.4	-1	1.1	0	0.282	-1	1.629	-1	5.770	-1	1657	24	0.6
47465.0	10000	41.9951	92.4809	-333	QK	2.0	-1	6.3	-1	1.0	-1	0.317	0	1.916	-1	6.037	-1	1606	36	0.6
47464.9	10000	41.9957	92.4809	-306	QK	1.9	-1	6.0	-2	1.0	-1	0.317	0	1.914	-1	6.045	-1	1563	41	0.6
47464.8	10000	41.9963	92.4808	-280	QK	1.9	-1	6.1	-1	0.9	-1	0.304	-1	1.966	-1	6.469	0	1542	40	0.6
47464.7	10000	41.9969	92.4808	-257	QK	1.8	-2	6.7	-1	1.0	-1	0.265	-1	1.829	-1	6.894	1	1545	61	0.6
47464.6	10000	41.9975	92.4808	-234	QK	1.5	-2	6.4	-1	1.0	-1	0.231	-2	1.479	-2	6.414	0	1549	55	0.6
47464.5	10000	41.9981	92.4808	-213	QK	1.8	-2	6.9	0	1.0	-1	0.260	-1	1.787	-1	6.866	1	1577	46	0.6
47464.4	10000	41.9987	92.4807	-192	QK	2.2	-1	7.4	0	1.0	-1	0.302	-1	2.235	0	7.405	1	1618	51	0.6
47464.3	10000	41.9993	92.4807	-172	QK	2.4	0	7.8	1	1.0	-1	0.307	-1	2.377	0	7.745	2	1664	43	0.6
47464.2	10000	41.9999	92.4807	-154	QK	2.9	1	8.3	1	1.0	-1	0.349	0	2.831	1	8.114	2	1700	37	0.6

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47639.7	10000	41.0024	92.1536	-730	QK	2.7	0	6.5	-1	1.2	0	0.413	1	2.301	0	5.565	-1	1849	43	0.7
47639.8	10000	41.0030	92.1535	-730	QK	2.5	0	6.6	-1	1.2	0	0.377	0	2.144	0	5.683	-1	1846	54	0.7
47639.9	10000	41.0036	92.1534	-731	QK	2.5	0	6.4	-1	1.2	1	0.387	0	2.077	0	5.368	-2	1856	34	0.7
47640.0	10000	41.0043	92.1533	-731	QK	2.4	0	6.6	-1	1.2	1	0.372	0	2.024	-1	5.437	-1	1853	49	0.7
47640.1	10000	41.0049	92.1531	-731	QK	2.3	0	6.9	0	1.2	1	0.334	0	1.853	-1	5.554	-1	1846	37	0.7
47640.2	10000	41.0055	92.1530	-730	QK	2.0	-1	7.3	0	1.3	1	0.277	-1	1.597	-1	5.766	-1	1862	43	0.7
47640.3	10000	41.0062	92.1529	-730	QK	1.6	-2	7.5	0	1.3	2	0.207	-2	1.190	-2	5.757	-1	1865	37	0.7
47640.4	10000	41.0068	92.1527	-729	QK	1.8	-1	7.1	0	1.3	2	0.254	-1	1.384	-2	5.444	-1	1871	43	0.7
47640.5	10000	41.0075	92.1526	-727	QK	2.1	-1	7.1	0	1.3	1	0.295	-1	1.645	-1	5.567	-1	1868	33	0.7
47640.6	10000	41.0081	92.1525	-726	QK	2.0	-1	7.1	0	1.2	1	0.290	-1	1.667	-1	5.738	-1	1856	40	0.7
47640.7	10000	41.0087	92.1523	-725	QK	2.3	0	7.0	0	1.2	1	0.327	0	1.920	-1	5.867	-1	1866	45	0.7
47640.8	10000	41.0094	92.1522	-724	QK	2.6	0	6.9	0	1.1	0	0.370	0	2.233	0	6.035	-1	1862	44	0.7
47640.9	10000	41.0100	92.1521	-722	QK	2.8	0	6.8	-1	1.1	0	0.404	1	2.500	0	6.182	0	1850	32	0.7
47641.0	10000	41.0106	92.1519	-720	QK	3.0	1	6.4	-1	1.1	0	0.474	2	2.754	1	5.812	-1	1850	46	0.7
47641.1	10000	41.0113	92.1518	-719	QK	3.0	1	6.7	-1	1.1	-1	0.447	1	2.827	1	6.323	0	1835	34	0.8
47641.2	10000	41.0119	92.1517	-717	QK	3.0	1	6.7	-1	1.0	-1	0.454	2	2.896	1	6.379	0	1819	57	0.8
47641.3	10000	41.0126	92.1516	-716	QK	3.1	1	6.6	-1	1.0	-1	0.472	2	3.087	2	6.535	0	1805	37	0.8
47641.4	10000	41.0132	92.1514	-713	QK	3.0	1	6.7	-1	1.0	-1	0.450	2	3.030	2	6.726	0	1797	42	0.8
47641.5	10000	41.0138	92.1513	-711	QK	2.9	1	7.2	0	1.0	-1	0.409	2	2.870	1	7.022	1	1814	32	0.8
47641.6	10000	41.0145	92.1512	-711	QK	3.3	2	6.8	-1	1.0	-1	0.479	2	3.206	2	6.696	0	1811	32	0.8
47641.7	10000	41.0151	92.1511	-711	QK	3.2	1	7.1	0	1.0	-1	0.453	1	3.272	2	7.227	1	1812	42	0.8
47641.8	10000	41.0157	92.1511	-712	QK	3.1	1	7.1	0	1.0	-1	0.441	1	3.149	2	7.145	1	1807	47	0.8
47641.9	10000	41.0163	92.1511	-710	QK	2.8	1	7.3	0	1.0	-1	0.383	0	2.739	1	7.146	1	1815	41	0.8
47642.0	10000	41.0169	92.1511	-708	QK	2.8	1	7.4	0	1.1	0	0.375	0	2.575	1	6.870	1	1823	48	0.8
47642.1	10000	41.0175	92.1511	-707	QK	2.5	0	7.5	0	1.1	0	0.337	0	2.331	0	6.913	1	1801	48	0.8
47642.2	10000	41.0181	92.1511	-706	QK	2.7	0	7.3	0	1.0	-1	0.364	0	2.626	1	7.208	1	1773	43	0.8
47642.3	10000	41.0188	92.1511	-706	QK	2.1	-1	7.5	0	1.0	-1	0.280	-1	2.077	0	7.429	1	1753	30	0.8
47642.4	10000	41.0194	92.1511	-706	QK	2.0	-1	7.3	0	1.0	-1	0.269	-1	1.935	-1	7.190	1	1739	44	0.8
47642.5	10000	41.0200	92.1510	-706	QK	1.9	-1	7.6	1	1.0	-1	0.255	-1	1.923	-1	7.529	1	1739	39	0.8
47642.6	10000	41.0206	92.1510	-706	QK	2.4	0	7.1	0	1.0	-1	0.330	0	2.437	0	7.376	1	1729	52	0.8
47642.7	10000	41.0212	92.1510	-706	QK	2.2	-1	7.5	0	0.9	-2	0.293	-1	2.386	0	8.157	2	1729	46	0.8
47642.8	10000	41.0218	92.1510	-706	QK	2.2	-1	7.0	0	0.9	-2	0.316	0	2.345	0	7.425	1	1739	49	0.8
47642.9	10000	41.0224	92.1510	-707	QK	1.9	-1	6.3	-1	1.0	-1	0.294	-1	1.846	-1	6.283	0	1725	35	0.8
47643.0	10000	41.0230	92.1510	-708	QK	2.2	-1	6.5	-1	1.0	-1	0.339	0	2.270	1	6.699	1	1723	38	0.8
47643.1	10000	41.0237	92.1510	-709	QK	2.4	0	6.7	-1	0.9	-2	0.351	0	2.528	1	7.206	1	1708	49	0.8
47643.2	10000	41.0243	92.1510	-709	QK	2.7	0	6.3	-1	0.9	-2	0.423	1	3.004	2	7.097	1	1692	34	0.8
47643.3	10000	41.0249	92.1510	-710	QK	2.3	-1	6.6	-1	0.9	-2	0.343	0	2.434	1	7.100	1	1686	33	0.8
47643.4	10000	41.0255	92.1510	-709	QK	2.6	0	6.4	-1	0.9	-2	0.405	1	2.804	1	6.920	1	1680	42	0.8
47643.5	10000	41.0261	92.1509	-709	QK	2.7	0	6.3	-1	0.9	-2	0.426	1	3.024	2	7.101	1	1681	51	0.8
47643.6	10000	41.0267	92.1509	-712	QK	2.8	1	6.5	-1	0.9	-2	0.424	1	3.150	2	7.431	1	1691	29	0.8
47643.7	10000	41.0273	92.1509	-716	QAL	2.7	1	6.5	0	1.0	-1	0.423	1	2.842	1	6.714	0	1726	29	0.8
47643.8	10000	41.0279	92.1509	-716	QAL	2.6	1	6.4	0	1.0	0	0.401	0	2.481	0	6.186	0	1757	37	0.8
47643.9	10000	41.0285	92.1509	-716	QAL	2.5	0	6.8	0	1.1	0	0.361	0	2.313	0	6.404	0	1775	35	0.8
47644.0	10000	41.0292	92.1509	-717	QAL	2.6	0	6.7	0	1.1	0	0.393	0	2.475	0	6.293	0	1796	36	0.8
47644.1	10000	41.0298	92.1509	-718	QAL	2.7	0	6.5	0	1.1	0	0.411	0	2.604	1	6.342	0	1808	41	0.8
47644.2	10000	41.0304	92.1509	-719	QAL	2.9	1	6.5	0	1.1	0	0.445	1	2.779	1	6.246	0	1821	48	0.8
47644.3	10000	41.0310	92.1508	-720	QAL	2.9	1	6.8	0	1.1	0	0.435	1	2.792	1	6.425	0	1852	44	0.8
47644.4	10000	41.0316	92.1508	-722	QAL	3.0	1	6.6	0	1.1	0	0.446	1	2.945	1	6.599	1	1859	35	0.9
47644.5	10000	41.0322	92.1508	-723	QAL	3.3	1	6.5	0	1.1	0	0.510	1	3.276	2	6.422	1	1894	34	0.9
47644.6	10000	41.0328	92.1508	-725	QAL	3.4	2	6.3	0	1.1	0	0.532	2	3.112	2	5.849	0	1929	42	0.9
47644.7	10000	41.0334	92.1508	-726	QAL	3.7	2	6.4	0	1.1	0	0.585	2	3.452	2	5.897	0	1958	63	0.9
47644.8	10000	41.0340	92.1508	-728	QAL	3.5	2	6.1	0	1.1	0	0.582	2	3.210	2	5.516	-1	1965	38	0.9

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47644.9	10000	41.0347	92.1508	-730	QAL	3.3	2	6.6	0	1.1	0	0.498	1	2.965	1	5.949	0	1962	42	0.9
47645.0	10000	41.0353	92.1508	-731	QAL	3.5	2	6.7	0	1.1	0	0.526	2	3.199	2	6.075	0	1955	44	0.9
47645.1	10000	41.0359	92.1508	-733	QAL	3.3	2	7.1	1	1.1	0	0.460	1	3.008	1	6.537	1	1928	36	0.9
47645.2	10000	41.0365	92.1507	-735	QAL	3.2	1	7.3	1	1.0	0	0.433	1	3.016	1	6.973	1	1901	38	0.9
47645.3	10000	41.0371	92.1507	-736	QAL	3.0	1	7.3	1	1.0	0	0.407	0	2.916	1	7.156	1	1874	28	0.9
47645.4	10000	41.0377	92.1507	-738	QAL	2.5	0	7.6	1	1.0	0	0.323	-1	2.367	0	7.333	2	1853	38	0.9
47645.5	10000	41.0383	92.1507	-740	QAL	2.6	0	7.8	1	1.0	0	0.328	-1	2.490	0	7.584	2	1843	41	0.9
47645.6	10000	41.0390	92.1507	-744	QK	2.7	0	7.7	1	1.0	-1	0.354	0	2.652	1	7.494	1	1841	42	0.9
47645.7	10000	41.0396	92.1507	-747	QK	2.4	0	7.8	1	1.1	-1	0.307	-1	2.273	0	7.409	1	1833	45	0.9
47645.8	10000	41.0402	92.1507	-751	QK	2.4	0	7.4	0	1.1	0	0.328	0	2.223	0	6.782	0	1846	44	0.9
47645.9	10000	41.0408	92.1507	-755	QK	2.2	-1	7.3	0	1.2	0	0.306	-1	1.943	-1	6.349	0	1849	31	0.9
47646.0	10000	41.0414	92.1507	-758	QK	2.4	0	7.1	0	1.1	0	0.337	0	2.095	0	6.220	0	1858	29	0.9
47646.1	10000	41.0420	92.1506	-762	QK	2.6	0	7.1	0	1.1	0	0.367	0	2.277	0	6.209	0	1862	38	0.9
47646.2	10000	41.0426	92.1506	-765	QK	2.4	0	7.3	0	1.2	0	0.322	0	2.010	-1	6.236	0	1869	52	0.9
47646.3	10000	41.0432	92.1506	-770	QK	2.3	0	7.4	0	1.1	0	0.311	-1	2.011	-1	6.473	0	1874	61	0.9
47646.4	10000	41.0438	92.1506	-774	QK	2.4	0	7.3	0	1.2	0	0.327	0	2.070	0	6.320	0	1877	50	0.9
47646.5	10000	41.0445	92.1506	-778	QK	2.3	0	7.4	0	1.2	0	0.310	-1	1.971	-1	6.359	0	1865	39	0.9
47646.6	10000	41.0451	92.1506	-781	QK	2.2	-1	7.6	0	1.1	0	0.292	-1	1.973	-1	6.748	0	1853	48	0.9
47646.7	10000	41.0457	92.1506	-785	QK	2.1	-1	7.9	1	1.1	0	0.272	-1	1.866	-1	6.859	1	1857	51	0.9
47646.8	10000	41.0463	92.1506	-794	QK	2.0	-1	7.6	0	1.2	0	0.263	-1	1.716	-1	6.515	0	1855	44	0.8
47646.9	10000	41.0469	92.1505	-802	QK	2.1	-1	7.5	0	1.2	0	0.280	-1	1.772	-1	6.323	0	1852	38	0.8
47647.0	10000	41.0475	92.1505	-808	QK	2.0	-1	7.1	0	1.2	0	0.285	-1	1.710	-1	6.000	-1	1832	41	0.8
47647.1	10000	41.0481	92.1505	-814	QK	2.4	0	7.3	0	1.2	0	0.329	0	2.077	0	6.303	0	1843	53	0.8
47647.2	10000	41.0487	92.1505	-821	QK	2.5	0	7.4	0	1.1	0	0.341	0	2.264	0	6.640	0	1850	38	0.8
47647.3	10000	41.0494	92.1505	-829	QK	2.6	0	7.6	1	1.1	0	0.340	0	2.378	0	6.999	1	1853	26	0.8
47647.4	10000	41.0500	92.1505	-837	QK	2.5	0	7.7	1	1.1	-1	0.321	0	2.348	0	7.314	1	1844	42	0.8
47647.5	10000	41.0506	92.1505	-846	QK	2.6	0	7.5	0	1.0	-1	0.348	0	2.569	1	7.373	1	1836	55	0.8
47647.6	10000	41.0512	92.1505	-855	QK	2.6	0	7.7	1	1.0	-1	0.343	0	2.616	1	7.632	2	1826	36	0.8
47647.7	10000	41.0518	92.1505	-864	QK	2.6	0	7.7	1	1.0	-1	0.340	0	2.605	1	7.658	2	1825	39	0.8
47647.8	10000	41.0524	92.1505	-873	QK	2.0	-1	7.6	1	1.0	-1	0.270	-1	1.980	-1	7.338	1	1796	39	0.8
47647.9	10000	41.0530	92.1504	-882	QK	2.0	-1	7.7	1	1.0	-1	0.255	-1	1.929	-1	7.567	2	1765	29	0.8
47648.0	10000	41.0536	92.1504	-891	QK	1.9	-1	7.3	0	1.0	-1	0.255	-1	1.824	-1	7.158	1	1740	42	0.8
47648.1	10000	41.0543	92.1504	-902	QK	1.9	-1	6.9	0	1.0	-1	0.282	-1	1.902	-1	6.743	0	1704	47	0.8
47648.2	10000	41.0549	92.1504	-913	QK	1.9	-1	7.3	0	1.0	-1	0.253	-1	1.865	-1	7.369	1	1692	37	0.8
47648.3	10000	41.0555	92.1504	-923	QK	1.9	-1	7.4	0	1.0	-1	0.264	-1	1.996	-1	7.548	2	1667	40	0.8
47648.4	10000	41.0561	92.1504	-933	QK	2.0	-1	7.2	0	1.0	-1	0.279	-1	2.053	0	7.349	1	1679	38	0.8
47648.5	10000	41.0567	92.1504	-943	QK	2.6	0	6.9	0	0.9	-1	0.374	0	2.710	1	7.254	1	1675	50	0.8
47648.6	10000	41.0573	92.1504	-954	QK	2.9	1	6.7	-1	0.9	-1	0.433	1	3.047	2	7.032	1	1687	40	0.8
47648.7	10000	41.0579	92.1503	-964	QK	3.1	1	6.8	-1	1.0	-1	0.458	1	3.180	2	6.946	1	1688	44	0.8
47648.8	10000	41.0585	92.1503	-974	QK	3.2	1	6.9	0	0.9	-2	0.470	1	3.524	3	7.498	1	1705	52	0.8
47648.9	10000	41.0591	92.1503	-983	QK	3.5	2	6.6	-1	1.0	-1	0.538	2	3.695	3	6.868	1	1717	39	0.8
47649.0	10000	41.0598	92.1503	-992	QK	3.3	2	6.1	-1	1.0	-1	0.543	2	3.384	2	6.234	0	1740	41	0.8
47649.1	10000	41.0604	92.1503	-1001	QK	3.3	2	6.1	-1	1.0	-1	0.542	2	3.410	2	6.294	0	1736	31	0.8
47649.2	10000	41.0610	92.1503	-1009	QK	3.0	1	6.1	-2	1.0	-1	0.491	2	3.030	2	6.167	0	1731	46	0.8
47649.3	10000	41.0616	92.1503	-1016	QK	3.0	1	5.8	-2	1.0	-1	0.506	2	2.938	1	5.807	-1	1726	50	0.8
47649.4	10000	41.0622	92.1503	-1023	QK	2.9	1	5.8	-2	0.9	-2	0.501	2	3.115	2	6.218	0	1711	38	0.8
47649.5	10000	41.0628	92.1503	-1031	QK	3.2	1	5.4	-2	1.0	-1	0.582	2	3.227	2	5.544	-1	1720	35	0.7
47649.6	10000	41.0634	92.1502	-1038	QK	2.8	1	5.7	-2	0.9	-2	0.492	2	2.967	1	6.036	-1	1704	49	0.7
47649.7	10000	41.0640	92.1502	-1044	QK	3.1	1	6.1	-2	0.9	-2	0.502	2	3.263	2	6.503	0	1717	31	0.7
47649.8	10000	41.0647	92.1502	-1051	QK	3.3	2	6.2	-1	0.9	-2	0.536	3	3.723	3	6.945	1	1730	47	0.7
47649.9	10000	41.0653	92.1502	-1058	QK	3.6	2	6.5	-1	0.9	-2	0.555	3	4.082	4	7.358	1	1754	28	0.7
47650.0	10000	41.0659	92.1502	-1065	QK	3.5	2	6.5	-1	0.9	-2	0.532	3	3.922	3	7.370	1	1768	37	0.7

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47650.1	10000	41.0665	92.1502	-1070	QK	3.5	2	6.6	-1	0.9	-2	0.534	3	3.948	4	7.395	1	1778	56	0.7
47650.2	10000	41.0671	92.1502	-1075	QK	3.2	1	7.0	0	0.8	-2	0.460	2	3.828	3	8.322	3	1759	33	0.7
47650.3	10000	41.0677	92.1502	-1080	QK	3.4	2	7.0	0	0.8	-2	0.481	2	4.063	4	8.450	3	1770	48	0.7
47650.4	10000	41.0683	92.1501	-1085	QK	3.3	2	7.0	0	0.8	-3	0.473	2	4.383	4	9.266	4	1744	39	0.7
47650.5	10000	41.0689	92.1501	-1089	QK	3.0	1	7.0	0	0.8	-3	0.422	1	3.813	3	9.027	4	1723	44	0.7
47650.6	10000	41.0696	92.1501	-1093	QK	2.6	0	7.0	0	0.8	-3	0.376	0	3.334	2	8.858	3	1721	25	0.7
47650.7	10000	41.0702	92.1501	-1096	QK	2.8	1	7.2	0	0.8	-3	0.384	0	3.423	2	8.907	3	1746	35	0.7
47650.8	10000	41.0708	92.1501	-1100	QK	2.9	1	7.3	0	0.8	-2	0.392	1	3.391	2	8.642	3	1785	37	0.7
47650.9	10000	41.0714	92.1501	-1103	QK	3.0	1	7.3	0	0.9	-2	0.408	1	3.324	2	8.141	2	1820	46	0.7
47651.0	10000	41.0720	92.1501	-1106	QK	3.1	1	7.5	0	1.0	-1	0.408	1	3.216	2	7.875	2	1831	28	0.7
47651.1	10000	41.0726	92.1501	-1109	QK	2.9	1	7.4	0	1.0	-1	0.387	1	2.811	1	7.255	1	1865	44	0.7
47651.2	10000	41.0732	92.1501	-1111	QK	2.8	0	7.3	0	1.0	-1	0.377	0	2.680	1	7.113	1	1881	40	0.7
47651.3	10000	41.0738	92.1501	-1113	QK	2.8	1	7.6	0	1.0	-1	0.368	0	2.683	1	7.288	1	1887	44	0.7
47651.4	10000	41.0744	92.1500	-1115	QK	2.6	1	7.5	0	1.0	-1	0.345	0	2.579	1	7.481	1	1856	38	0.6
47651.5	10000	41.0751	92.1500	-1117	QK	2.5	1	7.2	0	1.0	-1	0.354	0	2.469	0	6.965	1	1842	48	0.6
47651.6	10000	41.0757	92.1500	-1119	QK	2.4	0	7.4	0	1.0	-1	0.325	0	2.309	0	7.101	1	1833	41	0.6
47651.7	10000	41.0763	92.1501	-1121	QK	2.3	0	7.3	0	1.0	-1	0.312	-1	2.194	0	7.024	1	1828	38	0.6
47651.8	10000	41.0769	92.1501	-1123	QK	2.6	1	7.3	0	1.0	-1	0.348	0	2.506	1	7.198	1	1822	46	0.6
47651.9	10000	41.0776	92.1501	-1124	QK	2.6	1	7.6	0	1.1	0	0.336	0	2.405	0	7.158	1	1840	35	0.6
47652.0	10000	41.0782	92.1501	-1126	QK	2.6	1	7.1	0	1.1	0	0.360	0	2.344	0	6.512	0	1839	42	0.6
47652.1	10000	41.0788	92.1501	-1127	QK	2.6	0	7.3	0	1.1	0	0.354	0	2.303	0	6.502	0	1849	45	0.6
47652.2	10000	41.0794	92.1501	-1128	QK	2.4	1	7.7	0	1.1	0	0.307	-1	2.071	0	6.746	0	1848	39	0.6
47652.3	10000	41.0800	92.1501	-1129	QK	2.5	1	7.4	0	1.2	0	0.341	0	2.144	0	6.289	0	1851	45	0.6
47652.4	10000	41.0807	92.1501	-1130	QK	2.6	1	7.1	0	1.2	1	0.371	0	2.203	0	5.938	-1	1860	52	0.6
47652.5	10000	41.0813	92.1501	-1130	QK	2.4	0	6.9	0	1.2	1	0.353	0	1.991	-1	5.637	-1	1837	30	0.6
47652.6	10000	41.0819	92.1502	-1130	QK	2.5	-1	6.5	-1	1.2	1	0.383	0	2.075	0	5.416	-2	1804	34	0.6
47652.7	10000	41.0825	92.1502	-1131	QK	2.7	-1	6.6	-1	1.1	0	0.414	1	2.443	0	5.895	-1	1795	41	0.6
47652.8	10000	41.0832	92.1502	-1131	QK	2.7	-1	6.6	-1	1.2	0	0.414	1	2.365	0	5.710	-1	1799	40	0.6
47652.9	10000	41.0838	92.1502	-1131	QK	3.1	-1	6.3	-1	1.1	0	0.493	2	2.789	1	5.656	-1	1816	32	0.6
47653.0	10000	41.0844	92.1502	-1131	QK	2.9	1	6.6	-1	1.1	0	0.439	1	2.593	1	5.906	-1	1827	50	0.6
47653.1	10000	41.0850	92.1502	-1132	QK	2.9	1	6.5	-1	1.1	0	0.440	1	2.557	1	5.817	-1	1832	48	0.6
47653.2	10000	41.0857	92.1502	-1132	QK	3.0	1	6.8	-1	1.1	0	0.438	1	2.685	1	6.130	-1	1856	37	0.6
47653.3	10000	41.0863	92.1502	-1131	QK	3.0	1	7.3	0	1.1	0	0.409	1	2.637	1	6.443	0	1878	38	0.6
47653.4	10000	41.0869	92.1503	-1131	QK	2.8	1	7.3	0	1.2	0	0.379	0	2.248	1	5.930	-1	1890	45	0.6
47653.5	10000	41.0875	92.1503	-1131	QK	2.9	1	7.2	0	1.2	1	0.407	1	2.341	1	5.750	-1	1905	34	0.6
47653.6	10000	41.0881	92.1503	-1130	QK	2.7	0	7.1	0	1.3	1	0.388	1	2.168	1	5.586	-1	1896	33	0.6
47653.7	10000	41.0888	92.1503	-1129	QK	2.7	0	6.8	-1	1.3	1	0.390	1	2.116	1	5.432	-1	1868	48	0.6
47653.8	10000	41.0894	92.1503	-1128	QK	2.6	0	7.2	0	1.2	0	0.364	0	2.138	1	5.879	-1	1842	40	0.6
47653.9	10000	41.0900	92.1503	-1127	QK	2.5	0	7.0	0	1.2	0	0.354	0	2.048	1	5.777	-1	1819	44	0.6
47654.0	10000	41.0906	92.1503	-1126	QK	2.7	0	6.9	0	1.2	0	0.383	0	2.265	1	5.911	-1	1805	34	0.5
47654.1	10000	41.0913	92.1503	-1126	QK	2.7	0	7.0	0	1.1	0	0.384	0	2.519	1	6.553	0	1783	47	0.5
47654.2	10000	41.0919	92.1503	-1125	QK	2.6	0	7.0	0	1.0	-1	0.365	0	2.490	1	6.820	0	1770	36	0.5
47654.3	10000	41.0925	92.1503	-1123	QK	2.4	0	7.3	0	1.0	-1	0.331	0	2.362	1	7.136	1	1761	41	0.5
47654.4	10000	41.0931	92.1504	-1122	QK	2.4	0	7.3	0	1.0	-1	0.322	0	2.321	1	7.203	1	1764	47	0.5
47654.5	10000	41.0938	92.1504	-1123	QK	2.3	0	7.6	0	1.0	-1	0.303	-1	2.266	1	7.488	1	1772	43	0.5
47654.6	10000	41.0944	92.1504	-1122	QK	2.5	0	7.8	0	1.1	-1	0.313	-1	2.415	1	7.710	2	1797	48	0.5
47654.7	10000	41.0950	92.1504	-1121	QK	2.5	0	7.4	0	1.1	-1	0.315	0	2.333	1	7.403	1	1803	42	0.5
47654.8	10000	41.0956	92.1504	-1120	QK	2.5	0	7.5	0	1.1	0	0.343	0	2.317	1	6.757	0	1817	50	0.5
47654.9	10000	41.0962	92.1504	-1118	QK	2.6	0	7.2	0	1.1	0	0.345	0	2.357	1	6.822	0	1815	48	0.5
47655.0	10000	41.0969	92.1504	-1117	QK	2.8	1	7.2	0	1.1	0	0.392	1	2.619	1	6.684	0	1824	28	0.5
47655.1	10000	41.0975	92.1504	-1116	QK	2.8	1	7.6	0	1.1	0	0.370	0	2.585	1	6.984	1	1850	42	0.5
47655.2	10000	41.0981	92.1505	-1115	QK	3.1	1	7.2	0	1.1	0	0.433	1	2.822	1	6.511	0	1867	40	0.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47655.3	10000	41.0987	92.1505	-1114	QK	2.9	1	7.2	0	1.1	0	0.404	1	2.598	1	6.436	0	1861	41	0.5
47655.4	10000	41.0994	92.1505	-1113	QK	2.6	1	7.4	0	1.1	0	0.347	0	2.359	0	6.791	0	1855	39	0.5
47655.5	10000	41.1000	92.1505	-1111	QK	2.5	1	7.7	1	1.1	0	0.322	0	2.293	0	7.125	1	1845	36	0.5
47655.6	10000	41.1006	92.1505	-1110	QK	2.5	1	7.4	0	1.1	0	0.334	0	2.261	0	6.759	0	1838	38	0.5
47655.7	10000	41.1012	92.1505	-1109	QK	2.5	1	7.2	0	1.1	0	0.344	0	2.248	0	6.536	0	1817	47	0.5
47655.8	10000	41.1019	92.1505	-1108	QK	2.7	1	6.8	-1	1.1	0	0.396	1	2.442	0	6.167	0	1793	39	0.5
47655.9	10000	41.1025	92.1505	-1107	QK	2.4	1	6.9	0	1.1	0	0.350	0	2.201	0	6.279	0	1779	40	0.5
47656.0	10000	41.1031	92.1505	-1105	QK	2.4	1	6.8	-1	1.1	0	0.353	0	2.137	0	6.058	-1	1775	44	0.5
47656.1	10000	41.1037	92.1506	-1104	QK	2.8	1	6.5	-1	1.1	0	0.440	1	2.546	1	5.791	-1	1778	48	0.5
47656.2	10000	41.1043	92.1506	-1102	QK	2.8	1	6.4	-1	1.1	0	0.442	1	2.537	1	5.743	-1	1796	38	0.5
47656.3	10000	41.1050	92.1506	-1102	QK	2.7	1	6.6	-1	1.2	0	0.413	1	2.378	0	5.759	-1	1814	42	0.5
47656.4	10000	41.1056	92.1506	-1101	QK	2.5	0	7.1	0	1.2	1	0.347	0	2.068	0	5.962	-1	1836	49	0.5
47656.5	10000	41.1062	92.1506	-1100	QK	2.5	0	6.9	0	1.2	1	0.359	0	2.060	0	5.745	-1	1839	47	0.5
47656.6	10000	41.1068	92.1506	-1099	QK	2.4	0	7.0	0	1.2	1	0.347	0	2.007	-1	5.777	-1	1854	35	0.5
47656.7	10000	41.1075	92.1506	-1098	QK	2.6	0	7.4	0	1.2	1	0.351	0	2.200	0	6.265	0	1871	47	0.5
47656.8	10000	41.1081	92.1506	-1098	QK	2.5	1	7.6	1	1.2	1	0.323	0	2.054	0	6.362	0	1884	38	0.5
47656.9	10000	41.1087	92.1507	-1097	QK	2.4	1	8.0	1	1.3	1	0.304	-1	1.930	-1	6.351	0	1900	33	0.5
47657.0	10000	41.1093	92.1507	-1096	QK	2.7	1	8.1	1	1.3	1	0.327	0	2.115	0	6.465	0	1908	40	0.5
47657.1	10000	41.1100	92.1507	-1095	QK	2.9	1	8.0	1	1.2	1	0.369	0	2.397	0	6.495	0	1921	42	0.5
47657.2	10000	41.1106	92.1507	-1095	QK	3.3	2	8.0	1	1.2	1	0.410	1	2.634	1	6.421	0	1954	36	0.5
47657.3	10000	41.1112	92.1507	-1094	QK	3.3	2	8.1	1	1.2	1	0.414	1	2.783	1	6.726	0	1948	49	0.5
47657.4	10000	41.1118	92.1507	-1093	QK	3.6	2	7.4	0	1.2	1	0.481	2	2.875	1	5.980	-1	1938	39	0.5
47657.5	10000	41.1124	92.1507	-1093	QK	3.7	3	7.0	0	1.3	1	0.532	3	2.985	2	5.607	-1	1944	38	0.5
47657.6	10000	41.1131	92.1507	-1093	QK	3.7	3	6.8	-1	1.2	1	0.549	3	3.113	2	5.672	-1	1933	46	0.5
47657.7	10000	41.1137	92.1507	-1092	QK	3.5	2	6.5	-1	1.2	1	0.542	3	2.992	2	5.523	-1	1916	38	0.5
47657.8	10000	41.1143	92.1508	-1092	QK	3.4	2	6.4	-1	1.2	1	0.535	3	2.781	1	5.194	-2	1911	35	0.5
47657.9	10000	41.1149	92.1508	-1092	QK	3.0	2	6.8	-1	1.2	0	0.440	1	2.563	1	5.827	-1	1892	35	0.5
47658.0	10000	41.1156	92.1508	-1092	QK	3.2	2	6.4	-1	1.2	1	0.511	2	2.708	1	5.296	-2	1886	33	0.5
47658.1	10000	41.1162	92.1508	-1092	QK	3.1	2	6.7	-1	1.2	0	0.460	2	2.672	1	5.803	-1	1868	48	0.5
47658.2	10000	41.1168	92.1508	-1092	QK	2.8	1	6.8	-1	1.1	0	0.410	1	2.447	0	5.971	-1	1835	55	0.5
47658.3	10000	41.1174	92.1508	-1092	QK	2.6	1	6.8	0	1.1	0	0.376	1	2.270	0	6.044	-1	1804	47	0.5
47658.4	10000	41.1181	92.1508	-1092	QK	2.7	1	7.0	0	1.1	0	0.382	1	2.550	0	6.670	0	1798	37	0.5
47658.5	10000	41.1187	92.1508	-1093	QK	2.8	1	7.1	0	1.1	0	0.392	1	2.867	0	7.322	1	1770	48	0.5
47658.6	10000	41.1193	92.1508	-1092	QK	2.9	1	6.9	-1	1.1	0	0.445	1	2.969	0	6.678	0	1771	41	0.5
47658.7	10000	41.1199	92.1509	-1092	QK	2.9	1	7.0	0	1.1	0	0.426	1	2.930	0	6.876	1	1777	42	0.5
47658.8	10000	41.1206	92.1509	-1092	QK	2.9	1	7.1	0	1.1	0	0.418	1	2.934	0	7.019	1	1800	38	0.4
47658.9	10000	41.1212	92.1509	-1093	QK	2.9	1	6.9	-1	1.1	0	0.413	1	2.807	0	6.789	0	1815	30	0.4
47659.0	10000	41.1218	92.1509	-1093	QK	3.4	2	6.9	-1	1.1	0	0.485	2	3.292	1	6.790	0	1829	36	0.4
47659.1	10000	41.1224	92.1509	-1093	QK	3.3	2	6.9	-1	1.1	0	0.474	2	3.130	1	6.596	0	1828	46	0.4
47659.2	10000	41.1230	92.1509	-1093	QK	3.4	2	6.9	-1	1.1	0	0.487	2	3.136	1	6.443	0	1836	48	0.4
47659.3	10000	41.1237	92.1509	-1093	QK	3.2	2	6.7	-1	1.1	0	0.477	2	3.149	1	6.607	0	1809	43	0.4
47659.4	10000	41.1243	92.1509	-1093	QK	3.0	2	6.5	-1	1.1	0	0.464	2	2.962	1	6.377	0	1788	31	0.4
47659.5	10000	41.1249	92.1510	-1092	QK	3.2	2	6.3	-1	1.1	0	0.499	2	2.905	1	5.826	-1	1783	37	0.4
47659.6	10000	41.1255	92.1510	-1091	QK	3.5	2	6.5	-1	1.1	0	0.542	3	3.309	2	6.101	-1	1795	49	0.4
47659.7	10000	41.1262	92.1510	-1090	QK	3.5	2	6.6	-1	1.1	0	0.559	3	3.348	2	5.986	-1	1827	41	0.4
47659.8	10000	41.1268	92.1510	-1090	QK	3.5	2	6.6	-1	1.1	0	0.602	3	3.524	2	5.858	-1	1853	48	0.4
47659.9	10000	41.1274	92.1510	-1090	QK	3.5	2	6.7	-1	1.1	0	0.550	3	3.329	2	6.052	-1	1870	61	0.4
47660.0	10000	41.1280	92.1510	-1089	QK	3.5	2	7.0	-1	1.1	0	0.545	3	3.257	2	5.982	-1	1824	25	0.4
47660.1	10000	41.1286	92.1510	-1088	QK	3.6	2	7.3	-1	1.1	0	0.516	3	3.248	2	6.294	-1	1892	40	0.4
47660.2	10000	41.1293	92.1510	-1086	QK	3.6	2	7.3	-1	1.1	0	0.482	3	3.336	2	6.918	1	1875	57	0.4
47660.3	10000	41.1299	92.1510	-1085	QK	3.6	2	7.3	-1	1.1	0	0.486	3	3.332	2	6.857	1	1861	54	0.4
47660.4	10000	41.1305	92.1510	-1084	QK	3.5	2	7.4	0	1.0	-1	0.473	2	3.447	2	7.291	1	1818	40	0.4

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47660.5	10000	41.1311	92.1511	-1082	QK	3.4	2	7.4	0	1.0	-1	0.452	1	3.248	2	7.190	1	1799	62	0.4
47660.6	10000	41.1318	92.1511	-1080	QK	3.5	2	7.1	0	1.0	-1	0.485	2	3.436	2	7.087	1	1775	44	0.4
47660.7	10000	41.1324	92.1511	-1078	QK	3.2	1	7.3	0	1.0	-1	0.437	1	3.252	2	7.442	1	1764	41	0.4
47660.8	10000	41.1330	92.1511	-1076	QK	3.1	1	7.5	0	1.0	-1	0.420	1	3.256	2	7.746	2	1753	38	0.4
47660.9	10000	41.1336	92.1511	-1074	QK	3.1	1	7.2	0	1.0	-1	0.424	1	3.180	2	7.504	1	1755	42	0.4
47661.0	10000	41.1342	92.1511	-1070	QK	3.0	1	7.5	0	1.0	-1	0.400	1	3.126	2	7.813	2	1772	35	0.4
47661.1	10000	41.1349	92.1511	-1068	QK	2.8	1	7.4	0	1.0	-1	0.380	0	2.735	1	7.201	1	1785	52	0.4
47661.2	10000	41.1355	92.1512	-1064	QK	2.6	0	7.0	0	1.0	-1	0.365	0	2.503	0	6.858	1	1776	41	0.4
47661.3	10000	41.1361	92.1512	-1061	QK	2.3	0	7.6	1	1.1	0	0.305	-1	2.176	0	7.123	1	1774	27	0.4
47661.4	10000	41.1367	92.1512	-1057	QK	2.4	0	7.6	0	1.1	0	0.318	0	2.155	0	6.769	0	1773	41	0.4
47661.5	10000	41.1374	92.1512	-1054	QK	2.6	0	7.4	0	1.1	0	0.345	0	2.286	0	6.625	0	1772	54	0.4
47661.6	10000	41.1380	92.1512	-1050	QK	2.6	0	7.9	1	1.1	0	0.328	0	2.356	0	7.176	1	1776	39	0.4
47661.7	10000	41.1386	92.1512	-1045	QK	2.2	-1	7.4	0	1.1	0	0.290	-1	1.935	-1	6.679	0	1752	34	0.4
47661.8	10000	41.1392	92.1512	-1041	QK	2.1	-1	7.5	0	1.1	0	0.282	-1	1.906	-1	6.763	0	1747	41	0.4
47661.9	10000	41.1399	92.1512	-1036	QK	2.1	-1	8.0	1	1.1	0	0.258	-1	1.836	-1	7.111	1	1750	30	0.4
47662.0	10000	41.1405	92.1512	-1030	QK	2.1	-1	7.8	1	1.1	0	0.274	-1	1.967	-1	7.176	1	1768	42	0.4
47662.1	10000	41.1411	92.1512	-1025	QK	2.2	-1	8.2	1	1.1	0	0.275	-1	2.087	0	7.585	2	1779	45	0.4
47662.2	10000	41.1417	92.1513	-1019	QK	2.0	-1	8.4	2	1.1	0	0.245	-1	1.881	-1	7.680	2	1795	43	0.4
47662.3	10000	41.1423	92.1513	-1013	QK	2.2	-1	7.8	1	1.1	0	0.279	-1	1.950	-1	6.993	1	1815	52	0.4
47662.4	10000	41.1430	92.1513	-1007	QK	2.5	0	8.2	1	1.1	0	0.308	-1	2.204	0	7.159	1	1844	36	0.4
47662.5	10000	41.1436	92.1513	-1001	QK	2.7	0	8.0	1	1.2	0	0.337	0	2.322	0	6.894	1	1875	31	0.4
47662.6	10000	41.1442	92.1513	-995	QK	3.0	1	8.0	1	1.1	0	0.375	0	2.612	1	6.963	1	1878	43	0.4
47662.7	10000	41.1448	92.1513	-990	QK	2.9	1	7.6	1	1.2	1	0.389	1	2.402	0	6.178	0	1881	32	0.4
47662.8	10000	41.1455	92.1513	-984	QK	3.0	1	7.4	0	1.2	1	0.407	1	2.545	1	6.251	0	1867	58	0.4
47662.9	10000	41.1461	92.1513	-978	QK	3.1	1	7.1	0	1.2	1	0.433	1	2.488	0	5.746	-1	1857	44	0.4
47663.0	10000	41.1467	92.1514	-972	QK	2.8	1	7.1	0	1.3	1	0.400	1	2.245	0	5.615	-1	1838	44	0.4
47663.1	10000	41.1473	92.1514	-966	QK	2.7	1	7.1	0	1.2	1	0.376	0	2.140	0	5.697	-1	1812	43	0.4
47663.2	10000	41.1480	92.1514	-960	QK	2.5	0	7.0	0	1.2	1	0.356	0	2.028	-1	5.690	-1	1780	45	0.4
47663.3	10000	41.1486	92.1514	-955	QK	2.4	0	7.0	0	1.2	1	0.349	0	1.958	-1	5.615	-1	1773	43	0.4
47663.4	10000	41.1492	92.1514	-950	QK	2.6	0	6.9	0	1.2	0	0.382	0	2.249	0	5.882	-1	1758	36	0.4
47663.5	10000	41.1498	92.1514	-946	QK	2.6	0	6.6	-1	1.2	1	0.387	0	2.096	0	5.412	-2	1761	40	0.4
47663.6	10000	41.1505	92.1514	-942	QK	2.4	0	6.9	0	1.2	1	0.350	0	2.008	-1	5.739	-1	1754	39	0.4
47663.7	10000	41.1511	92.1514	-936	QK	2.6	0	7.2	0	1.2	1	0.360	0	2.156	0	5.985	-1	1746	33	0.4
47663.8	10000	41.1517	92.1514	-930	QK	3.0	1	7.0	0	1.2	1	0.420	1	2.500	0	5.953	-1	1760	41	0.4
47663.9	10000	41.1523	92.1515	-925	QK	3.0	1	7.1	0	1.1	1	0.425	1	2.638	1	6.212	0	1763	39	0.4
47664.0	10000	41.1529	92.1515	-921	QK	3.0	1	7.3	0	1.1	1	0.418	1	2.747	1	6.571	0	1763	47	0.4
47664.1	10000	41.1536	92.1515	-917	QK	2.9	1	7.4	0	1.1	1	0.398	1	2.643	1	6.633	0	1755	47	0.4
47664.2	10000	41.1542	92.1515	-913	QK	2.9	1	7.8	1	1.1	0	0.373	0	2.576	1	6.914	1	1757	49	0.4
47664.3	10000	41.1548	92.1515	-910	QK	3.0	1	7.3	0	1.1	1	0.406	1	2.674	1	6.586	0	1760	55	0.4
47664.4	10000	41.1554	92.1515	-907	QK	2.8	1	7.2	0	1.1	1	0.394	1	2.560	1	6.490	0	1777	41	0.4
47664.5	10000	41.1561	92.1515	-904	QK	2.6	0	7.5	0	1.1	0	0.341	0	2.313	0	6.775	0	1769	49	0.5
47664.6	10000	41.1567	92.1515	-902	QK	2.3	0	7.7	1	1.1	-1	0.301	-1	2.114	0	7.032	1	1769	44	0.5
47664.7	10000	41.1573	92.1516	-899	QK	2.3	-1	7.6	1	1.2	-1	0.300	-1	1.958	-1	6.538	0	1770	46	0.5
47664.8	10000	41.1579	92.1516	-897	QK	2.0	-1	7.6	1	1.2	-1	0.269	-1	1.751	-1	6.518	0	1783	44	0.5
47664.9	10000	41.1585	92.1516	-894	QK	2.4	0	7.6	1	1.1	-1	0.309	-1	2.051	0	6.648	0	1778	36	0.5
47665.0	10000	41.1592	92.1516	-892	QK	2.5	0	7.7	1	1.1	0	0.324	0	2.279	0	7.042	1	1790	48	0.5
47665.1	10000	41.1598	92.1516	-891	QK	2.5	0	7.8	1	1.1	0	0.317	0	2.219	0	7.010	1	1790	33	0.5
47665.2	10000	41.1604	92.1516	-889	QK	2.6	0	7.5	0	1.1	0	0.345	0	2.284	0	6.629	0	1798	43	0.5
47665.3	10000	41.1610	92.1516	-888	QK	2.6	0	7.7	1	1.2	1	0.339	0	2.165	0	6.381	0	1809	36	0.5
47665.4	10000	41.1617	92.1516	-886	QK	2.6	0	7.7	1	1.2	1	0.342	0	2.223	0	6.494	0	1820	49	0.5
47665.5	10000	41.1623	92.1516	-885	QK	2.8	-1	7.7	1	1.2	1	0.362	0	2.342	0	6.464	0	1822	47	0.5
47665.6	10000	41.1629	92.1517	-885	QK	2.6	0	7.3	0	1.2	0	0.358	0	2.242	0	6.257	0	1834	44	0.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47665.7	10000	41.1635	92.1517	-884	QK	2.8	1	7.2	0	1.2	1	0.391	1	2.261	0	5.775	-1	1834	39	0.5
47665.8	10000	41.1642	92.1517	-883	QK	2.9	1	7.1	0	1.2	1	0.417	1	2.426	0	5.821	-1	1828	49	0.5
47665.9	10000	41.1648	92.1517	-882	QK	2.9	1	6.8	-1	1.2	0	0.432	1	2.502	0	5.794	-1	1828	44	0.5
47666.0	10000	41.1654	92.1517	-882	QK	3.2	1	6.4	-1	1.1	0	0.500	2	2.833	1	5.665	-1	1825	35	0.5
47666.1	10000	41.1660	92.1517	-882	QK	3.2	2	6.1	-1	1.1	0	0.529	2	2.850	1	5.390	-2	1826	44	0.6
47666.2	10000	41.1666	92.1517	-882	QK	3.1	1	6.3	-1	1.1	0	0.491	2	2.780	1	5.661	-1	1817	33	0.6
47666.3	10000	41.1673	92.1517	-883	QK	3.0	1	6.8	-1	1.1	0	0.438	1	2.699	1	6.156	0	1803	40	0.6
47666.4	10000	41.1679	92.1517	-883	QK	2.6	0	7.2	0	1.1	0	0.361	0	2.428	0	6.727	0	1789	46	0.6
47666.5	10000	41.1685	92.1518	-884	QK	2.4	0	7.3	0	1.0	-1	0.328	0	2.294	0	6.992	1	1773	42	0.6
47666.6	10000	41.1692	92.1518	-885	QK	2.3	-1	7.3	0	1.1	0	0.312	-1	2.097	0	6.728	0	1762	45	0.6
47666.7	10000	41.1698	92.1518	-886	QK	2.2	-1	7.5	0	1.1	-1	0.288	-1	2.039	0	7.083	1	1763	37	0.6
47666.8	10000	41.1704	92.1518	-887	QK	2.0	-1	7.6	0	1.1	0	0.268	-1	1.828	-1	6.817	0	1780	44	0.6
47666.9	10000	41.1710	92.1518	-889	QK	2.3	0	7.6	0	1.1	0	0.303	-1	2.047	0	6.766	0	1793	44	0.6
47667.0	10000	41.1716	92.1518	-890	QK	2.3	0	7.4	0	1.1	0	0.310	-1	2.029	-1	6.539	0	1813	39	0.6
47667.1	10000	41.1723	92.1518	-892	QK	2.7	0	7.1	0	1.1	0	0.377	0	2.349	0	6.229	0	1824	38	0.6
47667.2	10000	41.1729	92.1518	-894	QK	2.8	1	7.1	0	1.2	1	0.397	1	2.281	0	5.751	-1	1851	45	0.6
47667.3	10000	41.1735	92.1519	-895	QK	2.9	1	7.3	0	1.2	1	0.398	1	2.379	0	5.973	-1	1875	41	0.6
47667.4	10000	41.1741	92.1519	-898	QK	2.6	0	7.2	0	1.3	1	0.368	1	2.110	0	5.726	-1	1877	49	0.6
47667.5	10000	41.1748	92.1519	-900	QK	2.7	0	7.3	0	1.2	1	0.364	0	2.241	0	6.163	0	1835	34	0.6
47667.6	10000	41.1754	92.1519	-901	QK	2.6	0	7.1	0	1.2	1	0.366	0	2.195	0	5.992	-1	1821	49	0.6
47667.7	10000	41.1760	92.1519	-904	QK	2.7	0	6.7	-1	1.2	0	0.402	1	2.326	0	5.792	-1	1800	42	0.6
47667.8	10000	41.1766	92.1519	-907	QK	2.6	0	6.7	-1	1.1	0	0.383	0	2.306	0	6.022	-1	1785	37	0.6
47667.9	10000	41.1773	92.1518	-909	QK	2.6	0	6.8	-1	1.1	0	0.387	1	2.446	0	6.318	0	1768	37	0.6
47668.0	10000	41.1779	92.1518	-911	QK	2.5	0	6.6	-1	1.1	-1	0.385	0	2.407	0	6.250	0	1738	50	0.7
47668.1	10000	41.1785	92.1518	-913	QK	2.8	1	6.8	-1	1.0	-1	0.408	1	2.731	1	6.701	0	1734	49	0.7
47668.2	10000	41.1792	92.1517	-914	QK	2.7	0	6.9	0	1.0	-1	0.395	1	2.822	1	7.136	1	1759	31	0.7
47668.3	10000	41.1798	92.1517	-916	QK	2.9	1	7.4	0	0.9	-1	0.399	1	3.109	2	7.794	2	1790	43	0.7
47668.4	10000	41.1804	92.1517	-917	QK	3.0	1	7.6	0	1.0	-1	0.391	1	2.892	1	7.390	1	1818	48	0.7
47668.5	10000	41.1811	92.1516	-918	QK	2.9	1	8.0	1	1.1	0	0.363	0	2.588	1	7.139	1	1840	43	0.7
47668.6	10000	41.1817	92.1516	-919	QK	2.9	1	7.7	1	1.1	0	0.372	0	2.557	1	6.882	1	1861	43	0.7
47668.7	10000	41.1824	92.1516	-921	QK	2.9	1	8.2	1	1.1	0	0.352	0	2.538	1	7.215	1	1889	35	0.7
47668.8	10000	41.1830	92.1516	-923	QK	2.9	1	8.2	1	1.2	0	0.351	0	2.454	1	6.992	1	1896	54	0.7
47668.9	10000	41.1836	92.1515	-924	QK	2.9	1	8.0	1	1.2	0	0.358	0	2.433	1	6.793	0	1895	51	0.7
47669.0	10000	41.1843	92.1515	-925	QK	2.8	1	7.9	1	1.3	0	0.351	0	2.209	0	6.289	0	1881	37	0.7
47669.1	10000	41.1849	92.1515	-926	QK	2.5	0	8.0	1	1.2	1	0.305	-1	1.990	-1	6.528	0	1855	37	0.7
47669.2	10000	41.1855	92.1514	-927	QK	2.3	-1	7.7	1	1.2	1	0.294	-1	1.911	-1	6.498	0	1829	50	0.7
47669.3	10000	41.1862	92.1514	-928	QK	2.0	-1	8.0	1	1.2	0	0.252	-1	1.738	-1	6.884	1	1799	40	0.7
47669.4	10000	41.1868	92.1514	-929	QK	1.9	-1	7.6	1	1.1	0	0.255	-1	1.711	-1	6.721	0	1770	54	0.7
47669.5	10000	41.1875	92.1513	-931	QK	2.1	-1	7.0	0	1.1	0	0.302	-1	1.956	-1	6.470	0	1753	33	0.7
47669.6	10000	41.1881	92.1513	-932	QK	2.4	0	6.9	0	1.1	0	0.350	0	2.272	0	6.501	0	1735	39	0.7
47669.7	10000	41.1887	92.1513	-933	QK	2.2	-1	6.5	-1	1.0	-1	0.348	0	2.214	0	6.370	0	1733	42	0.7
47669.8	10000	41.1894	92.1512	-934	QK	2.5	0	6.3	-1	1.0	-1	0.399	1	2.492	0	6.242	0	1757	42	0.7
47669.9	10000	41.1900	92.1512	-935	QK	2.7	0	6.4	-1	1.0	-1	0.429	1	2.684	1	6.255	0	1785	44	0.7
47670.0	10000	41.1906	92.1512	-936	QK	3.1	1	6.8	-1	1.0	-1	0.453	1	2.956	1	6.528	0	1804	46	0.7
47670.1	10000	41.1913	92.1512	-937	QK	3.0	1	7.2	0	1.1	0	0.416	1	2.725	1	6.544	0	1838	44	0.7
47670.2	10000	41.1919	92.1511	-938	QK	2.6	1	7.9	1	1.1	0	0.322	0	2.239	0	6.950	1	1858	37	0.7
47670.3	10000	41.1926	92.1511	-939	QK	2.3	0	8.1	1	1.2	0	0.287	-1	1.994	-1	6.944	1	1880	29	0.7
47670.4	10000	41.1932	92.1511	-940	QK	2.6	1	8.2	1	1.2	0	0.316	0	2.208	0	6.988	1	1886	55	0.7
47670.5	10000	41.1938	92.1510	-941	QK	2.6	1	8.4	2	1.2	0	0.309	-1	2.200	0	7.115	1	1892	44	0.7
47670.6	10000	41.1945	92.1510	-942	QK	2.5	0	8.4	2	1.2	1	0.301	-1	2.072	0	6.883	1	1903	44	0.7
47670.7	10000	41.1951	92.1510	-943	QK	2.5	0	7.9	1	1.3	1	0.313	-1	1.969	-1	6.291	0	1919	29	0.7
47670.8	10000	41.1957	92.1509	-945	QK	2.6	0	7.7	1	1.3	1	0.340	0	2.058	0	6.050	-1	1921	54	0.7

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47670.9	10000	41.1964	92.1509	-947	QK	2.7	0	7.0	0	1.2	1	0.388	1	2.209	0	5.696	-1	1902	42	0.7
47671.0	10000	41.1970	92.1509	-949	QK	2.7	0	7.0	0	1.2	1	0.381	0	2.175	0	5.704	-1	1881	32	0.7
47671.1	10000	41.1976	92.1508	-952	QK	2.7	0	7.0	0	1.2	1	0.383	0	2.214	0	5.777	-1	1862	42	0.7
47671.2	10000	41.1983	92.1508	-954	QK	2.8	1	6.6	-1	1.1	0	0.419	1	2.484	0	5.925	-1	1844	38	0.7
47671.3	10000	41.1989	92.1508	-958	QK	2.9	1	6.7	-1	1.1	0	0.434	1	2.710	1	6.245	0	1824	33	0.7
47671.4	10000	41.1996	92.1507	-961	QK	2.8	1	6.7	-1	1.0	-1	0.425	1	2.858	1	6.723	0	1788	40	0.7
47671.5	10000	41.2002	92.1507	-964	QK	3.0	1	6.4	-1	0.9	-2	0.466	2	3.181	2	6.820	0	1757	45	0.7
47671.6	10000	41.2008	92.1507	-969	QK	3.1	1	7.1	0	1.0	-1	0.441	1	3.247	2	7.358	1	1754	43	0.7
47671.7	10000	41.2015	92.1507	-973	QK	3.1	1	7.1	0	0.9	-2	0.432	1	3.335	2	7.721	2	1761	30	0.7
47671.8	10000	41.2021	92.1506	-978	QK	2.8	1	7.6	0	1.0	-1	0.372	0	2.913	1	7.828	2	1776	38	0.7
47671.9	10000	41.2027	92.1506	-982	QK	2.7	0	7.9	1	1.1	0	0.345	0	2.492	0	7.221	1	1795	32	0.7
47672.0	10000	41.2034	92.1506	-987	QK	2.6	0	8.1	1	1.1	0	0.326	0	2.396	0	7.343	1	1821	39	0.7
47672.1	10000	41.2040	92.1505	-993	QK	2.8	0	8.1	1	1.2	0	0.347	0	2.417	0	6.975	1	1862	42	0.7
47672.2	10000	41.2047	92.1505	-998	QK	2.7	0	8.2	1	1.2	1	0.326	0	2.170	0	6.661	0	1907	42	0.7
47672.3	10000	41.2053	92.1505	-1004	QK	2.7	0	8.5	2	1.3	1	0.322	0	2.141	0	6.657	0	1934	46	0.7
47672.4	10000	41.2059	92.1504	-1009	QK	2.8	1	8.0	1	1.3	2	0.353	0	2.163	0	6.136	0	1969	37	0.7
47672.5	10000	41.2066	92.1504	-1014	QK	3.0	1	8.0	1	1.3	2	0.375	0	2.237	0	5.968	-1	1991	45	0.7
47672.6	10000	41.2072	92.1504	-1019	QK	2.9	1	7.7	1	1.3	2	0.370	0	2.175	0	5.879	-1	1994	31	0.7
47672.7	10000	41.2078	92.1503	-1024	QK	3.1	1	7.5	0	1.3	2	0.413	1	2.336	0	5.656	-1	1995	38	0.7
47672.8	10000	41.2085	92.1503	-1029	QK	2.9	1	7.3	0	1.4	2	0.388	1	2.100	0	5.413	-2	1982	37	0.7
47672.9	10000	41.2091	92.1503	-1034	QK	2.8	1	7.5	0	1.3	2	0.369	0	2.060	0	5.576	-1	1953	35	0.7
47673.0	10000	41.2097	92.1502	-1038	QK	2.6	0	7.1	0	1.4	2	0.371	0	1.935	-1	5.222	-2	1936	52	0.7
47673.1	10000	41.2104	92.1502	-1042	QK	2.4	0	7.7	1	1.4	2	0.308	-1	1.701	-1	5.519	-1	1911	44	0.7
47673.2	10000	41.2110	92.1502	-1046	QK	2.2	-1	7.8	1	1.3	2	0.283	-1	1.687	-1	5.962	-1	1876	41	0.7
47673.3	10000	41.2116	92.1501	-1048	QK	2.2	-1	7.7	1	1.3	1	0.283	-1	1.715	-1	6.070	-1	1851	54	0.7
47673.4	10000	41.2123	92.1501	-1052	QK	1.9	-1	7.8	1	1.2	1	0.238	-2	1.487	-2	6.257	0	1830	45	0.7
47673.5	10000	41.2129	92.1501	-1057	QK	1.9	-1	8.1	1	1.2	1	0.240	-2	1.572	-1	6.558	0	1830	59	0.7
47673.6	10000	41.2136	92.1501	-1060	QK	1.9	-1	8.0	1	1.2	1	0.241	-2	1.615	-1	6.707	0	1825	43	0.7
47673.7	10000	41.2142	92.1500	-1063	QK	2.0	-1	8.0	1	1.1	1	0.258	-1	1.790	-1	6.945	1	1822	38	0.7
47673.8	10000	41.2148	92.1500	-1065	QK	2.1	-1	7.9	1	1.1	0	0.271	-1	1.939	-1	7.166	1	1813	38	0.7
47673.9	10000	41.2155	92.1500	-1067	QK	2.2	-1	7.6	0	1.1	0	0.287	-1	1.933	-1	6.742	0	1830	44	0.7
47674.0	10000	41.2161	92.1499	-1069	QK	2.3	-1	7.9	1	1.2	0	0.287	-1	1.958	-1	6.825	0	1821	48	0.7
47674.1	10000	41.2167	92.1499	-1070	QK	2.3	0	7.5	0	1.1	0	0.314	-1	2.068	0	6.593	0	1813	50	0.7
47674.2	10000	41.2174	92.1499	-1072	QK	2.4	0	7.2	0	1.1	0	0.333	0	2.146	0	6.445	0	1793	44	0.7
47674.3	10000	41.2180	92.1498	-1073	QK	2.3	0	7.1	0	1.1	0	0.327	0	2.113	0	6.471	0	1785	40	0.7
47674.4	10000	41.2187	92.1498	-1073	QK	2.1	-1	6.9	0	1.1	0	0.300	-1	1.870	-1	6.240	0	1787	38	0.7
47674.5	10000	41.2193	92.1498	-1073	QK	2.0	-1	6.7	-1	1.2	0	0.300	-1	1.725	-1	5.749	-1	1791	32	0.7
47674.6	10000	41.2199	92.1497	-1074	QK	2.5	0	6.8	-1	1.2	1	0.362	0	2.073	0	5.722	-1	1791	39	0.7
47674.7	10000	41.2206	92.1497	-1077	QK	2.5	0	6.7	-1	1.2	0	0.378	0	2.176	0	5.756	-1	1802	37	0.7
47674.8	10000	41.2212	92.1497	-1079	QK	2.6	0	6.7	-1	1.2	1	0.394	1	2.202	0	5.588	-1	1817	35	0.7
47674.9	10000	41.2218	92.1497	-1080	QK	2.6	0	7.0	0	1.2	1	0.375	0	2.160	0	5.765	-1	1842	37	0.7
47675.0	10000	41.2225	92.1496	-1081	QK	2.7	0	7.1	0	1.3	1	0.387	0	2.165	0	5.601	-1	1857	36	0.7
47675.1	10000	41.2231	92.1496	-1081	QK	3.0	1	7.0	0	1.2	1	0.426	1	2.401	0	5.642	-1	1852	39	0.7
47675.2	10000	41.2238	92.1496	-1081	QK	3.1	1	7.1	0	1.2	1	0.442	1	2.625	0	5.945	-1	1872	52	0.7
47675.3	10000	41.2244	92.1495	-1082	QK	2.6	0	7.1	0	1.2	1	0.364	0	2.117	0	5.821	-1	1881	36	0.7
47675.4	10000	41.2250	92.1495	-1082	QK	2.8	1	7.0	0	1.3	1	0.395	1	2.189	0	5.548	-1	1906	46	0.7
47675.5	10000	41.2257	92.1495	-1082	QK	2.8	1	7.2	0	1.3	1	0.392	1	2.231	0	5.685	-1	1943	53	0.7
47675.6	10000	41.2263	92.1494	-1082	QK	2.9	1	7.0	0	1.2	1	0.422	1	2.360	0	5.589	-1	1952	41	0.7
47675.7	10000	41.2269	92.1494	-1082	QK	3.0	1	7.0	0	1.2	1	0.421	1	2.370	0	5.630	-1	1976	38	0.7
47675.8	10000	41.2276	92.1494	-1081	QK	2.9	1	7.1	0	1.3	1	0.414	1	2.329	0	5.623	-1	2000	34	0.7
47675.9	10000	41.2282	92.1493	-1081	QK	3.0	1	7.0	0	1.3	1	0.435	1	2.358	0	5.416	-2	1987	41	0.7
47676.0	10000	41.2289	92.1493	-1080	QK	3.2	1	7.2	0	1.3	1	0.450	1	2.549	1	5.669	-1	1988	36	0.7

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47676.1	10000	41.2295	92.1493	-1079	QK	3.1	1	7.2	0	1.2	1	0.432	1	2.544	1	5.894	-1	1969	40	0.7
47676.2	10000	41.2301	92.1492	-1078	QK	2.8	0	7.1	0	1.2	1	0.387	0	2.286	0	5.907	-1	1907	43	0.7
47676.3	10000	41.2308	92.1492	-1077	QK	2.5	0	7.0	0	1.2	0	0.360	0	2.181	0	6.053	-1	1843	33	0.7
47676.4	10000	41.2314	92.1492	-1076	QK	2.5	0	6.6	-1	1.1	0	0.376	0	2.296	0	6.112	-1	1787	34	0.7
47676.5	10000	41.2320	92.1492	-1075	QK	2.5	0	6.4	-1	1.0	-1	0.385	0	2.343	0	6.082	-1	1734	39	0.7
47676.6	10000	41.2327	92.1491	-1073	QK	2.5	0	6.3	-1	1.0	-1	0.397	1	2.446	0	6.159	0	1691	40	0.7
47676.7	10000	41.2333	92.1491	-1071	QK	2.4	0	5.9	-2	1.0	-1	0.412	1	2.408	0	5.846	-1	1641	39	0.7
47676.8	10000	41.2339	92.1491	-1069	QK	2.3	0	5.5	-2	1.0	-1	0.419	1	2.285	0	5.454	-1	1602	41	0.7
47676.9	10000	41.2346	92.1490	-1066	QK	2.5	0	5.6	-2	1.0	-1	0.457	1	2.610	1	5.709	-1	1598	39	0.7
47677.0	10000	41.2352	92.1490	-1065	QK	2.9	1	5.5	-2	1.0	-1	0.526	2	2.856	1	5.430	-1	1627	45	0.7
47677.1	10000	41.2358	92.1490	-1064	QK	3.2	1	5.6	-2	1.1	-1	0.583	3	3.059	2	5.248	-2	1659	40	0.7
47677.2	10000	41.2365	92.1489	-1062	QK	3.3	2	6.0	-2	1.1	0	0.546	3	3.000	2	5.497	-1	1698	55	0.7
47677.3	10000	41.2371	92.1489	-1060	QK	3.4	2	5.8	-2	1.1	0	0.578	3	3.035	2	5.252	-2	1739	41	0.7
47677.4	10000	41.2378	92.1489	-1057	QK	3.3	2	6.1	-2	1.1	0	0.550	3	3.025	2	5.496	-1	1764	42	0.7
47677.5	10000	41.2384	92.1488	-1055	QK	3.4	2	6.5	-1	1.1	0	0.531	2	3.054	2	5.755	-1	1792	49	0.7
47677.6	10000	41.2390	92.1488	-1053	QK	3.6	2	6.9	0	1.1	0	0.521	2	3.201	2	6.149	0	1792	49	0.7
47677.7	10000	41.2397	92.1488	-1050	QK	3.2	2	6.8	-1	1.1	0	0.476	2	3.034	2	6.375	0	1767	36	0.7
47677.8	10000	41.2403	92.1487	-1048	QK	2.9	1	7.1	0	1.0	-1	0.409	1	2.849	1	6.959	1	1730	43	0.7
47677.9	10000	41.2409	92.1487	-1046	QK	2.7	0	6.5	-1	1.0	-1	0.421	1	2.885	1	6.847	1	1691	47	0.8
47678.0	10000	41.2416	92.1487	-1044	QK	2.5	0	6.5	-1	0.9	-2	0.377	0	2.733	1	7.252	1	1648	38	0.8
47678.1	10000	41.2422	92.1487	-1041	QK	2.6	0	6.3	-1	0.9	-2	0.412	1	3.033	2	7.356	1	1612	34	0.8
47678.2	10000	41.2429	92.1486	-1039	QAL	2.4	0	6.0	0	0.8	-2	0.405	0	3.073	1	7.580	2	1597	39	0.8
47678.3	10000	41.2435	92.1486	-1037	QAL	2.5	0	5.8	-1	0.8	-2	0.436	1	3.159	2	7.248	1	1613	44	0.8
47678.4	10000	41.2441	92.1486	-1035	QAL	2.6	0	6.0	-1	0.8	-2	0.430	1	3.086	1	7.176	1	1665	45	0.8
47678.5	10000	41.2448	92.1485	-1033	QAL	2.8	1	5.8	-1	0.9	-1	0.484	1	3.256	2	6.731	1	1705	41	0.8
47678.6	10000	41.2454	92.1485	-1031	QAL	3.0	1	6.2	0	0.9	-1	0.484	1	3.310	2	6.838	1	1732	41	0.8
47678.7	10000	41.2460	92.1485	-1029	QAL	3.2	1	6.4	0	1.0	-1	0.495	1	3.341	2	6.756	1	1781	38	0.8
47678.8	10000	41.2467	92.1484	-1027	QAL	3.6	2	6.6	0	1.0	-1	0.550	2	3.679	3	6.693	1	1841	47	0.8
47678.9	10000	41.2473	92.1484	-1025	QAL	3.9	2	6.6	0	1.0	-1	0.593	2	3.974	3	6.699	1	1873	43	0.8
47679.0	10000	41.2479	92.1484	-1023	QAL	3.8	2	6.8	0	1.0	-1	0.560	2	3.645	3	6.513	0	1885	41	0.8
47679.1	10000	41.2486	92.1483	-1022	QAL	4.0	2	6.7	0	1.0	-1	0.593	2	3.833	3	6.461	0	1864	49	0.8
47679.2	10000	41.2492	92.1483	-1021	QAL	3.7	2	6.7	0	1.0	-1	0.560	2	3.610	2	6.446	0	1849	37	0.8
47679.3	10000	41.2499	92.1483	-1019	QAL	3.5	2	6.6	0	1.0	-1	0.530	2	3.541	2	6.675	1	1849	47	0.8
47679.4	10000	41.2505	92.1483	-1017	QAL	3.5	2	6.2	0	1.0	-1	0.554	2	3.560	2	6.430	0	1829	38	0.8
47679.5	10000	41.2511	92.1482	-1015	QAL	3.2	1	6.3	0	1.0	0	0.506	1	3.062	1	6.047	0	1835	41	0.8
47679.6	10000	41.2518	92.1482	-1013	QAL	3.1	1	6.6	0	1.0	0	0.468	1	2.998	1	6.401	0	1840	40	0.8
47679.7	10000	41.2524	92.1481	-1010	QAL	3.1	1	6.3	0	1.0	0	0.498	1	3.079	1	6.176	0	1846	46	0.8
47679.8	10000	41.2530	92.1481	-1006	QAL	2.9	1	6.5	0	1.0	0	0.452	1	2.907	1	6.426	0	1863	55	0.8
47679.9	10000	41.2537	92.1481	-1002	QAL	3.0	1	7.1	0	1.0	0	0.422	1	2.915	1	6.908	1	1879	32	0.8
47680.0	10000	41.2543	92.1481	-998	QAL	3.1	1	7.0	0	1.1	0	0.444	1	2.872	1	6.465	0	1902	39	0.8
47680.1	10000	41.2550	92.1480	-994	QAL	2.9	1	7.1	0	1.1	0	0.404	1	2.643	1	6.550	1	1909	66	0.8
47680.2	10000	41.2556	92.1480	-988	QAL	2.7	1	7.1	0	1.1	0	0.377	1	2.522	1	6.686	1	1878	50	0.8
47680.3	10000	41.2562	92.1480	-983	QAL	2.5	0	6.9	0	1.1	0	0.356	1	2.277	1	6.398	0	1856	46	0.8
47680.4	10000	41.2569	92.1479	-976	QAL	2.5	0	7.1	0	1.0	0	0.347	1	2.358	1	6.789	1	1825	36	0.8
47680.5	10000	41.2575	92.1479	-969	QAL	2.4	0	6.8	0	1.0	0	0.350	1	2.365	1	6.756	1	1786	41	0.8
47680.6	10000	41.2581	92.1479	-962	QAL	2.5	0	6.3	-1	1.0	0	0.395	1	2.556	1	6.473	1	1777	39	0.8
47680.7	10000	41.2588	92.1478	-954	QAL	2.3	0	6.6	-1	1.0	0	0.355	1	2.421	1	6.823	1	1756	34	0.8
47680.8	10000	41.2594	92.1478	-946	QAL	2.5	0	7.0	-1	1.0	0	0.357	1	2.597	1	7.273	1	1764	37	0.8
47680.9	10000	41.2601	92.1478	-937	QAL	2.8	0	6.9	-1	1.0	0	0.405	1	2.930	1	7.228	1	1797	40	0.8
47681.0	10000	41.2607	92.1478	-929	QAL	2.9	1	7.1	-1	1.0	0	0.415	1	3.006	1	7.251	1	1817	35	0.8
47681.1	10000	41.2613	92.1477	-921	QAL	2.7	1	7.3	-1	1.0	0	0.368	1	2.750	1	7.473	2	1846	37	0.8
47681.2	10000	41.2620	92.1477	-913	QAL	3.0	1	7.4	1	1.0	0	0.399	0	2.943	1	7.377	2	1880	42	0.8

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47681.3	10000	41.2626	92.1477	-905	QK	2.7	0	7.7	1	1.0	-1	0.349	0	2.722	1	7.804	2	1890	44	0.8
47681.4	10000	41.2632	92.1476	-897	QK	2.8	1	7.5	0	1.0	-1	0.376	0	2.864	1	7.619	2	1902	43	0.8
47681.5	10000	41.2639	92.1476	-890	QK	2.8	1	7.6	1	1.0	-1	0.366	0	2.736	1	7.478	1	1905	34	0.8
47681.6	10000	41.2645	92.1476	-882	QK	2.6	0	7.8	1	1.1	0	0.335	0	2.421	0	7.228	1	1892	43	0.8
47681.7	10000	41.2651	92.1475	-875	QK	2.5	0	7.7	1	1.1	0	0.328	0	2.351	0	7.177	1	1877	43	0.8
47681.8	10000	41.2658	92.1475	-869	QK	2.5	0	7.3	0	1.2	0	0.341	0	2.114	0	6.196	0	1863	46	0.8
47681.9	10000	41.2664	92.1475	-863	QK	2.3	0	7.3	0	1.3	1	0.315	-1	1.834	-1	5.825	-1	1845	44	0.8
47682.0	10000	41.2671	92.1474	-858	QK	2.4	0	7.2	0	1.3	2	0.329	0	1.825	-1	5.542	-1	1834	40	0.8
47682.1	10000	41.2677	92.1474	-853	QK	2.2	-1	7.5	0	1.4	2	0.291	-1	1.600	-1	5.493	-1	1818	42	0.8
47682.2	10000	41.2683	92.1474	-849	QK	1.9	-1	7.4	0	1.4	2	0.255	-1	1.393	-2	5.473	-1	1807	37	0.8
47682.3	10000	41.2689	92.1474	-845	QK	1.8	-2	7.6	1	1.3	2	0.234	-2	1.339	-2	5.715	-1	1792	41	0.8
47682.4	10000	41.2695	92.1474	-841	QK	1.8	-2	7.9	1	1.3	2	0.222	-2	1.325	-2	5.965	-1	1798	44	0.8
47682.5	10000	41.2701	92.1475	-838	QK	1.9	-1	8.5	2	1.3	1	0.218	-2	1.463	-2	6.697	0	1791	43	0.8
47682.6	10000	41.2708	92.1475	-835	QK	1.8	-2	8.6	2	1.2	1	0.204	-2	1.435	-2	7.025	1	1790	39	0.8
47682.7	10000	41.2714	92.1475	-832	QK	1.7	-2	8.3	2	1.2	1	0.203	-2	1.357	-2	6.677	0	1778	48	0.8
47682.8	10000	41.2720	92.1475	-829	QK	1.8	-2	7.6	1	1.2	1	0.232	-2	1.484	-2	6.382	0	1771	42	0.8
47682.9	10000	41.2726	92.1475	-826	QK	2.0	-1	7.3	0	1.2	0	0.280	-1	1.758	-1	6.277	0	1758	41	0.8
47683.0	10000	41.2732	92.1475	-821	QK	2.0	-1	7.2	0	1.2	0	0.275	-1	1.722	-1	6.263	0	1762	38	0.8
47683.1	10000	41.2738	92.1475	-815	QK	2.0	-1	6.7	-1	1.1	0	0.300	-1	1.767	-1	5.898	-1	1747	47	0.8
47683.2	10000	41.2744	92.1476	-815	QK	2.2	-1	6.3	-1	1.1	0	0.356	0	1.953	-1	5.491	-1	1768	37	0.8
47683.3	10000	41.2751	92.1476	-814	QK	2.5	0	6.4	-1	1.1	0	0.395	1	2.300	0	5.828	-1	1786	38	0.8
47683.4	10000	41.2757	92.1476	-811	QK	2.7	0	6.6	-1	1.1	0	0.400	1	2.497	0	6.237	0	1814	42	0.8
47683.5	10000	41.2763	92.1476	-806	QK	2.9	1	7.1	0	1.0	-1	0.407	1	2.748	1	6.745	0	1834	45	0.8
47683.6	10000	41.2769	92.1476	-800	QK	3.1	1	7.3	0	1.1	0	0.423	1	2.760	1	6.531	0	1863	40	0.8
47683.7	10000	41.2775	92.1476	-794	QK	2.9	1	7.2	0	1.1	0	0.405	1	2.572	1	6.352	0	1881	41	0.8
47683.8	10000	41.2781	92.1476	-787	QK	2.7	0	7.1	0	1.1	0	0.382	0	2.363	0	6.182	0	1909	36	0.8
47683.9	10000	41.2787	92.1476	-780	QK	2.8	1	7.0	0	1.1	0	0.398	0	2.459	0	6.173	0	1907	44	0.8
47684.0	10000	41.2793	92.1477	-772	QK	2.5	0	6.9	0	1.2	0	0.371	0	2.200	0	5.922	-1	1911	57	0.8
47684.1	10000	41.2800	92.1477	-763	QK	2.4	0	6.5	-1	1.2	0	0.361	0	1.893	-1	5.245	-2	1923	45	0.8
47684.2	10000	41.2806	92.1477	-752	QK	2.2	-1	6.4	-1	1.3	0	0.351	0	1.748	-1	4.986	-2	1925	35	0.7
47684.3	10000	41.2812	92.1477	-742	QK	2.1	-1	6.8	-1	1.3	0	0.307	-1	1.659	-1	5.399	-2	1927	38	0.7
47684.4	10000	41.2818	92.1477	-730	QK	2.3	0	6.8	0	1.3	0	0.338	0	1.812	-1	5.355	-2	1910	43	0.7
47684.5	10000	41.2824	92.1477	-717	QK	2.3	0	7.0	0	1.3	1	0.333	0	1.774	-1	5.329	-2	1895	52	0.7
47684.6	10000	41.2830	92.1477	-704	QK	2.3	0	7.0	0	1.3	2	0.327	0	1.706	-1	5.223	-2	1905	44	0.7
47684.7	10000	41.2836	92.1478	-692	QK	2.3	0	7.2	0	1.4	2	0.318	0	1.675	-1	5.266	-2	1898	37	0.7
47684.8	10000	41.2843	92.1478	-680	QK	2.3	0	7.6	1	1.3	2	0.306	-1	1.745	-1	5.695	-1	1886	45	0.7
47684.9	10000	41.2849	92.1478	-667	QK	2.4	0	7.6	1	1.3	2	0.308	-1	1.771	-1	5.750	-1	1909	36	0.7
47685.0	10000	41.2855	92.1478	-653	QK	2.3	-1	7.3	0	1.3	2	0.309	-1	1.707	-1	5.531	-1	1909	39	0.7
47685.1	10000	41.2861	92.1478	-639	QK	2.5	0	7.2	0	1.3	1	0.342	-1	1.921	-1	5.622	-1	1933	47	0.7
47685.2	10000	41.2867	92.1478	-625	QK	2.6	0	7.2	0	1.3	1	0.369	0	2.096	0	5.687	-1	1947	40	0.7
47685.3	10000	41.2873	92.1478	-611	QK	2.4	0	7.6	1	1.2	1	0.312	-1	1.942	-1	6.229	0	1940	49	0.7
47685.4	10000	41.2879	92.1478	-596	QK	2.5	0	7.5	0	1.2	1	0.328	0	2.028	-1	6.190	0	1941	46	0.7
47685.5	10000	41.2886	92.1479	-581	QK	2.7	0	7.6	0	1.2	1	0.354	0	2.186	0	6.181	0	1944	40	0.7
47685.6	10000	41.2892	92.1479	-566	QK	2.6	0	7.6	0	1.2	1	0.345	0	2.179	0	6.310	0	1926	44	0.7
47685.7	10000	41.2898	92.1479	-552	QK	2.7	0	7.6	0	1.2	1	0.348	0	2.196	0	6.302	0	1911	42	0.7
47685.8	10000	41.2904	92.1479	-538	QK	2.2	-1	7.8	1	1.2	1	0.286	-1	1.800	-1	6.287	0	1884	33	0.7
47685.9	10000	41.2910	92.1479	-523	QK	2.4	0	7.6	0	1.2	1	0.308	-1	1.951	-1	6.336	0	1852	44	0.7
47686.0	10000	41.2916	92.1479	-510	QK	2.5	0	7.1	0	1.1	0	0.350	0	2.224	0	6.346	0	1811	42	0.7
47686.1	10000	41.2922	92.1479	-497	QK	2.6	0	6.4	-1	1.1	0	0.403	1	2.380	0	5.911	-1	1767	42	0.7
47686.2	10000	41.2929	92.1479	-484	QK	2.6	0	5.8	-2	1.0	-1	0.452	1	2.551	0	5.648	-1	1710	45	0.7
47686.3	10000	41.2935	92.1479	-471	QK	2.5	0	5.5	-2	1.0	-1	0.457	1	2.480	0	5.428	-2	1658	38	0.7
47686.4	10000	41.2941	92.1480	-459	QK	2.6	0	5.2	-3	1.0	-1	0.499	2	2.631	1	5.277	-2	1604	44	0.7

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47686.5	10000	41.2947	92.1480	-448	QK	2.7	0	4.9	-3	0.9	-2	0.555	3	3.036	2	5.473	-1	1542	37	0.7
47686.6	10000	41.2953	92.1480	-438	QK	2.8	1	5.1	-3	0.8	-2	0.552	3	3.371	2	6.103	-1	1509	47	0.7
47686.7	10000	41.2959	92.1480	-429	QK	2.6	1	5.0	-3	0.9	-2	0.534	3	3.029	2	5.678	-1	1502	29	0.7
47686.8	10000	41.2965	92.1480	-422	QAL	2.5	0	5.3	-1	0.9	-1	0.480	1	2.815	1	5.860	0	1527	38	0.7
47686.9	10000	41.2971	92.1480	-415	QAL	2.3	0	5.5	-1	0.9	-1	0.421	1	2.589	1	6.151	0	1539	42	0.7
47687.0	10000	41.2978	92.1480	-409	QAL	2.5	0	6.0	-1	0.9	-1	0.421	1	2.849	1	6.760	1	1549	45	0.7
47687.1	10000	41.2984	92.1481	-404	QAL	2.6	0	5.7	-1	0.9	-2	0.449	1	3.000	1	6.675	1	1585	47	0.7
47687.2	10000	41.2990	92.1481	-400	QAL	2.8	1	6.0	-1	0.9	-1	0.460	1	3.001	1	6.528	1	1648	48	0.7
47687.3	10000	41.2996	92.1481	-396	QAL	2.7	0	6.2	0	1.0	-1	0.438	1	2.774	1	6.336	0	1702	28	0.7
47687.4	10000	41.3002	92.1481	-392	QAL	2.6	0	6.7	0	1.0	0	0.393	1	2.527	0	6.435	0	1736	41	0.7
47687.5	10000	41.3008	92.1481	-390	QAL	2.8	0	6.9	0	1.0	0	0.404	1	2.669	1	6.603	1	1747	40	0.7
47687.6	10000	41.3014	92.1481	-387	QAL	2.9	0	7.3	1	1.1	0	0.391	1	2.677	1	6.850	1	1776	48	0.7
47687.7	10000	41.3020	92.1481	-386	QAL	2.9	0	7.5	1	1.1	0	0.382	1	2.680	1	7.007	1	1800	44	0.7
47687.8	10000	41.3027	92.1481	-385	QAL	2.7	0	7.8	1	1.1	0	0.349	0	2.427	0	6.961	1	1807	54	0.7
47687.9	10000	41.3033	92.1482	-383	QAL	2.7	0	7.7	1	1.1	0	0.344	0	2.422	0	7.045	1	1801	39	0.7
47688.0	10000	41.3039	92.1482	-382	QAL	2.4	0	7.9	1	1.1	0	0.299	-1	2.110	0	7.062	1	1788	49	0.7
47688.1	10000	41.3045	92.1482	-382	QAL	2.4	0	7.1	1	1.1	0	0.341	0	2.249	0	6.603	1	1779	53	0.7
47688.2	10000	41.3051	92.1482	-383	QAL	2.4	0	7.4	1	1.1	0	0.329	-1	2.295	0	6.979	1	1784	25	0.7
47688.3	10000	41.3057	92.1482	-383	QAL	2.5	0	7.2	1	1.1	0	0.353	0	2.387	0	6.752	1	1792	42	0.7
47688.4	10000	41.3063	92.1482	-385	QAL	2.5	0	6.8	0	1.1	0	0.365	0	2.248	0	6.164	0	1812	43	0.7
47688.5	10000	41.3070	92.1482	-387	QAL	2.9	1	6.6	0	1.1	0	0.440	1	2.635	1	5.983	0	1844	35	0.7
47688.6	10000	41.3076	92.1483	-388	QK	2.8	1	6.9	0	1.1	0	0.402	1	2.488	0	6.181	0	1859	40	0.7
47688.7	10000	41.3082	92.1483	-392	QK	2.8	1	6.7	-1	1.1	0	0.427	1	2.484	0	5.816	-1	1884	50	0.7
47688.8	10000	41.3088	92.1483	-396	QK	3.1	1	6.9	0	1.1	0	0.457	1	2.790	1	6.104	-1	1919	48	0.7
47688.9	10000	41.3094	92.1483	-401	QK	3.3	2	6.8	-1	1.2	0	0.482	2	2.821	1	5.850	-1	1916	42	0.7
47689.0	10000	41.3100	92.1483	-407	QK	3.1	1	7.0	0	1.1	0	0.441	1	2.789	1	6.328	0	1930	44	0.7
47689.1	10000	41.3106	92.1483	-414	QK	3.2	1	7.1	0	1.1	0	0.456	1	2.997	2	6.578	0	1917	42	0.7
47689.2	10000	41.3113	92.1483	-422	QK	3.1	1	7.4	0	1.0	-1	0.414	1	2.943	1	7.111	1	1897	54	0.7
47689.3	10000	41.3119	92.1483	-430	QK	3.2	1	7.2	0	1.0	-1	0.438	1	3.103	2	7.088	1	1873	45	0.7
47689.4	10000	41.3125	92.1484	-438	QK	3.2	1	7.4	0	1.0	-1	0.430	1	3.255	2	7.563	2	1850	39	0.7
47689.5	10000	41.3131	92.1484	-447	QK	3.2	1	7.7	0	1.0	-1	0.359	1	2.804	1	7.809	2	1822	41	0.7
47689.6	10000	41.3137	92.1484	-457	QK	3.1	1	7.4	0	1.0	-1	0.363	1	2.760	1	7.609	2	1825	36	0.7
47689.7	10000	41.3143	92.1484	-466	QK	3.1	1	7.4	0	1.0	-1	0.360	1	2.630	1	7.302	1	1811	39	0.7
47689.8	10000	41.3149	92.1484	-475	QK	3.0	1	7.7	0	1.0	-1	0.314	-1	2.347	1	7.473	1	1824	42	0.7
47689.9	10000	41.3156	92.1484	-485	QK	2.9	1	7.5	0	1.1	0	0.294	-1	2.068	0	7.026	1	1842	45	0.7
47690.0	10000	41.3162	92.1484	-495	QK	2.8	1	7.7	0	1.1	0	0.277	-1	1.932	-1	6.968	1	1860	47	0.7
47690.1	10000	41.3168	92.1485	-505	QK	2.9	1	7.2	0	1.1	0	0.316	0	2.060	0	6.520	1	1851	29	0.7
47690.2	10000	41.3174	92.1485	-516	QK	2.9	1	6.9	0	1.1	0	0.348	0	2.202	0	6.331	1	1856	42	0.7
47690.3	10000	41.3180	92.1485	-527	QK	2.8	1	7.3	0	1.1	0	0.356	0	2.457	0	6.898	1	1858	43	0.7
47690.4	10000	41.3186	92.1485	-540	QK	2.8	1	7.1	0	1.1	0	0.382	0	2.484	0	6.501	1	1870	46	0.7
47690.5	10000	41.3192	92.1485	-553	QK	2.9	1	7.0	0	1.1	0	0.408	1	2.668	1	6.539	0	1860	42	0.7
47690.6	10000	41.3198	92.1485	-567	QK	3.0	1	7.4	0	1.1	0	0.401	1	2.819	1	7.037	1	1849	37	0.7
47690.7	10000	41.3205	92.1485	-582	QK	3.0	1	7.4	0	1.1	0	0.398	1	2.824	1	7.087	1	1829	43	0.7
47690.8	10000	41.3211	92.1485	-598	QK	3.1	1	7.5	0	1.1	0	0.411	1	2.913	1	7.097	1	1825	40	0.7
47690.9	10000	41.3217	92.1486	-614	QK	2.9	1	8.0	0	1.1	0	0.361	0	2.688	1	7.437	1	1828	28	0.7
47691.0	10000	41.3223	92.1486	-636	QK	2.4	1	7.8	0	1.1	0	0.312	-1	2.167	0	6.940	1	1821	40	0.7
47691.1	10000	41.3229	92.1486	-659	QK	2.4	0	7.9	1	1.1	0	0.297	-1	2.105	0	7.095	1	1795	40	0.7
47691.2	10000	41.3235	92.1486	-681	QK	2.2	-1	7.5	1	1.2	0	0.295	-1	1.931	-1	6.535	0	1785	35	0.7
47691.3	10000	41.3241	92.1486	-703	QK	2.2	-1	7.4	0	1.2	0	0.295	-1	1.891	-1	6.415	0	1790	33	0.7
47691.4	10000	41.3248	92.1486	-726	QK	2.0	-1	6.9	0	1.2	0	0.310	-1	1.862	-1	5.998	-1	1809	48	0.7
47691.5	10000	41.3254	92.1486	-749	QK	2.0	-1	7.4	0	1.2	0	0.269	-1	1.706	-1	6.333	0	1820	44	0.7
47691.6	10000	41.3260	92.1487	-773	QK	2.2	-1	7.3	0	1.1	0	0.305	-1	1.988	-1	6.515	0	1801	38	0.7

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47691.7	10000	41.3266	92.1487	-796	QK	2.3	0	7.5	0	1.1	0	0.304	-1	2.059	0	6.773	0	1801	43	0.7
47691.8	10000	41.3272	92.1487	-820	QK	2.3	0	7.3	0	1.0	-1	0.319	0	2.253	0	7.068	1	1793	35	0.7
47691.9	10000	41.3278	92.1487	-842	QK	2.4	0	7.4	0	1.0	-1	0.331	0	2.498	0	7.556	2	1794	39	0.7
47692.0	10000	41.3284	92.1487	-863	QK	2.4	0	7.0	0	1.0	-1	0.339	0	2.422	0	7.136	1	1776	52	0.7
47692.1	10000	41.3291	92.1487	-884	QK	2.5	0	7.2	0	1.0	-1	0.349	0	2.574	1	7.372	1	1771	41	0.7
47692.2	10000	41.3297	92.1487	-902	QK	2.5	0	6.8	-1	1.0	-1	0.362	0	2.522	1	6.965	1	1768	34	0.7
47692.3	10000	41.3303	92.1487	-920	QK	2.3	0	6.5	-1	1.0	-1	0.363	0	2.259	0	6.229	0	1759	44	0.7
47692.4	10000	41.3309	92.1488	-935	QK	2.2	-1	6.3	-1	1.0	-1	0.352	0	2.212	0	6.292	0	1743	56	0.7
47692.5	10000	41.3315	92.1488	-950	QK	2.2	-1	6.5	-1	1.0	-1	0.342	0	2.148	0	6.274	0	1752	34	0.7
47692.6	10000	41.3321	92.1488	-964	QK	2.1	-1	6.6	-1	1.1	-1	0.309	-1	1.941	-1	6.285	0	1739	51	0.7
47692.7	10000	41.3327	92.1488	-976	QK	2.0	-1	6.5	-1	1.1	0	0.317	0	1.897	-1	5.986	-1	1725	46	0.7
47692.8	10000	41.3334	92.1488	-986	QK	1.9	-1	6.7	-1	1.1	0	0.292	-1	1.788	-1	6.121	-1	1705	44	0.7
47692.9	10000	41.3340	92.1488	-995	QK	1.8	-1	6.8	-1	1.0	-1	0.267	-1	1.755	-1	6.568	0	1702	38	0.7
47693.0	10000	41.3346	92.1488	-1001	QK	2.2	-1	6.9	0	1.0	-1	0.319	0	2.090	0	6.562	0	1725	54	0.7
47693.1	10000	41.3352	92.1488	-1007	QK	2.3	0	7.2	0	1.1	0	0.320	0	2.130	0	6.667	0	1740	46	0.7
47693.2	10000	41.3358	92.1489	-1013	QK	2.6	0	7.3	0	1.1	0	0.358	0	2.441	0	6.815	0	1745	41	0.7
47693.3	10000	41.3364	92.1489	-1017	QK	2.5	0	7.4	0	1.1	0	0.340	0	2.285	0	6.719	0	1788	43	0.7
47693.4	10000	41.3370	92.1489	-1020	QK	2.5	0	8.2	1	1.1	0	0.299	-1	2.190	0	7.320	1	1819	38	0.7
47693.5	10000	41.3376	92.1489	-1022	QK	2.5	0	8.3	1	1.1	0	0.303	-1	2.264	0	7.480	1	1842	41	0.7
47693.6	10000	41.3383	92.1489	-1023	QK	2.7	0	8.1	1	1.2	0	0.334	0	2.333	0	6.993	1	1861	40	0.7
47693.7	10000	41.3389	92.1489	-1023	QK	2.6	0	8.2	1	1.2	0	0.311	-1	2.200	0	7.070	1	1861	40	0.7
47693.8	10000	41.3395	92.1489	-1022	QK	2.4	0	7.8	1	1.2	0	0.312	-1	2.108	0	6.762	0	1852	36	0.8
47693.9	10000	41.3401	92.1490	-1020	QK	2.1	-1	7.5	0	1.2	0	0.282	-1	1.798	-1	6.375	0	1850	35	0.8
47694.0	10000	41.3407	92.1490	-1018	QK	2.2	-1	7.3	0	1.1	0	0.302	-1	1.940	-1	6.425	0	1816	34	0.8
47694.1	10000	41.3413	92.1490	-1014	QK	2.5	0	7.2	0	1.1	0	0.345	0	2.327	0	6.741	0	1805	43	0.8
47694.2	10000	41.3419	92.1490	-1011	QK	2.5	0	6.8	-1	1.1	0	0.360	0	2.267	0	6.289	0	1800	46	0.8
47694.3	10000	41.3426	92.1490	-1006	QK	2.2	-1	7.2	0	1.1	0	0.310	-1	2.081	0	6.717	0	1808	38	0.8
47694.4	10000	41.3432	92.1490	-1001	QK	2.1	-1	7.3	0	1.1	0	0.290	-1	1.936	-1	6.674	0	1813	38	0.8
47694.5	10000	41.3438	92.1490	-994	QK	2.2	-1	7.7	1	1.1	0	0.290	-1	1.969	-1	6.783	0	1843	37	0.8
47694.6	10000	41.3444	92.1490	-988	QK	2.2	-1	8.0	1	1.1	0	0.280	-1	2.010	-1	7.190	1	1860	43	0.8
47694.7	10000	41.3450	92.1491	-981	QK	2.3	0	8.2	1	1.1	0	0.280	-1	2.039	0	7.275	1	1879	38	0.8
47694.8	10000	41.3456	92.1491	-973	QK	2.2	-1	8.0	1	1.2	0	0.270	-1	1.835	-1	6.794	0	1883	54	0.8
47694.9	10000	41.3462	92.1491	-964	QK	2.2	-1	8.1	1	1.2	0	0.274	-1	1.845	-1	6.743	0	1882	44	0.8
47695.0	10000	41.3468	92.1491	-955	QK	2.3	-1	7.8	1	1.2	0	0.293	-1	1.853	-1	6.334	0	1861	42	0.8
47695.1	10000	41.3475	92.1491	-945	QK	2.2	-1	7.8	1	1.2	0	0.281	-1	1.843	-1	6.556	0	1860	33	0.8
47695.2	10000	41.3481	92.1491	-935	QK	2.2	-1	7.7	1	1.1	0	0.282	-1	1.898	-1	6.733	0	1841	42	0.8
47695.3	10000	41.3487	92.1491	-924	QK	2.2	-1	7.5	1	1.2	0	0.290	-1	1.893	-1	6.530	0	1814	40	0.8
47695.4	10000	41.3493	92.1492	-913	QK	2.0	-1	7.4	1	1.1	0	0.271	-1	1.758	-1	6.477	0	1782	55	0.8
47695.5	10000	41.3499	92.1492	-901	QK	1.9	-1	7.4	1	1.1	0	0.263	-1	1.704	-1	6.467	0	1759	35	0.8
47695.6	10000	41.3505	92.1492	-890	QK	1.7	-2	7.5	1	1.1	0	0.225	-2	1.550	-2	6.900	1	1733	41	0.8
47695.7	10000	41.3511	92.1492	-879	QK	1.7	-2	8.0	1	1.0	-1	0.218	-2	1.676	-1	7.699	2	1722	41	0.8
47695.8	10000	41.3518	92.1492	-867	QK	1.9	-1	7.8	1	1.1	-1	0.244	-1	1.805	-1	7.399	1	1724	45	0.8
47695.9	10000	41.3524	92.1492	-854	QK	1.7	-2	7.7	1	1.1	0	0.221	-2	1.587	-1	7.191	1	1703	53	0.8
47696.0	10000	41.3530	92.1492	-841	QK	1.5	-2	7.4	1	1.1	0	0.206	-2	1.397	-2	6.794	1	1703	31	0.8
47696.1	10000	41.3536	92.1492	-828	QK	1.5	-2	7.5	1	1.1	0	0.205	-2	1.339	-2	6.530	0	1726	44	0.8
47696.2	10000	41.3542	92.1493	-815	QK	1.3	-2	7.6	1	1.1	0	0.178	-2	1.181	-2	6.647	0	1742	40	0.8
47696.3	10000	41.3548	92.1493	-806	QK	1.5	-2	7.5	1	1.1	0	0.201	-2	1.310	-2	6.511	0	1765	39	0.8
47696.4	10000	41.3554	92.1493	-797	QK	1.7	-2	7.1	1	1.2	0	0.242	-2	1.450	-2	5.982	-1	1781	38	0.8
47696.5	10000	41.3561	92.1493	-786	QK	1.7	-2	7.3	1	1.2	0	0.238	-2	1.483	-2	6.220	0	1802	44	0.8
47696.6	10000	41.3567	92.1493	-776	QK	2.0	-1	7.2	1	1.2	0	0.277	-1	1.720	-1	6.219	0	1821	35	0.8
47696.7	10000	41.3573	92.1493	-765	QK	2.0	-1	7.6	1	1.1	0	0.260	-1	1.758	-1	6.774	0	1842	41	0.8
47696.8	10000	41.3579	92.1493	-755	QK	2.2	-1	7.9	1	1.1	0	0.276	-1	1.945	-1	7.046	1	1841	37	0.8

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47696.9	10000	41.3585	92.1494	-746	QK	2.4	0	7.8	1	1.1	0	0.304	-1	2.196	0	7.220	1	1833	40	0.8
47697.0	10000	41.3591	92.1494	-736	QK	2.4	0	8.1	1	1.1	0	0.294	-1	2.188	0	7.439	1	1821	37	0.8
47697.1	10000	41.3597	92.1494	-727	QK	2.0	-1	8.0	1	1.1	0	0.243	-1	1.818	-1	7.476	1	1790	43	0.8
47697.2	10000	41.3603	92.1494	-718	QK	1.8	-1	7.7	1	1.0	-1	0.236	-2	1.768	-1	7.482	1	1747	44	0.8
47697.3	10000	41.3610	92.1494	-709	QK	1.7	-2	7.6	0	1.0	-1	0.223	-2	1.638	-1	7.352	1	1701	30	0.8
47697.4	10000	41.3616	92.1494	-700	QK	1.7	-2	7.0	0	1.0	-1	0.247	-1	1.783	-1	7.227	1	1666	30	0.8
47697.5	10000	41.3622	92.1494	-692	QK	1.7	-2	6.9	0	1.0	-1	0.246	-1	1.782	-1	7.241	1	1647	41	0.8
47697.6	10000	41.3628	92.1494	-684	QK	1.5	-2	6.7	-1	0.9	-2	0.226	-2	1.640	-1	7.272	1	1623	40	0.8
47697.7	10000	41.3634	92.1495	-677	QK	1.3	-3	6.2	-1	0.9	-2	0.205	-2	1.477	-2	7.215	1	1598	58	0.8
47697.8	10000	41.3640	92.1494	-668	QK	1.6	-2	6.4	-1	0.8	-3	0.257	-1	2.067	0	8.058	2	1597	46	0.8
47697.9	10000	41.3646	92.1494	-661	QK	1.7	-2	6.5	-1	0.8	-3	0.268	-1	2.114	0	7.878	2	1601	42	0.8
47698.0	10000	41.3652	92.1494	-654	QK	2.0	-1	6.7	-1	0.8	-2	0.299	-1	2.369	0	7.927	2	1626	42	0.8
47698.1	10000	41.3658	92.1494	-647	QK	2.0	-1	6.7	-1	0.9	-2	0.302	-1	2.290	0	7.571	2	1634	45	0.8
47698.2	10000	41.3664	92.1494	-641	QK	2.0	-1	6.7	-1	0.9	-2	0.293	-1	2.511	0	7.547	2	1640	26	0.8
47698.3	10000	41.3671	92.1494	-636	QK	2.2	-1	6.9	0	1.0	-1	0.326	0	2.284	0	7.004	1	1658	43	0.8
47698.4	10000	41.3677	92.1493	-631	QK	2.6	0	7.1	0	1.0	-1	0.369	0	2.505	1	6.798	0	1680	48	0.8
47698.5	10000	41.3683	92.1493	-628	QK	2.2	-1	7.2	0	1.1	0	0.306	-1	1.981	-1	6.480	0	1694	45	0.8
47698.6	10000	41.3689	92.1493	-625	QK	2.2	-1	7.6	1	1.1	0	0.294	-1	2.013	-1	6.843	1	1727	37	0.8
47698.7	10000	41.3695	92.1493	-624	QK	2.0	-1	7.8	1	1.1	0	0.263	-1	1.871	-1	7.119	1	1749	53	0.8
47698.8	10000	41.3701	92.1493	-623	QK	2.3	0	7.8	1	1.1	0	0.294	-1	2.053	0	6.978	1	1778	49	0.8
47698.9	10000	41.3707	92.1492	-624	QK	2.1	-1	8.0	1	1.2	0	0.267	-1	1.803	-1	6.763	0	1802	43	0.8
47699.0	10000	41.3713	92.1492	-625	QK	2.3	0	7.7	1	1.2	1	0.302	-1	1.976	-1	6.549	0	1812	37	0.8
47699.1	10000	41.3719	92.1492	-628	QK	2.2	-1	7.5	0	1.2	1	0.287	-1	1.831	-1	6.371	0	1819	26	0.8
47699.2	10000	41.3725	92.1492	-632	QK	2.3	0	7.9	1	1.2	1	0.290	-1	1.889	-1	6.503	0	1838	54	0.8
47699.3	10000	41.3731	92.1492	-637	QK	2.1	-1	7.7	1	1.2	1	0.267	-1	1.682	-1	6.303	0	1827	46	0.7
47699.4	10000	41.3737	92.1492	-644	QK	2.0	-1	7.4	0	1.2	1	0.277	-1	1.664	-1	6.013	-1	1808	41	0.7
47699.5	10000	41.3743	92.1491	-651	QK	1.9	-1	7.7	0	1.2	1	0.246	-1	1.558	-1	6.342	0	1792	47	0.7
47699.6	10000	41.3749	92.1491	-659	QK	1.9	-1	7.2	0	1.1	0	0.258	-1	1.654	-1	6.413	0	1755	44	0.7
47699.7	10000	41.3755	92.1491	-669	QK	1.7	-2	7.2	0	1.0	-1	0.236	-2	1.664	-1	7.044	1	1722	33	0.7
47699.8	10000	41.3762	92.1491	-679	QK	1.6	-2	7.3	0	1.0	-1	0.218	-2	1.611	-1	7.390	1	1690	35	0.7
47699.9	10000	41.3767	92.1491	-689	QK	1.7	-2	6.4	-1	0.9	-2	0.267	-1	1.857	-1	6.957	1	1637	52	0.7
47700.0	10000	41.3774	92.1490	-701	QK	1.7	-2	6.1	-2	0.9	-1	0.275	-1	1.765	-1	6.425	0	1610	33	0.7
47700.1	10000	41.3780	92.1490	-714	QK	1.7	-2	6.2	-1	0.9	-1	0.271	-1	1.766	-1	6.523	0	1605	52	0.7
47700.2	10000	41.3786	92.1490	-726	QK	1.6	-2	6.3	-1	1.0	-1	0.252	-1	1.621	-1	6.434	0	1604	44	0.7
47700.3	10000	41.3792	92.1490	-739	QK	1.7	-2	6.4	-1	1.0	-1	0.261	-1	1.646	-1	6.306	0	1617	31	0.7
47700.4	10000	41.3798	92.1490	-752	QK	1.5	-2	6.6	-1	1.1	0	0.228	-2	1.363	-2	5.969	-1	1645	45	0.7
47700.5	10000	41.3804	92.1490	-765	QK	1.7	-2	6.6	-1	1.2	0	0.253	-1	1.424	-2	5.625	-1	1669	37	0.7
47700.6	10000	41.3810	92.1489	-779	QK	1.6	-2	7.1	0	1.2	1	0.224	-2	1.326	-2	5.924	-1	1706	34	0.7
47700.7	10000	41.3816	92.1489	-793	QK	1.9	-1	7.3	0	1.2	0	0.255	-1	1.603	-1	6.295	0	1738	46	0.7
47700.8	10000	41.3822	92.1489	-808	QK	1.9	-1	7.4	0	1.2	1	0.258	-1	1.619	-1	6.277	0	1757	43	0.7
47700.9	10000	41.3828	92.1489	-822	QK	1.8	-1	7.3	0	1.2	0	0.248	-1	1.574	-1	6.340	0	1757	31	0.7
47701.0	10000	41.3834	92.1489	-836	QK	1.9	-1	7.6	1	1.2	0	0.250	-1	1.619	-1	6.475	0	1760	45	0.7
47701.1	10000	41.3840	92.1488	-848	QK	1.6	-2	7.8	1	1.1	0	0.209	-2	1.433	-2	6.853	1	1752	53	0.7
47701.2	10000	41.3846	92.1488	-861	QK	1.5	-2	7.9	1	1.1	0	0.185	-2	1.294	-2	7.012	1	1740	40	0.7
47701.3	10000	41.3852	92.1488	-874	QK	1.6	-2	7.7	1	1.1	0	0.209	-2	1.441	-2	6.908	1	1710	44	0.7
47701.4	10000	41.3858	92.1488	-888	QK	1.3	-2	7.6	0	1.1	0	0.176	-2	1.173	-2	6.660	0	1672	47	0.7
47701.5	10000	41.3864	92.1488	-899	QK	1.3	-2	7.4	0	1.1	0	0.181	-2	1.233	-2	6.811	0	1637	32	0.7
47701.6	10000	41.3871	92.1488	-910	QK	1.4	-2	7.1	0	1.1	0	0.204	-2	1.357	-2	6.646	0	1620	41	0.7
47701.7	10000	41.3877	92.1487	-920	QK	1.5	-2	6.9	0	1.0	0	0.219	-2	1.494	-2	6.820	0	1605	45	0.6
47701.8	10000	41.3883	92.1487	-929	QK	2.0	-1	6.8	-1	1.0	-1	0.290	-1	1.919	-1	6.626	0	1596	48	0.6
47701.9	10000	41.3889	92.1487	-938	QK	2.1	-1	6.6	-1	0.9	-2	0.310	-1	2.235	0	7.205	1	1569	40	0.6
47702.0	10000	41.3895	92.1487	-945	QK	1.9	-1	6.7	-1	1.0	-1	0.290	-1	2.029	0	7.005	1	1583	39	0.6

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47702.1	10000	41.3901	92.1487	-953	QK	1.9	-1	6.4	-1	0.9	-2	0.292	-1	2.046	0	7.009	1	1567	41	0.6
47702.2	10000	41.3907	92.1487	-958	QK	1.6	-2	6.7	-1	0.9	-2	0.232	-2	1.657	-1	7.143	1	1551	49	0.6
47702.3	10000	41.3913	92.1486	-963	QK	1.5	-2	6.9	0	1.0	-1	0.219	-2	1.547	-2	7.055	1	1535	37	0.6
47702.4	10000	41.3919	92.1486	-967	QK	1.3	-3	6.7	-1	1.0	-1	0.192	-2	1.304	-2	6.807	0	1523	46	0.6
47702.5	10000	41.3925	92.1486	-970	QK	1.0	-3	6.8	-1	1.0	-1	0.149	-3	1.023	-3	6.865	1	1517	39	0.6
47702.6	10000	41.3931	92.1486	-972	QK	0.9	-3	6.7	-1	1.0	-1	0.132	-3	0.849	-3	6.420	0	1537	45	0.6
47702.7	10000	41.3937	92.1486	-972	QK	0.9	-3	7.1	0	1.0	-1	0.131	-3	0.920	-3	7.023	1	1537	43	0.6
47702.8	10000	41.3943	92.1486	-972	QK	1.2	-3	7.3	0	1.0	-1	0.168	-3	1.173	-2	6.974	1	1581	39	0.6
47702.9	10000	41.3950	92.1485	-974	QK	1.5	-2	7.1	0	1.1	0	0.219	-2	1.426	-2	6.512	0	1636	38	0.6
47703.0	10000	41.3955	92.1485	-974	QK	1.5	-2	7.1	0	1.1	0	0.211	-2	1.394	-2	6.611	0	1673	51	0.6
47703.1	10000	41.3962	92.1485	-973	QK	1.8	-2	7.6	0	1.1	0	0.233	-2	1.574	-1	6.766	0	1718	27	0.6
47703.2	10000	41.3968	92.1485	-971	QK	1.9	-1	7.0	0	1.2	1	0.270	-1	1.599	-1	5.929	-1	1741	39	0.6
47703.3	10000	41.3974	92.1485	-968	QK	2.2	-1	7.0	0	1.2	1	0.316	0	1.853	-1	5.863	-1	1765	36	0.6
47703.4	10000	41.3980	92.1485	-965	QK	2.2	-1	6.9	0	1.2	1	0.315	-1	1.767	-1	5.617	-1	1778	44	0.6
47703.5	10000	41.3986	92.1484	-961	QK	2.0	-1	7.4	0	1.2	1	0.267	-1	1.638	-1	6.133	0	1774	42	0.6
47703.6	10000	41.3992	92.1484	-957	QK	2.1	-1	7.4	0	1.1	0	0.283	-1	1.828	-1	6.452	0	1747	36	0.6
47703.7	10000	41.3998	92.1484	-953	QK	2.1	-1	7.2	0	1.2	0	0.291	-1	1.808	-1	6.213	0	1713	40	0.5
47703.8	10000	41.4004	92.1484	-947	QK	2.0	-1	6.4	-1	1.1	0	0.314	-1	1.815	-1	5.787	-1	1654	31	0.5
47703.9	10000	41.4010	92.1484	-943	QK	2.3	-1	6.8	-1	1.0	-1	0.333	0	2.226	0	6.689	0	1637	49	0.5
47704.0	10000	41.4016	92.1483	-937	QK	2.1	-1	6.8	-1	1.0	-1	0.308	-1	2.138	0	6.938	1	1611	35	0.5
47704.1	10000	41.4022	92.1483	-932	QK	2.2	-1	6.5	-1	0.9	-1	0.333	0	2.298	0	6.893	1	1597	56	0.5
47704.2	10000	41.4028	92.1483	-926	QK	2.4	0	6.0	-2	0.9	-1	0.399	1	2.511	1	6.296	0	1594	50	0.5
47704.3	10000	41.4034	92.1483	-920	QK	2.3	0	6.0	-2	1.0	-1	0.379	0	2.363	0	6.226	0	1612	30	0.5
47704.4	10000	41.4040	92.1483	-913	QK	2.3	0	6.4	-1	1.0	-1	0.360	0	2.369	0	6.585	0	1642	61	0.5
47704.5	10000	41.4046	92.1483	-907	QK	2.5	0	6.9	0	1.0	-1	0.361	0	2.505	1	6.942	1	1682	44	0.5
47704.6	10000	41.4052	92.1482	-901	QK	2.1	-1	7.6	1	1.0	-1	0.277	-1	2.094	0	7.555	2	1701	35	0.5
47704.7	10000	41.4059	92.1482	-894	QK	2.1	-1	7.4	0	1.0	-1	0.289	-1	2.162	0	7.485	1	1710	39	0.5
47704.8	10000	41.4065	92.1482	-888	QK	2.2	-1	7.8	1	1.0	-1	0.283	-1	2.253	0	7.960	2	1722	49	0.5
47704.9	10000	41.4071	92.1482	-882	QK	2.1	-1	7.9	1	1.0	-1	0.267	-1	2.260	0	8.447	3	1718	46	0.5
47705.0	10000	41.4077	92.1482	-875	QK	1.9	-1	7.7	1	1.0	-1	0.239	-2	1.916	-1	8.001	2	1716	47	0.5
47705.1	10000	41.4083	92.1481	-869	QK	2.1	-1	7.8	1	1.0	-1	0.269	-1	2.117	-1	7.881	2	1713	33	0.5
47705.2	10000	41.4089	92.1481	-864	QK	1.7	-2	7.8	1	1.0	-1	0.219	-2	1.687	-1	7.698	2	1709	41	0.5
47705.3	10000	41.4095	92.1481	-857	QK	1.9	-1	7.3	0	1.1	-1	0.257	-1	1.724	-1	6.717	0	1718	49	0.5
47705.4	10000	41.4101	92.1481	-852	QK	1.9	-1	7.7	1	1.1	0	0.250	-1	1.715	-1	6.847	1	1736	45	0.5
47705.5	10000	41.4107	92.1481	-847	QK	1.9	-1	7.2	0	1.1	0	0.262	-1	1.640	-1	6.265	0	1720	36	0.5
47705.6	10000	41.4113	92.1481	-842	QK	1.9	-1	7.0	0	1.1	1	0.275	-1	1.576	-1	5.732	-1	1707	32	0.5
47705.7	10000	41.4119	92.1480	-837	QK	2.0	-1	7.0	0	1.2	1	0.287	-1	1.644	-1	5.720	-1	1682	50	0.4
47705.8	10000	41.4125	92.1480	-832	QK	1.8	-1	6.5	-1	1.2	1	0.282	-1	1.499	-2	5.306	-2	1658	41	0.4
47705.9	10000	41.4131	92.1480	-828	QK	2.1	-1	6.1	-2	1.2	1	0.338	0	1.739	-1	5.142	-2	1631	51	0.4
47706.0	10000	41.4137	92.1480	-823	QK	2.1	-1	6.0	-2	1.1	1	0.357	0	1.932	-1	5.414	-2	1591	34	0.4
47706.1	10000	41.4143	92.1480	-819	QK	2.0	-1	5.8	-2	1.1	0	0.354	-1	1.853	-1	5.233	-2	1571	37	0.4
47706.2	10000	41.4149	92.1479	-815	QK	1.9	-1	6.3	-1	1.1	0	0.310	-1	1.790	-1	5.778	-1	1564	40	0.4
47706.3	10000	41.4156	92.1479	-812	QK	2.0	-1	6.4	-1	1.1	0	0.316	0	1.983	-1	6.281	0	1567	43	0.4
47706.4	10000	41.4162	92.1479	-808	QK	2.1	-1	6.5	-1	1.1	0	0.316	0	2.130	0	6.739	1	1586	41	0.4
47706.5	10000	41.4168	92.1479	-803	QK	2.2	-1	6.7	-1	1.0	-1	0.323	0	2.356	0	7.291	1	1608	40	0.4
47706.6	10000	41.4174	92.1479	-799	QK	2.4	-1	6.9	-1	1.0	-1	0.349	0	2.520	0	7.223	1	1645	46	0.4
47706.7	10000	41.4180	92.1479	-795	QK	2.5	-1	6.8	-1	1.0	-1	0.329	0	2.261	0	6.881	1	1686	34	0.4
47706.8	10000	41.4186	92.1478	-792	QK	2.5	-1	7.1	0	1.0	-1	0.356	0	2.605	1	7.328	1	1707	26	0.4
47706.9	10000	41.4192	92.1478	-788	QK	2.8	-1	6.9	-1	0.9	-2	0.409	1	2.988	1	7.305	1	1727	35	0.4
47707.0	10000	41.4198	92.1478	-784	QK	2.7	0	7.0	0	1.0	-1	0.391	1	2.810	1	7.182	1	1741	44	0.4
47707.1	10000	41.4204	92.1478	-779	QK	2.9	0	7.0	0	1.0	-1	0.410	1	2.840	1	6.922	1	1743	35	0.4
47707.2	10000	41.4210	92.1478	-775	QK	2.9	1	7.4	0	1.1	0	0.389	1	2.688	1	6.917	1	1753	53	0.4

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47707.3	10000	41.4216	92.1478	-771	QK	2.5	0	7.5	0	1.1	-1	0.341	0	2.406	0	7.053	1	1736	34	0.4
47707.4	10000	41.4222	92.1477	-766	QK	2.7	0	7.5	0	1.1	0	0.361	0	2.505	0	6.944	1	1715	34	0.4
47707.5	10000	41.4228	92.1477	-762	QK	2.5	0	7.2	0	1.1	0	0.354	0	2.339	0	6.612	0	1692	45	0.4
47707.6	10000	41.4234	92.1477	-758	QK	2.3	0	7.0	0	1.1	0	0.329	0	2.009	-1	6.108	-1	1672	43	0.4
47707.7	10000	41.4240	92.1477	-753	QK	2.2	-1	6.6	-1	1.1	0	0.336	0	1.969	-1	5.867	-1	1649	30	0.4
47707.8	10000	41.4247	92.1477	-749	QK	2.1	-1	6.5	-1	1.1	0	0.329	0	1.958	-1	5.952	-1	1642	46	0.4
47707.9	10000	41.4253	92.1476	-745	QK	2.5	0	6.2	-1	1.1	-1	0.405	1	2.393	0	5.912	-1	1626	34	0.4
47708.0	10000	41.4259	92.1476	-741	QK	2.5	0	6.4	-1	1.0	-1	0.384	0	2.383	0	6.211	0	1614	40	0.4
47708.1	10000	41.4265	92.1476	-736	QK	2.3	0	6.4	-1	1.0	-1	0.356	0	2.384	0	6.687	0	1588	39	0.4
47708.2	10000	41.4271	92.1476	-733	QK	2.3	0	6.6	-1	0.9	-2	0.346	0	2.426	0	7.010	1	1573	39	0.4
47708.3	10000	41.4277	92.1476	-730	QK	2.4	0	6.8	-1	0.9	-2	0.344	0	2.531	1	7.355	1	1569	37	0.4
47708.4	10000	41.4283	92.1476	-728	QK	2.3	-1	7.0	0	0.9	-2	0.322	0	2.423	0	7.515	1	1563	37	0.4
47708.5	10000	41.4289	92.1476	-726	QK	2.4	0	7.2	0	1.0	-1	0.331	0	2.431	0	7.345	1	1547	43	0.4
47708.6	10000	41.4295	92.1475	-724	QK	1.9	-1	7.4	0	1.0	-1	0.257	-1	1.990	-1	7.740	2	1545	41	0.4
47708.7	10000	41.4301	92.1475	-723	QK	2.1	-1	6.9	0	1.0	-1	0.302	-1	2.190	0	7.256	1	1546	50	0.4
47708.8	10000	41.4307	92.1475	-721	QK	2.1	-1	7.1	0	1.0	-1	0.291	-1	2.046	0	7.019	1	1563	43	0.4
47708.9	10000	41.4313	92.1475	-721	QK	2.0	-1	6.9	0	1.0	-1	0.294	-1	1.978	-1	6.736	0	1567	50	0.4
47709.0	10000	41.4319	92.1475	-720	QK	1.9	-1	6.8	-1	1.0	-1	0.285	-1	1.898	-1	6.667	0	1557	44	0.4
47709.1	10000	41.4325	92.1474	-720	QK	1.8	-2	6.6	-1	1.0	-1	0.269	-1	1.795	-1	6.662	0	1550	45	0.4
47709.2	10000	41.4331	92.1474	-720	QK	1.6	-2	6.5	-1	1.0	-1	0.243	-1	1.622	-1	6.663	0	1539	40	0.4
47709.3	10000	41.4337	92.1474	-720	QK	1.6	-2	6.0	-2	1.0	-1	0.272	-1	1.635	-1	6.008	-1	1525	36	0.4
47709.4	10000	41.4343	92.1474	-721	QK	1.6	-2	6.1	-1	1.0	-1	0.261	-1	1.575	-1	6.040	-1	1525	48	0.4
47709.5	10000	41.4350	92.1474	-720	QK	1.6	-2	5.9	-2	1.0	-1	0.275	-1	1.580	-1	5.749	-1	1527	43	0.4
47709.6	10000	41.4356	92.1474	-719	QK	1.4	-2	5.8	-2	1.1	0	0.242	-2	1.312	-2	5.428	-2	1539	41	0.4
47709.7	10000	41.4362	92.1473	-718	QK	1.4	-2	6.2	-1	1.1	-1	0.221	-2	1.288	-2	5.830	-1	1565	48	0.4
47709.8	10000	41.4368	92.1473	-717	QK	1.8	-1	6.4	-1	1.1	0	0.284	-1	1.622	-1	5.705	-1	1605	46	0.4
47709.9	10000	41.4374	92.1473	-716	QK	1.9	-1	6.4	-1	1.2	0	0.306	-1	1.683	-1	5.505	-1	1624	47	0.4
47710.0	10000	41.4380	92.1473	-714	QK	1.9	-1	6.4	-1	1.1	0	0.289	-1	1.624	-1	5.614	-1	1645	32	0.4
47710.1	10000	41.4386	92.1473	-712	QK	1.9	-1	6.6	-1	1.2	0	0.284	-1	1.565	-1	5.509	-1	1664	45	0.4
47710.2	10000	41.4392	92.1472	-710	QK	1.9	-1	6.6	-1	1.2	1	0.295	-1	1.649	-1	5.598	-1	1677	43	0.4
47710.3	10000	41.4398	92.1472	-707	QK	2.2	-1	6.6	-1	1.2	1	0.332	0	1.882	-1	5.676	-1	1694	45	0.4
47710.4	10000	41.4404	92.1472	-704	QK	2.4	0	6.6	-1	1.2	1	0.363	0	1.972	-1	5.426	-2	1694	23	0.4
47710.5	10000	41.4410	92.1472	-700	QK	2.4	0	6.5	-1	1.2	1	0.368	0	1.994	-1	5.415	-2	1704	48	0.4
47710.6	10000	41.4416	92.1472	-696	QK	2.3	0	6.5	-1	1.2	0	0.356	0	1.976	-1	5.552	-1	1732	52	0.5
47710.7	10000	41.4422	92.1472	-692	QK	2.4	0	6.8	-1	1.2	0	0.351	0	2.035	0	5.794	-1	1738	38	0.5
47710.8	10000	41.4428	92.1471	-688	QK	2.5	0	7.0	0	1.1	0	0.358	0	2.346	0	6.557	0	1736	41	0.5
47710.9	10000	41.4434	92.1471	-683	QK	2.5	0	7.3	0	1.1	0	0.347	0	2.284	0	6.588	0	1749	30	0.5
47711.0	10000	41.4441	92.1471	-678	QK	2.3	-1	7.3	0	1.1	0	0.307	-1	1.994	-1	6.487	0	1748	48	0.5
47711.1	10000	41.4447	92.1471	-672	QK	2.1	-1	7.2	0	1.1	0	0.300	-1	1.915	-1	6.384	0	1750	38	0.5
47711.2	10000	41.4453	92.1471	-667	QK	2.0	-1	7.6	0	1.1	0	0.269	-1	1.861	-1	6.924	1	1734	38	0.5
47711.3	10000	41.4459	92.1470	-661	QK	1.9	-1	7.7	1	1.1	0	0.251	-1	1.760	-1	7.010	1	1722	45	0.5
47711.4	10000	41.4465	92.1470	-656	QK	1.9	-1	8.1	1	1.1	0	0.231	-2	1.646	-1	7.138	1	1721	37	0.5
47711.5	10000	41.4471	92.1470	-650	QK	1.6	-2	7.8	1	1.2	1	0.211	-2	1.412	-2	6.699	0	1724	38	0.5
47711.6	10000	41.4477	92.1470	-644	QK	1.7	-2	7.9	1	1.1	1	0.213	-2	1.495	-2	7.003	1	1717	45	0.5
47711.7	10000	41.4483	92.1470	-638	QK	1.8	-1	8.0	1	1.1	1	0.231	-2	1.615	-1	6.997	1	1713	44	0.5
47711.8	10000	41.4489	92.1470	-632	QK	1.7	-2	7.8	1	1.1	1	0.216	-2	1.521	-2	7.038	1	1700	44	0.5
47711.9	10000	41.4495	92.1469	-625	QK	1.5	-2	7.8	1	1.1	1	0.197	-2	1.352	-2	6.859	1	1684	40	0.5
47712.0	10000	41.4501	92.1469	-617	QK	1.5	-2	7.7	1	1.1	1	0.196	-2	1.347	-2	6.890	1	1672	46	0.5
47712.1	10000	41.4507	92.1469	-610	QK	1.6	-2	6.9	0	1.1	1	0.223	-2	1.384	-2	6.199	0	1654	42	0.6
47712.2	10000	41.4513	92.1469	-602	QK	1.6	-2	7.0	0	1.1	1	0.228	-2	1.408	-2	6.186	0	1626	37	0.6
47712.3	10000	41.4519	92.1469	-595	QK	1.5	-2	6.4	-1	1.1	0	0.234	-2	1.374	-2	5.871	-1	1601	38	0.6
47712.4	10000	41.4525	92.1469	-587	QK	1.6	-2	6.2	-1	1.0	-1	0.252	-1	1.542	-2	6.109	-1	1572	35	0.6

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
47712.5	10000	41.4531	92.1468	-578	QK	1.7	-2	6.1	-2	1.0	-1	0.282	-1	1.687	-1	5.986	-1	1551	44	0.6
47712.6	10000	41.4538	92.1468	-568	QK	1.6	-2	5.7	-2	1.0	-1	0.282	-1	1.589	-1	5.645	-1	1532	55	0.6
47712.7	10000	41.4544	92.1468	-558	QK	1.6	-2	5.8	-2	1.0	-1	0.273	-1	1.616	-1	5.925	-1	1502	50	0.6
47712.8	10000	41.4550	92.1468	-548	QK	1.8	-2	6.2	-1	1.0	-1	0.286	-1	1.794	-1	6.266	0	1489	42	0.6
47712.9	10000	41.4556	92.1468	-537	QK	1.8	-1	5.7	-2	1.0	-1	0.319	0	1.858	-1	5.827	-1	1502	41	0.6
47713.0	10000	41.4562	92.1467	-527	QK	1.9	-1	5.5	-2	1.0	-1	0.354	0	1.903	-1	5.375	-2	1510	44	0.6
47713.1	10000	41.4568	92.1467	-516	QK	1.9	-1	5.2	-3	1.0	-1	0.372	0	1.875	-1	5.032	-2	1526	47	0.6
47713.2	10000	41.4574	92.1467	-504	QK	2.0	-1	5.0	-3	1.1	0	0.395	1	1.850	-1	4.684	-3	1552	42	0.6
49183.3	10000	41.4579	92.1441	-524	QK	2.1	-1	6.4	-1	0.9	-2	0.327	0	2.242	0	6.855	1	1637	46	1.5
49183.4	10000	41.4586	92.1441	-512	QK	2.2	-1	6.3	-1	0.9	-2	0.351	0	2.443	0	6.966	1	1632	38	1.5
49183.5	10000	41.4593	92.1441	-499	QK	2.1	-1	6.7	-1	0.9	-2	0.315	-1	2.344	0	7.452	1	1645	51	1.5
49183.6	10000	41.4599	92.1441	-486	QK	2.3	0	6.7	-1	0.9	-2	0.342	0	2.603	1	7.614	2	1648	41	1.5
49183.7	10000	41.4605	92.1441	-473	QK	2.2	-1	6.8	-1	1.0	-1	0.326	0	2.308	0	7.089	1	1671	47	1.5
49183.8	10000	41.4612	92.1441	-459	QK	2.1	-1	6.6	-1	1.0	-1	0.315	0	2.177	0	6.900	1	1674	49	1.5
49183.9	10000	41.4618	92.1441	-444	QK	1.9	-1	6.4	-1	0.9	-1	0.291	-1	1.969	-1	6.770	0	1668	45	1.5
49184.0	10000	41.4625	92.1441	-428	QK	2.1	-1	6.6	-1	1.0	-1	0.320	0	2.233	0	6.980	1	1663	34	1.5
49184.1	10000	41.4631	92.1441	-411	QK	1.8	-1	6.7	-1	1.0	-1	0.272	-1	1.892	-1	6.963	1	1652	44	1.5
49184.2	10000	41.4637	92.1441	-395	QK	1.9	-1	6.5	-1	1.0	-1	0.289	-1	1.896	-1	6.563	0	1637	47	1.5
49184.3	10000	41.4644	92.1441	-377	QK	1.8	-1	6.7	-1	1.0	-1	0.268	-1	1.792	-1	6.688	0	1646	43	1.5
49184.4	10000	41.4650	92.1441	-358	QK	2.1	-1	6.5	-1	1.0	-1	0.319	0	2.071	0	6.495	0	1644	42	1.5
49184.5	10000	41.4657	92.1441	-338	QK	2.1	-1	6.7	-1	1.0	-1	0.316	0	2.082	0	6.584	0	1654	38	1.5
49184.6	10000	41.4663	92.1441	-317	QAL	2.1	-1	6.9	0	1.0	0	0.309	-1	2.102	0	6.799	1	1662	43	1.5
49184.7	10000	41.4670	92.1441	-296	QAL	2.2	0	6.8	0	1.0	0	0.324	-1	2.149	0	6.625	1	1691	49	1.5
49184.8	10000	41.4676	92.1441	-274	QAL	2.3	0	6.7	0	1.1	0	0.348	0	2.208	0	6.338	0	1718	44	1.5
49184.9	10000	41.4683	92.1441	-250	QAL	2.4	0	6.7	0	1.1	0	0.358	0	2.284	0	6.373	0	1729	33	1.5
49185.0	10000	41.4689	92.1441	-227	QAL	2.4	0	6.6	0	1.1	0	0.365	0	2.200	0	6.032	0	1743	47	1.5
49185.1	10000	41.4696	92.1441	-202	QAL	2.1	-1	6.9	0	1.1	0	0.297	-1	1.889	-1	6.354	0	1755	54	1.5
49185.2	10000	41.4702	92.1441	-178	QAL	2.0	-1	6.7	0	1.1	0	0.293	-1	1.822	-1	6.212	0	1760	50	1.5
49185.3	10000	41.4708	92.1441	-152	QAL	2.1	-1	6.9	0	1.1	0	0.304	-1	1.894	-1	6.229	0	1772	33	1.5
49185.4	10000	41.4715	92.1441	-127	QAL	1.9	-1	7.3	1	1.1	0	0.268	-1	1.775	-1	6.629	1	1773	37	1.5
49185.5	10000	41.4721	92.1441	-101	QAL	1.9	-1	7.3	1	1.1	0	0.263	-1	1.765	-1	6.704	1	1785	35	1.5
49185.6	10000	41.4728	92.1441	-75	QAL	2.2	-1	7.6	1	1.1	0	0.284	-1	1.946	-1	6.844	1	1804	35	1.5
49185.7	10000	41.4734	92.1441	-49	QAL	2.3	0	7.6	1	1.1	0	0.300	-1	2.124	0	7.077	1	1797	60	1.5
49185.8	10000	41.4741	92.1441	-23	QAL	2.4	0	7.5	1	1.1	0	0.326	-1	2.166	0	6.650	1	1807	45	1.5
49185.9	10000	41.4747	92.1441	4	QK	2.6	0	8.0	1	1.1	0	0.322	0	2.306	0	7.165	1	1806	43	1.5
49186.0	10000	41.4753	92.1441	29	QK	2.5	0	8.0	1	1.1	0	0.313	-1	2.199	0	7.029	1	1807	46	1.5
49186.1	10000	41.4760	92.1441	54	QK	2.5	0	7.6	1	1.2	0	0.323	0	2.112	0	6.536	0	1798	43	1.5
49186.2	10000	41.4766	92.1441	77	QK	2.3	-1	7.8	1	1.2	1	0.297	-1	1.911	-1	6.445	0	1789	49	1.5
49186.3	10000	41.4773	92.1441	99	QK	2.0	-1	7.6	0	1.2	1	0.262	-1	1.650	-1	6.306	0	1781	47	1.5
49186.4	10000	41.4779	92.1441	120	QK	1.6	-2	7.8	1	1.2	1	0.209	-2	1.331	-2	6.355	0	1781	42	1.5
49186.5	10000	41.4786	92.1441	140	QK	1.6	-2	7.7	1	1.2	1	0.204	-2	1.319	-2	6.473	0	1761	46	1.5
49186.6	10000	41.4792	92.1441	157	QK	1.8	-1	7.4	0	1.2	1	0.242	-2	1.465	-2	6.058	-1	1777	38	1.5
49186.7	10000	41.4799	92.1441	173	QK	1.7	-2	7.2	0	1.2	1	0.237	-2	1.409	-2	5.934	-1	1776	38	1.5
49186.8	10000	41.4805	92.1441	189	QK	2.0	-1	7.6	1	1.2	1	0.262	-1	1.630	-1	6.221	0	1802	30	1.5
49186.9	10000	41.4811	92.1441	202	QK	2.2	-1	7.7	1	1.2	1	0.288	-1	1.872	-1	6.490	0	1814	56	1.5
49187.0	10000	41.4818	92.1441	215	QK	2.3	0	8.0	1	1.2	1	0.292	-1	1.920	-1	6.576	0	1829	30	1.5
49187.1	10000	41.4824	92.1441	227	QK	2.4	0	8.0	1	1.2	1	0.299	-1	1.926	-1	6.436	0	1839	36	1.5
49187.2	10000	41.4831	92.1441	237	QK	2.5	0	8.0	1	1.3	1	0.317	0	1.978	-1	6.237	0	1863	38	1.5
49187.3	10000	41.4837	92.1442	247	QK	2.4	0	8.3	1	1.3	1	0.285	-1	1.884	-1	6.604	0	1864	23	1.5
49187.4	10000	41.4844	92.1442	256	QK	2.6	0	8.2	1	1.2	1	0.312	-1	2.071	0	6.636	0	1870	45	1.5
49187.5	10000	41.4850	92.1442	264	QK	2.4	0	8.2	1	1.2	1	0.297	-1	1.968	-1	6.620	0	1858	41	1.5
49187.6	10000	41.4856	92.1442	271	QK	2.4	0	8.2	1	1.2	1	0.298	-1	1.970	-1	6.619	0	1863	56	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49187.7	10000	41.4863	92.1442	279	QK	2.4	0	8.1	1	1.2	1	0.298	-1	1.992	-1	6.687	0	1849	47	1.5
49187.8	10000	41.4869	92.1442	285	QK	2.4	0	8.5	2	1.2	1	0.280	-1	1.980	-1	7.078	1	1849	33	1.5
49187.9	10000	41.4876	92.1442	292	QK	2.3	0	8.8	2	1.1	0	0.259	-1	2.016	-1	7.794	2	1849	42	1.5
49188.0	10000	41.4882	92.1442	298	QK	2.2	-1	8.5	2	1.2	0	0.257	-1	1.871	-1	7.286	1	1842	47	1.5
49188.1	10000	41.4889	92.1442	305	QK	2.2	-1	8.6	2	1.2	1	0.257	-1	1.831	-1	7.130	1	1850	37	1.5
49188.2	10000	41.4895	92.1442	310	QK	2.1	-1	8.5	2	1.2	0	0.244	-1	1.759	-1	7.218	1	1846	38	1.5
49188.3	10000	41.4902	92.1442	315	QK	1.9	-1	8.4	2	1.3	1	0.231	-2	1.534	-2	6.642	0	1842	40	1.5
49188.4	10000	41.4908	92.1442	320	QK	2.0	-1	8.6	2	1.3	1	0.234	-2	1.594	-1	6.814	0	1850	37	1.5
49188.5	10000	41.4914	92.1442	324	QK	2.0	-1	7.9	1	1.3	1	0.257	-1	1.587	-1	6.172	0	1836	53	1.4
49188.6	10000	41.4921	92.1442	329	QK	2.1	-1	7.8	1	1.3	1	0.266	-1	1.625	-1	6.115	-1	1832	39	1.4
49188.7	10000	41.4927	92.1442	333	QK	2.1	-1	7.8	1	1.2	1	0.271	-1	1.686	-1	6.227	0	1827	61	1.4
49188.8	10000	41.4934	92.1442	338	QK	2.0	-1	7.7	1	1.2	1	0.264	-1	1.709	-1	6.473	0	1812	52	1.4
49188.9	10000	41.4940	92.1442	342	QK	2.2	-1	7.6	1	1.2	1	0.285	-1	1.806	-1	6.346	0	1821	46	1.4
49189.0	10000	41.4947	92.1442	345	QK	2.4	0	7.5	0	1.1	0	0.324	0	2.180	0	6.728	0	1827	34	1.4
49189.1	10000	41.4953	92.1442	348	QK	2.3	0	7.3	0	1.1	0	0.322	0	2.083	0	6.461	0	1841	45	1.4
49189.2	10000	41.4960	92.1442	350	QK	2.5	0	7.4	0	1.1	0	0.337	0	2.289	0	6.789	0	1843	53	1.4
49189.3	10000	41.4966	92.1442	353	QK	2.5	0	7.5	0	1.1	0	0.329	0	2.190	0	6.651	0	1833	43	1.4
49189.4	10000	41.4972	92.1442	353	QK	2.5	0	7.6	0	1.1	0	0.336	0	2.231	0	6.643	0	1833	44	1.4
49189.5	10000	41.4979	92.1442	354	QK	2.5	0	7.8	1	1.2	0	0.317	0	2.136	0	6.748	0	1830	38	1.4
49189.6	10000	41.4985	92.1442	354	QK	2.4	0	7.9	1	1.1	0	0.307	-1	2.134	0	6.958	1	1835	44	1.4
49189.7	10000	41.4992	92.1442	355	QK	2.3	0	8.0	1	1.1	0	0.287	-1	2.047	0	7.137	1	1818	38	1.4
49189.8	10000	41.4998	92.1442	355	QK	2.3	0	7.8	1	1.1	0	0.298	-1	2.049	0	6.883	1	1793	49	1.4
49189.9	10000	41.5005	92.1442	354	QK	2.3	0	7.7	1	1.1	0	0.305	-1	2.070	0	6.793	0	1798	50	1.4
49190.0	10000	41.5011	92.1442	350	QK	2.6	0	7.5	0	1.1	0	0.344	0	2.335	0	6.783	0	1808	47	1.4
49190.1	10000	41.5018	92.1442	348	QK	2.5	0	7.5	0	1.1	0	0.333	0	2.240	0	6.735	0	1797	42	1.4
49190.2	10000	41.5024	92.1442	344	QK	2.6	0	7.4	0	1.1	0	0.355	0	2.432	0	6.849	1	1793	39	1.4
49190.3	10000	41.5030	92.1442	341	QK	2.8	0	7.4	0	1.1	0	0.371	0	2.484	0	6.687	0	1774	44	1.4
49190.4	10000	41.5037	92.1442	336	QK	2.8	1	7.3	0	1.1	0	0.386	0	2.531	1	6.557	0	1756	45	1.4
49190.5	10000	41.5043	92.1442	332	QK	2.9	1	7.1	0	1.1	0	0.407	1	2.636	1	6.471	0	1746	42	1.4
49190.6	10000	41.5050	92.1442	326	QK	2.8	1	6.9	0	1.1	0	0.401	1	2.542	1	6.332	0	1730	32	1.4
49190.7	10000	41.5056	92.1442	322	QK	2.4	1	6.9	-1	1.1	0	0.355	0	2.250	1	6.342	0	1696	37	1.4
49190.8	10000	41.5063	92.1442	317	QK	2.6	1	6.8	-1	1.1	0	0.379	0	2.376	1	6.264	0	1694	42	1.4
49190.9	10000	41.5069	92.1442	311	QK	2.3	1	6.5	-1	1.1	0	0.360	0	2.071	0	5.749	-1	1685	52	1.4
49191.0	10000	41.5075	92.1442	305	QK	2.2	1	6.3	-1	1.1	0	0.342	-1	1.942	-1	5.684	-1	1691	38	1.4
49191.1	10000	41.5082	92.1442	300	QK	1.9	1	6.3	-1	1.2	0	0.307	-1	1.688	-1	5.505	-1	1703	50	1.4
49191.2	10000	41.5088	92.1442	296	QK	2.1	1	6.5	-1	1.1	0	0.326	-1	1.849	-1	5.668	-1	1707	35	1.4
49191.3	10000	41.5095	92.1442	291	QK	2.2	1	6.7	-1	1.1	0	0.325	-1	1.909	-1	5.883	-1	1701	46	1.4
49191.4	10000	41.5101	92.1442	283	QK	2.2	1	6.9	0	1.1	0	0.318	-1	1.956	-1	6.153	0	1690	36	1.4
49191.5	10000	41.5108	92.1442	276	QK	2.1	1	6.6	-1	1.1	0	0.323	-1	2.018	-1	6.243	0	1667	37	1.4
49191.6	10000	41.5114	92.1442	271	QK	2.3	1	6.7	-1	1.0	0	0.341	-1	2.247	0	6.580	0	1651	50	1.4
49191.7	10000	41.5121	92.1442	265	QK	2.3	1	6.6	-1	1.0	0	0.351	-1	2.327	0	6.626	0	1637	37	1.4
49191.8	10000	41.5127	92.1442	260	QK	2.6	1	6.6	-1	1.0	0	0.395	-1	2.687	0	6.802	0	1637	46	1.4
49191.9	10000	41.5133	92.1442	254	QK	2.3	1	6.4	-1	1.0	0	0.353	-1	2.342	0	6.634	0	1628	39	1.4
49192.0	10000	41.5140	92.1442	248	QK	2.4	1	6.3	-1	0.9	-1	0.379	-1	2.608	0	6.884	1	1627	37	1.4
49192.1	10000	41.5146	92.1442	244	QK	2.5	1	5.9	-2	1.0	0	0.420	-1	2.609	0	6.215	0	1650	45	1.4
49192.2	10000	41.5153	92.1442	239	QK	2.5	1	6.4	-1	1.0	0	0.386	-1	2.499	0	6.479	0	1675	34	1.4
49192.3	10000	41.5159	92.1442	236	QK	2.4	1	6.3	-1	1.0	0	0.381	-1	2.438	0	6.394	0	1691	36	1.4
49192.4	10000	41.5166	92.1442	232	QK	2.6	1	6.1	-2	0.9	-1	0.423	-1	2.637	1	6.229	0	1688	39	1.4
49192.5	10000	41.5172	92.1442	228	QK	2.5	1	5.8	-2	0.9	-2	0.430	-1	2.654	1	6.168	0	1671	35	1.4
49192.6	10000	41.5178	92.1442	224	QK	2.8	1	6.1	-2	0.9	-2	0.474	-1	3.020	2	6.373	0	1664	43	1.4
49192.7	10000	41.5185	92.1442	221	QK	2.6	1	6.4	-1	1.0	-1	0.430	-1	2.813	1	6.535	0	1669	33	1.4
49192.8	10000	41.5191	92.1442	217	QK	2.6	0	6.4	-1	1.0	-1	0.405	-1	2.689	1	6.647	0	1681	40	1.4

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49192.9	10000	41.5198	92.1442	213	QAL	2.6	0	6.4	0	1.0	-1	0.410	0	2.660	1	6.492	0	1694	64	1.4
49193.0	10000	41.5204	92.1442	211	QAL	2.8	1	6.7	0	1.1	0	0.415	0	2.636	1	6.347	0	1731	39	1.4
49193.1	10000	41.5211	92.1442	208	QAL	2.9	1	6.8	0	1.0	0	0.425	0	2.787	1	6.559	1	1746	25	1.4
49193.2	10000	41.5217	92.1442	204	QAL	3.0	1	7.3	1	1.1	0	0.408	0	2.761	1	6.766	1	1772	34	1.4
49193.3	10000	41.5224	92.1442	201	QAL	2.9	1	7.9	1	1.1	0	0.371	0	2.684	1	7.235	1	1797	50	1.4
49193.4	10000	41.5230	92.1442	198	QAL	2.8	1	7.6	1	1.1	0	0.374	0	2.527	0	6.753	1	1820	36	1.4
49193.5	10000	41.5236	92.1442	195	QAL	2.9	1	7.4	1	1.1	0	0.386	0	2.525	0	6.547	1	1811	47	1.4
49193.6	10000	41.5243	92.1442	191	QAL	2.7	1	7.7	1	1.1	0	0.356	0	2.402	0	6.752	1	1803	50	1.4
49193.7	10000	41.5249	92.1442	188	QAL	2.7	0	7.6	1	1.1	0	0.355	0	2.473	0	6.972	1	1785	32	1.4
49193.8	10000	41.5256	92.1442	183	QAL	2.8	1	7.8	1	1.2	1	0.353	0	2.389	0	6.765	1	1797	47	1.4
49193.9	10000	41.5262	92.1442	178	QAL	2.5	1	7.7	1	1.2	1	0.329	-1	2.139	0	6.510	0	1794	38	1.4
49194.0	10000	41.5269	92.1442	173	QAL	2.4	0	7.4	1	1.2	1	0.322	-1	1.941	-1	6.018	0	1802	43	1.4
49194.1	10000	41.5275	92.1442	168	QAL	2.4	0	7.7	1	1.2	1	0.307	-1	1.992	-1	6.491	0	1788	45	1.4
49194.2	10000	41.5282	92.1442	163	QAL	2.4	0	7.7	1	1.2	1	0.309	-1	2.018	-1	6.535	1	1791	50	1.4
49194.3	10000	41.5288	92.1442	156	QAL	2.4	0	7.0	0	1.1	0	0.345	0	2.117	0	6.143	0	1770	57	1.4
49194.4	10000	41.5294	92.1442	149	QAL	2.4	0	7.0	0	1.1	0	0.338	0	2.077	0	6.139	0	1743	46	1.4
49194.5	10000	41.5301	92.1442	144	QK	2.1	-1	6.9	0	1.1	0	0.307	-1	1.900	-1	6.190	0	1712	49	1.4
49194.6	10000	41.5307	92.1442	138	QK	2.1	-1	7.1	0	1.1	-1	0.299	-1	1.996	-1	6.669	0	1687	41	1.4
49194.7	10000	41.5314	92.1442	132	QK	2.3	-1	7.1	0	1.0	-1	0.320	0	2.271	0	7.088	1	1642	49	1.4
49194.8	10000	41.5320	92.1442	126	QK	2.1	-1	6.6	-1	1.0	-1	0.321	0	2.096	0	6.538	0	1638	49	1.4
49194.9	10000	41.5327	92.1442	120	QK	2.2	-1	6.5	-1	1.0	-1	0.343	0	2.219	0	6.466	0	1630	38	1.4
49195.0	10000	41.5333	92.1442	116	QK	2.2	-1	6.7	-1	1.0	-1	0.335	0	2.140	0	6.398	0	1652	46	1.4
49195.1	10000	41.5339	92.1442	111	QK	2.3	-1	6.5	-1	1.1	0	0.345	0	2.113	0	6.128	-1	1682	40	1.4
49195.2	10000	41.5346	92.1442	107	QK	2.4	0	6.6	-1	1.1	0	0.362	0	2.191	0	6.057	-1	1697	55	1.4
49195.3	10000	41.5352	92.1442	103	QK	2.5	0	6.2	-1	1.1	0	0.402	1	2.207	0	5.491	-1	1717	47	1.4
49195.4	10000	41.5359	92.1442	99	QK	2.3	0	6.1	-2	1.2	1	0.381	0	1.954	-1	5.123	-2	1754	42	1.4
49195.5	10000	41.5365	92.1442	96	QK	2.5	0	6.0	-2	1.2	1	0.408	1	2.071	0	5.072	-2	1762	35	1.4
49195.6	10000	41.5372	92.1442	93	QK	2.4	0	6.2	-1	1.2	1	0.394	1	2.058	0	5.228	-2	1780	44	1.4
49195.7	10000	41.5378	92.1442	91	QK	2.6	0	6.5	-1	1.2	1	0.399	1	2.205	0	5.521	-1	1808	48	1.4
49195.8	10000	41.5385	92.1442	86	QK	2.6	0	6.9	0	1.1	0	0.376	0	2.287	0	6.087	-1	1821	48	1.4
49195.9	10000	41.5391	92.1442	82	QK	2.6	0	7.2	0	1.1	0	0.360	0	2.249	0	6.239	-1	1842	39	1.4
49196.0	10000	41.5397	92.1442	78	QK	2.6	0	7.3	0	1.1	0	0.351	0	2.263	0	6.442	0	1843	45	1.4
49196.1	10000	41.5404	92.1442	75	QK	2.6	0	7.3	0	1.1	0	0.355	0	2.359	0	6.653	0	1819	40	1.4
49196.2	10000	41.5410	92.1442	73	QK	2.7	0	7.2	0	1.1	0	0.373	0	2.444	0	6.544	0	1797	38	1.4
49196.3	10000	41.5417	92.1442	70	QK	2.6	0	7.4	0	1.1	0	0.352	0	2.370	0	6.725	0	1772	44	1.4
49196.4	10000	41.5423	92.1442	67	QK	2.5	0	6.9	0	1.1	0	0.360	0	2.348	0	6.527	0	1716	44	1.4
49196.5	10000	41.5430	92.1442	64	QK	2.5	0	6.6	-1	1.1	0	0.373	0	2.362	0	6.325	0	1670	47	1.4
49196.6	10000	41.5436	92.1442	62	QK	2.3	0	6.1	-1	1.0	0	0.377	0	2.349	0	6.233	0	1622	42	1.4
49196.7	10000	41.5443	92.1442	59	QK	2.2	0	5.9	-1	1.0	0	0.372	0	2.297	0	6.171	0	1591	49	1.4
49196.8	10000	41.5449	92.1442	57	QK	2.3	0	5.9	-1	1.0	0	0.393	0	2.395	0	6.092	-1	1580	59	1.4
49196.9	10000	41.5455	92.1442	54	QK	2.2	0	5.9	-1	1.0	0	0.370	0	2.339	0	6.327	0	1581	37	1.4
49197.0	10000	41.5462	92.1442	52	QK	2.4	0	6.0	-1	1.1	0	0.413	1	2.567	0	6.223	0	1588	50	1.4
49197.1	10000	41.5468	92.1442	50	QK	2.4	0	6.0	-1	1.1	0	0.405	1	2.546	0	6.280	0	1606	36	1.4
49197.2	10000	41.5475	92.1442	49	QK	2.7	0	6.3	-1	1.1	0	0.442	1	2.650	0	5.990	-1	1649	54	1.4
49197.3	10000	41.5481	92.1442	47	QK	2.7	0	6.5	-1	1.1	0	0.433	1	2.623	0	6.062	-1	1684	39	1.4
49197.4	10000	41.5487	92.1442	45	QK	2.9	0	6.6	-1	1.1	0	0.449	1	2.775	0	6.177	-1	1712	52	1.4
49197.5	10000	41.5494	92.1442	43	QK	2.9	0	6.6	-1	1.1	0	0.441	1	2.708	0	6.147	-1	1743	53	1.4
49197.6	10000	41.5500	92.1442	42	QK	2.9	0	6.6	-1	1.1	0	0.446	1	2.621	0	5.881	-1	1770	44	1.4
49197.7	10000	41.5506	92.1441	41	QAL	2.8	0	6.8	-1	1.1	0	0.410	1	2.534	0	6.182	-1	1775	38	1.4
49197.8	10000	41.5513	92.1441	40	QAL	2.7	0	7.6	0	1.1	0	0.350	0	2.328	0	6.645	-1	1802	48	1.4
49197.9	10000	41.5519	92.1441	40	QAL	2.6	0	7.6	1	1.2	1	0.340	0	2.166	0	6.365	0	1802	41	1.4
49198.0	10000	41.5525	92.1441	40	QAL	2.4	0	7.4	1	1.2	1	0.324	-1	2.044	0	6.305	0	1803	53	1.4

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49198.1	10000	41.5532	92.1441	39	QAL	2.4	0	7.6	1	1.2	1	0.311	-1	1.902	-1	6.112	0	1813	44	1.4
49198.2	10000	41.5538	92.1441	39	QAL	2.3	0	7.6	1	1.3	1	0.309	-1	1.855	-1	5.999	0	1803	51	1.4
49198.3	10000	41.5544	92.1441	37	QAL	2.3	0	7.6	1	1.2	1	0.299	-1	1.827	-1	6.117	0	1787	37	1.4
49198.4	10000	41.5551	92.1441	37	QK	2.1	-1	7.4	0	1.2	1	0.283	-1	1.696	-1	6.000	-1	1786	40	1.4
49198.5	10000	41.5557	92.1440	37	QK	2.1	-1	6.8	-1	1.2	1	0.315	-1	1.764	-1	5.603	-1	1763	48	1.5
49198.6	10000	41.5563	92.1440	34	QK	1.9	-1	7.1	0	1.2	0	0.266	-1	1.603	-1	6.038	-1	1746	49	1.5
49198.7	10000	41.5570	92.1440	33	QK	1.9	-1	7.3	0	1.2	0	0.262	-1	1.642	-1	6.270	0	1720	43	1.5
49198.8	10000	41.5576	92.1440	32	QK	1.8	-1	7.1	0	1.1	0	0.254	-1	1.633	-1	6.417	0	1705	58	1.5
49198.9	10000	41.5582	92.1440	31	QK	1.9	-1	7.0	0	1.1	0	0.264	-1	1.706	-1	6.468	0	1697	28	1.5
49199.0	10000	41.5589	92.1440	31	QK	1.7	-2	7.2	0	1.1	0	0.232	-2	1.524	-2	6.570	0	1692	48	1.5
49199.1	10000	41.5595	92.1440	31	QK	1.9	-1	6.9	0	1.1	0	0.268	-1	1.697	-1	6.330	0	1678	53	1.5
49199.2	10000	41.5601	92.1440	30	QK	1.8	-1	7.1	0	1.1	0	0.254	-1	1.700	-1	6.692	0	1673	43	1.5
49199.3	10000	41.5608	92.1440	30	QK	1.9	-1	6.6	-1	1.0	-1	0.293	-1	1.877	-1	6.411	0	1647	30	1.5
49199.4	10000	41.5614	92.1439	29	QK	2.1	-1	6.4	-1	1.1	0	0.324	0	1.941	-1	5.988	-1	1651	49	1.5
49199.5	10000	41.5620	92.1439	29	QK	1.9	-1	6.5	-1	1.0	-1	0.285	-1	1.796	-1	6.305	0	1644	45	1.5
49199.6	10000	41.5626	92.1439	29	QK	1.7	-2	6.7	-1	1.0	-1	0.247	-1	1.629	-1	6.528	0	1631	44	1.5
49199.7	10000	41.5633	92.1439	29	QK	2.0	-1	6.6	-1	1.0	-1	0.302	-1	2.022	-1	6.699	0	1613	54	1.5
49199.8	10000	41.5639	92.1439	27	QK	1.8	-1	6.4	-1	0.9	-1	0.281	-1	1.902	-1	6.775	0	1598	40	1.5
49199.9	10000	41.5646	92.1439	25	QK	1.6	-2	6.5	-1	1.0	-1	0.249	-1	1.629	-1	6.532	0	1589	36	1.5
49200.0	10000	41.5652	92.1439	24	QK	1.6	-2	6.7	-1	1.0	-1	0.244	-1	1.656	-1	6.795	0	1595	51	1.5
49200.1	10000	41.5658	92.1438	23	QK	1.4	-2	6.8	-1	1.0	-1	0.207	-2	1.486	-2	7.184	1	1587	51	1.5
49200.2	10000	41.5665	92.1438	21	QK	1.7	-2	6.7	-1	0.9	-2	0.259	-1	1.838	-1	7.103	1	1583	48	1.5
49200.3	10000	41.5671	92.1438	19	QK	1.9	-1	7.0	0	0.9	-2	0.278	-1	2.131	0	7.656	2	1593	41	1.5
49200.4	10000	41.5677	92.1438	17	QK	1.9	-1	6.6	-1	0.9	-2	0.286	-1	2.032	0	7.113	1	1602	44	1.5
49200.5	10000	41.5684	92.1438	15	QK	2.0	-1	6.9	0	0.9	-2	0.291	-1	2.159	0	7.411	1	1616	50	1.5
49200.6	10000	41.5690	92.1438	13	QK	2.4	0	6.9	0	0.9	-2	0.342	0	2.673	1	7.822	2	1625	48	1.5
49200.7	10000	41.5696	92.1438	11	QK	2.4	0	6.9	0	0.9	-2	0.351	0	2.720	1	7.746	2	1637	43	1.5
49200.8	10000	41.5703	92.1438	10	QK	2.8	0	6.7	-1	0.9	-2	0.411	1	3.046	2	7.407	1	1645	40	1.5
49200.9	10000	41.5709	92.1437	7	QK	2.7	0	6.6	-1	0.9	-2	0.416	1	2.962	1	7.124	1	1637	46	1.5
49201.0	10000	41.5715	92.1437	4	QK	2.7	0	6.1	-2	0.9	-2	0.443	1	2.901	1	6.554	0	1617	31	1.5
49201.1	10000	41.5722	92.1437	1	QK	2.8	0	6.7	-1	0.9	-2	0.413	1	2.999	2	7.265	1	1609	38	1.5
49201.2	10000	41.5728	92.1437	-2	QK	2.8	1	6.8	-1	1.0	-1	0.413	1	2.866	1	6.937	1	1607	43	1.5
49201.3	10000	41.5734	92.1437	-5	QK	2.5	0	6.6	-1	1.0	-1	0.375	0	2.451	0	6.532	0	1614	46	1.5
49201.4	10000	41.5741	92.1437	-9	QK	2.3	-1	6.4	-1	1.0	-1	0.353	0	2.198	0	6.224	0	1618	45	1.5
49201.5	10000	41.5747	92.1437	-12	QK	2.3	-1	6.7	-1	1.0	-1	0.334	0	2.219	0	6.641	0	1622	42	1.5
49201.6	10000	41.5753	92.1437	-16	QK	2.1	-1	6.8	-1	1.0	-1	0.306	-1	2.021	-1	6.602	0	1637	47	1.5
49201.7	10000	41.5759	92.1436	-20	QK	2.0	-1	7.0	0	1.0	-1	0.283	-1	1.965	-1	6.957	-1	1653	49	1.4
49201.8	10000	41.5766	92.1436	-23	QK	1.9	-1	6.8	-1	1.0	-1	0.273	-1	1.842	-1	6.751	-1	1680	46	1.4
49201.9	10000	41.5772	92.1436	-29	QK	1.9	-1	6.8	-1	1.0	-1	0.280	-1	1.854	-1	6.611	0	1720	38	1.4
49202.0	10000	41.5778	92.1436	-35	QK	2.1	-1	6.8	-1	1.1	-1	0.308	-1	1.978	-1	6.429	0	1741	39	1.4
49202.1	10000	41.5785	92.1436	-39	QK	2.4	0	7.2	0	1.1	-1	0.332	0	2.260	0	6.808	0	1759	36	1.4
49202.2	10000	41.5791	92.1436	-42	QK	2.3	0	6.9	0	1.1	0	0.333	0	2.104	0	6.319	0	1775	39	1.4
49202.3	10000	41.5797	92.1436	-45	QK	2.4	0	6.8	-1	1.1	0	0.349	0	2.121	0	6.077	-1	1765	36	1.4
49202.4	10000	41.5804	92.1436	-48	QK	2.4	0	6.8	-1	1.2	0	0.355	0	2.092	0	5.896	-1	1774	43	1.4
49202.5	10000	41.5810	92.1435	-51	QK	2.3	0	6.8	-1	1.2	0	0.344	0	1.975	-1	5.749	-1	1766	42	1.4
49202.6	10000	41.5816	92.1435	-55	QK	2.2	-1	6.6	-1	1.2	0	0.329	0	1.857	-1	5.642	-1	1723	47	1.4
49202.7	10000	41.5823	92.1435	-58	QK	2.3	0	6.7	-1	1.1	0	0.343	0	2.006	-1	5.844	-1	1693	39	1.4
49202.8	10000	41.5829	92.1435	-60	QK	2.0	-1	6.5	-1	1.1	0	0.311	-1	1.801	-1	5.793	-1	1685	42	1.4
49202.9	10000	41.5835	92.1435	-64	QK	2.3	-1	6.4	-1	1.1	-1	0.352	0	2.128	0	6.040	-1	1685	45	1.4
49203.0	10000	41.5842	92.1435	-67	QK	2.4	0	6.6	-1	1.0	-1	0.357	0	2.258	0	6.331	0	1703	28	1.4
49203.1	10000	41.5848	92.1435	-70	QK	2.3	0	6.9	0	1.1	0	0.332	0	2.082	0	6.271	0	1730	32	1.4
49203.2	10000	41.5854	92.1434	-72	QK	2.3	0	7.2	0	1.1	0	0.321	0	2.094	0	6.519	0	1747	48	1.4

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49203.3	10000	41.5861	92.1434	-74	QK	2.4	0	7.4	0	1.1	0	0.325	0	2.197	0	6.770	0	1773	39	1.4
49203.4	10000	41.5867	92.1434	-76	QK	2.2	-1	7.1	0	1.1	0	0.312	-1	2.029	-1	6.497	0	1766	53	1.4
49203.5	10000	41.5873	92.1434	-77	QK	2.3	0	6.9	-1	1.1	0	0.337	0	2.123	0	6.304	0	1718	49	1.4
49203.6	10000	41.5880	92.1434	-79	QK	2.0	-1	6.6	-1	1.1	0	0.301	-1	1.826	-1	6.059	-1	1658	36	1.4
49203.7	10000	41.5886	92.1434	-80	QK	2.0	-1	6.2	-1	1.0	-1	0.321	0	1.941	-1	6.054	-1	1605	48	1.4
49203.8	10000	41.5892	92.1434	-81	QK	2.0	-1	5.8	-2	1.0	-1	0.352	0	2.121	0	6.032	-1	1549	44	1.4
49203.9	10000	41.5899	92.1434	-82	QK	2.1	-1	5.6	-2	0.9	-2	0.383	0	2.330	0	6.087	-1	1502	39	1.4
49204.0	10000	41.5905	92.1434	-83	QK	2.0	-1	5.3	-3	0.9	-2	0.382	0	2.247	0	5.875	-1	1467	38	1.4
49204.1	10000	41.5911	92.1433	-84	QK	2.0	-1	5.2	-3	0.9	-2	0.391	1	2.308	0	5.900	-1	1464	48	1.4
49204.2	10000	41.5918	92.1433	-86	QK	2.2	-1	5.3	-3	0.9	-2	0.424	1	2.430	0	5.727	-1	1502	41	1.4
49204.3	10000	41.5924	92.1433	-88	QK	2.2	-1	5.5	-2	0.9	-1	0.407	1	2.361	0	5.803	-1	1555	40	1.4
49204.4	10000	41.5930	92.1433	-90	QK	2.1	-1	6.0	-2	1.0	-1	0.356	0	2.137	0	6.010	-1	1605	41	1.4
49204.5	10000	41.5937	92.1433	-92	QK	2.1	-1	6.1	-1	1.0	-1	0.341	0	2.114	0	6.200	0	1632	41	1.4
49204.6	10000	41.5943	92.1433	-94	QK	2.2	-1	6.2	-1	1.0	-1	0.355	0	2.189	0	6.171	0	1663	52	1.4
49204.7	10000	41.5949	92.1433	-95	QK	2.3	-1	6.1	-2	1.1	-1	0.361	0	2.083	0	5.770	-1	1694	22	1.4
49204.8	10000	41.5956	92.1432	-96	QK	2.3	0	6.9	0	1.1	0	0.357	0	2.244	0	6.282	0	1723	45	1.4
49204.9	10000	41.5962	92.1432	-97	QK	2.4	0	6.9	0	1.1	0	0.346	0	2.234	0	6.459	0	1711	42	1.4
49205.0	10000	41.5968	92.1432	-98	QK	2.4	0	7.0	0	1.1	-1	0.342	0	2.274	0	6.645	0	1701	44	1.4
49205.1	10000	41.5975	92.1432	-99	QK	2.5	0	6.9	0	1.0	-1	0.368	0	2.481	0	6.746	0	1679	54	1.4
49205.2	10000	41.5981	92.1432	-100	QK	2.5	0	6.5	-1	1.0	-1	0.393	1	2.562	1	6.520	0	1661	32	1.4
49205.3	10000	41.5987	92.1432	-101	QK	2.4	0	6.1	-1	0.9	-2	0.392	1	2.589	1	6.598	0	1636	46	1.4
49205.4	10000	41.5994	92.1432	-102	QK	2.7	0	6.3	-1	0.9	-2	0.425	1	3.049	2	7.171	1	1630	54	1.4
49205.5	10000	41.6000	92.1432	-103	QK	2.5	0	5.7	-2	0.9	-2	0.427	1	2.802	1	6.563	0	1632	36	1.4
49205.6	10000	41.6006	92.1431	-104	QK	2.5	0	5.7	-2	0.9	-2	0.446	1	2.917	1	6.539	0	1651	48	1.4
49205.7	10000	41.6013	92.1431	-105	QK	2.7	0	5.8	-2	0.9	-1	0.474	2	2.910	1	6.143	0	1668	34	1.4
49205.8	10000	41.6019	92.1431	-107	QAL	2.6	0	5.7	-1	1.0	-1	0.459	1	2.649	1	5.771	0	1679	42	1.4
49205.9	10000	41.6025	92.1431	-109	QAL	2.9	1	5.8	-1	1.0	0	0.499	1	2.751	1	5.518	-1	1694	39	1.4
49206.0	10000	41.6032	92.1431	-111	QAL	2.9	1	6.0	-1	1.1	0	0.495	1	2.640	1	5.335	-1	1726	42	1.4
49206.1	10000	41.6038	92.1431	-114	QAL	2.6	0	6.0	0	1.1	0	0.435	1	2.322	1	5.339	-1	1718	35	1.4
49206.2	10000	41.6044	92.1431	-116	QAL	2.6	0	6.6	0	1.1	0	0.391	0	2.349	0	6.008	0	1696	44	1.4
49206.3	10000	41.6051	92.1431	-117	QAL	2.2	0	7.2	1	1.1	1	0.313	-1	2.022	-1	6.462	0	1677	49	1.4
49206.4	10000	41.6057	92.1431	-119	QAL	2.1	-1	7.1	1	1.1	1	0.294	-1	1.970	-1	6.691	1	1658	47	1.5
49206.5	10000	41.6063	92.1430	-119	QAL	2.3	0	7.4	1	1.1	1	0.306	-1	2.156	0	7.039	1	1662	40	1.5
49206.6	10000	41.6070	92.1430	-121	QAL	2.0	-1	7.6	1	1.1	1	0.262	-1	1.927	-1	7.344	2	1674	41	1.5
49206.7	10000	41.6076	92.1430	-123	QAL	1.8	-1	7.3	1	1.1	0	0.247	-2	1.731	-1	7.021	1	1663	46	1.5
49206.8	10000	41.6082	92.1430	-124	QAL	1.9	-1	7.3	1	1.1	0	0.255	-1	1.802	-1	7.069	1	1682	40	1.5
49206.9	10000	41.6089	92.1430	-125	QAL	2.2	0	7.5	1	1.1	1	0.299	-1	2.058	0	6.887	1	1701	34	1.5
49207.0	10000	41.6095	92.1430	-127	QAL	2.5	0	6.9	0	1.1	1	0.358	0	2.221	0	6.209	0	1742	38	1.5
49207.1	10000	41.6101	92.1430	-128	QAL	2.4	0	6.9	0	1.1	1	0.348	0	2.159	0	6.202	0	1753	39	1.5
49207.2	10000	41.6108	92.1429	-130	QK	2.3	0	6.8	-1	1.1	1	0.338	0	2.033	0	6.020	-1	1763	41	1.5
49207.3	10000	41.6114	92.1429	-130	QK	2.4	0	6.7	-1	1.1	1	0.355	0	2.114	0	5.950	-1	1762	34	1.5
49207.4	10000	41.6120	92.1429	-131	QK	2.4	0	7.2	0	1.1	1	0.341	0	2.122	0	6.229	0	1786	42	1.5
49207.5	10000	41.6127	92.1429	-132	QK	2.5	0	7.0	0	1.1	1	0.361	0	2.208	0	6.116	-1	1799	35	1.5
49207.6	10000	41.6133	92.1429	-132	QK	2.2	-1	6.6	-1	1.1	1	0.333	-1	1.946	-1	5.840	-1	1792	51	1.5
49207.7	10000	41.6139	92.1429	-133	QK	2.2	-1	6.7	-1	1.1	1	0.336	0	2.034	0	6.054	-1	1767	59	1.5
49207.8	10000	41.6146	92.1429	-134	QK	2.3	0	6.7	-1	1.1	1	0.342	0	2.077	0	6.077	-1	1752	45	1.5
49207.9	10000	41.6152	92.1429	-137	QK	2.4	0	6.8	-1	1.1	1	0.355	0	2.176	0	6.138	0	1733	48	1.5
49208.0	10000	41.6158	92.1428	-140	QK	2.3	0	6.4	-1	1.1	1	0.356	0	2.079	0	5.837	-1	1721	36	1.5
49208.1	10000	41.6165	92.1428	-141	QK	2.5	0	5.8	-2	1.1	1	0.429	1	2.341	0	5.458	-1	1695	35	1.5
49208.2	10000	41.6171	92.1428	-143	QK	2.4	0	6.0	-2	1.1	1	0.410	1	2.280	0	5.561	-1	1665	38	1.5
49208.3	10000	41.6177	92.1428	-144	QK	2.6	0	5.9	-2	1.0	-1	0.432	1	2.456	0	5.683	-1	1654	43	1.5
49208.4	10000	41.6184	92.1428	-146	QK	2.4	0	6.1	-2	1.1	0	0.388	1	2.156	0	5.553	-1	1664	41	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49208.5	10000	41.6190	92.1428	-148	QK	2.3	0	5.9	-2	1.1	0	0.390	1	2.091	0	5.355	-2	1691	42	1.5
49208.6	10000	41.6196	92.1428	-149	QK	2.1	-1	6.0	-2	1.1	0	0.348	0	1.860	-1	5.341	-2	1716	44	1.5
49208.7	10000	41.6203	92.1428	-151	QK	2.2	-1	6.2	-1	1.1	0	0.360	0	2.048	0	5.684	-1	1720	42	1.5
49208.8	10000	41.6209	92.1427	-154	QK	1.9	-1	6.4	-1	1.1	0	0.292	-1	1.684	-1	5.776	-1	1730	48	1.5
49208.9	10000	41.6215	92.1427	-157	QK	2.0	-1	6.3	-1	1.1	0	0.324	0	1.897	-1	5.848	-1	1729	49	1.5
49209.0	10000	41.6221	92.1427	-160	QK	1.8	-2	6.5	-1	1.1	0	0.268	-1	1.605	-1	5.989	-1	1726	47	1.5
49209.1	10000	41.6228	92.1427	-163	QK	1.6	-2	6.6	-1	1.1	-1	0.244	-1	1.523	-2	6.243	0	1704	41	1.5
49209.2	10000	41.6234	92.1427	-167	QK	1.6	-2	6.7	-1	1.0	-1	0.235	-2	1.538	-2	6.536	0	1662	34	1.5
49209.3	10000	41.6241	92.1427	-172	QK	1.7	-2	6.6	-1	1.0	-1	0.250	-1	1.652	-1	6.612	0	1636	43	1.5
49209.4	10000	41.6247	92.1427	-177	QK	1.7	-2	6.4	-1	1.0	-1	0.266	-1	1.760	-1	6.611	0	1611	52	1.6
49209.5	10000	41.6253	92.1427	-182	QAL	1.9	-1	6.7	0	0.9	-1	0.281	-1	2.008	-1	7.143	1	1594	43	1.6
49209.6	10000	41.6260	92.1426	-188	QAL	1.7	-1	6.5	0	1.0	-1	0.264	-1	1.788	-1	6.764	1	1600	35	1.6
49209.7	10000	41.6266	92.1426	-195	QAL	2.1	-1	6.3	0	1.0	-1	0.338	0	2.194	0	6.500	0	1618	37	1.6
49209.8	10000	41.6272	92.1426	-202	QAL	2.4	0	6.2	0	1.0	-1	0.385	0	2.454	0	6.378	0	1637	36	1.6
49209.9	10000	41.6279	92.1426	-210	QAL	2.5	0	6.1	0	1.0	-1	0.412	0	2.514	0	6.098	0	1668	38	1.6
49210.0	10000	41.6285	92.1426	-217	QAL	2.7	1	6.2	0	1.0	-1	0.444	1	2.739	1	6.173	0	1685	45	1.6
49210.1	10000	41.6291	92.1426	-223	QK	2.8	0	6.6	-1	1.0	-1	0.418	1	2.671	1	6.384	0	1710	57	1.6
49210.2	10000	41.6298	92.1426	-230	QK	2.8	0	6.9	0	1.0	-1	0.397	1	2.715	1	6.840	1	1716	32	1.6
49210.3	10000	41.6304	92.1425	-240	QK	2.6	0	7.0	0	1.0	-1	0.379	0	2.596	1	6.840	1	1711	27	1.6
49210.4	10000	41.6310	92.1425	-252	QK	2.5	0	6.6	-1	1.0	-1	0.376	0	2.380	0	6.332	0	1699	49	1.6
49210.5	10000	41.6317	92.1425	-261	QK	2.2	-1	6.9	0	1.1	-1	0.317	0	2.077	0	6.543	0	1693	45	1.6
49210.6	10000	41.6323	92.1425	-272	QK	2.2	-1	7.2	0	1.0	-1	0.307	-1	2.161	0	7.027	1	1697	39	1.6
49210.7	10000	41.6329	92.1425	-283	QK	2.1	-1	7.0	0	1.0	-1	0.297	-1	2.032	0	6.840	1	1702	32	1.6
49210.8	10000	41.6336	92.1425	-293	QK	2.0	-1	6.7	-1	1.0	-1	0.299	-1	1.926	-1	6.442	0	1699	41	1.6
49210.9	10000	41.6342	92.1425	-305	QK	2.0	-1	6.2	-1	1.1	0	0.320	0	1.814	-1	5.663	-1	1705	49	1.6
49211.0	10000	41.6348	92.1425	-316	QK	2.2	-1	6.5	-1	1.1	0	0.340	0	2.037	0	5.990	-1	1701	34	1.6
49211.1	10000	41.6354	92.1425	-324	QK	2.0	-1	7.0	0	1.1	0	0.290	-1	1.899	-1	6.558	0	1692	34	1.6
49211.2	10000	41.6361	92.1424	-338	QK	2.2	-1	6.5	-1	1.0	-1	0.340	0	2.100	0	6.183	0	1683	45	1.6
49211.3	10000	41.6367	92.1424	-358	QK	1.9	-1	6.3	-1	1.1	-1	0.298	-1	1.771	-1	5.947	-1	1650	48	1.6
49211.4	10000	41.6373	92.1424	-372	QK	1.7	-2	6.3	-1	1.1	0	0.264	-1	1.540	-2	5.836	-1	1634	48	1.6
49211.5	10000	41.6380	92.1424	-388	QK	1.4	-2	6.6	-1	1.1	0	0.209	-2	1.255	-2	6.016	-1	1619	43	1.6
49211.6	10000	41.6386	92.1424	-403	QK	1.3	-2	6.6	-1	1.0	-1	0.202	-2	1.267	-2	6.256	0	1601	39	1.6
49211.7	10000	41.6393	92.1424	-420	QK	1.2	-3	6.7	-1	1.1	0	0.181	-2	1.133	-2	6.242	0	1604	39	1.6
49211.8	10000	41.6399	92.1424	-437	QK	1.2	-3	6.4	-1	1.1	0	0.179	-2	1.083	-2	6.040	-1	1579	51	1.6
49211.9	10000	41.6405	92.1423	-456	QK	1.2	-3	6.5	-1	1.0	-1	0.181	-2	1.176	-2	6.489	0	1560	27	1.6
49212.0	10000	41.6411	92.1423	-475	QK	1.4	-2	6.9	0	1.0	-1	0.207	-2	1.456	-2	7.021	1	1561	44	1.6
49212.1	10000	41.6418	92.1423	-492	QK	1.7	-2	6.9	0	0.9	-2	0.242	-2	1.784	-1	7.386	1	1560	55	1.6
49212.2	10000	41.6424	92.1423	-509	QK	2.0	-1	6.9	-1	0.9	-2	0.291	-1	2.305	0	7.923	2	1584	45	1.6
49212.3	10000	41.6431	92.1423	-529	QK	2.2	-1	7.1	0	0.9	-2	0.312	-1	2.465	0	7.898	2	1600	47	1.7
49212.4	10000	41.6437	92.1423	-551	QK	2.0	-1	7.0	0	0.9	-2	0.288	-1	2.197	0	7.617	2	1597	43	1.7
49212.5	10000	41.6443	92.1423	-570	QK	2.2	-1	7.0	0	0.9	-2	0.308	-1	2.360	0	7.658	2	1615	36	1.7
49212.6	10000	41.6450	92.1423	-589	QK	1.9	-1	7.2	0	1.0	-1	0.264	-1	1.958	-1	7.412	1	1632	39	1.7
49212.7	10000	41.6456	92.1423	-607	QK	1.9	-1	6.7	-1	1.0	-1	0.289	-1	1.942	-1	6.722	0	1668	50	1.7
49212.8	10000	41.6462	92.1423	-626	QK	2.0	-1	6.7	-1	1.0	-1	0.297	-1	1.925	-1	6.478	0	1692	49	1.7
49212.9	10000	41.6469	92.1423	-643	QK	2.0	-1	6.8	-1	1.1	0	0.291	-1	1.787	-1	6.145	0	1713	39	1.7
49213.0	10000	41.6475	92.1423	-661	QK	2.2	-1	6.6	-1	1.1	0	0.331	0	1.966	-1	5.931	-1	1755	59	1.7
49213.1	10000	41.6482	92.1423	-678	QK	2.5	0	6.7	-1	1.1	0	0.366	0	2.264	0	6.188	0	1784	37	1.7
49213.2	10000	41.6488	92.1423	-695	QK	2.6	0	7.0	0	1.1	0	0.373	0	2.363	0	6.331	0	1822	49	1.7
49213.3	10000	41.6494	92.1423	-711	QK	3.0	1	7.1	0	1.1	0	0.416	1	2.609	1	6.276	0	1858	43	1.7
49213.4	10000	41.6501	92.1423	-728	QK	3.0	1	7.4	0	1.1	0	0.404	1	2.676	1	6.631	0	1856	47	1.7
49213.5	10000	41.6507	92.1422	-744	QK	3.0	1	7.4	0	1.1	0	0.404	1	2.659	1	6.578	0	1852	41	1.7
49213.6	10000	41.6514	92.1422	-759	QK	3.0	1	7.1	0	1.1	-1	0.420	1	2.835	1	6.753	0	1834	44	1.7

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49213.7	10000	41.6520	92.1422	-774	QK	2.7	0	7.1	0	1.1	-1	0.377	0	2.546	1	6.746	0	1806	60	1.7
49213.8	10000	41.6526	92.1422	-789	QK	2.6	0	7.2	0	1.0	-1	0.356	0	2.464	0	6.926	1	1779	47	1.7
49213.9	10000	41.6533	92.1422	-802	QK	2.7	0	6.9	0	1.0	-1	0.387	1	2.559	1	6.606	0	1774	54	1.7
49214.0	10000	41.6539	92.1422	-815	QK	2.6	0	6.7	-1	1.0	-1	0.385	0	2.566	1	6.659	0	1743	40	1.7
49214.1	10000	41.6546	92.1422	-826	QK	2.6	0	6.6	-1	1.0	-1	0.390	1	2.575	1	6.595	0	1744	47	1.7
49214.2	10000	41.6552	92.1422	-838	QK	2.6	0	6.7	-1	1.0	-1	0.387	0	2.616	1	6.764	0	1758	32	1.7
49214.3	10000	41.6558	92.1422	-849	QK	2.5	0	6.8	-1	1.0	-1	0.363	0	2.399	0	6.614	0	1770	46	1.6
49214.4	10000	41.6565	92.1422	-859	QK	2.6	0	7.1	0	1.1	-1	0.366	0	2.460	0	6.720	0	1780	35	1.6
49214.5	10000	41.6571	92.1422	-869	QK	2.8	1	7.1	0	1.1	0	0.389	1	2.590	1	6.657	0	1825	45	1.6
49214.6	10000	41.6577	92.1422	-878	QK	2.8	1	7.3	0	1.1	0	0.383	0	2.566	1	6.702	0	1822	45	1.6
49214.7	10000	41.6584	92.1422	-885	QK	2.8	1	7.6	1	1.1	0	0.366	0	2.592	1	7.083	1	1824	48	1.6
49214.8	10000	41.6590	92.1422	-891	QK	2.8	1	7.6	0	1.1	0	0.367	0	2.538	1	6.919	1	1829	39	1.6
49214.9	10000	41.6597	92.1422	-895	QK	2.8	1	7.8	1	1.1	0	0.367	0	2.636	1	7.173	1	1816	38	1.6
49215.0	10000	41.6603	92.1422	-898	QK	2.9	1	7.8	1	1.1	0	0.368	0	2.554	1	6.948	1	1820	41	1.6
49215.1	10000	41.6609	92.1422	-906	QK	2.6	0	7.7	1	1.1	0	0.344	0	2.314	0	6.719	0	1820	52	1.6
49215.2	10000	41.6616	92.1422	-915	QK	2.4	0	7.8	1	1.2	0	0.310	-1	2.070	0	6.672	0	1798	37	1.6
49215.3	10000	41.6622	92.1422	-920	QK	2.4	0	7.8	1	1.2	1	0.302	-1	1.952	-1	6.460	0	1811	28	1.6
49215.4	10000	41.6629	92.1421	-924	QK	2.3	0	7.5	0	1.2	1	0.304	-1	1.837	-1	6.053	-1	1829	44	1.6
49215.5	10000	41.6635	92.1421	-927	QK	2.5	0	7.5	0	1.3	1	0.331	0	1.986	-1	5.992	-1	1845	44	1.6
49215.6	10000	41.6641	92.1421	-930	QK	2.4	0	7.7	1	1.3	1	0.310	-1	1.853	-1	5.975	-1	1853	34	1.6
49215.7	10000	41.6648	92.1421	-932	QK	2.6	0	7.7	1	1.3	1	0.333	0	1.971	-1	5.922	-1	1856	47	1.6
49215.8	10000	41.6654	92.1421	-933	QK	2.7	0	7.6	1	1.2	1	0.356	0	2.191	0	6.158	0	1864	48	1.6
49215.9	10000	41.6660	92.1421	-935	QK	2.8	1	7.6	1	1.2	1	0.372	0	2.304	0	6.187	0	1874	39	1.6
49216.0	10000	41.6667	92.1421	-935	QK	2.7	0	7.5	0	1.2	1	0.362	0	2.278	0	6.293	0	1872	40	1.6
49216.1	10000	41.6673	92.1421	-936	QK	2.8	1	7.7	1	1.2	1	0.371	0	2.393	0	6.454	0	1864	47	1.6
49216.2	10000	41.6680	92.1421	-936	QK	2.9	1	7.6	1	1.2	1	0.379	0	2.436	0	6.424	0	1856	44	1.6
49216.3	10000	41.6686	92.1421	-935	QK	3.0	1	7.6	1	1.2	1	0.432	1	2.590	1	5.991	-1	1839	38	1.6
49216.4	10000	41.6692	92.1421	-934	QK	2.8	1	7.0	-1	1.1	1	0.413	1	2.516	1	6.092	-1	1828	40	1.6
49216.5	10000	41.6699	92.1421	-933	QK	2.8	1	7.3	-1	1.1	1	0.390	1	2.493	1	6.397	0	1826	49	1.6
49216.6	10000	41.6705	92.1421	-931	QK	2.8	1	6.8	-1	1.1	1	0.415	1	2.467	1	5.941	-1	1816	36	1.6
49216.7	10000	41.6712	92.1421	-931	QK	2.8	1	7.1	0	1.2	1	0.400	0	2.429	0	6.072	-1	1814	49	1.6
49216.8	10000	41.6718	92.1421	-929	QK	2.7	1	7.0	0	1.2	1	0.377	0	2.261	0	5.991	-1	1823	47	1.6
49216.9	10000	41.6724	92.1421	-927	QK	2.3	1	7.1	0	1.2	1	0.323	-1	1.915	-1	5.932	-1	1819	53	1.6
49217.0	10000	41.6731	92.1421	-926	QK	2.4	1	7.2	0	1.3	1	0.329	-1	1.860	-1	5.654	-1	1857	48	1.6
49217.1	10000	41.6737	92.1420	-923	QK	2.7	1	7.5	0	1.3	1	0.363	-1	2.113	-1	5.824	-1	1887	43	1.6
49217.2	10000	41.6744	92.1420	-920	QK	2.4	1	7.2	0	1.3	1	0.337	-1	1.875	-1	5.557	-1	1872	41	1.6
49217.3	10000	41.6750	92.1420	-917	QK	2.6	1	7.5	0	1.3	1	0.351	-1	1.956	-1	5.581	-1	1880	44	1.6
49217.4	10000	41.6756	92.1420	-914	QK	2.6	1	7.6	0	1.3	1	0.345	-1	1.998	-1	5.785	-1	1886	35	1.6
49217.5	10000	41.6763	92.1420	-911	QK	2.6	1	7.4	0	1.3	1	0.348	-1	1.952	-1	5.603	-1	1876	61	1.6
49217.6	10000	41.6769	92.1420	-908	QK	3.0	1	7.6	1	1.3	1	0.392	0	2.231	0	5.692	-1	1882	57	1.6
49217.7	10000	41.6776	92.1420	-905	QK	2.8	1	7.8	1	1.3	1	0.363	0	2.205	0	6.073	-1	1865	29	1.5
49217.8	10000	41.6782	92.1420	-902	QK	2.6	1	7.9	1	1.3	1	0.325	-1	2.028	-1	6.248	0	1840	37	1.5
49217.9	10000	41.6788	92.1420	-898	QK	2.8	1	8.4	1	1.3	1	0.335	0	2.224	0	6.646	0	1857	40	1.5
49218.0	10000	41.6795	92.1420	-895	QK	2.7	1	8.5	1	1.2	1	0.321	0	2.227	0	6.926	1	1861	36	1.5
49218.1	10000	41.6801	92.1420	-892	QK	2.8	1	8.6	1	1.2	1	0.328	0	2.351	0	7.157	1	1862	46	1.5
49218.2	10000	41.6808	92.1420	-889	QK	2.6	1	8.8	1	1.2	1	0.299	-1	2.187	-1	7.304	1	1874	43	1.5
49218.3	10000	41.6814	92.1420	-886	QK	2.3	1	8.5	1	1.2	1	0.270	-1	1.906	-1	7.064	1	1876	47	1.5
49218.4	10000	41.6820	92.1420	-883	QK	2.2	1	8.6	1	1.2	1	0.267	-1	1.903	-1	7.140	1	1873	41	1.5
49218.5	10000	41.6827	92.1420	-879	QK	2.1	1	8.4	1	1.2	1	0.265	-1	1.837	-1	6.935	1	1872	54	1.5
49218.6	10000	41.6833	92.1420	-877	QK	2.1	1	7.8	1	1.2	1	0.275	-1	1.804	-1	6.558	0	1864	48	1.5
49218.7	10000	41.6839	92.1420	-874	QK	2.1	1	7.4	1	1.2	1	0.288	-1	1.876	-1	6.509	0	1843	39	1.5
49218.8	10000	41.6846	92.1420	-870	QK	2.3	-1	6.9	0	1.1	0	0.328	0	1.979	-1	6.034	-1	1820	57	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49218.9	10000	41.6852	92.1420	-867	QK	2.7	0	7.0	0	1.1	0	0.392	1	2.513	1	6.412	0	1793	43	1.5
49219.0	10000	41.6859	92.1420	-864	QK	2.9	1	7.2	0	1.0	-1	0.400	1	2.840	1	7.093	1	1778	48	1.5
49219.1	10000	41.6865	92.1419	-860	QK	2.9	1	7.3	0	1.0	-1	0.403	1	2.938	1	7.288	1	1778	41	1.5
49219.2	10000	41.6871	92.1419	-856	QK	3.1	1	7.2	0	1.0	-1	0.427	1	3.162	2	7.401	1	1777	36	1.5
49219.3	10000	41.6878	92.1419	-853	QK	3.1	1	7.3	0	1.0	-1	0.427	1	3.077	2	7.207	1	1789	43	1.5
49219.4	10000	41.6884	92.1419	-850	QK	3.3	2	7.5	0	1.0	-1	0.432	1	3.129	2	7.242	1	1823	46	1.5
49219.5	10000	41.6890	92.1419	-848	QK	3.2	1	8.1	1	1.1	0	0.388	1	2.931	1	7.558	2	1850	38	1.5
49219.6	10000	41.6897	92.1419	-845	QK	3.0	1	8.0	1	1.2	0	0.376	0	2.602	1	6.928	1	1889	39	1.5
49219.7	10000	41.6903	92.1419	-843	QK	2.9	1	8.0	1	1.2	1	0.361	0	2.423	0	6.706	0	1894	46	1.5
49219.8	10000	41.6910	92.1419	-840	QK	2.6	0	8.1	1	1.2	1	0.321	0	2.165	0	6.750	0	1888	43	1.5
49219.9	10000	41.6916	92.1419	-838	QK	2.5	0	7.8	1	1.2	1	0.318	0	2.028	-1	6.385	0	1883	44	1.5
49220.0	10000	41.6923	92.1419	-835	QK	2.5	0	7.7	1	1.2	1	0.318	0	2.088	0	6.567	0	1840	37	1.5
49220.1	10000	41.6929	92.1419	-832	QK	2.4	0	7.5	0	1.1	0	0.320	0	2.141	0	6.688	0	1796	37	1.5
49220.2	10000	41.6935	92.1419	-830	QK	2.4	0	6.8	-1	1.0	-1	0.356	0	2.317	0	6.510	0	1764	40	1.5
49220.3	10000	41.6942	92.1419	-828	QK	2.7	0	6.9	-1	1.0	-1	0.386	0	2.736	1	7.090	1	1733	46	1.5
49220.4	10000	41.6948	92.1419	-828	QK	2.7	0	6.8	-1	0.9	-1	0.395	1	2.841	1	7.191	1	1732	38	1.5
49220.5	10000	41.6954	92.1419	-825	QK	3.0	1	6.5	-1	0.9	-2	0.460	2	3.254	2	7.079	1	1728	46	1.5
49220.6	10000	41.6961	92.1419	-823	QK	3.1	1	7.0	0	0.9	-2	0.443	2	3.486	3	7.862	2	1726	42	1.5
49220.7	10000	41.6967	92.1419	-820	QK	3.0	1	7.0	0	0.9	-2	0.429	1	3.279	2	7.641	2	1767	32	1.5
49220.8	10000	41.6974	92.1418	-817	QK	2.9	1	7.3	0	1.0	-1	0.401	1	2.856	1	7.124	1	1799	44	1.5
49220.9	10000	41.6980	92.1418	-814	QK	2.7	0	7.8	1	1.1	0	0.351	0	2.516	1	7.161	1	1808	52	1.5
49221.0	10000	41.6986	92.1418	-812	QK	2.3	0	7.6	1	1.1	0	0.305	-1	2.089	1	6.854	1	1825	48	1.5
49221.1	10000	41.6993	92.1418	-810	QK	2.5	0	7.6	0	1.1	0	0.336	0	2.281	0	6.782	0	1827	47	1.5
49221.2	10000	41.6999	92.1418	-808	QK	2.6	0	7.6	0	1.2	0	0.344	0	2.210	0	6.425	0	1842	42	1.5
49221.3	10000	41.7006	92.1418	-806	QK	2.9	1	7.1	0	1.2	0	0.402	1	2.444	0	6.073	-1	1855	45	1.5
49221.4	10000	41.7012	92.1418	-805	QK	2.8	1	7.2	0	1.2	0	0.391	1	2.367	0	6.055	-1	1860	40	1.5
49221.5	10000	41.7018	92.1418	-803	QK	2.8	1	7.2	0	1.2	0	0.385	1	2.368	0	6.147	0	1849	41	1.5
49221.6	10000	41.7025	92.1418	-801	QK	2.9	1	7.0	0	1.2	0	0.413	1	2.476	0	5.997	-1	1867	36	1.5
49221.7	10000	41.7031	92.1418	-800	QK	3.0	1	7.3	0	1.2	1	0.405	1	2.474	0	6.104	-1	1876	32	1.5
49221.8	10000	41.7037	92.1418	-798	QK	2.8	1	7.4	0	1.2	0	0.374	0	2.259	0	6.036	-1	1879	47	1.5
49221.9	10000	41.7044	92.1418	-796	QK	2.5	1	7.9	1	1.2	0	0.310	-1	2.095	0	6.747	0	1873	52	1.5
49222.0	10000	41.7050	92.1418	-794	QK	2.1	-1	8.1	1	1.3	0	0.260	-1	1.670	-1	6.418	0	1894	49	1.5
49222.1	10000	41.7057	92.1418	-793	QK	2.1	-1	8.1	1	1.3	0	0.265	-1	1.658	-1	6.258	0	1895	41	1.5
49222.2	10000	41.7063	92.1418	-791	QK	2.0	-1	8.2	1	1.3	0	0.248	-1	1.551	-2	6.253	0	1896	44	1.5
49222.3	10000	41.7069	92.1418	-790	QK	1.8	-1	8.5	2	1.4	0	0.214	-2	1.346	-2	6.277	0	1883	46	1.5
49222.4	10000	41.7076	92.1418	-788	QK	1.9	-1	8.6	2	1.3	0	0.225	-2	1.465	-2	6.498	0	1869	51	1.5
49222.5	10000	41.7082	92.1418	-786	QK	1.9	-1	8.7	2	1.3	0	0.219	-2	1.468	-2	6.705	0	1866	40	1.5
49222.6	10000	41.7089	92.1418	-785	QK	2.0	-1	8.5	2	1.3	0	0.235	-2	1.518	-2	6.457	0	1858	46	1.5
49222.7	10000	41.7095	92.1418	-783	QK	2.3	0	8.5	2	1.3	1	0.270	-1	1.811	-1	6.719	0	1841	48	1.5
49222.8	10000	41.7101	92.1417	-782	QK	2.4	0	8.4	2	1.3	1	0.289	-1	1.930	-1	6.686	0	1821	40	1.5
49222.9	10000	41.7108	92.1417	-780	QK	2.6	0	8.4	2	1.2	1	0.310	-1	2.124	0	6.855	1	1827	40	1.5
49223.0	10000	41.7114	92.1417	-779	QK	2.7	0	8.5	2	1.2	1	0.323	0	2.301	0	7.130	1	1831	49	1.5
49223.1	10000	41.7120	92.1417	-777	QK	2.7	0	8.4	2	1.2	1	0.326	0	2.245	0	6.889	1	1846	47	1.5
49223.2	10000	41.7127	92.1417	-776	QK	2.7	0	8.0	1	1.2	1	0.331	0	2.158	0	6.514	1	1848	33	1.5
49223.3	10000	41.7133	92.1417	-774	QK	3.0	1	7.7	1	1.2	1	0.387	0	2.450	0	6.336	0	1854	48	1.5
49223.4	10000	41.7140	92.1417	-773	QK	2.7	0	7.8	1	1.2	1	0.346	0	2.266	0	6.556	0	1827	41	1.5
49223.5	10000	41.7146	92.1417	-770	QK	2.5	0	7.6	1	1.1	0	0.325	0	2.160	0	6.657	0	1819	36	1.5
49223.6	10000	41.7152	92.1417	-767	QK	2.4	0	7.8	1	1.1	0	0.308	-1	2.112	0	6.851	1	1814	55	1.5
49223.7	10000	41.7159	92.1417	-762	QK	2.5	0	7.4	1	1.2	0	0.337	0	2.135	0	6.344	0	1822	40	1.5
49223.8	10000	41.7165	92.1417	-760	QK	2.5	0	7.1	0	1.1	0	0.352	0	2.176	0	6.188	0	1817	46	1.5
49223.9	10000	41.7172	92.1417	-766	QK	2.7	0	7.3	0	1.2	0	0.370	0	2.333	0	6.311	0	1824	50	1.5
49224.0	10000	41.7178	92.1417	-765	QK	2.4	0	7.6	0	1.2	0	0.320	0	2.056	0	6.435	0	1824	44	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49224.1	10000	41.7184	92.1417	-764	QK	2.6	0	7.2	0	1.2	1	0.365	0	2.133	0	5.849	-1	1846	48	1.5
49224.2	10000	41.7191	92.1417	-762	QK	2.9	1	7.1	0	1.2	1	0.403	1	2.336	0	5.793	-1	1844	45	1.5
49224.3	10000	41.7197	92.1417	-760	QK	2.8	1	7.0	0	1.2	1	0.396	1	2.256	0	5.701	-1	1846	44	1.5
49224.4	10000	41.7204	92.1416	-759	QK	2.7	0	6.8	-1	1.2	1	0.391	1	2.219	0	5.674	-1	1833	48	1.5
49224.5	10000	41.7210	92.1416	-758	QK	2.8	1	6.8	-1	1.2	1	0.413	1	2.382	0	5.772	-1	1816	37	1.5
49224.6	10000	41.7216	92.1416	-757	QK	2.5	0	7.1	0	1.1	0	0.355	0	2.194	0	6.171	0	1792	34	1.5
49224.7	10000	41.7223	92.1416	-756	QK	2.3	-1	6.8	-1	1.1	0	0.333	0	1.975	-1	5.933	-1	1775	44	1.5
49224.8	10000	41.7229	92.1416	-755	QK	2.2	-1	7.1	0	1.1	0	0.312	-1	2.041	0	6.534	0	1769	35	1.5
49224.9	10000	41.7235	92.1416	-754	QL	2.2	-1	7.1	0	1.0	-1	0.315	-1	2.150	0	6.821	1	1772	49	1.5
49225.0	10000	41.7242	92.1416	-752	QL	2.2	-1	7.1	0	1.0	-2	0.316	-1	2.251	0	7.118	2	1752	52	1.5
49225.1	10000	41.7248	92.1416	-751	QL	2.3	-1	7.8	1	0.9	-3	0.294	-1	2.488	1	8.476	4	1732	52	1.5
49225.2	10000	41.7255	92.1416	-751	QL	2.3	-1	8.0	1	0.9	-3	0.293	-1	2.519	1	8.612	4	1744	48	1.5
49225.3	10000	41.7261	92.1416	-750	QL	2.4	0	7.5	0	0.9	-2	0.317	-1	2.528	1	7.974	3	1756	50	1.5
49225.4	10000	41.7267	92.1416	-750	QL	2.6	0	7.5	0	0.9	-2	0.339	0	2.728	1	8.044	3	1761	35	1.6
49225.5	10000	41.7274	92.1416	-749	QL	2.4	0	7.6	1	1.0	-2	0.310	-1	2.490	1	8.031	3	1739	34	1.6
49225.6	10000	41.7280	92.1416	-749	QL	2.2	-1	7.6	1	1.0	-2	0.291	-1	2.241	0	7.708	3	1713	37	1.6
49225.7	10000	41.7287	92.1416	-749	QL	2.2	-1	7.4	0	1.0	-2	0.300	-1	2.158	0	7.203	2	1696	39	1.6
49225.8	10000	41.7293	92.1416	-749	QL	2.1	-1	6.9	-1	1.1	-1	0.305	-1	1.937	-1	6.352	0	1681	36	1.6
49225.9	10000	41.7299	92.1416	-749	QL	1.9	-1	6.7	-1	1.1	-1	0.287	-1	1.821	-1	6.351	0	1653	53	1.6
49226.0	10000	41.7306	92.1416	-750	QL	2.2	-1	6.8	-1	1.0	-2	0.320	-1	2.152	0	6.717	1	1631	49	1.6
49226.1	10000	41.7312	92.1416	-750	QL	2.2	-1	6.6	-1	1.0	-2	0.331	0	2.255	0	6.814	1	1616	45	1.6
49226.2	10000	41.7318	92.1416	-751	QL	2.2	-1	6.8	-1	1.0	-2	0.326	0	2.273	0	6.975	1	1627	52	1.6
49226.3	10000	41.7324	92.1415	-751	QL	2.1	-1	7.1	0	1.0	-2	0.293	-1	2.048	0	6.992	1	1655	42	1.6
49226.4	10000	41.7330	92.1415	-751	QL	2.3	-1	7.1	0	1.0	-2	0.322	-1	2.262	0	7.014	1	1679	42	1.6
49226.5	10000	41.7337	92.1415	-751	QL	2.4	0	7.2	0	1.0	-2	0.334	0	2.336	0	7.005	1	1714	50	1.6
49226.6	10000	41.7343	92.1415	-752	QL	2.4	0	6.9	-1	1.0	-1	0.353	0	2.340	0	6.625	1	1728	37	1.6
49226.7	10000	41.7349	92.1415	-753	QL	2.4	-1	6.9	0	1.1	-1	0.339	0	2.168	0	6.394	0	1726	49	1.6
49226.8	10000	41.7355	92.1415	-753	QL	2.4	0	6.9	0	1.1	-1	0.346	0	2.146	0	6.202	0	1746	36	1.6
49226.9	10000	41.7361	92.1415	-753	QL	2.5	0	7.1	0	1.1	0	0.349	0	2.168	0	6.211	0	1751	54	1.6
49227.0	10000	41.7368	92.1415	-753	QL	2.7	0	7.0	0	1.1	-1	0.384	0	2.427	0	6.314	0	1774	41	1.6
49227.1	10000	41.7374	92.1415	-753	QL	2.5	0	7.2	0	1.1	-1	0.351	0	2.278	0	6.492	0	1782	50	1.7
49227.2	10000	41.7380	92.1415	-753	QL	2.6	0	7.3	0	1.1	-1	0.360	0	2.386	0	6.631	1	1781	30	1.7
49227.3	10000	41.7386	92.1415	-753	QL	2.6	0	7.6	1	1.1	-1	0.335	0	2.377	0	7.104	2	1781	34	1.7
49227.4	10000	41.7392	92.1415	-754	QL	2.4	0	7.5	0	1.1	-1	0.320	-1	2.191	0	6.844	1	1790	35	1.7
49227.5	10000	41.7399	92.1415	-754	QL	2.4	0	7.5	0	1.1	-1	0.324	0	2.240	0	6.909	1	1782	45	1.7
49227.6	10000	41.7405	92.1414	-754	QL	2.4	0	6.9	-1	1.1	-1	0.346	0	2.237	0	6.460	0	1764	44	1.7
49227.7	10000	41.7411	92.1414	-754	QL	2.3	-1	6.4	-1	1.0	-2	0.363	0	2.287	0	6.295	0	1726	43	1.7
49227.8	10000	41.7417	92.1414	-754	QL	2.4	0	6.1	-2	1.1	-1	0.393	0	2.186	0	5.568	-1	1715	34	1.7
49227.9	10000	41.7423	92.1414	-754	QL	2.4	0	5.8	-2	1.1	0	0.412	0	2.105	0	5.107	-2	1714	37	1.7
49228.0	10000	41.7430	92.1414	-753	QL	2.4	0	5.6	-3	1.2	0	0.435	1	2.022	0	4.645	-3	1728	40	1.7
49228.1	10000	41.7436	92.1414	-752	QL	2.5	0	5.5	-3	1.2	0	0.454	1	2.125	0	4.668	-3	1726	57	1.7
49228.2	10000	41.7442	92.1414	-752	QL	2.6	0	5.4	-3	1.2	0	0.483	2	2.169	0	4.490	-3	1726	44	1.7
49228.3	10000	41.7448	92.1414	-751	QL	2.5	0	5.5	-3	1.2	1	0.461	1	2.029	0	4.398	-3	1743	38	1.7
49228.4	10000	41.7454	92.1414	-751	QL	2.3	-1	5.7	-2	1.2	1	0.404	1	1.863	-1	4.607	-3	1755	43	1.7
49228.5	10000	41.7460	92.1414	-750	QL	2.3	-1	5.9	-2	1.2	1	0.391	0	1.975	-1	5.052	-2	1745	46	1.7
49228.6	10000	41.7467	92.1414	-749	QL	2.3	-1	5.8	-2	1.1	1	0.402	0	2.062	-1	5.125	-2	1723	54	1.8
49228.7	10000	41.7473	92.1414	-747	QL	2.2	-1	5.9	-2	1.1	1	0.378	0	1.979	-1	5.230	-2	1692	49	1.8
49228.8	10000	41.7479	92.1414	-747	QL	2.4	-1	5.9	-2	1.1	1	0.398	0	2.063	-1	5.189	-2	1699	57	1.8
49228.9	10000	41.7485	92.1414	-747	QL	2.2	-1	5.9	-2	1.1	1	0.372	0	1.924	-1	5.166	-2	1703	51	1.8
49229.0	10000	41.7491	92.1414	-746	QL	2.4	0	5.8	-2	1.1	1	0.414	1	2.176	0	5.255	-2	1684	49	1.8
49229.1	10000	41.7498	92.1413	-745	QL	2.6	0	5.6	-3	1.1	1	0.463	2	2.364	0	5.102	-3	1669	40	1.8
49229.2	10000	41.7504	92.1413	-744	QL	2.6	0	5.6	-3	1.1	1	0.469	2	2.435	1	5.190	-2	1657	47	1.8

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49229.3	10000	41.7510	92.1413	-743	QL	2.5	0	5.4	-3	1.1	-1	0.462	2	2.365	0	5.122	-2	1651	43	1.8
49229.4	10000	41.7516	92.1413	-742	QAL	2.5	0	5.1	-1	1.1	0	0.495	1	2.399	0	4.848	-2	1655	34	1.8
49229.5	10000	41.7522	92.1413	-741	QAL	2.6	0	5.1	-1	1.0	0	0.505	1	2.504	0	4.959	-1	1645	30	1.8
49229.6	10000	41.7529	92.1413	-740	QAL	2.6	0	5.3	-1	1.0	0	0.483	1	2.480	0	5.135	-1	1653	49	1.8
49229.7	10000	41.7535	92.1413	-738	QAL	2.3	0	5.4	-1	1.1	0	0.432	1	2.196	0	5.085	-1	1687	41	1.8
49229.8	10000	41.7541	92.1413	-737	QAL	2.3	0	5.5	-1	1.1	0	0.413	0	2.009	-1	4.867	-2	1728	46	1.8
49229.9	10000	41.7547	92.1413	-737	QAL	2.2	0	5.8	-1	1.2	1	0.388	0	1.842	-1	4.741	-2	1783	34	1.8
49230.0	10000	41.7553	92.1413	-737	QAL	2.2	0	6.2	0	1.3	1	0.358	0	1.744	-1	4.878	-2	1840	38	1.8
49230.1	10000	41.7560	92.1413	-735	QAL	2.4	0	6.5	0	1.3	2	0.367	0	1.821	-1	4.959	-1	1875	45	1.8
49230.2	10000	41.7566	92.1413	-734	QAL	2.1	-1	6.6	0	1.3	2	0.324	-1	1.623	-1	5.008	-1	1901	49	1.9
49230.3	10000	41.7572	92.1413	-734	QAL	2.1	-1	7.0	0	1.3	2	0.303	-1	1.617	-1	5.335	-1	1923	41	1.9
49230.4	10000	41.7578	92.1413	-733	QL	2.4	0	7.1	0	1.3	2	0.331	0	1.832	-1	5.529	-1	1913	40	1.9
49230.5	10000	41.7584	92.1413	-733	QL	2.2	-1	6.9	-1	1.2	1	0.324	-1	1.863	-1	5.754	-1	1863	44	1.9
49230.6	10000	41.7591	92.1413	-733	QL	2.4	-1	6.8	-1	1.1	0	0.345	0	2.099	0	6.092	0	1821	43	1.9
49230.7	10000	41.7597	92.1412	-732	QL	2.2	-1	6.7	-1	1.1	0	0.337	0	2.102	0	6.246	0	1753	54	1.9
49230.8	10000	41.7603	92.1412	-732	QL	2.0	-1	6.5	-1	1.0	0	0.305	-1	1.991	-1	6.526	1	1692	45	1.9
49230.9	10000	41.7609	92.1412	-731	QL	2.3	-1	6.0	-2	0.9	0	0.375	0	2.428	1	6.479	0	1645	49	1.9
49231.0	10000	41.7615	92.1412	-730	QL	2.3	-1	5.4	-3	0.9	0	0.420	1	2.542	1	6.055	0	1593	35	1.9
49231.1	10000	41.7622	92.1412	-730	QL	1.8	-2	5.4	-3	0.9	0	0.338	0	2.086	0	6.179	0	1586	40	1.9
49231.2	10000	41.7628	92.1412	-729	QL	2.0	-1	5.8	-2	0.9	0	0.339	0	2.171	0	6.403	0	1598	38	1.9
49231.3	10000	41.7634	92.1412	-729	QL	1.8	-2	5.5	-3	0.9	0	0.331	0	2.037	0	6.152	0	1605	25	1.9
49231.4	10000	41.7640	92.1412	-729	QL	2.0	-1	5.7	-2	0.9	0	0.354	0	2.216	0	6.256	0	1629	49	1.9
49231.5	10000	41.7646	92.1412	-729	QL	2.1	-1	5.7	-2	0.9	0	0.368	0	2.300	0	6.259	0	1669	53	1.9
49231.6	10000	41.7653	92.1412	-728	QAL	1.8	-1	6.4	0	1.0	-1	0.280	-1	1.864	-1	6.647	1	1704	49	1.9
49231.7	10000	41.7659	92.1412	-727	QAL	1.8	-1	6.4	0	1.0	-1	0.288	-1	1.891	-1	6.575	1	1733	50	1.9
49231.8	10000	41.7665	92.1412	-727	QAL	2.1	-1	6.1	0	1.0	0	0.352	0	2.101	0	5.961	0	1749	46	1.9
49231.9	10000	41.7671	92.1412	-727	QAL	2.1	-1	6.1	0	1.1	0	0.344	0	2.005	-1	5.835	0	1765	36	1.9
49232.0	10000	41.7677	92.1411	-727	QAL	2.3	0	6.4	0	1.1	0	0.354	0	2.061	0	5.818	0	1780	55	1.9
49232.1	10000	41.7684	92.1411	-725	QAL	1.9	-1	6.4	0	1.1	0	0.296	-1	1.655	-1	5.583	-1	1798	35	1.9
49232.2	10000	41.7690	92.1411	-725	QAL	1.8	-1	7.0	0	1.1	1	0.264	-1	1.606	-1	6.087	0	1806	41	1.9
49232.3	10000	41.7696	92.1411	-725	QAL	2.0	-1	7.0	0	1.1	1	0.283	-1	1.754	-1	6.202	0	1806	44	1.9
49232.4	10000	41.7702	92.1411	-723	QAL	2.0	-1	7.2	1	1.2	1	0.274	-1	1.709	-1	6.239	0	1804	37	1.9
49232.5	10000	41.7708	92.1411	-722	QAL	1.9	-1	7.3	1	1.2	1	0.258	-1	1.715	-1	6.659	1	1773	46	1.9
49232.6	10000	41.7715	92.1411	-722	QAL	1.9	-1	7.2	1	1.1	0	0.262	-1	1.854	-1	7.087	1	1747	41	1.9
49232.7	10000	41.7721	92.1411	-721	QAL	1.7	-1	7.5	1	1.1	0	0.240	-2	1.727	-1	7.183	1	1720	47	1.9
49232.8	10000	41.7727	92.1411	-719	QAL	2.0	-1	7.5	1	1.0	0	0.276	-1	2.134	0	7.739	2	1686	34	1.9
49232.9	10000	41.7733	92.1411	-719	QAL	2.0	-1	6.7	0	0.9	-1	0.297	-1	2.156	0	7.258	1	1669	41	1.9
49233.0	10000	41.7739	92.1411	-718	QAL	1.9	-1	6.3	0	1.0	-1	0.304	-1	1.916	-1	6.296	1	1671	55	1.9
49233.1	10000	41.7746	92.1411	-717	QAL	1.9	-1	6.6	0	1.0	0	0.284	-1	1.789	-1	6.307	1	1671	56	1.9
49233.2	10000	41.7752	92.1411	-714	QAL	2.0	-1	6.5	0	1.1	0	0.308	-1	1.849	-1	5.999	0	1682	33	1.9
49233.3	10000	41.7758	92.1411	-709	QAL	2.0	-1	6.4	0	1.2	1	0.310	-1	1.731	-1	5.587	-1	1716	32	1.9
49233.4	10000	41.7764	92.1411	-708	QAL	2.1	-1	6.5	0	1.2	1	0.322	-1	1.782	-1	5.541	-1	1748	45	1.9
49233.5	10000	41.7770	92.1410	-711	QAL	2.0	-1	6.7	0	1.2	1	0.300	-1	1.668	-1	5.565	-1	1766	49	1.9
49233.6	10000	41.7776	92.1410	-713	QAL	2.1	-1	6.7	0	1.2	1	0.313	-1	1.745	-1	5.567	-1	1795	49	1.9
49233.7	10000	41.7783	92.1410	-716	QAL	2.1	-1	7.0	0	1.2	1	0.305	-1	1.799	-1	5.889	-1	1806	40	1.9
49233.8	10000	41.7789	92.1410	-715	QAL	2.1	-1	6.8	0	1.1	1	0.301	-1	1.786	-1	5.935	-1	1805	51	1.9
49233.9	10000	41.7795	92.1410	-715	QAL	1.9	-1	7.3	0	1.2	1	0.255	-1	1.585	-1	6.205	-1	1830	52	1.9
49234.0	10000	41.7801	92.1410	-717	QL	2.1	-1	7.5	0	1.2	1	0.273	-1	1.724	-1	6.309	-1	1844	43	1.9
49234.1	10000	41.7808	92.1410	-717	QL	1.9	-1	7.6	0	1.2	1	0.257	-1	1.628	-1	6.325	-1	1857	54	1.9
49234.2	10000	41.7814	92.1410	-718	QL	2.2	-1	7.8	0	1.2	1	0.285	-1	1.859	-1	6.527	-1	1884	39	1.9
49234.3	10000	41.7820	92.1410	-718	QL	2.2	-1	7.8	0	1.2	1	0.286	-1	1.838	-1	6.427	-1	1887	50	1.9
49234.4	10000	41.7826	92.1410	-718	QL	2.3	-1	7.7	1	1.2	0	0.294	-1	1.931	-1	6.562	-1	1888	53	1.8

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49234.5	10000	41.7832	92.1410	-719	QL	2.3	-1	7.9	1	1.1	0	0.295	-1	2.055	0	6.968	1	1904	30	1.8
49234.6	10000	41.7839	92.1410	-719	QL	2.6	0	8.4	2	1.1	-1	0.307	-1	2.368	0	7.716	3	1907	55	1.8
49234.7	10000	41.7845	92.1410	-720	QL	2.3	-1	8.3	2	1.1	-1	0.283	-1	2.224	0	7.865	3	1895	40	1.8
49234.8	10000	41.7851	92.1409	-721	QL	2.4	-1	8.1	1	1.1	-1	0.290	-1	2.150	0	7.423	2	1880	36	1.8
49234.9	10000	41.7857	92.1409	-722	QL	2.3	-1	7.3	0	1.1	-1	0.311	-1	2.080	0	6.695	1	1877	42	1.8
49235.0	10000	41.7863	92.1409	-723	QK	2.5	0	7.4	0	1.1	0	0.344	0	2.377	0	6.912	1	1869	47	1.8
49235.1	10000	41.7869	92.1409	-724	QK	2.7	0	7.2	0	1.0	-1	0.379	0	2.658	1	7.014	1	1873	44	1.8
49235.2	10000	41.7876	92.1409	-724	QK	3.0	1	7.0	0	1.0	-1	0.426	1	2.937	1	6.900	1	1871	45	1.8
49235.3	10000	41.7882	92.1409	-725	QK	3.1	1	6.3	-1	1.0	-1	0.490	2	3.133	2	6.397	0	1859	43	1.8
49235.4	10000	41.7888	92.1409	-725	QK	3.2	1	6.3	-1	1.0	-1	0.504	2	3.204	2	6.356	0	1830	38	1.8
49235.5	10000	41.7894	92.1409	-725	QK	3.5	2	6.4	-1	0.9	-2	0.540	3	3.670	3	6.796	0	1803	47	1.8
49235.6	10000	41.7900	92.1409	-726	QK	3.2	1	6.7	-1	1.0	-1	0.473	2	3.320	2	7.013	1	1764	44	1.8
49235.7	10000	41.7907	92.1409	-726	QK	3.0	1	6.5	-1	1.0	-1	0.457	2	2.999	2	6.563	0	1737	38	1.8
49235.8	10000	41.7913	92.1409	-728	QK	2.7	0	6.5	-1	1.0	-1	0.421	1	2.769	1	6.582	0	1709	48	1.8
49235.9	10000	41.7919	92.1409	-728	QK	2.7	0	6.3	-1	1.0	-1	0.418	1	2.532	1	6.052	-1	1703	41	1.8
49236.0	10000	41.7925	92.1409	-729	QK	2.4	0	6.6	-1	1.1	0	0.364	0	2.264	0	6.217	0	1701	55	1.7
49236.1	10000	41.7931	92.1409	-730	QK	2.3	-1	6.4	-1	1.1	0	0.357	0	2.098	0	5.881	-1	1707	46	1.7
49236.2	10000	41.7938	92.1409	-731	QK	2.1	-1	6.5	-1	1.1	0	0.322	0	1.915	-1	5.953	-1	1723	41	1.7
49236.3	10000	41.7944	92.1409	-731	QK	2.3	0	6.3	-1	1.1	0	0.365	0	2.110	0	5.779	-1	1739	39	1.7
49236.4	10000	41.7950	92.1408	-732	QK	2.5	0	6.5	-1	1.0	-1	0.379	0	2.362	0	6.235	0	1742	40	1.7
49236.5	10000	41.7956	92.1408	-733	QK	2.3	0	6.8	-1	1.1	0	0.345	0	2.192	0	6.350	0	1736	40	1.7
49236.6	10000	41.7962	92.1408	-734	QK	2.2	-1	6.7	-1	1.0	-1	0.326	0	2.100	0	6.436	0	1712	43	1.7
49236.7	10000	41.7969	92.1408	-734	QK	2.2	-1	6.2	-1	1.0	-1	0.354	0	2.136	0	6.039	-1	1678	47	1.7
49236.8	10000	41.7975	92.1408	-735	QK	2.4	0	6.1	-1	1.0	-1	0.389	1	2.282	0	5.869	-1	1669	36	1.7
49236.9	10000	41.7981	92.1408	-735	QK	2.5	0	5.8	-2	1.0	-1	0.426	1	2.480	0	5.818	-1	1641	46	1.7
49237.0	10000	41.7987	92.1408	-736	QK	2.5	0	5.9	-2	1.0	-1	0.420	1	2.472	0	5.892	-1	1626	46	1.7
49237.1	10000	41.7993	92.1408	-737	QK	2.3	0	5.6	-2	1.0	-1	0.411	1	2.296	0	5.581	-1	1616	40	1.7
49237.2	10000	41.8000	92.1408	-737	QK	2.4	0	5.2	-3	1.0	-1	0.474	2	2.454	0	5.174	-2	1607	37	1.7
49237.3	10000	41.8006	92.1408	-738	QK	2.4	0	5.3	-3	1.0	-1	0.446	1	2.352	0	5.277	-2	1616	45	1.6
49237.4	10000	41.8012	92.1408	-738	QK	2.4	0	5.6	-2	1.0	-1	0.432	1	2.264	0	5.244	-2	1626	26	1.6
49237.5	10000	41.8018	92.1408	-738	QK	2.4	0	5.7	-2	1.0	-1	0.425	1	2.359	0	5.547	-1	1649	52	1.6
49237.6	10000	41.8024	92.1408	-738	QK	2.3	-1	5.8	-2	1.1	-1	0.400	1	2.200	0	5.494	-1	1656	41	1.6
49237.7	10000	41.8031	92.1407	-739	QK	2.2	-1	5.9	-2	1.1	-1	0.378	1	2.116	0	5.599	-1	1661	58	1.6
49237.8	10000	41.8037	92.1407	-741	QK	2.1	-1	6.4	-1	1.1	0	0.329	0	1.924	-1	5.843	-1	1663	34	1.6
49237.9	10000	41.8043	92.1407	-740	QK	2.3	-1	6.6	-1	1.1	0	0.349	0	2.073	0	5.935	-1	1674	37	1.6
49238.0	10000	41.8049	92.1407	-740	QAL	2.4	0	6.5	0	1.1	0	0.362	0	2.146	0	5.934	0	1682	40	1.6
49238.1	10000	41.8055	92.1407	-741	QAL	2.3	0	6.3	0	1.1	0	0.365	0	2.144	0	5.869	0	1682	56	1.6
49238.2	10000	41.8062	92.1407	-741	QAL	2.1	-1	6.6	0	1.1	0	0.322	0	2.000	-1	6.210	0	1659	48	1.6
49238.3	10000	41.8068	92.1407	-741	QAL	2.2	0	6.2	0	1.1	0	0.356	0	2.195	0	6.172	0	1640	43	1.6
49238.4	10000	41.8074	92.1407	-740	QAL	2.4	0	6.2	0	1.1	0	0.384	0	2.385	0	6.214	0	1634	47	1.6
49238.5	10000	41.8080	92.1407	-739	QAL	2.5	0	6.2	0	1.1	0	0.404	0	2.558	0	6.324	0	1629	40	1.6
49238.6	10000	41.8086	92.1407	-742	QAL	2.4	0	6.0	-1	1.0	-1	0.394	0	2.514	0	6.385	0	1621	43	1.6
49238.7	10000	41.8092	92.1407	-744	QAL	2.4	0	6.0	-1	1.0	-1	0.398	0	2.617	1	6.570	1	1613	36	1.5
49238.8	10000	41.8099	92.1407	-744	QAL	2.7	0	6.0	-1	1.0	-1	0.445	1	2.992	1	6.720	1	1608	31	1.5
49238.9	10000	41.8105	92.1407	-744	QAL	2.6	0	5.7	-1	0.9	-1	0.459	1	3.047	1	6.631	1	1595	49	1.5
49239.0	10000	41.8111	92.1407	-744	QAL	2.4	0	6.0	-1	0.9	-1	0.395	0	2.672	1	6.776	1	1610	45	1.5
49239.1	10000	41.8117	92.1407	-744	QAL	2.5	0	6.2	-1	0.9	-1	0.397	0	2.837	1	7.153	1	1612	32	1.5
49239.2	10000	41.8124	92.1406	-744	QAL	2.3	0	6.5	-1	0.9	-1	0.352	0	2.579	1	7.335	2	1620	51	1.5
49239.3	10000	41.8130	92.1406	-744	QAL	2.2	0	6.4	-1	0.9	-1	0.355	0	2.528	1	7.122	2	1618	38	1.5
49239.4	10000	41.8136	92.1406	-744	QAL	2.2	0	6.2	-1	0.9	-1	0.328	0	2.443	1	7.455	2	1623	42	1.5
49239.5	10000	41.8142	92.1406	-743	QAL	2.1	-1	7.2	1	0.9	-1	0.301	-1	2.361	1	7.844	2	1639	34	1.5
49239.6	10000	41.8148	92.1406	-742	QAL	2.3	0	7.7	1	0.9	-1	0.294	-1	2.424	0	8.241	3	1653	35	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49239.7	10000	41.8155	92.1406	-742	QAL	2.2	0	7.7	1	1.0	-1	0.285	-1	2.280	0	8.010	2	1664	46	1.5
49239.8	10000	41.8161	92.1406	-741	QAL	2.1	-1	7.6	1	1.0	-1	0.276	-1	2.179	0	7.898	2	1672	35	1.5
49239.9	10000	41.8167	92.1406	-741	QAL	2.3	0	7.1	1	1.0	-1	0.324	-1	2.397	0	7.402	2	1659	38	1.5
49240.0	10000	41.8174	92.1406	-741	QAL	2.2	0	7.3	1	1.0	-1	0.304	-1	2.291	0	7.543	2	1660	38	1.5
49240.1	10000	41.8180	92.1406	-741	QAL	2.3	0	6.7	0	1.0	-1	0.334	-1	2.346	0	7.015	1	1640	42	1.5
49240.2	10000	41.8186	92.1406	-740	QAL	2.0	-1	6.6	0	0.9	-1	0.296	-1	2.137	0	7.215	1	1620	53	1.5
49240.3	10000	41.8193	92.1406	-739	QAL	2.0	-1	6.1	0	0.9	-1	0.327	-1	2.137	0	6.530	1	1629	39	1.5
49240.4	10000	41.8199	92.1406	-738	QAL	2.4	0	6.3	0	0.9	-1	0.385	0	2.649	1	6.883	1	1620	43	1.5
49240.5	10000	41.8205	92.1406	-736	QAL	2.4	0	6.3	0	0.9	-1	0.381	0	2.605	1	6.831	1	1621	38	1.5
49240.6	10000	41.8212	92.1406	-737	QAL	2.4	0	6.5	0	0.9	-1	0.363	0	2.538	0	6.995	1	1635	39	1.5
49240.7	10000	41.8218	92.1406	-736	QAL	2.5	0	6.3	0	0.9	-1	0.399	0	2.687	1	6.733	1	1651	52	1.5
49240.8	10000	41.8225	92.1406	-736	QAL	2.5	0	6.1	0	1.0	-1	0.413	0	2.628	1	6.364	0	1666	36	1.5
49240.9	10000	41.8231	92.1406	-735	QAL	2.8	1	6.0	-1	1.0	-1	0.465	1	2.805	1	6.027	0	1647	53	1.5
49241.0	10000	41.8237	92.1406	-734	QAL	2.8	1	5.9	-1	1.0	-1	0.477	1	2.870	1	6.014	0	1605	39	1.5
49241.1	10000	41.8244	92.1406	-734	QAL	2.5	0	5.5	-1	1.0	-1	0.455	1	2.497	0	5.484	-1	1563	46	1.5
49241.2	10000	41.8250	92.1406	-733	QAL	2.3	0	5.4	-1	1.0	0	0.433	1	2.320	0	5.352	-1	1539	46	1.5
49241.3	10000	41.8257	92.1406	-733	QAL	2.3	0	5.1	-1	1.0	0	0.447	1	2.223	0	4.973	-1	1536	46	1.5
49241.4	10000	41.8263	92.1406	-733	QAL	2.4	0	5.2	-1	1.0	0	0.461	1	2.279	0	4.945	-2	1533	50	1.5
49241.5	10000	41.8269	92.1406	-732	QAL	2.4	0	5.2	-1	1.0	0	0.457	1	2.273	0	4.973	-1	1528	49	1.5
49241.6	10000	41.8276	92.1406	-732	QAL	2.4	0	5.1	-1	1.0	0	0.466	1	2.282	0	4.900	-2	1568	37	1.5
49241.7	10000	41.8282	92.1406	-731	QAL	2.7	0	5.5	-1	1.1	0	0.496	1	2.444	0	4.931	-2	1609	35	1.5
49241.8	10000	41.8288	92.1406	-731	QAL	2.8	1	5.8	-1	1.1	0	0.486	1	2.537	0	5.223	-1	1662	42	1.5
49241.9	10000	41.8295	92.1406	-730	QAL	2.8	1	6.0	-1	1.2	1	0.463	1	2.395	0	5.177	-1	1686	35	1.5
49242.0	10000	41.8301	92.1406	-729	QAL	2.9	1	6.1	0	1.2	1	0.485	1	2.509	0	5.177	-1	1689	32	1.5
49242.1	10000	41.8307	92.1406	-728	QAL	2.9	1	6.3	0	1.2	1	0.453	1	2.414	0	5.330	-1	1702	53	1.5
49242.2	10000	41.8314	92.1406	-728	QAL	2.9	1	6.3	0	1.1	0	0.459	1	2.555	0	5.566	-1	1726	46	1.5
49242.3	10000	41.8320	92.1406	-728	QAL	2.8	1	6.0	-1	1.2	1	0.475	1	2.386	0	5.025	-1	1725	48	1.5
49242.4	10000	41.8327	92.1406	-725	QAL	2.4	1	5.6	-1	1.1	1	0.430	1	2.122	0	4.929	-2	1708	48	1.5
49242.5	10000	41.8333	92.1406	-726	QAL	2.4	1	5.7	-1	1.1	1	0.421	1	2.103	0	5.001	-1	1697	41	1.5
49242.6	10000	41.8339	92.1406	-726	QAL	2.7	1	5.4	-1	1.1	1	0.502	1	2.510	0	4.999	-1	1684	36	1.5
49242.7	10000	41.8346	92.1406	-725	QAL	2.4	1	5.5	-1	1.1	0	0.428	1	2.307	0	5.395	-1	1666	49	1.5
49242.8	10000	41.8352	92.1406	-725	QAL	2.2	1	5.4	-1	1.1	0	0.402	1	2.067	0	5.138	-1	1632	37	1.5
49242.9	10000	41.8358	92.1406	-724	QAL	1.8	1	5.4	-1	1.1	1	0.325	-1	1.646	-1	5.058	-1	1588	39	1.5
49243.0	10000	41.8365	92.1406	-723	QAL	1.7	1	5.8	-1	1.1	1	0.295	-1	1.576	-1	5.341	-1	1583	37	1.5
49243.1	10000	41.8371	92.1406	-724	QAL	1.8	1	6.1	0	1.2	1	0.292	-1	1.545	-1	5.288	-1	1608	38	1.5
49243.2	10000	41.8378	92.1406	-723	QAL	1.6	2	6.0	-1	1.2	1	0.269	-1	1.381	-2	5.131	-1	1615	35	1.5
49243.3	10000	41.8384	92.1406	-723	QAL	1.8	1	6.1	0	1.2	1	0.293	-1	1.474	-2	5.038	-1	1636	43	1.5
49243.4	10000	41.8390	92.1406	-722	QL	2.0	1	6.2	-2	1.2	1	0.320	-1	1.599	-1	4.995	-2	1663	42	1.5
49243.5	10000	41.8397	92.1406	-721	QL	2.2	1	6.4	-1	1.2	1	0.337	0	1.743	-1	5.174	-2	1705	43	1.5
49243.6	10000	41.8403	92.1406	-722	QL	2.5	1	6.6	-1	1.3	1	0.385	0	2.012	0	5.228	-2	1755	49	1.5
49243.7	10000	41.8410	92.1406	-722	QL	2.4	0	7.0	0	1.2	1	0.345	0	2.039	0	5.911	0	1759	43	1.5
49243.8	10000	41.8416	92.1406	-722	QL	2.5	0	7.0	0	1.1	1	0.358	0	2.275	0	6.353	0	1764	42	1.5
49243.9	10000	41.8422	92.1406	-719	QL	2.8	0	7.2	0	1.1	1	0.382	0	2.553	0	6.676	1	1781	38	1.5
49244.0	10000	41.8429	92.1406	-716	QL	2.6	0	7.3	0	1.1	1	0.360	0	2.460	0	6.827	1	1788	41	1.5
49244.1	10000	41.8435	92.1406	-717	QL	2.8	0	7.2	0	1.1	1	0.393	0	2.594	0	6.596	1	1786	46	1.5
49244.2	10000	41.8441	92.1406	-721	QL	3.0	1	6.9	-1	1.0	1	0.428	0	2.943	1	6.877	1	1776	50	1.5
49244.3	10000	41.8448	92.1406	-722	QL	3.1	1	6.9	-1	1.0	2	0.455	0	3.164	1	6.947	1	1761	46	1.5
49244.4	10000	41.8454	92.1406	-722	QL	3.4	2	6.5	-1	1.0	2	0.517	0	3.255	1	6.301	1	1769	40	1.5
49244.5	10000	41.8461	92.1406	-722	QL	3.3	2	6.7	-1	1.1	2	0.493	0	3.142	1	6.367	0	1771	39	1.5
49244.6	10000	41.8467	92.1406	-721	QL	3.1	2	6.4	-1	1.0	2	0.521	0	3.199	1	6.135	0	1759	45	1.5
49244.7	10000	41.8473	92.1406	-721	QL	3.1	1	6.4	-1	1.0	2	0.484	0	3.049	1	6.295	0	1743	46	1.5
49244.8	10000	41.8480	92.1406	-720	QL	2.8	1	6.5	-1	1.0	2	0.433	1	2.808	1	6.477	0	1749	42	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49244.9	10000	41.8486	92.1406	-719	QL	2.5	0	6.9	-1	1.0	-1	0.357	0	2.364	0	6.626	1	1741	42	1.5
49245.0	10000	41.8492	92.1407	-718	QL	2.4	0	7.2	0	1.1	-1	0.330	0	2.259	0	6.838	1	1748	38	1.5
49245.1	10000	41.8499	92.1407	-718	QL	2.1	-1	7.0	0	1.1	-1	0.304	-1	2.006	0	6.603	1	1752	50	1.5
49245.2	10000	41.8505	92.1407	-717	QL	2.2	-1	6.7	-1	1.1	-1	0.329	0	2.070	0	6.289	0	1753	38	1.5
49245.3	10000	41.8512	92.1407	-716	QL	2.5	0	6.5	-1	1.1	0	0.383	0	2.196	0	5.735	-1	1768	52	1.5
49245.4	10000	41.8518	92.1407	-715	QL	2.5	0	6.9	-1	1.2	0	0.369	0	2.136	0	5.795	-1	1777	59	1.5
49245.5	10000	41.8524	92.1407	-713	QL	2.6	0	6.7	-1	1.2	0	0.389	0	2.179	0	5.598	-1	1789	35	1.5
49245.6	10000	41.8531	92.1407	-712	QL	2.8	1	6.9	-1	1.2	0	0.410	1	2.341	0	5.713	-1	1812	38	1.5
49245.7	10000	41.8537	92.1407	-712	QL	2.6	0	6.7	-1	1.2	1	0.389	0	2.122	0	5.458	-1	1806	49	1.5
49245.8	10000	41.8543	92.1407	-711	QL	2.7	0	6.7	-1	1.2	1	0.407	1	2.225	0	5.465	-1	1807	45	1.5
49245.9	10000	41.8550	92.1407	-709	QL	2.8	0	6.7	-1	1.3	1	0.417	1	2.210	0	5.305	-1	1811	36	1.5
49246.0	10000	41.8556	92.1407	-707	QL	2.5	0	7.0	0	1.3	1	0.362	0	1.966	-1	5.431	-1	1807	50	1.5
49246.1	10000	41.8563	92.1407	-705	QL	2.5	0	6.8	-1	1.3	1	0.364	0	1.955	-1	5.371	-1	1802	37	1.5
49246.2	10000	41.8569	92.1407	-702	QL	2.3	-1	6.8	-1	1.2	1	0.342	0	1.882	-1	5.500	-1	1779	42	1.5
49246.3	10000	41.8575	92.1407	-703	QL	2.4	-1	6.9	-1	1.2	1	0.343	0	1.899	-1	5.539	-1	1769	57	1.5
49246.4	10000	41.8582	92.1407	-706	QL	2.5	0	7.1	0	1.2	0	0.348	0	2.014	0	5.793	-1	1770	50	1.5
49246.5	10000	41.8588	92.1407	-706	QL	2.3	-1	7.3	0	1.2	0	0.316	-1	1.921	-1	6.084	0	1768	45	1.5
49246.6	10000	41.8594	92.1407	-705	QL	2.2	-1	7.4	0	1.2	0	0.299	-1	1.839	-1	6.150	0	1772	46	1.5
49246.7	10000	41.8601	92.1407	-703	QL	2.1	-1	7.6	1	1.2	0	0.280	-1	1.829	-1	6.529	1	1787	53	1.5
49246.8	10000	41.8607	92.1407	-703	QL	2.4	0	7.6	0	1.2	0	0.316	-1	2.069	0	6.539	1	1810	53	1.5
49246.9	10000	41.8613	92.1407	-703	QL	2.6	0	7.5	0	1.1	0	0.350	0	2.316	0	6.619	1	1825	44	1.5
49247.0	10000	41.8620	92.1407	-702	QL	2.6	0	7.0	0	1.1	0	0.375	0	2.312	0	6.171	0	1827	37	1.5
49247.1	10000	41.8626	92.1407	-702	QL	2.8	1	7.0	0	1.1	-1	0.406	1	2.516	1	6.200	0	1826	50	1.5
49247.2	10000	41.8633	92.1407	-700	QL	3.0	1	6.9	-1	1.1	-1	0.439	1	2.698	1	6.151	0	1819	40	1.5
49247.3	10000	41.8639	92.1407	-699	QL	2.9	1	7.2	0	1.1	-1	0.407	1	2.627	1	6.462	0	1818	45	1.5
49247.4	10000	41.8645	92.1407	-698	QL	2.9	1	7.1	0	1.1	-1	0.410	1	2.743	1	6.695	1	1792	40	1.4
49247.5	10000	41.8652	92.1407	-697	QL	2.8	1	6.9	-1	1.0	-2	0.413	1	2.823	1	6.840	1	1760	41	1.4
49247.6	10000	41.8658	92.1407	-696	QL	2.7	0	6.8	-1	1.0	-2	0.391	0	2.659	1	6.798	1	1750	26	1.4
49247.7	10000	41.8664	92.1407	-695	QL	2.7	0	7.0	0	1.0	-2	0.382	0	2.716	1	7.110	2	1737	35	1.4
49247.8	10000	41.8671	92.1407	-694	QL	2.3	-1	6.6	-1	1.0	-2	0.343	0	2.364	0	6.884	1	1727	59	1.4
49247.9	10000	41.8677	92.1407	-694	QL	2.1	-1	6.7	-1	1.0	-2	0.319	-1	2.168	0	6.801	1	1736	41	1.4
49248.0	10000	41.8684	92.1407	-693	QL	2.2	-1	6.7	-1	0.9	-2	0.322	-1	2.299	0	7.142	2	1718	37	1.4
49248.1	10000	41.8690	92.1407	-692	QL	2.3	-1	6.4	-1	1.0	-2	0.357	0	2.260	0	6.325	1	1691	44	1.4
49248.2	10000	41.8696	92.1407	-691	QL	1.9	-1	6.3	-1	1.0	-2	0.307	-1	1.907	-1	6.217	0	1672	43	1.4
49248.3	10000	41.8703	92.1407	-690	QL	2.0	-1	6.4	-1	1.0	-2	0.318	-1	2.038	0	6.410	0	1666	42	1.4
49248.4	10000	41.8709	92.1407	-689	QL	1.9	-2	6.4	-1	1.0	-1	0.290	-1	1.797	-1	6.196	0	1675	46	1.4
49248.5	10000	41.8716	92.1407	-688	QL	2.1	-1	6.5	-1	1.1	-1	0.324	-1	1.925	-1	5.942	0	1693	39	1.4
49248.6	10000	41.8722	92.1407	-686	QL	2.2	-1	6.3	-1	1.1	-1	0.343	0	2.028	0	5.920	0	1684	51	1.4
49248.7	10000	41.8728	92.1407	-685	QL	2.2	-1	5.7	-2	1.1	-1	0.391	0	1.997	-1	5.112	-2	1682	43	1.4
49248.8	10000	41.8735	92.1407	-683	QL	2.2	-1	5.8	-2	1.1	-1	0.377	0	2.015	0	5.344	-1	1710	41	1.4
49248.9	10000	41.8741	92.1407	-684	QL	2.6	0	5.7	-2	1.1	-1	0.451	1	2.318	0	5.136	-2	1736	46	1.4
49249.0	10000	41.8747	92.1407	-685	QL	2.5	0	5.3	-3	1.1	-1	0.475	2	2.240	0	4.715	-2	1734	44	1.4
49249.1	10000	41.8754	92.1407	-682	QL	2.7	0	5.4	-3	1.1	0	0.494	2	2.358	0	4.773	-2	1731	48	1.4
49249.2	10000	41.8760	92.1407	-680	QL	2.6	0	5.6	-3	1.1	-1	0.462	1	2.351	0	5.095	-2	1725	40	1.4
49249.3	10000	41.8766	92.1407	-678	QL	2.6	0	5.8	-2	1.1	-1	0.458	1	2.344	0	5.122	-2	1727	48	1.4
49249.4	10000	41.8773	92.1407	-676	QL	2.6	0	6.2	-2	1.1	-1	0.421	1	2.417	0	5.738	-1	1756	43	1.4
49249.5	10000	41.8779	92.1407	-674	QL	2.9	1	6.7	-1	1.1	-1	0.426	1	2.593	1	6.082	0	1765	40	1.4
49249.6	10000	41.8786	92.1407	-673	QL	2.7	0	6.9	-1	1.1	-1	0.384	1	2.385	0	6.213	0	1752	37	1.4
49249.7	10000	41.8792	92.1407	-671	QL	2.5	0	7.4	0	1.1	0	0.347	0	2.252	0	6.495	0	1749	48	1.4
49249.8	10000	41.8798	92.1407	-669	QL	2.6	0	6.9	0	1.1	0	0.371	0	2.275	0	6.128	0	1717	47	1.4
49249.9	10000	41.8805	92.1407	-666	QL	2.6	0	6.5	-1	1.1	-1	0.394	1	2.293	0	5.813	-1	1681	37	1.4
49250.0	10000	41.8811	92.1407	-661	QL	2.6	0	6.5	-1	1.1	-1	0.395	1	2.400	0	6.073	0	1661	46	1.4

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49250.1	10000	41.8818	92.1407	-658	QL	2.5	0	6.6	-1	1.1	-1	0.387	0	2.388	0	6.174	0	1621	35	1.4
49250.2	10000	41.8824	92.1407	-658	QL	2.2	-1	6.3	-1	1.0	-2	0.357	0	2.211	0	6.197	0	1600	37	1.4
49250.3	10000	41.8830	92.1407	-658	QL	2.1	-1	6.4	-1	1.1	-1	0.330	0	2.002	0	6.066	0	1615	44	1.4
49250.4	10000	41.8837	92.1407	-655	QL	2.2	-1	6.3	-2	1.0	-2	0.359	0	2.214	0	6.166	0	1621	45	1.4
49250.5	10000	41.8843	92.1407	-652	QL	2.1	-1	6.5	-1	1.0	-2	0.325	0	2.088	0	6.425	0	1631	38	1.4
49250.6	10000	41.8849	92.1407	-650	QL	2.0	-1	6.7	-1	1.0	-2	0.291	-1	1.920	-1	6.586	1	1652	49	1.4
49250.7	10000	41.8856	92.1407	-646	QL	1.8	-2	7.0	0	1.0	-2	0.263	-1	1.800	-1	6.846	1	1664	42	1.4
49250.8	10000	41.8862	92.1407	-643	QL	1.8	-2	7.2	0	1.0	-2	0.245	-2	1.709	-1	6.985	1	1674	50	1.4
49250.9	10000	41.8869	92.1407	-639	QL	1.6	-2	7.4	0	1.0	-1	0.222	-2	1.588	-1	7.168	2	1689	43	1.4
49251.0	10000	41.8875	92.1407	-635	QL	1.8	-2	7.4	0	1.0	-1	0.241	-2	1.716	-1	7.131	2	1685	49	1.4
49251.1	10000	41.8881	92.1407	-631	QL	1.8	-2	7.5	0	1.1	-1	0.234	-2	1.662	-1	7.117	2	1693	45	1.4
49251.2	10000	41.8888	92.1407	-627	QL	2.0	-1	7.7	1	1.0	-1	0.253	-2	1.885	-1	7.440	2	1720	35	1.3
49251.3	10000	41.8894	92.1407	-623	QL	2.2	-1	8.3	2	1.0	-1	0.261	-1	2.092	0	8.028	3	1736	39	1.3
49251.4	10000	41.8900	92.1407	-620	QL	2.3	-1	7.9	1	1.1	-1	0.289	-1	2.079	0	7.204	2	1760	40	1.3
49251.5	10000	41.8907	92.1407	-615	QL	2.2	-1	7.6	1	1.1	0	0.293	-1	1.965	-1	6.713	1	1773	46	1.3
49251.6	10000	41.8913	92.1407	-610	QL	2.3	-1	7.5	0	1.2	0	0.313	-1	1.959	-1	6.294	0	1783	47	1.3
49251.7	10000	41.8919	92.1407	-605	QL	2.4	0	8.1	1	1.2	0	0.298	-1	2.049	0	6.881	1	1798	43	1.4
49251.8	10000	41.8926	92.1407	-600	QL	2.2	-1	8.1	1	1.2	0	0.270	-1	1.840	-1	6.807	1	1798	52	1.3
49251.9	10000	41.8932	92.1407	-595	QL	2.2	-1	8.1	1	1.2	0	0.274	-1	1.889	-1	6.907	1	1796	52	1.3
49252.0	10000	41.8939	92.1407	-589	QL	2.1	-1	7.7	1	1.2	0	0.267	-1	1.690	-1	6.340	0	1790	43	1.3
49252.1	10000	41.8945	92.1407	-583	QL	2.1	-1	8.1	1	1.2	0	0.256	-1	1.735	-1	6.766	1	1774	33	1.3
49252.2	10000	41.8951	92.1407	-577	QL	2.1	-1	7.9	1	1.2	0	0.273	-1	1.834	-1	6.715	1	1770	49	1.3
49252.3	10000	41.8958	92.1407	-571	QL	2.2	-1	7.8	1	1.2	0	0.279	-1	1.861	-1	6.666	1	1766	46	1.3
49252.4	10000	41.8964	92.1407	-564	QL	2.2	-1	7.0	0	1.2	0	0.316	-1	1.861	-1	5.890	-1	1778	52	1.3
49252.5	10000	41.8970	92.1407	-558	QL	2.6	0	7.0	0	1.2	0	0.368	0	2.185	0	5.942	0	1782	51	1.3
49252.6	10000	41.8977	92.1407	-551	QL	2.2	-1	7.0	0	1.2	0	0.318	-1	1.829	-1	5.753	-1	1770	53	1.4
49252.7	10000	41.8983	92.1407	-545	QL	2.2	-1	6.9	0	1.2	0	0.315	-1	1.820	-1	5.781	-1	1772	47	1.4
49252.8	10000	41.8990	92.1407	-538	QL	2.1	-1	7.0	0	1.2	0	0.307	-1	1.802	-1	5.875	-1	1773	40	1.4
49252.9	10000	41.8996	92.1407	-530	QL	2.2	-1	7.3	0	1.1	0	0.301	-1	1.926	-1	6.399	0	1772	46	1.4
49253.0	10000	41.9002	92.1407	-523	QL	2.3	-1	7.5	0	1.1	0	0.310	-1	2.036	0	6.562	1	1776	44	1.4
49253.1	10000	41.9009	92.1407	-515	QL	2.4	0	7.7	1	1.1	0	0.313	-1	2.117	0	6.752	1	1754	52	1.4
49253.2	10000	41.9015	92.1407	-508	QL	2.1	-1	7.7	1	1.1	0	0.277	-1	1.863	-1	6.732	1	1748	42	1.4
49253.3	10000	41.9021	92.1407	-500	QL	2.2	-1	7.6	1	1.2	0	0.287	-1	1.895	-1	6.602	1	1749	42	1.4
49253.4	10000	41.9028	92.1407	-493	QL	2.3	-1	7.3	0	1.2	0	0.309	-1	1.938	-1	6.277	0	1739	44	1.4
49253.5	10000	41.9034	92.1407	-486	QL	2.3	-1	7.3	0	1.2	0	0.312	-1	1.950	-1	6.250	0	1739	34	1.4
49253.6	10000	41.9041	92.1407	-478	QL	2.3	-1	7.1	0	1.2	0	0.324	-1	1.926	-1	5.950	0	1742	58	1.4
49253.7	10000	41.9047	92.1407	-470	QL	2.1	-1	7.0	0	1.2	0	0.295	-1	1.754	-1	5.952	0	1734	45	1.4
49253.8	10000	41.9053	92.1407	-462	QL	1.9	-2	6.9	-1	1.2	0	0.267	-1	1.597	-1	5.975	0	1738	45	1.4
49253.9	10000	41.9060	92.1407	-454	QL	1.8	-2	7.0	0	1.1	-1	0.250	-2	1.568	-2	6.263	0	1718	46	1.4
49254.0	10000	41.9066	92.1406	-445	QL	2.0	-1	7.3	0	1.1	-1	0.274	-1	1.808	-1	6.598	1	1706	57	1.4
49254.1	10000	41.9073	92.1406	-437	QL	1.9	-1	7.4	0	1.1	-1	0.260	-1	1.756	-1	6.757	1	1685	60	1.4
49254.2	10000	41.9079	92.1406	-428	QL	1.9	-2	7.1	0	1.1	-1	0.261	-1	1.690	-1	6.472	0	1650	43	1.4
49254.3	10000	41.9086	92.1405	-419	QL	1.9	-2	6.8	-1	1.0	-1	0.272	-1	1.782	-1	6.543	1	1632	45	1.4
49254.4	10000	41.9092	92.1405	-411	QL	2.0	-1	6.5	-1	1.0	-1	0.310	-1	1.923	-1	6.199	0	1628	39	1.4
49254.5	10000	41.9099	92.1405	-404	QL	1.9	-1	6.4	-1	1.0	-1	0.303	-1	1.858	-1	6.130	0	1608	37	1.4
49254.6	10000	41.9105	92.1404	-398	QL	2.0	-1	6.2	-2	1.1	-1	0.314	-1	1.831	-1	5.830	-1	1621	39	1.4
49254.7	10000	41.9112	92.1404	-391	QL	2.0	-1	5.8	-2	1.1	-1	0.343	0	1.821	-1	5.315	-1	1618	53	1.4
49254.8	10000	41.9118	92.1404	-383	QL	2.1	-1	5.7	-2	1.1	-1	0.377	0	1.955	-1	5.191	-2	1643	47	1.4
49254.9	10000	41.9125	92.1404	-376	QL	2.5	0	5.8	-2	1.1	-1	0.423	1	2.312	0	5.462	-1	1665	44	1.4
49255.0	10000	41.9131	92.1403	-368	QL	2.5	0	6.0	-2	1.1	0	0.421	1	2.195	0	5.210	-2	1676	50	1.4
49255.1	10000	41.9138	92.1403	-362	QL	2.5	0	5.9	-2	1.1	0	0.426	1	2.211	0	5.187	-2	1665	51	1.4
49255.2	10000	41.9145	92.1403	-357	QL	2.6	0	5.9	-2	1.1	0	0.439	1	2.287	0	5.208	-2	1658	51	1.4

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49255.3	10000	41.9151	92.1402	-352	QK	2.6	0	6.1	-2	1.1	0	0.432	1	2.301	0	5.330	-2	1664	35	1.4
49255.4	10000	41.9157	92.1402	-344	QK	2.3	0	6.2	-1	1.2	0	0.370	0	1.989	-1	5.370	-2	1670	49	1.4
49255.5	10000	41.9164	92.1402	-333	QK	2.2	-1	6.2	-1	1.1	0	0.359	0	1.952	-1	5.436	-1	1668	56	1.4
49255.6	10000	41.9171	92.1401	-324	QK	2.0	-1	6.2	-1	1.2	0	0.325	0	1.696	-1	5.221	-2	1658	41	1.4
49255.7	10000	41.9177	92.1401	-316	QK	1.8	-1	6.0	-2	1.1	0	0.301	-1	1.635	-1	5.440	-1	1642	46	1.4
49255.8	10000	41.9184	92.1401	-309	QK	1.7	-2	6.3	-1	1.1	0	0.275	-1	1.584	-1	5.750	-1	1647	40	1.4
49255.9	10000	41.9190	92.1400	-302	QK	1.8	-2	6.5	-1	1.1	0	0.272	-1	1.594	-1	5.859	-1	1674	47	1.4
49256.0	10000	41.9197	92.1400	-292	QK	1.8	-1	6.2	-1	1.1	0	0.296	-1	1.651	-1	5.586	-1	1674	46	1.4
49256.1	10000	41.9203	92.1400	-284	QK	1.9	-1	6.3	-1	1.1	0	0.309	-1	1.743	-1	5.647	-1	1693	42	1.5
49256.2	10000	41.9210	92.1399	-284	QK	2.0	-1	5.7	-1	1.1	0	0.300	-1	1.826	-1	6.077	-1	1693	46	1.5
49256.3	10000	41.9216	92.1399	-281	QK	2.0	-1	6.6	-1	1.1	0	0.306	-1	1.813	-1	5.926	-1	1710	48	1.5
49256.4	10000	41.9223	92.1399	-275	QK	2.2	-1	6.8	-1	1.2	1	0.319	0	1.829	-1	5.735	-1	1738	36	1.5
49256.5	10000	41.9229	92.1398	-270	QK	2.3	-1	7.1	0	1.2	1	0.318	0	1.873	-1	5.886	-1	1756	46	1.5
49256.6	10000	41.9236	92.1398	-266	QK	2.2	-1	6.9	0	1.2	1	0.324	0	1.880	-1	5.796	-1	1748	30	1.5
49256.7	10000	41.9242	92.1398	-262	QK	2.3	-1	7.1	0	1.2	1	0.320	0	1.850	-1	5.784	-1	1759	40	1.5
49256.8	10000	41.9249	92.1397	-258	QK	2.3	0	6.7	-1	1.2	1	0.340	0	1.925	-1	5.668	-1	1751	58	1.5
49256.9	10000	41.9255	92.1397	-254	QK	2.1	-1	6.4	-1	1.2	1	0.336	0	1.777	-1	5.282	-2	1754	43	1.5
49257.0	10000	41.9262	92.1397	-250	QK	2.0	-1	6.8	-1	1.2	1	0.299	-1	1.713	-1	5.734	-1	1747	40	1.5
49257.1	10000	41.9268	92.1396	-247	QK	1.9	-1	6.8	-1	1.1	0	0.286	-1	1.705	-1	5.968	-1	1737	37	1.5
49257.2	10000	41.9275	92.1396	-245	QK	1.9	-1	6.4	-1	1.1	0	0.289	-1	1.624	-1	5.625	-1	1723	50	1.5
49257.3	10000	41.9281	92.1396	-243	QK	1.7	-2	6.6	-1	1.2	0	0.263	-1	1.489	-2	5.673	-1	1725	46	1.5
49257.4	10000	41.9288	92.1395	-242	QK	1.6	-2	6.5	-1	1.1	0	0.252	-1	1.463	-2	5.808	-1	1710	38	1.5
49257.5	10000	41.9294	92.1395	-239	QK	1.6	-2	6.6	-1	1.1	0	0.249	-1	1.459	-2	5.859	-1	1700	44	1.5
49257.6	10000	41.9301	92.1395	-237	QK	1.9	-1	6.7	-1	1.1	0	0.290	-1	1.747	-1	6.022	-1	1701	42	1.5
49257.7	10000	41.9307	92.1394	-236	QK	2.1	-1	6.1	-1	1.1	0	0.343	0	1.896	-1	5.522	-1	1708	34	1.5
49257.8	10000	41.9314	92.1394	-236	QK	2.1	-1	6.0	-2	1.1	0	0.345	0	1.811	-1	5.245	-2	1696	56	1.5
49257.9	10000	41.9320	92.1394	-236	QK	2.0	-1	6.1	-2	1.1	0	0.333	0	1.818	-1	5.461	-1	1699	34	1.5
49258.0	10000	41.9327	92.1393	-235	QK	2.1	-1	6.2	-1	1.1	0	0.331	0	1.871	-1	5.655	-1	1714	43	1.5
49258.1	10000	41.9333	92.1393	-233	QL	2.2	-1	6.3	-1	1.1	0	0.348	0	1.948	-1	5.599	-1	1726	50	1.5
49258.2	10000	41.9340	92.1393	-234	QL	2.2	-1	6.6	-1	1.2	0	0.327	0	1.863	-1	5.700	-1	1749	39	1.5
49258.3	10000	41.9346	92.1392	-235	QL	1.9	-2	6.8	-1	1.2	0	0.274	-1	1.585	-1	5.789	-1	1768	39	1.5
49258.4	10000	41.9353	92.1392	-236	QL	1.8	-2	7.3	0	1.2	0	0.242	-2	1.497	-2	6.196	0	1777	43	1.5
49258.5	10000	41.9359	92.1392	-236	QL	2.0	-1	7.6	1	1.1	0	0.259	-1	1.718	-1	6.642	1	1806	37	1.5
49258.6	10000	41.9366	92.1391	-238	QL	2.0	-1	7.7	1	1.2	0	0.264	-1	1.694	-1	6.421	0	1829	48	1.5
49258.7	10000	41.9372	92.1391	-240	QL	2.0	-1	7.6	1	1.2	0	0.259	-1	1.677	-1	6.484	0	1818	47	1.5
49258.8	10000	41.9379	92.1391	-242	QL	1.9	-1	7.5	0	1.1	-1	0.255	-2	1.709	-1	6.708	1	1819	57	1.5
49258.9	10000	41.9385	92.1390	-244	QL	1.9	-2	7.5	0	1.1	0	0.248	-2	1.633	-1	6.571	1	1819	34	1.5
49259.0	10000	41.9392	92.1390	-246	QL	2.0	-1	7.7	1	1.1	0	0.262	-1	1.775	-1	6.783	1	1813	39	1.5
49259.1	10000	41.9398	92.1390	-248	QL	2.1	-1	7.7	1	1.2	0	0.272	-1	1.794	-1	6.607	1	1819	44	1.5
49259.2	10000	41.9405	92.1389	-251	QL	1.9	-2	7.5	0	1.2	0	0.249	-2	1.593	-1	6.388	0	1816	52	1.5
49259.3	10000	41.9411	92.1389	-254	QL	1.9	-2	7.8	1	1.2	0	0.238	-2	1.608	-1	6.747	1	1826	40	1.5
49259.4	10000	41.9418	92.1389	-256	QL	1.9	-1	8.1	1	1.2	1	0.240	-2	1.582	-1	6.593	1	1855	41	1.5
49259.5	10000	41.9424	92.1388	-258	QL	1.9	-1	8.2	2	1.3	1	0.232	-2	1.480	-2	6.369	0	1867	40	1.5
49259.6	10000	41.9431	92.1388	-261	QL	2.0	-1	8.3	2	1.3	1	0.237	-2	1.526	-2	6.452	0	1858	39	1.5
49259.7	10000	41.9437	92.1388	-264	QL	1.8	-2	7.7	1	1.3	1	0.241	-2	1.431	-2	5.947	0	1845	35	1.5
49259.8	10000	41.9444	92.1387	-267	QL	1.8	-2	7.4	0	1.3	1	0.247	-2	1.454	-2	5.880	-1	1844	46	1.5
49259.9	10000	41.9450	92.1387	-271	QL	2.1	-1	7.4	0	1.3	1	0.281	-1	1.649	-1	5.875	-1	1844	43	1.5
49260.0	10000	41.9457	92.1387	-276	QL	2.4	0	7.2	0	1.2	1	0.328	0	1.914	-1	5.834	-1	1836	45	1.5
49260.1	10000	41.9464	92.1386	-280	QL	2.6	0	6.9	-1	1.2	1	0.376	0	2.141	0	5.693	-1	1818	44	1.5
49260.2	10000	41.9470	92.1386	-284	QL	2.7	0	6.8	-1	1.2	0	0.394	1	2.236	0	5.671	-1	1808	45	1.5
49260.3	10000	41.9477	92.1386	-287	QL	2.7	0	7.1	0	1.2	0	0.372	0	2.301	0	6.177	0	1810	59	1.5
49260.4	10000	41.9483	92.1385	-291	QL	2.6	0	7.8	1	1.2	0	0.333	0	2.253	0	6.762	1	1823	43	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49260.5	10000	41.9490	92.1385	-295	QL	2.5	0	7.9	1	1.2	0	0.317	-1	2.150	0	6.773	1	1807	28	1.5
49260.6	10000	41.9496	92.1385	-299	QL	2.2	-1	8.0	1	1.2	0	0.272	-1	1.844	-1	6.774	1	1781	37	1.5
49260.7	10000	41.9503	92.1385	-304	QK	2.0	-1	7.9	1	1.2	1	0.260	-1	1.710	-1	6.588	0	1754	39	1.5
49260.8	10000	41.9509	92.1384	-308	QK	1.7	-2	7.9	1	1.2	0	0.221	-2	1.513	-2	6.841	1	1723	56	1.5
49260.9	10000	41.9516	92.1384	-312	QK	1.8	-2	7.8	1	1.2	0	0.226	-2	1.517	-2	6.721	0	1718	39	1.5
49261.0	10000	41.9522	92.1384	-315	QK	1.7	-2	7.5	0	1.2	1	0.233	-2	1.453	-2	6.237	0	1717	40	1.5
49261.1	10000	41.9529	92.1383	-318	QK	1.7	-2	7.3	0	1.1	0	0.237	-2	1.530	-2	6.445	0	1700	47	1.5
49261.2	10000	41.9535	92.1383	-324	QK	1.8	-2	7.4	0	1.1	0	0.241	-2	1.587	-1	6.598	0	1693	33	1.5
49261.3	10000	41.9542	92.1383	-331	QK	1.9	-1	7.1	0	1.1	0	0.265	-1	1.711	-1	6.456	0	1700	35	1.5
49261.4	10000	41.9548	92.1382	-337	QK	1.6	-2	6.9	0	1.0	-1	0.236	-2	1.565	-1	6.628	0	1680	44	1.5
49261.5	10000	41.9555	92.1382	-341	QK	1.7	-2	7.0	0	1.1	0	0.245	-1	1.595	-1	6.511	0	1667	46	1.5
49261.6	10000	41.9561	92.1382	-346	QK	1.5	-2	6.8	-1	1.0	-1	0.221	-2	1.465	-2	6.624	0	1636	34	1.5
49261.7	10000	41.9568	92.1381	-351	QK	1.6	-2	7.0	0	1.0	-1	0.237	-2	1.651	-1	6.976	1	1599	42	1.5
49261.8	10000	41.9574	92.1381	-356	QL	2.0	-1	6.7	-1	1.0	-2	0.297	-1	2.018	0	6.794	1	1591	45	1.5
49261.9	10000	41.9581	92.1381	-361	QL	2.3	-1	6.8	-1	1.0	-2	0.333	0	2.267	0	6.809	1	1593	40	1.5
49262.0	10000	41.9587	92.1380	-366	QL	2.1	-1	7.0	0	1.0	-2	0.302	-1	2.156	0	7.135	2	1581	33	1.5
49262.1	10000	41.9594	92.1380	-371	QL	2.2	-1	7.0	0	1.0	-2	0.313	-1	2.140	0	6.837	1	1592	53	1.5
49262.2	10000	41.9600	92.1380	-376	QL	2.3	-1	7.0	0	1.0	-2	0.325	0	2.273	0	6.992	1	1592	37	1.5
49262.3	10000	41.9607	92.1379	-381	QL	2.5	0	7.0	0	1.0	-2	0.352	0	2.504	1	7.107	2	1592	44	1.5
49262.4	10000	41.9613	92.1379	-386	QL	2.5	0	6.8	-1	1.0	-2	0.363	0	2.456	1	6.759	1	1609	41	1.5
49262.5	10000	41.9620	92.1379	-391	QL	2.4	0	6.8	-1	1.0	-2	0.348	0	2.301	0	6.602	1	1617	40	1.5
49262.6	10000	41.9626	92.1378	-397	QL	2.1	-1	6.7	-1	1.0	-1	0.318	-1	2.035	0	6.397	0	1625	22	1.5
49262.7	10000	41.9633	92.1378	-402	QL	2.3	-1	6.7	-1	1.1	-1	0.345	0	2.160	0	6.263	0	1641	46	1.5
49262.8	10000	41.9639	92.1378	-407	QL	2.4	0	6.8	-1	1.0	-1	0.348	0	2.280	0	6.546	1	1674	37	1.5
49262.9	10000	41.9646	92.1377	-413	QL	2.3	-1	7.2	0	1.1	-1	0.322	-1	2.117	0	6.578	1	1708	39	1.5
49263.0	10000	41.9652	92.1377	-419	QL	2.2	-1	7.7	1	1.1	0	0.280	-1	1.893	-1	6.759	1	1739	31	1.5
49263.1	10000	41.9659	92.1377	-424	QL	2.0	-1	7.8	1	1.2	0	0.260	-1	1.763	-1	6.782	1	1767	40	1.5
49263.2	10000	41.9665	92.1376	-429	QL	2.0	-1	7.9	1	1.2	0	0.251	-2	1.687	-1	6.720	1	1783	45	1.5
49263.3	10000	41.9672	92.1376	-435	QL	2.0	-1	8.3	2	1.2	0	0.245	-2	1.699	-1	6.924	1	1780	50	1.5
49263.4	10000	41.9678	92.1376	-440	QL	1.9	-2	8.3	2	1.2	0	0.224	-2	1.555	-2	6.934	1	1791	41	1.5
49263.5	10000	41.9685	92.1375	-445	QL	1.9	-1	8.3	2	1.2	0	0.234	-2	1.607	-1	6.871	1	1789	48	1.5
49263.6	10000	41.9691	92.1375	-451	QL	1.9	-2	7.8	1	1.2	0	0.240	-2	1.565	-2	6.530	1	1794	37	1.5
49263.7	10000	41.9698	92.1375	-456	QL	2.1	-1	7.6	1	1.2	0	0.271	-1	1.693	-1	6.248	0	1797	45	1.5
49263.8	10000	41.9704	92.1374	-462	QL	2.1	-1	7.4	1	1.2	0	0.284	-1	1.758	-1	6.188	0	1794	46	1.5
49263.9	10000	41.9711	92.1374	-468	QL	2.0	-1	7.3	0	1.2	0	0.270	-1	1.643	-1	6.087	-1	1778	39	1.5
49264.0	10000	41.9717	92.1374	-472	QL	1.9	-2	7.0	0	1.2	0	0.268	-1	1.554	-2	5.792	-1	1783	55	1.5
49264.1	10000	41.9724	92.1373	-477	QL	2.0	-1	7.2	0	1.2	0	0.271	-1	1.618	-1	5.980	-1	1786	41	1.5
49264.2	10000	41.9730	92.1373	-481	QL	2.0	-1	7.1	0	1.2	0	0.283	-1	1.646	-1	5.819	-1	1777	59	1.5
49264.3	10000	41.9737	92.1373	-485	QL	2.0	-1	7.1	0	1.2	0	0.281	-1	1.701	-1	6.062	0	1764	38	1.5
49264.4	10000	41.9743	92.1372	-489	QL	1.9	-1	7.5	1	1.1	0	0.260	-1	1.717	-1	6.599	1	1762	48	1.5
49264.5	10000	41.9750	92.1372	-493	QK	2.1	-1	7.8	1	1.1	0	0.270	-1	1.869	-1	6.929	1	1760	40	1.5
49264.6	10000	41.9757	92.1372	-498	QK	2.2	-1	8.1	1	1.1	0	0.277	-1	2.058	0	7.423	1	1773	58	1.5
49264.7	10000	41.9763	92.1371	-501	QK	2.5	0	8.3	2	1.1	0	0.308	-1	2.392	0	7.777	2	1791	40	1.5
49264.8	10000	41.9770	92.1371	-505	QK	2.5	0	8.2	2	1.1	0	0.306	-1	2.313	0	7.559	1	1788	42	1.5
49264.9	10000	41.9776	92.1371	-509	QK	2.3	0	8.2	2	1.1	0	0.282	-1	2.177	0	7.717	1	1786	40	1.5
49265.0	10000	41.9783	92.1370	-513	QK	2.6	0	8.2	2	1.1	0	0.318	0	2.370	0	7.445	1	1799	41	1.5
49265.1	10000	41.9789	92.1370	-518	QK	2.8	1	7.9	2	1.1	0	0.358	0	2.529	1	7.063	1	1799	40	1.5
49265.2	10000	41.9796	92.1370	-523	QK	2.8	1	7.7	1	1.1	0	0.361	0	2.444	0	6.776	1	1799	39	1.5
49265.3	10000	41.9802	92.1369	-526	QK	2.8	1	7.4	1	1.2	0	0.371	0	2.360	0	6.359	1	1804	46	1.5
49265.4	10000	41.9809	92.1369	-530	QK	2.5	0	7.5	1	1.2	0	0.337	0	2.155	0	6.400	1	1792	38	1.5
49265.5	10000	41.9815	92.1369	-533	QK	2.6	0	7.1	0	1.2	0	0.366	0	2.247	0	6.133	1	1782	50	1.5
49265.6	10000	41.9822	92.1368	-537	QK	2.6	0	7.3	0	1.1	0	0.350	0	2.226	0	6.352	0	1784	37	1.5

LINE 1120 DATA ACQUIRED 80330 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
49265.7	10000	41.9828	92.1368	-540	QK	2.3	0	7.3	0	1.2	0	0.321	0	1.984	-1	6.181	0	1769	40	1.5
49265.8	10000	41.9835	92.1368	-544	QK	2.0	-1	7.2	0	1.2	1	0.271	-1	1.617	-1	5.961	-1	1758	49	1.5
49265.9	10000	41.9841	92.1367	-547	QK	1.8	-1	7.3	0	1.2	1	0.255	-1	1.516	-2	5.955	-1	1741	46	1.5
49266.0	10000	41.9848	92.1367	-550	QK	1.8	-1	7.4	0	1.2	1	0.244	-1	1.465	-2	6.010	-1	1729	34	1.5
49266.1	10000	41.9854	92.1367	-553	QK	1.8	-1	7.3	0	1.2	1	0.248	-1	1.499	-2	6.042	-1	1739	52	1.5
49266.2	10000	41.9861	92.1366	-556	QK	1.8	-1	7.5	0	1.2	1	0.239	-2	1.482	-2	6.211	0	1745	65	1.5
49266.3	10000	41.9867	92.1366	-559	QK	1.9	-1	7.5	0	1.2	1	0.249	-1	1.525	-2	6.134	0	1737	52	1.5
49266.4	10000	41.9874	92.1366	-562	QK	1.8	-1	7.4	0	1.2	1	0.249	-1	1.560	-1	6.270	0	1748	38	1.5
49266.5	10000	41.9880	92.1366	-565	QK	1.9	-1	7.4	0	1.2	0	0.253	-1	1.600	-1	6.329	0	1752	50	1.6
49266.6	10000	41.9887	92.1365	-568	QK	2.0	-1	7.2	0	1.2	1	0.282	-1	1.710	-1	6.069	-1	1748	46	1.6
49266.7	10000	41.9893	92.1365	-570	QK	2.0	-1	6.9	0	1.1	0	0.285	-1	1.715	-1	6.018	-1	1735	44	1.6
49266.8	10000	41.9900	92.1365	-572	QK	2.2	-1	6.6	-1	1.2	1	0.329	0	1.848	-1	5.616	-1	1727	37	1.6
49266.9	10000	41.9906	92.1364	-573	QK	2.1	-1	6.6	-1	1.2	1	0.323	0	1.779	-1	5.511	-1	1721	46	1.6
49267.0	10000	41.9913	92.1364	-575	QK	2.2	-1	6.5	-1	1.2	1	0.338	0	1.866	-1	5.521	-1	1716	42	1.6
49267.1	10000	41.9919	92.1364	-577	QK	2.2	-1	6.4	-1	1.2	1	0.346	0	1.873	-1	5.414	-2	1721	31	1.6
49267.2	10000	41.9926	92.1363	-579	QK	2.5	0	6.8	-1	1.2	1	0.364	0	2.132	0	5.850	-1	1732	53	1.6
49267.3	10000	41.9932	92.1363	-580	QK	2.6	0	6.8	-1	1.1	0	0.382	0	2.373	0	6.204	0	1747	43	1.6
49267.4	10000	41.9939	92.1363	-582	QK	2.7	0	6.8	-1	1.1	0	0.388	1	2.450	0	6.310	0	1752	49	1.6
49267.5	10000	41.9945	92.1362	-583	QK	2.3	0	7.1	0	1.1	0	0.326	0	2.082	0	6.383	0	1738	36	1.6
49267.6	10000	41.9952	92.1362	-583	QK	2.3	0	7.1	0	1.1	0	0.326	0	2.046	0	6.281	0	1743	36	1.6
49267.7	10000	41.9958	92.1362	-584	QK	2.2	-1	6.9	0	1.2	1	0.316	0	1.833	-1	5.802	-1	1757	42	1.6
49267.8	10000	41.9965	92.1361	-585	QK	2.1	-1	7.0	0	1.2	1	0.300	-1	1.718	-1	5.731	-1	1749	39	1.6
49267.9	10000	41.9971	92.1361	-586	QK	1.7	-2	6.8	-1	1.2	1	0.258	-1	1.409	-2	5.467	-1	1747	34	1.7
49268.0	10000	41.9978	92.1361	-586	QK	1.6	-2	7.0	0	1.3	1	0.228	-2	1.244	-2	5.462	-1	1755	41	1.7
49268.1	10000	41.9984	92.1360	-587	QK	1.7	-2	7.2	0	1.3	2	0.238	-2	1.292	-2	5.430	-1	1769	50	1.7
49268.2	10000	41.9991	92.1360	-587	QK	1.9	-1	7.0	0	1.3	1	0.270	-1	1.480	-2	5.479	-1	1787	39	1.7
49268.3	10000	41.9997	92.1360	-587	QK	2.1	-1	7.1	0	1.3	1	0.291	-1	1.652	-1	5.679	-1	1793	43	1.7

GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-
A 1	1070	E 5	1080	I 9	1100	M 13	1120								
B 1	1070	F 5	1080	J 9	1100										
C 1	1070	G 5	1080	K 9	1100	A 14	1120								
D 1	1070	H 5	1080	L 9	1100	B 14	1120								
E 1	1070	I 5	1080	M 9	1100	C 14	1120								
F 1	1070	J 5	1080			D 14	1120								
G 1	1070	K 5	1080	A 10	1100	E 14	1120								
H 1	1070	L 5	1080	B 10	1100	F 14	1120								
I 1	1070	M 5	1080	C 10	1100	G 14	1120								
J 1	1070			D 10	1100	H 14	1120								
K 1	1070	A 6	1080	E 10	1100	I 14	1120								
L 1	1070	B 6	1080	F 10	1100	J 14	1120								
M 1	1070	C 6	1090	G 10	1100	K 14	1120								
		D 6	1090	H 10	1100	L 14	1120								
A 2	1070	E 6	1090	I 10	1100	M 14	1120								
B 2	1070	F 6	1090	J 10	1100										
C 2	1070	G 6	1090	K 10	1100	A 15	1120								
D 2	1070	H 6	1090	L 10	1100	B 15	1120								
E 2	1070	I 6	1090	M 10	1100	C 15	1120								
F 2	1070	J 6	1090			D 15	1120								
G 2	1070	K 6	1090	A 11	1100	E 15	1120								
H 2	1070	L 6	1090	B 11	1100	F 15	1120								
I 2	1070	M 6	1090	C 11	1110	G 15	1120								
J 2	1070			D 11	1110	H 15	1120								
K 2	1070	A 7	1090	E 11	1110	I 15	1120								
L 2	1070	B 7	1090	F 11	1110	J 15	1120								
M 2	1070	C 7	1090	G 11	1110	K 15	1120								
		D 7	1090	H 11	1110	L 15	1120								
A 3	1070	E 7	1090	I 11	1110	M 15	1120								
B 3	1070	F 7	1090	J 11	1110										
C 3	1070	G 7	1090	K 11	1110	A 16	1120								
D 3	1070	H 7	1090	L 11	1110										
E 3	1070	I 7	1090	M 11	1110										
F 3	1070	J 7	1090												
G 3	1070	K 7	1090	A 12	1110										
H 3	1070	L 7	1090	B 12	1110										
I 3	1070	M 7	1090	C 12	1110										
J 3	1070			D 12	1110										
K 3	1080	A 8	1090	E 12	1110										
L 3	1080	B 8	1090	F 12	1110										
M 3	1080	C 8	1090	G 12	1110										
		D 8	1090	H 12	1110										
A 4	1080	E 8	1090	I 12	1110										
B 4	1080	F 8	1090	J 12	1110										
C 4	1080	G 8	1090	K 12	1110										
D 4	1080	H 8	1100	L 12	1110										
E 4	1080	I 8	1100	M 12	1110										
F 4	1080	J 8	1100												
G 4	1080	K 8	1100	A 13	1110										
H 4	1080	L 8	1100	B 13	1110										
I 4	1080	M 8	1100	C 13	1110										
J 4	1080			D 13	1110										
K 4	1080	A 9	1100	E 13	1110										
L 4	1080	B 9	1100	F 13	1110										
M 4	1080	C 9	1100	G 13	1110										
		D 9	1100	H 13	1110										
A 5	1080	E 9	1100	I 13	1110										
B 5	1080	F 9	1100	J 13	1110										
C 5	1080	G 9	1100	K 13	1120										
D 5	1080	H 9	1100	L 13	1120										

1LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25865.4	10000	41.9806	93.9997	-172	QW	1.8	0	5.5	0	1.1	1	0.330	0	1.650	-1	5.006	0	1980	37	3.8
25865.3	10000	41.9806	93.9989	-176	QW	1.8	0	5.7	0	1.1	1	0.317	-1	1.593	-1	5.022	0	1986	48	3.8
25865.2	10000	41.9806	93.9982	-179	QW	1.9	0	5.8	0	1.1	1	0.326	0	1.665	-1	5.101	0	1985	39	3.8
25865.1	10000	41.9806	93.9975	-182	QW	1.8	0	5.7	0	1.1	1	0.326	0	1.648	-1	5.053	0	1984	39	3.9
25865.0	10000	41.9807	93.9967	-184	QW	1.9	0	6.2	1	1.1	1	0.312	-1	1.696	0	5.433	0	1992	47	3.9
25864.9	10000	41.9807	93.9960	-187	QW	2.0	0	6.1	1	1.1	1	0.328	0	1.803	0	5.490	0	2000	43	3.9
25864.8	10000	41.9807	93.9953	-192	QW	2.2	1	6.5	2	1.1	1	0.338	0	1.972	0	5.833	1	1999	50	3.9
25864.7	10000	41.9807	93.9945	-195	QW	2.0	0	6.4	1	1.1	1	0.311	-1	1.762	0	5.674	1	2004	56	3.9
25864.6	10000	41.9807	93.9938	-199	QW	2.3	1	6.7	2	1.1	1	0.348	0	2.126	0	6.101	1	2009	48	3.9
25864.5	10000	41.9807	93.9930	-202	QW	2.2	0	6.8	2	1.1	0	0.320	-1	2.016	0	6.299	2	2012	47	3.9
25864.4	10000	41.9807	93.9923	-206	QW	2.2	0	7.2	3	1.1	0	0.304	-1	1.986	0	6.538	2	2020	55	3.9
25864.3	10000	41.9807	93.9916	-211	QW	2.1	0	6.7	2	1.1	1	0.323	-1	1.912	0	6.922	1	2045	41	3.9
25864.2	10000	41.9807	93.9908	-214	QW	2.2	1	6.6	2	1.1	1	0.336	0	1.951	0	5.814	1	2048	58	3.9
25864.1	10000	41.9808	93.9901	-219	QW	2.3	1	6.5	2	1.1	1	0.349	0	1.998	0	5.723	1	2056	55	3.9
25864.0	10000	41.9808	93.9894	-222	QW	2.3	1	6.7	2	1.1	1	0.343	0	2.043	0	5.964	1	2055	51	4.0
25863.9	10000	41.9808	93.9886	-226	QW	2.2	1	6.3	1	1.1	1	0.350	0	1.959	0	5.595	1	2043	46	4.0
25863.8	10000	41.9808	93.9879	-229	QW	2.1	0	5.9	1	1.1	1	0.347	0	1.807	0	5.209	0	2034	47	4.0
25863.7	10000	41.9808	93.9872	-231	QW	2.2	1	5.3	0	1.1	0	0.415	0	2.012	0	4.848	-1	2021	37	4.0
25863.6	10000	41.9808	93.9864	-233	QW	2.3	1	5.7	0	1.0	0	0.396	0	2.201	1	5.556	1	1999	61	4.0
25863.5	10000	41.9808	93.9857	-237	QW	2.0	0	5.6	0	1.0	0	0.359	0	1.995	0	5.552	1	1990	45	4.0
25863.4	10000	41.9808	93.9850	-241	QW	1.9	0	5.4	0	1.0	-1	0.357	0	1.981	0	5.550	1	1986	60	4.0
25863.3	10000	41.9808	93.9842	-244	QW	1.9	0	5.2	0	1.0	0	0.373	0	1.903	0	5.106	0	1992	47	4.0
25863.2	10000	41.9809	93.9835	-247	QW	1.8	-1	5.3	0	1.0	0	0.337	0	1.751	0	5.204	0	2000	59	4.0
25863.1	10000	41.9809	93.9828	-250	QW	2.0	0	5.4	0	1.0	-1	0.369	0	2.005	0	5.438	0	2011	47	4.0
25863.0	10000	41.9809	93.9820	-252	QW	2.1	0	5.7	0	1.0	0	0.361	0	2.042	0	5.659	1	2015	57	4.1
25862.9	10000	41.9809	93.9813	-254	QW	2.4	1	5.6	0	1.1	0	0.427	1	2.224	1	5.214	0	2024	49	4.1
25862.8	10000	41.9809	93.9806	-257	QW	2.1	0	5.6	0	1.0	0	0.381	0	2.047	0	5.371	0	2016	41	4.1
25862.7	10000	41.9809	93.9798	-258	QW	2.2	0	5.7	0	1.0	0	0.378	0	2.144	0	5.674	1	2008	42	4.1
25862.6	10000	41.9809	93.9791	-260	QW	2.4	1	6.1	1	1.0	-1	0.394	0	2.501	1	6.355	2	1994	59	4.1
25862.5	10000	41.9809	93.9784	-262	QW	2.4	1	5.9	1	0.9	-1	0.409	0	2.610	1	6.389	2	1987	38	4.1
25862.4	10000	41.9809	93.9776	-264	QW	2.4	1	5.7	0	0.9	-1	0.432	1	2.583	1	5.981	1	1991	46	4.1
25862.3	10000	41.9810	93.9769	-265	QW	2.1	0	5.8	1	1.0	-1	0.369	0	2.189	1	5.926	1	2001	51	4.1
25862.2	10000	41.9810	93.9762	-266	QW	1.7	-1	5.9	1	1.0	0	0.289	-1	1.685	0	5.841	1	1992	37	4.1
25862.1	10000	41.9810	93.9754	-268	QW	1.9	0	5.9	1	1.0	0	0.323	-1	1.852	0	5.733	1	1991	46	4.1
25862.0	10000	41.9810	93.9747	-270	QW	1.7	-1	5.9	1	1.1	0	0.280	-1	1.563	-1	5.590	1	1995	56	4.1
25861.9	10000	41.9810	93.9740	-270	QW	1.6	-1	5.8	1	1.1	0	0.273	-1	1.446	-1	5.292	0	2003	40	4.1
25861.8	10000	41.9810	93.9732	-271	QW	1.6	-1	5.8	1	1.1	1	0.267	-1	1.382	-1	5.166	0	2003	68	4.1
25861.7	10000	41.9810	93.9725	-272	QW	1.5	-1	6.6	2	1.1	1	0.232	-1	1.359	-1	5.851	1	2017	64	4.1
25861.6	10000	41.9810	93.9718	-272	QW	1.6	-1	6.4	1	1.2	1	0.249	-1	1.384	-1	5.558	1	2021	57	4.1
25861.5	10000	41.9811	93.9710	-272	QW	1.6	-1	6.3	1	1.1	1	0.254	-1	1.484	-1	5.849	1	2012	54	4.1
25861.4	10000	41.9811	93.9703	-273	QW	1.6	-1	6.5	2	1.1	1	0.250	-1	1.460	-1	5.845	1	2016	48	4.2
25861.3	10000	41.9811	93.9695	-274	QW	1.8	0	6.6	2	1.1	1	0.273	-1	1.617	-1	5.915	1	2016	47	4.2
25861.2	10000	41.9811	93.9688	-274	QW	2.1	0	6.3	1	1.1	1	0.337	0	1.880	0	5.575	1	2013	58	4.2
25861.1	10000	41.9811	93.9681	-274	QW	1.8	0	6.4	1	1.1	1	0.285	-1	1.651	-1	5.800	1	1999	40	4.2
25861.0	10000	41.9811	93.9673	-275	QW	1.8	0	6.1	1	1.1	1	0.297	-1	1.603	-1	5.397	0	1979	54	4.2
25860.9	10000	41.9811	93.9666	-275	QW	1.9	0	6.3	1	1.1	1	0.306	-1	1.810	0	5.919	1	1961	37	4.2
25860.8	10000	41.9811	93.9659	-276	QW	1.8	0	6.4	1	1.1	1	0.281	-1	1.674	0	5.964	1	1966	51	4.2
25860.7	10000	41.9811	93.9651	-276	QW	1.9	0	6.3	1	1.1	1	0.302	-1	1.791	0	5.937	1	1953	56	4.2
25860.6	10000	41.9812	93.9644	-276	QW	1.6	-1	6.0	1	1.1	1	0.265	-1	1.488	-1	5.606	1	1935	46	4.2
25860.5	10000	41.9812	93.9637	-276	QW	1.1	-2	6.2	1	1.1	1	0.174	-2	1.008	-2	5.804	1	1934	57	4.2
25860.4	10000	41.9812	93.9629	-277	QW	1.0	-2	6.0	1	1.1	0	0.169	-2	0.938	-2	5.565	1	1939	53	4.2
25860.3	10000	41.9812	93.9622	-277	QW	1.2	-2	6.0	1	1.1	0	0.203	-2	1.157	-2	5.708	1	1932	51	4.2

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAK.UT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25860.2	10000	41.9812	93.9615	-277	QW	1.0	-2	5.8	0	1.1	0	0.168	-2	0.902	-2	5.371	0	1918	51	4.2
25860.1	10000	41.9812	93.9607	-278	QW	1.2	-2	5.6	0	1.1	0	0.206	-2	1.076	-2	5.221	0	1920	49	4.2
25860.0	10000	41.9812	93.9600	-278	QW	1.1	-2	5.7	0	1.1	0	0.188	-2	0.990	-2	5.260	0	1917	44	4.2
25859.9	10000	41.9812	93.9593	-279	QW	1.5	-1	5.8	1	1.0	0	0.262	-1	1.454	-1	5.551	1	1933	35	4.2
25859.8	10000	41.9812	93.9585	-279	QW	1.5	-1	5.8	0	1.0	0	0.257	-1	1.452	-1	5.656	1	1926	60	4.2
25859.7	10000	41.9813	93.9578	-280	QW	1.7	-1	5.7	0	1.1	0	0.302	-1	1.620	-1	5.368	0	1927	50	4.2
25859.6	10000	41.9813	93.9571	-280	QW	1.8	0	5.6	0	1.0	0	0.321	-1	1.704	0	5.314	0	1934	48	4.2
25859.5	10000	41.9813	93.9563	-281	QW	2.2	1	5.7	0	1.1	0	0.391	0	2.111	0	5.395	0	1965	54	4.2
25859.4	10000	41.9813	93.9556	-283	QW	2.2	1	5.9	1	1.1	0	0.376	0	2.061	0	5.481	0	1970	58	4.2
25859.3	10000	41.9813	93.9549	-284	QW	2.2	0	6.0	1	1.1	0	0.360	0	1.996	0	5.537	1	1983	40	4.2
25859.2	10000	41.9813	93.9541	-285	QW	2.0	0	6.0	1	1.1	1	0.332	0	1.747	0	5.265	0	1981	39	4.2
25859.1	10000	41.9813	93.9534	-287	QW	1.9	0	6.2	1	1.1	1	0.310	-1	1.715	0	5.535	1	1976	52	4.2
25859.0	10000	41.9813	93.9527	-289	QW	2.1	0	6.2	1	1.1	0	0.342	0	1.975	0	5.770	1	1968	45	4.2
25858.9	10000	41.9813	93.9519	-290	QW	1.8	-1	6.3	1	1.1	0	0.281	-1	1.604	-1	5.707	1	1958	47	4.2
25858.8	10000	41.9814	93.9512	-292	QW	1.4	-1	6.3	1	1.1	0	0.232	-1	1.310	-1	5.652	1	1937	38	4.2
25858.7	10000	41.9814	93.9505	-292	QW	1.3	-2	6.0	1	1.1	0	0.222	-2	1.222	-1	5.497	0	1917	55	4.2
25858.6	10000	41.9814	93.9497	-292	QW	1.6	-1	5.7	0	1.1	0	0.275	-1	1.425	-1	5.182	0	1901	41	4.2
25858.5	10000	41.9814	93.9490	-293	QW	1.5	-1	5.2	0	1.1	0	0.288	-1	1.393	-1	4.845	-1	1892	54	4.2
25858.4	10000	41.9814	93.9482	-294	QW	1.8	-1	4.8	-1	1.1	1	0.366	0	1.580	-1	4.319	-1	1890	36	4.2
25858.3	10000	41.9814	93.9475	-295	QW	1.7	-1	4.7	-1	1.1	1	0.351	0	1.502	-1	4.280	-1	1904	45	4.2
25858.2	10000	41.9814	93.9468	-296	QW	1.7	-1	4.6	-1	1.1	1	0.376	0	1.553	-1	4.134	-2	1909	39	4.2
25858.1	10000	41.9814	93.9460	-297	QW	1.7	-1	4.6	-1	1.1	0	0.381	0	1.612	-1	4.235	-2	1900	50	4.2
25858.0	10000	41.9815	93.9453	-297	QW	1.9	0	4.3	-2	1.1	0	0.440	1	1.768	0	4.016	-2	1896	46	4.2
25857.9	10000	41.9815	93.9446	-297	QW	1.8	0	4.5	-1	1.1	0	0.394	0	1.697	0	4.307	-1	1902	44	4.2
25857.8	10000	41.9815	93.9438	-297	QW	2.1	0	4.9	-1	1.0	0	0.423	1	2.033	0	4.801	-1	1903	45	4.2
25857.7	10000	41.9815	93.9431	-297	QW	1.9	0	4.7	-1	1.0	-1	0.397	0	1.913	0	4.820	-1	1913	45	4.2
25857.6	10000	41.9815	93.9424	-297	QW	1.8	0	5.1	-1	1.0	0	0.353	0	1.777	0	5.036	0	1925	41	4.2
25857.5	10000	41.9815	93.9416	-297	QW	2.0	0	5.0	-1	1.0	-1	0.404	1	2.064	0	5.106	0	1949	57	4.2
25857.4	10000	41.9815	93.9409	-297	QW	2.0	0	5.2	0	1.0	0	0.390	0	1.983	0	5.085	0	1982	58	4.2
25857.3	10000	41.9815	93.9402	-297	QW	1.9	0	5.6	0	1.0	0	0.335	0	1.848	1	5.513	1	2010	43	4.2
25857.2	10000	41.9815	93.9394	-296	QW	1.7	-1	5.4	-1	1.0	-1	0.316	-1	1.734	0	5.480	1	2034	46	4.2
25857.1	10000	41.9815	93.9387	-296	QW	1.6	-1	5.6	-1	1.0	-1	0.289	-1	1.659	-1	5.742	1	2042	40	4.2
25857.0	10000	41.9816	93.9380	-296	QW	1.8	0	5.6	-1	1.0	-1	0.320	-1	1.835	0	5.735	1	2047	48	4.2
25856.9	10000	41.9816	93.9372	-296	QW	2.0	0	5.1	-1	1.0	-1	0.384	0	2.029	0	5.278	0	2037	38	4.2
25856.8	10000	41.9816	93.9365	-297	QW	1.7	-1	5.1	-1	1.0	-1	0.325	0	1.721	0	5.288	0	2020	44	4.2
25856.7	10000	41.9816	93.9358	-298	QW	1.5	-1	5.1	0	1.0	0	0.287	-1	1.421	-1	4.949	0	2005	48	4.2
25856.6	10000	41.9816	93.9350	-299	QW	1.3	-2	4.8	-1	1.1	1	0.267	-1	1.212	-1	4.542	-1	1993	57	4.2
25856.5	10000	41.9816	93.9343	-300	QW	1.5	-1	5.0	-1	1.1	1	0.291	-1	1.311	-1	4.511	-1	1974	44	4.2
25856.4	10000	41.9816	93.9336	-301	QW	1.3	-2	4.9	-1	1.1	1	0.272	-1	1.212	-1	4.456	-1	1955	69	4.2
25856.3	10000	41.9816	93.9328	-302	QW	1.2	-2	5.2	0	1.1	1	0.231	-1	1.052	-2	4.548	-1	1938	50	4.2
25856.2	10000	41.9817	93.9321	-303	QW	1.1	-2	5.2	0	1.1	0	0.209	-2	1.017	-2	4.859	-1	1901	41	4.2
25856.1	10000	41.9817	93.9314	-305	QW	0.9	-3	5.4	0	1.1	0	0.162	-2	0.820	-2	5.056	0	1877	41	4.2
25856.0	10000	41.9817	93.9306	-307	QW	1.0	-2	5.2	0	1.1	0	0.185	-2	0.922	-2	4.983	0	1861	45	4.2
25855.9	10000	41.9817	93.9299	-309	QW	1.0	-2	5.4	0	1.1	0	0.193	-2	1.016	-2	5.258	0	1861	45	4.2
25855.8	10000	41.9817	93.9292	-311	QW	1.0	-2	5.2	0	1.1	0	0.191	-2	0.992	-2	5.185	0	1876	40	4.2
25855.7	10000	41.9817	93.9284	-313	QW	1.3	-2	5.0	0	1.1	0	0.263	-1	1.315	-1	5.005	0	1895	53	4.2
25855.6	10000	41.9817	93.9277	-316	QW	1.8	-1	5.2	0	1.1	0	0.359	0	1.830	-1	5.104	0	1920	44	4.2
25855.5	10000	41.9817	93.9270	-317	QW	1.5	-1	5.2	0	1.1	0	0.279	-1	1.456	-1	5.214	0	1974	46	4.2
25855.4	10000	41.9817	93.9262	-320	QW	2.1	0	5.5	1	1.1	0	0.399	0	2.014	0	5.053	0	1995	38	4.2
25855.3	10000	41.9817	93.9255	-322	QW	2.3	1	5.5	1	1.1	0	0.425	1	2.408	1	5.660	1	2019	37	4.1
25855.2	10000	41.9818	93.9247	-326	QW	2.5	1	5.5	1	1.1	0	0.458	1	2.566	1	5.598	1	2017	43	4.1
25855.1	10000	41.9818	93.9240	-329	QW	2.4	1	5.3	0	1.0	-1	0.453	1	2.425	1	5.349	0	1981	56	4.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25855.0	10000	41.9818	93.9233	-331	QW	2.0	0	5.6	0	1.0	0	0.356	0	1.917	0	5.378	0	1965	50	4.1
25854.9	10000	41.9818	93.9225	-332	QW	1.5	-1	5.9	1	1.1	0	0.261	-1	1.415	-1	5.414	0	1951	44	4.1
25854.8	10000	41.9817	93.9218	-334	QW	1.8	-1	5.7	0	1.1	0	0.308	-1	1.645	-1	5.336	0	1926	40	4.1
25854.7	10000	41.9817	93.9210	-335	QW	1.6	-1	5.7	0	1.1	0	0.281	-1	1.449	-1	5.165	0	1932	47	4.1
25854.6	10000	41.9817	93.9202	-337	QW	1.5	-1	5.5	0	1.1	1	0.280	-1	1.369	-1	4.885	0	1918	47	4.1
25854.5	10000	41.9817	93.9195	-339	QW	1.6	-1	5.4	0	1.1	1	0.292	-1	1.403	-1	4.803	-1	1918	61	4.1
25854.4	10000	41.9817	93.9187	-341	QW	1.6	-1	5.8	0	1.1	0	0.270	-1	1.418	-1	5.245	0	1926	44	4.1
25854.3	10000	41.9817	93.9180	-344	QW	1.6	-1	5.5	0	1.1	0	0.289	-1	1.503	-1	5.195	0	1909	48	4.1
25854.2	10000	41.9817	93.9172	-347	QW	1.8	0	5.3	0	1.0	0	0.342	0	1.747	0	5.113	0	1903	43	4.1
25854.1	10000	41.9817	93.9165	-350	QW	1.7	-1	5.0	-1	1.0	0	0.331	0	1.626	-1	4.909	0	1904	50	4.1
25854.0	10000	41.9817	93.9157	-353	QW	1.7	-1	4.9	-1	1.0	0	0.346	0	1.672	0	4.836	-1	1885	48	4.1
25853.9	10000	41.9817	93.9149	-357	QW	1.8	-1	5.0	-1	1.0	-1	0.354	0	1.773	0	5.015	0	1878	36	4.1
25853.8	10000	41.9817	93.9142	-359	QW	1.8	0	4.8	-1	1.0	-1	0.371	0	1.838	0	4.949	0	1868	53	4.1
25853.7	10000	41.9817	93.9134	-361	QW	1.8	0	4.4	-1	0.9	-1	0.407	0	1.932	0	4.745	-1	1872	58	4.1
25853.6	10000	41.9816	93.9127	-363	QW	1.9	0	4.6	-1	1.0	-1	0.405	0	1.939	0	4.792	-1	1877	46	4.1
25853.5	10000	41.9816	93.9119	-365	QW	1.9	0	4.4	-2	0.9	-2	0.446	1	2.162	1	4.843	-1	1859	42	4.1
25853.4	10000	41.9816	93.9112	-366	QW	2.1	0	4.5	-1	0.9	-2	0.461	1	2.359	1	5.118	0	1825	48	4.1
25853.3	10000	41.9816	93.9104	-367	QW	1.9	0	4.4	-2	0.8	-2	0.424	1	2.201	1	5.189	0	1802	36	4.1
25853.2	10000	41.9816	93.9097	-368	QW	1.6	-1	4.1	-2	0.8	-3	0.403	0	2.095	0	5.202	0	1780	49	4.1
25853.1	10000	41.9816	93.9089	-372	QW	1.6	-1	4.4	-2	0.8	-3	0.367	0	2.055	0	5.597	1	1781	55	4.1
25853.0	10000	41.9816	93.9082	-374	QW	1.6	-1	4.3	-2	0.8	-3	0.377	0	2.128	0	5.652	1	1763	40	4.1
25852.9	10000	41.9816	93.9074	-376	QW	1.7	-1	4.3	-2	0.8	-3	0.388	0	2.169	1	5.597	1	1759	45	4.1
25852.8	10000	41.9816	93.9066	-376	QAL	1.7	-1	4.4	-2	0.8	-2	0.381	0	2.052	0	5.388	-1	1756	38	4.1
25852.7	10000	41.9816	93.9059	-377	QAL	1.6	-1	4.2	-2	0.8	-2	0.394	0	2.101	0	5.336	-1	1762	63	4.1
25852.6	10000	41.9816	93.9051	-376	QAL	1.8	-1	4.6	-2	0.8	-2	0.397	0	2.278	0	5.741	0	1757	46	4.1
25852.5	10000	41.9815	93.9044	-378	QAL	2.0	-1	4.5	-2	0.8	-2	0.439	1	2.318	0	5.278	-1	1746	41	4.1
25852.4	10000	41.9815	93.9036	-378	QAL	1.8	-1	4.3	-2	0.9	-1	0.408	0	2.060	0	5.045	-1	1717	47	4.1
25852.3	10000	41.9815	93.9029	-380	QAL	1.8	-1	4.5	-2	0.9	-2	0.401	0	2.107	0	5.262	-1	1711	40	4.1
25852.2	10000	41.9815	93.9021	-380	QAL	1.8	-1	4.5	-2	0.8	-2	0.400	0	2.175	0	5.434	-1	1701	38	4.1
25852.1	10000	41.9815	93.9014	-380	QAL	1.5	-2	4.5	-2	0.9	-2	0.332	-1	1.764	-1	5.315	-1	1712	46	4.1
25852.0	10000	41.9815	93.9006	-379	QAL	1.7	-1	4.6	-2	0.9	-1	0.366	0	1.877	-1	5.128	-1	1731	43	4.1
25851.9	10000	41.9815	93.8999	-380	QAL	1.7	-1	4.5	-2	1.0	-1	0.373	0	1.775	-1	4.765	-2	1784	47	4.1
25851.8	10000	41.9815	93.8991	-380	QAL	1.7	-1	4.9	-2	1.0	0	0.359	0	1.735	-1	4.836	-2	1833	46	4.1
25851.7	10000	41.9815	93.8983	-380	QW	2.0	0	4.9	-1	1.0	0	0.401	0	1.904	0	4.745	-1	1888	61	4.1
25851.6	10000	41.9815	93.8976	-380	QW	2.0	0	5.1	-1	1.1	0	0.392	0	1.841	0	4.695	-1	1945	42	4.1
25851.5	10000	41.9815	93.8968	-381	QW	2.2	0	5.0	-1	1.1	1	0.438	0	1.919	0	4.377	-1	1998	40	4.1
25851.4	10000	41.9815	93.8961	-382	QW	2.5	1	5.1	0	1.1	1	0.479	1	2.175	1	4.541	-1	2019	55	4.1
25851.3	10000	41.9815	93.8953	-382	QW	2.3	1	4.9	-1	1.1	0	0.462	1	2.080	0	4.497	-1	2019	48	4.1
25851.2	10000	41.9814	93.8946	-384	QW	2.3	1	4.9	-1	1.0	0	0.474	1	2.290	1	4.829	-1	2004	46	4.1
25851.1	10000	41.9814	93.8938	-385	QW	2.5	1	4.8	-1	1.0	-1	0.523	2	2.573	1	4.915	0	1983	58	4.1
25851.0	10000	41.9814	93.8931	-385	QW	2.4	1	4.6	-1	1.0	-1	0.530	2	2.539	1	4.791	-1	1956	55	4.1
25850.9	10000	41.9814	93.8923	-387	QW	2.1	0	4.3	-2	0.9	-1	0.501	1	2.267	1	4.525	-1	1930	56	4.1
25850.8	10000	41.9814	93.8915	-388	QW	1.9	0	4.5	-1	0.9	-2	0.427	1	2.113	0	4.949	0	1909	49	4.1
25850.7	10000	41.9814	93.8908	-389	QW	2.0	0	4.5	-1	0.9	-1	0.440	1	2.176	1	4.950	0	1908	47	4.1
25850.6	10000	41.9814	93.8900	-391	QW	2.0	0	4.9	-1	0.9	-1	0.405	1	2.147	1	5.306	0	1915	39	4.1
25850.5	10000	41.9814	93.8893	-393	QW	2.0	0	4.7	-1	0.9	-2	0.424	1	2.237	1	5.270	0	1891	48	4.1
25850.4	10000	41.9814	93.8885	-394	QW	1.8	0	4.6	-1	0.9	-2	0.397	0	2.101	0	5.295	0	1864	42	4.1
25850.3	10000	41.9814	93.8878	-396	QW	1.8	0	4.7	-1	0.9	-2	0.392	1	2.151	1	5.489	0	1844	53	4.1
25850.2	10000	41.9814	93.8870	-398	QW	2.0	0	4.7	-1	0.9	-2	0.436	1	2.318	1	5.313	0	1801	61	4.1
25850.1	10000	41.9813	93.8863	-395	QW	2.1	0	4.7	-1	0.9	-2	0.433	1	2.327	1	5.376	0	1779	36	4.1
25850.0	10000	41.9813	93.8855	-391	QW	2.1	1	4.4	-1	0.9	-2	0.468	1	2.295	1	4.907	0	1760	51	4.1
25849.9	10000	41.9813	93.8848	-397	QW	2.4	1	4.4	-2	0.9	-1	0.537	2	2.571	1	4.792	-1	1759	54	4.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25849.8	10000	41.9813	93.8840	-399	QW	2.4	1	4.4	-2	1.0	-1	0.538	2	2.407	1	4.474	-1	1768	43	4.1
25849.7	10000	41.9813	93.8832	-399	QW	2.4	1	4.8	-1	1.0	0	0.503	1	2.284	1	4.539	-1	1825	45	4.1
25849.6	10000	41.9813	93.8825	-399	QW	2.3	1	4.9	-1	1.1	1	0.463	1	2.009	0	4.334	-1	1865	53	4.1
25849.5	10000	41.9813	93.8817	-400	QW	2.3	1	4.8	-1	1.2	1	0.487	1	2.031	0	4.168	-2	1917	38	4.1
25849.4	10000	41.9813	93.8810	-401	QW	2.3	1	4.8	-1	1.2	1	0.481	1	2.016	0	4.188	-2	1956	48	4.1
25849.3	10000	41.9813	93.8802	-402	QW	2.4	1	5.3	0	1.2	1	0.445	1	2.034	0	4.565	-1	1999	51	4.1
25849.2	10000	41.9813	93.8795	-404	QW	2.0	0	5.3	0	1.3	2	0.375	0	1.595	-1	4.252	-2	2022	56	4.1
25849.1	10000	41.9812	93.8787	-403	QW	2.0	0	5.7	0	1.2	2	0.355	0	1.689	0	4.755	-1	2057	41	4.1
25849.0	10000	41.9812	93.8780	-404	QW	1.9	0	5.8	0	1.2	1	0.330	0	1.645	-1	4.981	0	2043	49	4.1
25848.9	10000	41.9812	93.8772	-404	QW	2.0	0	6.0	1	1.1	0	0.332	0	1.807	0	5.434	0	2037	42	4.1
25848.8	10000	41.9812	93.8764	-405	QW	1.9	0	5.9	1	1.1	0	0.315	-1	1.715	0	5.451	0	2026	36	4.1
25848.7	10000	41.9812	93.8757	-406	QW	2.3	1	5.9	1	1.1	1	0.383	0	2.031	0	5.308	0	2022	67	4.1
25848.6	10000	41.9812	93.8749	-407	QW	2.1	0	5.6	0	1.1	0	0.378	0	1.949	0	5.159	0	2001	51	4.1
25848.5	10000	41.9812	93.8742	-408	QW	2.2	0	5.8	0	1.0	0	0.378	0	2.129	0	5.635	1	1994	51	4.1
25848.4	10000	41.9812	93.8734	-409	QW	2.1	0	5.5	0	1.1	0	0.376	0	1.937	0	5.154	0	1985	49	4.1
25848.3	10000	41.9812	93.8727	-409	QW	2.3	1	5.4	0	1.1	1	0.419	1	2.033	0	4.851	-1	1986	40	4.1
25848.2	10000	41.9812	93.8719	-410	QW	2.4	1	5.3	0	1.1	1	0.451	1	2.136	0	4.732	-1	2000	51	4.1
25848.1	10000	41.9812	93.8712	-410	QW	2.7	2	5.6	0	1.1	0	0.484	1	2.485	1	5.134	0	2009	45	4.1
25848.0	10000	41.9812	93.8704	-410	QW	2.2	1	5.6	0	1.2	1	0.394	0	1.893	0	4.800	-1	2011	54	4.1
25847.9	10000	41.9811	93.8696	-411	QW	2.4	1	5.6	0	1.1	1	0.433	1	2.140	0	4.945	0	2005	42	4.1
25847.8	10000	41.9811	93.8689	-413	QW	2.5	1	5.4	0	1.1	0	0.471	1	2.340	1	4.968	0	1985	37	4.1
25847.7	10000	41.9811	93.8681	-415	QW	2.4	1	5.6	0	1.1	0	0.422	1	2.252	1	5.339	0	1960	46	4.1
25847.6	10000	41.9811	93.8674	-416	QW	2.3	1	5.6	0	1.0	-1	0.405	0	2.319	1	5.726	1	1935	55	4.1
25847.5	10000	41.9811	93.8666	-417	QW	2.2	0	5.5	0	1.0	-1	0.395	0	2.256	1	5.705	1	1920	48	4.1
25847.4	10000	41.9811	93.8659	-419	QW	1.8	0	5.6	0	1.0	-1	0.326	0	1.841	0	5.643	1	1895	47	4.1
25847.3	10000	41.9811	93.8651	-421	QW	1.9	0	5.6	0	1.0	-1	0.344	0	1.974	0	5.742	1	1893	50	4.1
25847.2	10000	41.9811	93.8644	-423	QW	1.6	-1	5.9	1	1.0	0	0.279	-1	1.622	-1	5.820	1	1921	48	4.1
25847.1	10000	41.9811	93.8636	-424	QW	1.6	-1	6.0	1	1.0	0	0.263	-1	1.538	-1	5.839	1	1941	44	4.1
25847.0	10000	41.9811	93.8629	-425	QW	1.5	-1	5.9	1	1.0	0	0.251	-1	1.428	-1	5.689	1	1969	44	4.1
25846.9	10000	41.9811	93.8621	-427	QW	1.4	-1	6.2	1	1.1	1	0.228	-2	1.236	-1	5.423	0	2000	52	4.1
25846.8	10000	41.9810	93.8613	-428	QW	1.4	-1	6.2	1	1.2	1	0.234	-1	1.242	-1	5.316	0	2007	61	4.1
25846.7	10000	41.9810	93.8606	-431	QW	1.3	-2	6.3	1	1.1	1	0.198	-2	1.095	-2	5.529	1	2024	47	4.1
25846.6	10000	41.9810	93.8598	-433	QW	1.4	-1	6.2	1	1.2	1	0.232	-1	1.253	-1	5.392	0	2051	58	4.1
25846.5	10000	41.9810	93.8591	-435	QW	1.6	-1	6.4	1	1.1	1	0.257	-1	1.433	-1	5.585	1	2041	44	4.1
25846.4	10000	41.9810	93.8583	-437	QW	1.6	-1	6.0	1	1.2	1	0.269	-1	1.388	-1	5.151	0	2041	46	4.1
25846.3	10000	41.9810	93.8576	-439	QW	1.8	0	5.8	1	1.2	1	0.311	-1	1.549	-1	4.976	0	2028	43	4.1
25846.2	10000	41.9810	93.8568	-441	QW	1.7	-1	5.7	1	1.1	1	0.291	-1	1.507	-1	5.182	0	2014	43	4.1
25846.1	10000	41.9810	93.8561	-443	QW	1.9	0	5.6	0	1.1	1	0.342	0	1.759	0	5.139	0	2009	42	4.1
25846.0	10000	41.9810	93.8553	-445	QW	2.0	0	5.6	0	1.1	1	0.350	0	1.741	0	4.977	0	2027	32	4.1
25845.9	10000	41.9810	93.8546	-449	QW	1.8	0	5.8	0	1.1	1	0.306	-1	1.631	-1	5.328	0	2012	56	4.1
25845.8	10000	41.9810	93.8538	-452	QW	1.8	0	5.7	0	1.1	1	0.324	0	1.622	-1	5.011	0	2003	52	4.1
25845.7	10000	41.9809	93.8530	-455	QW	2.0	0	5.9	0	1.1	1	0.342	0	1.794	0	5.249	0	2015	48	4.1
25845.6	10000	41.9809	93.8523	-458	QW	2.0	1	5.7	0	1.1	2	0.355	0	1.745	0	4.909	0	2026	35	4.1
25845.5	10000	41.9809	93.8515	-461	QW	2.5	1	5.5	0	1.1	2	0.450	0	2.103	0	4.676	-1	2039	46	4.1
25845.4	10000	41.9809	93.8508	-464	QW	2.2	1	5.6	0	1.1	2	0.390	0	1.871	0	4.800	-1	2040	49	4.1
25845.3	10000	41.9809	93.8500	-467	QW	2.7	2	5.2	0	1.1	1	0.521	0	2.417	1	4.636	-1	2038	42	4.1
25845.2	10000	41.9809	93.8493	-470	QW	2.8	2	5.3	0	1.1	1	0.535	0	2.500	1	4.670	-1	2030	53	4.1
25845.1	10000	41.9809	93.8485	-473	QW	2.4	1	5.3	0	1.1	1	0.458	0	2.195	1	4.789	-1	2018	37	4.1
25845.0	10000	41.9809	93.8477	-476	QW	2.1	1	5.3	0	1.1	1	0.394	0	1.925	0	4.889	0	2002	53	4.1
25844.9	10000	41.9809	93.8470	-479	QW	2.2	1	5.6	0	1.1	1	0.394	0	2.102	1	5.336	0	1993	45	4.1
25844.8	10000	41.9809	93.8463	-482	QW	1.9	0	5.6	0	1.0	1	0.334	0	1.832	0	5.489	0	1970	53	4.1
25844.7	10000	41.9809	93.8455	-485	QW	2.1	0	5.8	0	1.0	0	0.369	0	2.045	0	5.546	1	1984	66	4.2

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25844.6	10000	41.9809	93.8447	-488	QW	1.7	-1	6.2	1	1.0	0	0.281	-1	1.678	0	5.968	1	1971	81	4.2
25844.5	10000	41.9808	93.8440	-492	QW	1.7	-1	6.1	1	1.0	0	0.280	-1	1.704	0	6.076	1	1959	51	4.2
25844.4	10000	41.9808	93.8432	-496	QW	1.9	0	6.0	1	1.0	0	0.316	-1	1.859	0	5.881	1	1977	45	4.2
25844.3	10000	41.9808	93.8425	-499	QW	2.0	0	6.1	1	1.0	0	0.320	-1	1.919	0	5.998	1	1977	38	4.2
25844.2	10000	41.9808	93.8417	-503	QW	1.8	0	6.4	1	1.0	0	0.282	-1	1.775	0	6.291	2	1994	46	4.2
25844.1	10000	41.9808	93.8410	-506	QW	2.0	0	6.5	1	1.1	0	0.310	-1	1.879	0	6.055	1	2000	52	4.2
25844.0	10000	41.9808	93.8402	-509	QW	1.7	-1	6.6	2	1.1	0	0.265	-1	1.638	-1	6.184	2	1984	59	4.2
25843.9	10000	41.9808	93.8394	-511	QW	1.8	-1	6.4	1	1.1	0	0.278	-1	1.626	-1	5.848	1	1980	53	4.2
25843.8	10000	41.9808	93.8387	-515	QW	1.8	0	6.5	2	1.1	0	0.273	-1	1.624	-1	5.946	1	1989	39	4.2
25843.7	10000	41.9808	93.8379	-517	QW	1.9	0	6.5	2	1.1	0	0.286	-1	1.704	0	5.950	1	1988	50	4.2
25843.6	10000	41.9808	93.8372	-521	QW	1.8	0	6.3	1	1.1	0	0.292	-1	1.707	0	5.838	1	1998	49	4.2
25843.5	10000	41.9808	93.8364	-523	QW	2.0	0	6.1	1	1.1	0	0.320	-1	1.802	0	5.625	1	1991	46	4.2
25843.4	10000	41.9807	93.8357	-526	QW	2.0	0	6.5	2	1.1	0	0.316	-1	1.932	0	6.124	2	1999	41	4.2
25843.3	10000	41.9807	93.8349	-529	QW	2.0	0	6.3	1	1.1	0	0.311	-1	1.803	0	5.788	1	2008	50	4.2
25843.2	10000	41.9807	93.8342	-531	QW	2.0	0	6.4	1	1.1	0	0.316	-1	1.852	0	5.858	1	2015	40	4.2
25843.1	10000	41.9807	93.8334	-534	QW	2.1	0	6.3	1	1.1	0	0.338	0	1.950	0	5.768	1	2029	44	4.2
25843.0	10000	41.9807	93.8327	-536	QW	2.1	0	6.4	1	1.1	0	0.325	0	1.902	0	5.861	1	2021	45	4.2
25842.9	10000	41.9807	93.8319	-539	QW	2.2	1	6.6	2	1.1	1	0.337	0	1.993	0	5.919	1	2005	53	4.2
25842.8	10000	41.9807	93.8311	-541	QW	2.3	1	6.4	1	1.1	1	0.363	0	2.036	0	5.612	1	2003	52	4.2
25842.7	10000	41.9807	93.8304	-543	QW	2.2	1	6.2	1	1.2	1	0.357	0	1.920	0	5.374	0	1986	40	4.2
25842.6	10000	41.9807	93.8296	-545	QW	2.3	1	6.1	1	1.1	1	0.387	0	2.072	0	5.356	0	1966	49	4.2
25842.5	10000	41.9807	93.8289	-547	QW	2.3	1	6.0	1	1.1	0	0.386	0	2.113	0	5.472	0	1958	56	4.2
25842.4	10000	41.9807	93.8281	-549	QW	2.0	0	5.9	1	1.1	0	0.337	0	1.795	0	5.326	0	1935	51	4.2
25842.3	10000	41.9807	93.8274	-549	QW	2.1	0	5.9	1	1.1	0	0.353	0	1.920	0	5.435	0	1931	55	4.2
25842.2	10000	41.9806	93.8266	-550	QW	2.0	0	5.7	0	1.1	0	0.353	0	1.860	0	5.267	0	1935	46	4.2
25842.1	10000	41.9806	93.8259	-552	QW	1.9	0	5.7	0	1.0	0	0.329	0	1.810	0	5.494	0	1927	46	4.2
25842.0	10000	41.9806	93.8251	-552	QW	1.9	0	5.6	0	1.0	-1	0.338	0	1.909	0	5.655	1	1932	51	4.2
25841.9	10000	41.9806	93.8244	-553	QW	1.8	0	5.9	1	1.0	-1	0.312	-1	1.849	0	5.927	1	1944	41	4.2
25841.8	10000	41.9806	93.8236	-553	QW	1.8	0	6.2	1	1.0	-1	0.298	-1	1.871	0	6.286	2	1956	43	4.2
25841.7	10000	41.9806	93.8228	-553	QW	2.0	0	6.3	1	1.0	-1	0.313	-1	2.017	0	6.445	2	1969	51	4.2
25841.6	10000	41.9806	93.8221	-553	QW	2.0	0	6.3	1	1.0	0	0.323	-1	2.026	0	6.265	2	1971	43	4.2
25841.5	10000	41.9806	93.8213	-552	QW	2.0	0	6.4	1	1.0	0	0.314	-1	1.990	0	6.343	2	1964	42	4.2
25841.4	10000	41.9806	93.8206	-552	QW	1.9	0	6.2	1	1.0	0	0.310	-1	1.895	0	6.105	1	1961	50	4.1
25841.3	10000	41.9806	93.8198	-552	QW	1.8	0	6.0	1	1.1	0	0.298	-1	1.703	0	5.712	1	1958	51	4.1
25841.2	10000	41.9806	93.8191	-552	QW	2.1	0	6.0	1	1.0	0	0.352	0	2.008	0	5.706	1	1955	39	4.1
25841.1	10000	41.9805	93.8183	-551	QW	2.2	1	6.6	1	1.1	0	0.395	0	2.038	0	5.154	0	1959	36	4.1
25841.0	10000	41.9805	93.8176	-550	QW	2.6	2	6.9	1	1.1	1	0.447	1	2.431	0	5.439	0	1964	40	4.1
25840.9	10000	41.9805	93.8168	-550	QW	2.4	1	6.9	1	1.1	0	0.409	0	2.200	0	5.381	0	1980	56	4.1
25840.8	10000	41.9805	93.8160	-548	QW	2.5	1	6.8	1	1.1	1	0.439	1	2.262	0	5.150	0	1987	46	4.1
25840.7	10000	41.9805	93.8153	-546	QW	2.6	1	6.9	1	1.1	1	0.440	1	2.317	0	5.269	0	1988	58	4.1
25840.6	10000	41.9805	93.8145	-545	QW	2.6	1	6.9	1	1.2	1	0.439	1	2.241	0	5.110	0	1999	34	4.1
25840.5	10000	41.9805	93.8138	-543	QW	2.4	1	6.9	1	1.2	1	0.410	0	2.042	0	4.978	0	2000	49	4.1
25840.4	10000	41.9805	93.8130	-542	QW	2.3	1	6.1	1	1.1	0	0.377	0	2.004	0	5.319	0	1975	49	4.1
25840.3	10000	41.9805	93.8123	-541	QW	2.0	1	5.5	1	1.1	0	0.360	0	1.756	-1	4.873	-1	1966	52	4.1
25840.2	10000	41.9805	93.8115	-539	QW	2.2	1	5.4	1	1.1	1	0.407	0	1.971	-1	4.841	-1	1951	45	4.1
25840.1	10000	41.9804	93.8108	-538	QW	2.0	0	5.4	1	1.1	1	0.365	0	1.754	-1	4.806	-1	1945	48	4.1
25840.0	10000	41.9805	93.8101	-537	QW	1.8	-1	5.5	1	1.1	1	0.318	-1	1.586	-1	4.992	0	1948	44	4.1
25839.9	10000	41.9805	93.8094	-535	QW	1.8	0	5.5	1	1.1	1	0.332	0	1.750	0	5.273	0	1939	44	4.1
25839.8	10000	41.9805	93.8087	-534	QW	1.9	0	5.6	1	1.1	1	0.343	0	1.826	0	5.320	0	1951	35	4.1
25839.7	10000	41.9805	93.8080	-532	QW	1.9	0	5.7	1	1.1	1	0.343	0	1.802	0	5.248	0	1965	42	4.1
25839.6	10000	41.9805	93.8073	-531	QW	1.9	0	5.8	1	1.1	1	0.324	0	1.675	0	5.172	0	1969	43	4.1
25839.5	10000	41.9805	93.8066	-530	QW	1.5	-1	5.9	1	1.1	1	0.253	-1	1.328	-1	5.257	0	1980	48	4.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PFM
25839.4	10000	41.9805	93.8059	-529	QW	1.5	-1	6.2	1	1.1	0	0.244	-1	1.379	-1	5.660	1	2003	35	4.1
25839.3	10000	41.9806	93.8052	-527	QW	1.7	-1	6.4	1	1.1	1	0.272	-1	1.510	-1	5.549	1	2006	35	4.1
25839.2	10000	41.9806	93.8045	-526	QW	1.5	-1	6.6	2	1.2	1	0.226	-2	1.251	-1	5.546	1	2022	44	4.1
25839.1	10000	41.9806	93.8038	-525	QW	1.5	-1	6.6	2	1.2	1	0.224	-2	1.248	-1	5.580	1	2011	44	4.1
25839.0	10000	41.9806	93.8031	-524	QW	1.4	-1	6.3	1	1.2	1	0.227	-2	1.216	-1	5.349	0	2021	50	4.1
25838.9	10000	41.9806	93.8024	-523	QW	1.6	-1	6.4	1	1.2	1	0.244	-1	1.357	-1	5.553	1	2027	40	4.1
25838.8	10000	41.9806	93.8017	-521	QW	1.8	0	6.4	1	1.1	1	0.284	-1	1.593	-1	5.614	1	2026	64	4.1
25838.7	10000	41.9807	93.8009	-520	QW	2.0	0	6.3	1	1.1	1	0.315	-1	1.731	0	5.492	0	2010	40	4.1
25838.6	10000	41.9807	93.8003	-519	QW	1.9	0	5.7	0	1.1	1	0.332	0	1.662	-1	5.001	0	2009	45	4.1
25838.5	10000	41.9807	93.7996	-518	QW	1.9	0	5.4	0	1.2	1	0.359	0	1.683	0	4.686	-1	2003	45	4.1
25838.4	10000	41.9807	93.7989	-517	QW	1.8	0	5.2	0	1.1	1	0.346	0	1.594	-1	4.609	-1	1999	41	4.1
25838.3	10000	41.9807	93.7982	-516	QW	2.1	0	5.4	0	1.1	1	0.393	0	1.904	0	4.844	-1	1992	62	4.1
25838.2	10000	41.9807	93.7975	-514	QW	2.2	0	5.2	0	1.1	0	0.419	1	2.036	0	4.862	-1	1980	49	4.1
25838.1	10000	41.9807	93.7968	-513	QW	2.2	1	5.1	0	1.1	0	0.437	1	2.105	0	4.811	-1	1971	39	4.1
25838.0	10000	41.9807	93.7961	-512	QW	2.2	1	4.8	-1	1.0	0	0.461	1	2.135	0	4.634	-1	1975	46	4.1
25837.9	10000	41.9808	93.7953	-511	QW	2.4	1	5.3	0	1.0	-1	0.448	1	2.398	1	5.350	0	1970	46	4.0
25837.8	10000	41.9808	93.7946	-510	QW	2.4	1	5.5	0	1.0	-1	0.443	1	2.486	1	5.610	1	1981	52	4.0
25837.7	10000	41.9808	93.7940	-509	QW	2.5	1	5.6	0	1.0	-1	0.444	1	2.530	1	5.703	1	1989	60	4.0
25837.6	10000	41.9808	93.7933	-506	QW	2.2	0	5.3	0	1.0	0	0.410	0	2.110	0	5.147	0	1998	45	4.0
25837.5	10000	41.9808	93.7926	-506	QW	1.9	0	5.3	0	1.1	0	0.357	0	1.806	0	5.054	0	1998	44	4.0
25837.4	10000	41.9808	93.7919	-506	QW	1.9	0	5.3	0	1.1	0	0.364	0	1.804	0	4.951	0	2000	56	4.0
25837.3	10000	41.9809	93.7912	-506	QW	2.0	0	5.5	0	1.1	0	0.353	0	1.785	0	5.059	0	1991	42	4.0
25837.2	10000	41.9809	93.7905	-505	QW	2.0	0	5.3	0	1.1	0	0.372	0	1.775	0	4.776	-1	1992	40	4.0
25837.1	10000	41.9809	93.7897	-504	QW	2.2	1	5.2	0	1.1	0	0.429	1	2.065	0	4.810	-1	1964	46	4.0
25837.0	10000	41.9809	93.7890	-504	QW	2.2	1	5.4	0	1.1	0	0.411	0	2.058	0	5.004	0	1969	50	4.0
25836.9	10000	41.9809	93.7883	-503	QW	2.3	1	5.5	0	1.1	0	0.430	1	2.211	1	5.139	0	1949	51	4.0
25836.8	10000	41.9809	93.7876	-502	QW	2.6	2	5.4	0	1.0	1	0.487	1	2.507	1	5.152	0	1943	59	4.0
25836.7	10000	41.9809	93.7870	-501	QW	2.6	1	5.2	0	1.0	1	0.488	1	2.572	1	5.268	0	1938	39	4.0
25836.6	10000	41.9809	93.7863	-500	QW	2.6	1	5.3	0	1.0	1	0.479	1	2.627	2	5.484	0	1938	41	4.0
25836.5	10000	41.9810	93.7856	-500	QW	2.6	1	5.7	0	0.9	1	0.458	1	2.754	2	6.010	1	1942	50	4.0
25836.4	10000	41.9810	93.7849	-499	QW	2.4	1	5.9	0	0.9	0	0.410	1	2.552	1	6.219	2	1954	48	4.0
25836.3	10000	41.9810	93.7841	-499	QW	2.3	1	5.5	0	0.9	0	0.412	1	2.400	1	5.823	1	1948	51	4.0
25836.2	10000	41.9810	93.7834	-499	QW	2.1	0	5.7	0	1.0	0	0.367	0	2.199	1	5.985	1	1958	47	4.0
25836.1	10000	41.9810	93.7827	-500	QW	1.6	-1	6.1	1	1.0	-1	0.266	-1	1.709	0	6.418	2	1952	61	4.0
25836.0	10000	41.9810	93.7820	-500	QW	1.7	-1	6.1	1	1.0	-1	0.274	-1	1.645	-1	5.993	1	1960	53	4.0
25835.9	10000	41.9811	93.7813	-500	QW	1.6	-1	6.2	1	1.0	0	0.254	-1	1.515	-1	5.955	1	1968	43	4.0
25835.8	10000	41.9811	93.7806	-499	QW	1.3	-2	6.1	1	1.1	1	0.204	-2	1.122	-2	5.511	1	1972	46	4.0
25835.7	10000	41.9811	93.7800	-498	QW	1.5	-1	6.2	1	1.1	1	0.243	-1	1.319	-1	5.431	1	1981	38	4.0
25835.6	10000	41.9811	93.7793	-498	QW	1.5	-1	6.0	1	1.1	1	0.243	-1	1.333	-1	5.476	0	1982	66	4.0
25835.5	10000	41.9811	93.7785	-497	QW	1.7	-1	6.0	1	1.1	1	0.280	-1	1.571	-1	5.614	1	1983	44	4.0
25835.4	10000	41.9811	93.7778	-496	QW	1.8	0	5.4	1	1.1	1	0.335	0	1.620	-1	4.832	-1	1992	54	4.0
25835.3	10000	41.9811	93.7771	-496	QW	1.8	0	5.5	1	1.1	1	0.333	0	1.696	0	5.092	0	1974	45	4.0
25835.2	10000	41.9811	93.7764	-495	QW	1.8	0	5.4	1	1.1	1	0.329	0	1.675	0	5.085	0	1960	46	4.0
25835.1	10000	41.9812	93.7757	-494	QW	2.0	0	5.4	1	1.0	0	0.374	0	1.931	0	5.163	0	1960	43	4.0
25835.0	10000	41.9812	93.7750	-492	QW	1.8	-1	5.2	0	1.0	0	0.341	0	1.715	0	5.031	0	1945	48	4.0
25834.9	10000	41.9812	93.7743	-491	QW	1.9	0	5.4	0	1.1	0	0.344	0	1.749	0	5.078	0	1949	60	4.0
25834.8	10000	41.9812	93.7737	-490	QW	1.7	-1	5.4	0	1.1	0	0.313	-1	1.566	-1	4.999	0	1941	42	4.0
25834.7	10000	41.9812	93.7729	-489	QW	2.0	0	6.2	1	1.1	0	0.314	-1	1.828	0	5.814	1	1958	47	4.0
25834.6	10000	41.9812	93.7722	-487	QW	1.7	-1	6.1	1	1.1	0	0.287	-1	1.606	-1	5.592	1	1968	48	4.0
25834.5	10000	41.9812	93.7715	-486	QW	1.9	0	6.0	1	1.1	0	0.315	-1	1.751	0	5.557	1	1977	45	4.0
25834.4	10000	41.9813	93.7708	-484	QW	2.1	0	6.0	1	1.0	0	0.354	0	2.045	0	5.775	1	1964	43	4.0
25834.3	10000	41.9813	93.7701	-483	QW	2.3	1	6.1	1	1.1	0	0.368	0	2.139	0	5.809	1	1968	47	4.0

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25834.2	10000	41.9813	93.7694	-431	QW	2.3	1	6.0	1	1.0	0	0.377	0	2.265	1	6.012	1	1958	47	4.0
25834.1	10000	41.9813	93.7687	-479	QW	2.5	1	5.8	1	1.0	-1	0.426	1	2.485	1	5.835	1	1961	43	4.0
25834.0	10000	41.9813	93.7680	-477	QW	2.4	1	5.5	0	1.0	-1	0.446	1	2.465	1	5.523	1	1946	55	4.0
25833.9	10000	41.9813	93.7673	-476	QW	2.6	1	5.7	0	1.0	-1	0.454	1	2.713	2	5.972	1	1935	49	4.0
25833.8	10000	41.9814	93.7666	-474	QW	2.5	1	5.8	0	1.0	-1	0.439	1	2.662	2	6.064	1	1951	49	4.0
25833.7	10000	41.9814	93.7659	-472	QW	2.4	1	5.6	0	1.0	-1	0.425	1	2.442	1	5.744	1	1962	53	4.0
25833.6	10000	41.9814	93.7652	-470	QW	2.2	1	5.7	0	1.0	-1	0.392	1	2.267	1	5.787	1	1979	47	4.0
25833.5	10000	41.9814	93.7645	-467	QW	2.4	1	5.8	1	1.0	0	0.413	0	2.323	1	5.618	1	1998	49	4.0
25833.4	10000	41.9814	93.7638	-465	QW	2.2	0	5.8	1	1.1	0	0.370	0	2.041	0	5.520	1	2010	52	4.0
25833.3	10000	41.9814	93.7631	-464	QW	2.1	0	5.8	0	1.0	0	0.359	0	2.007	0	5.586	1	2013	43	4.0
25833.2	10000	41.9814	93.7624	-462	QW	2.1	0	5.9	1	1.1	0	0.366	0	1.994	0	5.446	0	2041	44	4.0
25833.1	10000	41.9814	93.7617	-460	QW	2.2	0	5.9	1	1.1	0	0.366	0	1.975	0	5.400	0	2035	47	4.0
25833.0	10000	41.9815	93.7610	-460	QW	2.0	0	6.2	1	1.1	1	0.329	0	1.852	0	5.634	1	2033	38	4.0
25832.9	10000	41.9815	93.7603	-459	QW	2.1	0	6.1	1	1.1	1	0.340	0	1.868	0	5.502	1	2025	59	4.0
25832.8	10000	41.9815	93.7596	-458	QW	1.9	0	6.1	1	1.1	1	0.309	-1	1.696	0	5.486	0	2013	52	4.0
25832.7	10000	41.9815	93.7589	-457	QW	2.2	1	6.1	1	1.1	1	0.368	1	1.987	0	5.394	0	2026	44	4.0
25832.6	10000	41.9815	93.7582	-457	QW	2.1	0	6.1	1	1.1	1	0.342	0	1.844	0	5.391	0	2022	67	4.1
25832.5	10000	41.9815	93.7575	-457	QW	2.0	0	5.8	1	1.1	1	0.340	0	1.743	0	5.122	0	2011	43	4.1
25832.4	10000	41.9816	93.7568	-457	QW	2.0	0	5.6	0	1.1	1	0.354	0	1.754	0	4.960	0	2017	53	4.1
25832.3	10000	41.9816	93.7561	-458	QW	2.0	0	5.6	0	1.1	1	0.353	0	1.744	0	4.936	0	2020	48	4.1
25832.2	10000	41.9816	93.7554	-459	QW	2.0	0	5.9	1	1.1	1	0.339	0	1.789	0	5.272	0	2018	54	4.1
25832.1	10000	41.9816	93.7547	-462	QW	2.2	0	6.0	1	1.1	1	0.361	1	2.000	0	5.547	1	2034	39	4.1
25832.0	10000	41.9816	93.7540	-465	QW	1.8	0	6.0	1	1.0	0	0.299	-1	1.733	0	5.794	1	2017	37	4.1
25831.9	10000	41.9816	93.7533	-468	QW	2.1	0	5.7	0	1.1	0	0.363	0	1.902	0	5.243	0	2040	56	4.1
25831.8	10000	41.9816	93.7526	-471	QW	2.3	1	5.9	1	1.1	0	0.393	0	2.136	0	5.437	0	2039	48	4.1
25831.7	10000	41.9816	93.7519	-476	QW	2.2	1	5.9	1	1.1	0	0.381	0	2.057	0	5.401	0	2028	47	4.1
25831.6	10000	41.9817	93.7512	-480	QW	2.3	1	5.8	1	1.1	1	0.391	0	2.045	0	5.234	0	2031	46	4.1
25831.5	10000	41.9817	93.7505	-485	QW	2.2	1	5.5	1	1.1	0	0.405	0	2.072	0	5.117	0	2031	50	4.1
25831.4	10000	41.9817	93.7498	-491	QW	2.1	0	5.6	0	1.1	0	0.382	0	2.024	0	5.294	0	2033	58	4.1
25831.3	10000	41.9817	93.7491	-497	QW	2.4	1	5.8	0	1.1	0	0.425	0	2.312	1	5.437	0	2036	43	4.1
25831.2	10000	41.9817	93.7484	-504	QW	2.4	1	5.7	0	1.0	-1	0.426	1	2.456	1	5.766	1	2014	55	4.1
25831.1	10000	41.9817	93.7477	-510	QW	2.5	1	5.6	0	1.0	-1	0.435	1	2.485	1	5.707	1	2020	44	4.1
25831.0	10000	41.9817	93.7470	-518	QW	2.4	1	5.4	0	1.0	-1	0.451	1	2.489	1	5.514	1	2012	52	4.1
25830.9	10000	41.9818	93.7463	-526	QW	2.5	1	5.1	0	1.0	-1	0.492	1	2.623	1	5.327	0	2005	38	4.1
25830.8	10000	41.9818	93.7456	-534	QW	2.8	1	5.2	0	1.0	-1	0.543	2	2.896	1	5.329	0	2002	58	4.1
25830.7	10000	41.9818	93.7449	-542	QW	2.8	1	4.7	0	1.0	0	0.594	2	2.802	2	4.715	-1	1978	55	4.1
25830.6	10000	41.9818	93.7442	-551	QW	2.7	1	4.6	-1	1.0	0	0.591	3	2.665	2	4.510	-1	1969	48	4.2
25830.5	10000	41.9818	93.7435	-559	QW	2.7	1	4.3	-2	1.0	0	0.626	3	2.709	2	4.330	-1	1969	38	4.2
25830.4	10000	41.9818	93.7428	-566	QW	2.6	1	4.0	-2	0.9	-1	0.647	3	2.762	2	4.269	-1	1952	50	4.2
25830.3	10000	41.9818	93.7421	-573	QW	2.5	1	4.1	-2	0.9	-1	0.615	2	2.766	2	4.500	-1	1948	35	4.2
25830.2	10000	41.9819	93.7414	-579	QW	2.3	1	4.3	-2	0.9	-2	0.581	2	2.860	2	4.919	0	1945	37	4.2
25830.1	10000	41.9819	93.7407	-583	QW	2.2	1	4.1	-2	0.9	-2	0.561	2	2.662	2	4.747	-1	1940	49	4.2
25830.0	10000	41.9819	93.7400	-585	QW	2.2	1	4.4	-2	0.9	-2	0.506	2	2.563	1	5.069	0	1940	45	4.2
25829.9	10000	41.9819	93.7393	-588	QW	2.1	1	4.4	-2	0.9	-2	0.464	2	2.280	1	4.915	0	1946	53	4.2
25829.8	10000	41.9819	93.7386	-593	QW	2.2	1	4.7	-1	0.9	-1	0.437	1	2.249	1	5.148	0	1960	34	4.2
25829.7	10000	41.9819	93.7379	-600	QW	1.9	1	5.3	-1	1.0	-1	0.353	1	1.949	1	5.525	1	1973	51	4.2
25829.6	10000	41.9819	93.7372	-605	QW	2.2	1	5.7	0	0.9	-1	0.396	1	2.366	1	5.981	1	1988	46	4.2
25829.5	10000	41.9819	93.7365	-608	QW	2.2	1	5.7	0	1.0	-1	0.392	1	2.317	1	5.918	1	1999	61	4.2
25829.4	10000	41.9820	93.7358	-611	QW	2.3	1	6.1	0	1.0	-1	0.372	1	2.339	1	6.285	2	2019	57	4.2
25829.3	10000	41.9820	93.7351	-615	QW	2.2	1	5.8	0	0.9	-1	0.383	1	2.349	1	6.128	2	2033	51	4.3
25829.2	10000	41.9820	93.7344	-618	QW	2.6	1	5.9	1	0.9	-1	0.435	1	2.852	2	6.561	2	2033	45	4.3
25829.1	10000	41.9820	93.7337	-620	QW	2.3	1	6.2	1	0.9	-1	0.375	0	2.455	1	6.539	2	2039	51	4.3

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25829.0	10000	41.9820	93.7330	-622	QW	2.4	1	6.3	1	1.0	-1	0.377	0	2.460	1	6.523	2	2052	43	4.3
25828.9	10000	41.9820	93.7323	-623	QW	2.3	1	6.3	1	1.0	0	0.360	0	2.188	1	6.076	1	2061	66	4.3
25828.8	10000	41.9821	93.7316	-625	QW	1.9	0	6.4	1	1.1	0	0.300	-1	1.759	0	5.871	1	2068	43	4.3
25828.7	10000	41.9821	93.7309	-625	QW	1.8	0	6.2	1	1.1	1	0.299	-1	1.666	-1	5.573	1	2071	46	4.3
25828.6	10000	41.9821	93.7302	-628	QW	1.9	0	6.7	2	1.2	1	0.282	-1	1.624	-1	5.757	1	2090	50	4.3
25828.5	10000	41.9821	93.7295	-630	QW	1.8	-1	6.8	2	1.2	1	0.257	-1	1.470	-1	5.714	1	2115	50	4.3
25828.4	10000	41.9821	93.7288	-632	QW	1.9	0	6.5	2	1.2	1	0.298	-1	1.677	0	5.631	1	2115	57	4.3
25828.3	10000	41.9821	93.7281	-634	QW	2.0	0	6.3	1	1.2	1	0.307	-1	1.653	-1	5.376	0	2121	37	4.3
25828.2	10000	41.9821	93.7274	-636	QW	2.0	0	6.2	1	1.2	1	0.318	-1	1.706	0	5.360	0	2130	41	4.4
25828.1	10000	41.9821	93.7267	-639	QW	2.1	0	6.3	1	1.1	1	0.341	0	1.925	0	5.651	1	2137	46	4.4
25828.0	10000	41.9822	93.7260	-642	QW	2.4	1	6.2	1	1.1	0	0.394	0	2.274	1	5.769	1	2150	47	4.4
25827.9	10000	41.9822	93.7253	-645	QW	2.4	1	5.8	1	1.0	0	0.419	1	2.418	1	5.776	1	2150	38	4.4
25827.8	10000	41.9822	93.7246	-648	QW	2.3	1	6.0	1	1.0	-1	0.378	0	2.285	1	6.050	1	2163	42	4.4
25827.7	10000	41.9822	93.7239	-651	QW	2.3	1	6.2	1	1.0	0	0.361	0	2.202	1	6.095	1	2176	40	4.4
25827.6	10000	41.9822	93.7232	-655	QW	2.2	0	6.1	1	1.0	0	0.355	0	2.135	0	6.017	1	2192	38	4.4
25827.5	10000	41.9822	93.7225	-658	QW	2.0	0	6.1	1	1.0	0	0.334	0	2.028	0	6.069	1	2186	40	4.4
25827.4	10000	41.9822	93.7218	-663	QW	2.3	0	6.2	1	1.0	0	0.365	0	2.246	1	6.151	2	2190	44	4.4
25827.3	10000	41.9823	93.7211	-665	QW	2.0	0	6.2	1	1.0	0	0.329	0	1.984	0	6.033	1	2194	45	4.4
25827.2	10000	41.9823	93.7204	-670	QW	1.9	0	6.2	1	1.1	0	0.304	-1	1.742	0	5.723	1	2185	41	4.4
25827.1	10000	41.9823	93.7197	-676	QW	2.3	1	6.0	1	1.1	0	0.384	0	2.178	1	5.669	1	2174	43	4.5
25827.0	10000	41.9823	93.7190	-680	QW	2.3	1	6.0	1	1.1	0	0.385	0	2.134	0	5.540	1	2165	56	4.5
25826.9	10000	41.9823	93.7183	-685	QW	2.5	1	5.6	0	1.1	0	0.450	1	2.372	1	5.272	0	2143	55	4.5
25826.8	10000	41.9823	93.7176	-689	QW	2.5	1	5.6	0	1.0	0	0.441	1	2.394	1	5.424	0	2127	49	4.5
25826.7	10000	41.9823	93.7169	-694	QW	2.3	1	5.4	0	1.1	0	0.433	1	2.199	1	5.078	0	2102	35	4.5
25826.6	10000	41.9824	93.7162	-699	QW	2.3	1	5.5	0	1.1	0	0.421	1	2.135	0	5.072	0	2083	36	4.5
25826.5	10000	41.9824	93.7155	-706	QW	2.5	1	5.6	0	1.1	0	0.450	1	2.331	1	5.175	0	2064	51	4.5
25826.4	10000	41.9824	93.7148	-713	QW	2.2	1	5.5	0	1.1	0	0.411	1	2.051	0	4.993	0	2056	46	4.5
25826.3	10000	41.9824	93.7141	-721	QW	2.5	1	5.2	0	1.1	0	0.433	1	2.127	0	4.913	0	2040	52	4.5
25826.2	10000	41.9824	93.7134	-727	QW	2.2	1	5.7	0	1.0	0	0.388	1	2.127	0	5.479	0	2025	38	4.5
25826.1	10000	41.9824	93.7127	-734	QW	2.0	0	5.3	0	1.0	0	0.383	1	1.980	0	5.174	0	2029	45	4.6
25826.0	10000	41.9824	93.7120	-740	QW	1.9	0	5.3	0	1.0	0	0.368	0	1.926	0	5.237	0	2035	45	4.6
25825.9	10000	41.9825	93.7113	-743	QW	2.0	0	5.2	0	0.9	-1	0.381	1	2.111	0	5.543	0	2036	55	4.6
25825.8	10000	41.9825	93.7106	-746	QW	1.9	0	5.2	0	1.0	-1	0.376	0	2.045	0	5.438	0	2051	50	4.6
25825.7	10000	41.9825	93.7099	-750	QW	1.8	0	5.5	0	1.0	-1	0.345	0	1.926	0	5.583	0	2036	48	4.6
25825.6	10000	41.9825	93.7092	-754	QW	1.7	-1	5.8	0	1.0	-1	0.307	-1	1.804	0	5.882	0	2031	40	4.6
25825.5	10000	41.9825	93.7085	-759	QW	1.7	-1	5.4	0	1.0	-1	0.321	-1	1.757	0	5.472	0	2029	59	4.6
25825.4	10000	41.9825	93.7078	-764	QW	1.7	-1	5.6	0	1.1	0	0.302	-1	1.606	-1	5.318	0	2022	35	4.6
25825.3	10000	41.9825	93.7071	-770	QW	1.8	0	5.6	0	1.1	1	0.320	-1	1.613	-1	5.046	0	2023	44	4.6
25825.2	10000	41.9826	93.7064	-775	QW	1.4	-1	5.5	0	1.1	1	0.256	-1	1.257	-1	4.919	0	2010	28	4.6
25825.1	10000	41.9826	93.7057	-780	QW	1.5	-1	5.3	0	1.1	1	0.279	-1	1.349	-1	4.842	-1	1989	53	4.6
25825.0	10000	41.9826	93.7050	-786	QW	1.3	-2	5.1	0	1.1	1	0.254	-1	1.172	-2	4.616	-1	1981	48	4.7
25824.9	10000	41.9826	93.7043	-791	QW	1.2	-2	5.1	0	1.1	1	0.238	-1	1.085	-2	4.555	-1	1981	60	4.7
25824.8	10000	41.9826	93.7036	-796	QW	1.0	-2	5.4	0	1.1	1	0.182	-2	0.862	-2	4.746	-1	1981	43	4.7
25824.7	10000	41.9826	93.7029	-801	QW	1.2	-2	5.6	0	1.1	1	0.211	-2	1.076	-2	5.101	0	1992	40	4.7
25824.6	10000	41.9826	93.7022	-806	QW	1.3	-2	5.3	0	1.0	1	0.243	-1	1.242	-1	5.101	0	1992	50	4.7
25824.5	10000	41.9827	93.7015	-811	QW	1.6	-1	5.6	0	1.1	1	0.285	-1	1.539	-1	5.410	0	2004	47	4.7
25824.4	10000	41.9827	93.7008	-816	QW	1.5	-1	5.9	0	1.1	1	0.261	-1	1.508	-1	5.777	1	2029	45	4.7
25824.3	10000	41.9827	93.7001	-822	QW	1.6	-1	5.7	0	1.1	1	0.292	-1	1.649	-1	5.654	1	2034	53	4.7
25824.2	10000	41.9827	93.6994	-827	QW	1.7	-1	5.7	0	1.1	1	0.293	-1	1.696	-1	5.790	1	2042	45	4.7
25824.1	10000	41.9827	93.6987	-832	QW	1.8	0	5.8	0	1.1	1	0.316	-1	1.859	-1	5.879	1	2046	48	4.7
25824.0	10000	41.9827	93.6980	-836	QW	1.7	-1	5.7	0	1.1	1	0.293	-1	1.651	-1	5.642	1	2032	46	4.7
25823.9	10000	41.9827	93.6973	-842	QW	1.5	-1	5.8	1	1.0	-1	0.264	-1	1.549	-1	5.871	1	2031	65	4.7

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25823.8	10000	41.9827	93.6966	-846	QW	1.4	-1	5.4	0	1.0	0	0.255	-1	1.355	-1	5.306	0	2015	47	4.7
25823.7	10000	41.9827	93.6959	-852	QW	1.3	-2	5.6	0	1.0	0	0.236	-1	1.289	-1	5.451	0	2000	43	4.7
25823.6	10000	41.9827	93.6952	-857	QW	1.3	-2	5.4	0	1.0	0	0.242	-1	1.258	-1	5.198	0	2000	44	4.7
25823.5	10000	41.9827	93.6945	-862	QW	1.5	-1	5.3	0	1.1	0	0.284	-1	1.407	-1	4.950	0	1997	47	4.7
25823.4	10000	41.9827	93.6937	-866	QW	1.6	-1	5.2	0	1.0	0	0.317	-1	1.595	-1	5.034	0	1992	52	4.7
25823.3	10000	41.9827	93.6930	-871	QW	1.7	-1	4.9	-1	1.0	0	0.344	0	1.652	-1	4.808	-1	1988	44	4.7
25823.2	10000	41.9827	93.6923	-876	QW	1.7	-1	4.9	-1	1.0	0	0.354	0	1.702	0	4.802	-1	1976	59	4.7
25823.1	10000	41.9827	93.6916	-881	QW	2.0	0	5.0	-1	1.0	0	0.396	0	1.929	0	4.877	-1	1972	46	4.7
25823.0	10000	41.9827	93.6909	-885	QW	1.9	0	4.8	-1	1.0	0	0.402	0	1.852	0	4.605	-1	1960	39	4.7
25822.9	10000	41.9827	93.6902	-889	QW	1.8	0	4.9	-1	1.0	-1	0.373	0	1.848	0	4.955	0	1945	45	4.7
25822.8	10000	41.9827	93.6895	-893	QW	1.9	0	5.2	0	0.9	-1	0.362	0	2.013	0	5.557	1	1940	44	4.7
25822.7	10000	41.9827	93.6888	-897	QW	2.0	0	5.3	0	1.0	-1	0.377	0	2.063	0	5.512	1	1954	44	4.7
25822.6	10000	41.9827	93.6880	-901	QW	2.0	0	5.6	0	0.9	-1	0.362	0	2.169	1	5.991	1	1964	59	4.7
25822.5	10000	41.9827	93.6873	-905	QW	2.3	1	5.8	1	0.9	-1	0.388	0	2.409	1	6.202	2	1986	52	4.7
25822.4	10000	41.9827	93.6866	-908	QW	2.1	0	5.9	1	1.0	-1	0.350	0	2.174	1	6.213	2	2012	50	4.7
25822.3	10000	41.9827	93.6859	-912	QW	2.1	0	6.0	1	1.0	-1	0.357	0	2.235	1	6.263	2	2030	45	4.7
25822.2	10000	41.9827	93.6852	-916	QW	2.3	1	6.2	1	1.0	-1	0.374	0	2.363	1	6.323	2	2055	43	4.7
25822.1	10000	41.9827	93.6845	-920	QW	2.4	1	6.1	1	1.0	0	0.390	0	2.259	1	5.786	1	2076	42	4.7
25822.0	10000	41.9827	93.6838	-924	QW	2.3	1	5.8	1	1.0	0	0.396	0	2.236	1	5.644	1	2061	60	4.7
25821.9	10000	41.9827	93.6831	-927	QW	2.4	1	5.7	0	1.1	0	0.425	1	2.231	1	5.245	0	2075	38	4.7
25821.8	10000	41.9827	93.6823	-931	QW	2.1	0	5.4	0	1.1	0	0.399	0	1.971	0	4.940	0	2074	37	4.7
25821.7	10000	41.9827	93.6816	-933	QW	2.1	0	5.4	0	1.1	0	0.384	0	1.927	0	5.019	0	2075	54	4.7
25821.6	10000	41.9827	93.6809	-936	QW	1.9	0	5.5	0	1.1	0	0.342	0	1.733	0	5.061	0	2089	47	4.7
25821.5	10000	41.9827	93.6802	-939	QW	2.0	0	5.9	1	1.1	0	0.345	0	1.832	0	5.304	0	2102	49	4.7
25821.4	10000	41.9827	93.6795	-942	QW	1.9	0	5.8	0	1.0	0	0.324	0	1.790	0	5.521	1	2081	56	4.7
25821.3	10000	41.9827	93.6788	-944	QW	1.9	0	6.1	1	1.1	0	0.303	-1	1.756	0	5.805	1	2099	49	4.7
25821.2	10000	41.9827	93.6781	-947	QW	1.9	0	6.0	1	1.0	0	0.310	-1	1.805	0	5.817	1	2088	49	4.7
25821.1	10000	41.9827	93.6774	-949	QW	2.1	0	6.4	1	1.0	0	0.325	0	2.011	0	6.186	2	2078	45	4.7
25821.0	10000	41.9827	93.6766	-951	QW	2.1	0	6.4	1	1.0	0	0.332	0	2.049	0	6.172	2	2064	61	4.7
25820.9	10000	41.9827	93.6759	-953	QW	2.4	1	6.2	1	1.0	-1	0.380	0	2.436	1	6.405	2	2047	53	4.7
25820.8	10000	41.9827	93.6752	-955	QW	2.0	0	6.1	1	1.0	-1	0.338	0	2.130	0	6.307	2	2024	44	4.7
25820.7	10000	41.9827	93.6745	-957	QW	1.9	0	6.0	1	1.0	-1	0.311	-1	1.945	0	6.264	2	2031	38	4.7
25820.6	10000	41.9827	93.6738	-958	QW	1.8	0	5.8	1	1.0	-1	0.307	-1	1.835	0	5.969	1	2023	44	4.7
25820.5	10000	41.9827	93.6731	-960	QW	1.6	-1	6.0	1	0.9	-1	0.259	-1	1.721	0	6.651	2	2018	53	4.7
25820.4	10000	41.9827	93.6724	-962	QW	1.3	-2	5.9	1	0.9	-1	0.223	-2	1.413	-1	6.347	2	2020	40	4.7
25820.3	10000	41.9827	93.6716	-963	QW	1.5	-1	5.8	1	0.9	-1	0.258	-1	1.597	-1	6.199	2	2018	47	4.6
25820.2	10000	41.9827	93.6709	-964	QW	1.4	-1	5.9	1	1.0	0	0.245	-1	1.429	-1	5.841	1	2018	46	4.6
25820.1	10000	41.9827	93.6702	-966	QW	1.5	-1	5.8	1	1.1	0	0.252	-1	1.366	-1	5.427	0	2027	60	4.6
25820.0	10000	41.9827	93.6695	-967	QW	1.6	-1	5.6	1	1.1	0	0.291	-1	1.508	-1	5.176	0	2035	50	4.6
25819.9	10000	41.9827	93.6688	-968	QW	1.6	-1	5.6	1	1.1	0	0.287	-1	1.453	-1	5.053	0	2049	48	4.6
25819.8	10000	41.9827	93.6681	-970	QW	1.8	0	5.6	1	1.2	0	0.320	-1	1.527	-1	4.770	-1	2044	59	4.6
25819.7	10000	41.9827	93.6674	-971	QW	2.0	0	5.6	1	1.2	0	0.357	0	1.738	0	4.868	-1	2045	43	4.6
25819.6	10000	41.9827	93.6667	-971	QW	2.1	0	5.7	1	1.2	0	0.363	0	1.765	0	4.858	-1	2043	48	4.6
25819.5	10000	41.9827	93.6659	-972	QW	2.3	1	5.6	1	1.2	0	0.408	0	2.002	0	4.909	0	2051	49	4.6
25819.4	10000	41.9827	93.6652	-972	QW	2.2	1	5.4	1	1.2	0	0.408	0	2.062	0	5.049	0	2052	52	4.6
25819.3	10000	41.9827	93.6645	-972	QW	2.2	1	5.7	1	1.1	0	0.384	0	1.946	0	5.062	0	2044	45	4.6
25819.2	10000	41.9827	93.6638	-973	QW	2.1	0	5.8	1	1.1	0	0.362	0	1.980	0	5.470	0	2019	35	4.6
25819.1	10000	41.9827	93.6631	-974	QW	2.5	1	5.7	1	1.0	0	0.449	1	2.478	1	5.517	0	2029	47	4.6
25819.0	10000	41.9827	93.6624	-975	QW	2.5	1	5.6	1	1.0	0	0.450	1	2.456	1	5.460	0	2023	52	4.5
25818.9	10000	41.9827	93.6617	-975	QW	2.4	1	5.6	1	1.0	0	0.431	1	2.430	1	5.637	1	2021	39	4.5
25818.8	10000	41.9827	93.6609	-976	QW	2.1	0	5.5	1	1.0	-1	0.387	0	2.163	1	5.588	1	2009	38	4.5
25818.7	10000	41.9827	93.6602	-977	QW	2.3	1	5.6	0	1.0	-1	0.410	0	2.372	1	5.781	1	1994	42	4.5

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25818.6	10000	41.9827	93.6595	-978	QW	2.4	1	5.5	0	0.9	-1	0.436	1	2.560	1	5.876	1	1999	45	4.5
25818.5	10000	41.9827	93.6588	-978	QW	2.3	1	5.2	0	0.9	-1	0.440	1	2.434	1	5.526	1	2005	34	4.5
25818.4	10000	41.9826	93.6581	-978	QW	2.0	0	5.4	0	0.9	-2	0.377	0	2.244	1	5.945	1	1991	55	4.5
25818.3	10000	41.9827	93.6574	-977	QW	1.9	0	5.3	0	0.9	-1	0.360	0	2.079	0	5.771	1	1981	37	4.5
25818.2	10000	41.9826	93.6567	-978	QW	1.7	-1	5.3	0	0.9	-1	0.326	0	1.833	0	5.630	1	1970	43	4.5
25818.1	10000	41.9826	93.6560	-978	QW	1.8	-1	5.2	0	0.9	-1	0.338	0	1.914	0	5.667	1	1964	46	4.5
25818.0	10000	41.9826	93.6553	-977	QW	1.8	0	5.0	-1	0.9	-2	0.358	0	2.012	0	5.619	1	1959	44	4.5
25817.9	10000	41.9826	93.6545	-977	QW	1.7	-1	5.0	-1	0.9	-1	0.332	0	1.809	0	5.442	0	1959	54	4.5
25817.8	10000	41.9826	93.6538	-977	QW	1.9	0	5.3	0	0.9	-1	0.371	0	2.076	0	5.600	1	1959	44	4.5
25817.7	10000	41.9826	93.6531	-977	QW	1.8	0	5.4	0	1.0	-1	0.329	0	1.799	0	5.472	0	1983	44	4.5
25817.6	10000	41.9826	93.6524	-978	QW	2.0	0	5.6	0	1.0	-1	0.356	0	2.026	0	5.685	1	1984	47	4.5
25817.5	10000	41.9826	93.6517	-979	QW	2.1	0	5.5	0	1.0	-1	0.382	1	2.163	1	5.657	1	1995	53	4.5
25817.4	10000	41.9826	93.6510	-979	QW	2.1	0	5.6	0	1.0	-1	0.383	1	2.200	1	5.744	1	1999	45	4.5
25817.3	10000	41.9826	93.6503	-979	QW	2.2	1	6.0	1	1.0	0	0.366	1	2.154	1	5.889	1	2011	52	4.5
25817.2	10000	41.9826	93.6496	-978	QW	2.1	0	6.3	1	1.0	-1	0.328	0	2.131	0	6.504	2	2008	42	4.5
25817.1	10000	41.9826	93.6488	-977	QW	2.1	0	6.3	1	1.0	-1	0.326	0	2.130	0	6.527	2	2014	37	4.5
25817.0	10000	41.9826	93.6481	-977	QW	2.1	0	6.1	1	1.0	-1	0.343	0	2.174	1	6.337	2	1993	56	4.5
25816.9	10000	41.9826	93.6474	-977	QW	2.0	0	5.9	1	1.0	-1	0.338	0	2.032	0	6.010	1	2006	46	4.5
25816.8	10000	41.9826	93.6467	-977	QW	1.9	0	5.9	1	1.0	-1	0.323	-1	1.958	0	6.058	1	2015	43	4.5
25816.7	10000	41.9826	93.6460	-977	QW	2.2	0	5.8	0	1.0	-1	0.372	0	2.241	1	6.021	1	2012	46	4.5
25816.6	10000	41.9826	93.6453	-977	QW	2.2	1	5.6	0	0.9	-1	0.398	0	2.419	1	6.071	1	2001	45	4.5
25816.5	10000	41.9826	93.6446	-978	QW	2.3	1	5.4	0	0.9	-1	0.419	1	2.401	1	5.725	1	1997	37	4.5
25816.4	10000	41.9826	93.6438	-977	QW	2.4	1	5.4	0	1.0	-1	0.443	1	2.461	1	5.553	1	1998	46	4.4
25816.3	10000	41.9826	93.6431	-976	QW	2.4	1	5.5	0	1.0	-1	0.437	1	2.519	1	5.765	1	2017	40	4.4
25816.2	10000	41.9826	93.6424	-975	QW	2.3	1	5.9	1	1.0	-1	0.390	1	2.322	1	5.957	1	2016	43	4.4
25816.1	10000	41.9826	93.6417	-975	QW	2.3	1	5.9	1	1.0	-1	0.383	0	2.369	1	6.182	2	2001	53	4.4
25816.0	10000	41.9826	93.6410	-975	QW	2.1	1	6.2	1	1.0	-1	0.344	0	2.128	1	6.181	2	2013	48	4.4
25815.9	10000	41.9826	93.6403	-974	QW	2.1	1	6.1	1	1.0	-1	0.344	0	1.926	1	5.595	1	2030	39	4.4
25815.8	10000	41.9826	93.6396	-974	QW	2.2	1	6.2	1	1.0	-1	0.349	0	2.036	1	5.835	1	2017	40	4.4
25815.7	10000	41.9826	93.6389	-973	QW	2.0	1	6.4	1	1.0	-1	0.312	-1	1.872	1	5.992	1	200	44	4.4
25815.6	10000	41.9826	93.6382	-973	QW	1.8	1	6.1	1	1.0	-1	0.293	-1	1.684	1	5.750	1	1994	49	4.4
25815.5	10000	41.9826	93.6374	-973	QW	1.8	1	5.8	1	1.0	-1	0.316	-1	1.777	1	5.619	1	1981	53	4.4
25815.4	10000	41.9826	93.6367	-972	QW	2.0	1	5.8	1	1.0	-1	0.348	0	1.863	1	5.357	0	2002	47	4.4
25815.3	10000	41.9826	93.6360	-971	QW	1.9	1	5.6	1	1.0	-1	0.331	0	1.791	1	5.413	1	1986	54	4.4
25815.2	10000	41.9826	93.6353	-970	QW	1.9	1	5.9	1	1.0	-1	0.322	-1	1.944	1	6.033	1	1991	39	4.5
25815.1	10000	41.9826	93.6346	-970	QW	2.1	1	5.7	1	1.0	-1	0.364	0	2.007	1	5.500	0	2012	47	4.5
25815.0	10000	41.9826	93.6339	-970	QW	1.9	1	5.6	1	1.0	-1	0.341	0	1.833	1	5.375	0	2026	44	4.5
25814.9	10000	41.9826	93.6332	-969	QW	1.9	1	5.7	1	1.0	-1	0.332	0	1.723	1	5.195	0	2024	44	4.5
25814.8	10000	41.9826	93.6324	-968	QW	2.1	1	5.9	1	1.0	-1	0.347	0	1.887	1	5.443	0	2025	46	4.5
25814.7	10000	41.9826	93.6317	-967	QW	1.9	1	5.9	1	1.0	-1	0.331	0	1.761	1	5.316	0	2023	40	4.5
25814.6	10000	41.9826	93.6310	-966	QW	1.8	1	5.7	1	1.0	-1	0.342	0	1.706	1	4.987	0	2029	46	4.5
25814.5	10000	41.9826	93.6303	-965	QW	1.6	1	5.5	1	1.0	-1	0.319	-1	1.564	-1	4.897	0	2016	50	4.5
25814.4	10000	41.9826	93.6296	-964	QW	1.8	1	5.4	1	1.0	-1	0.291	-1	1.458	-1	5.014	0	2002	50	4.5
25814.3	10000	41.9826	93.6289	-963	QW	1.8	1	5.3	1	1.0	-1	0.331	0	1.611	-1	4.860	0	2006	48	4.5
25814.2	10000	41.9826	93.6282	-962	QW	1.7	1	5.5	1	1.0	-1	0.330	-1	1.746	-1	5.299	0	1999	43	4.5
25814.1	10000	41.9826	93.6275	-961	QW	1.7	1	5.5	1	1.0	-1	0.305	-1	1.592	-1	5.215	0	2007	43	4.5
25814.0	10000	41.9826	93.6267	-960	QW	1.8	1	5.6	1	1.0	-1	0.308	-1	1.657	-1	5.372	0	1998	46	4.5
25813.9	10000	41.9826	93.6260	-959	QW	1.7	1	6.0	1	1.0	-1	0.298	-1	1.712	-1	5.745	0	2008	47	4.5
25813.8	10000	41.9826	93.6253	-957	QW	1.8	1	6.4	1	1.1	-1	0.285	-1	1.612	-1	5.661	1	2017	46	4.5
25813.7	10000	41.9826	93.6246	-955	QW	1.8	1	6.4	1	1.1	-1	0.274	-1	1.611	-1	5.890	1	2041	59	4.5
25813.6	10000	41.9826	93.6239	-954	QW	1.8	1	6.4	1	1.1	-1	0.275	-1	1.629	-1	5.915	1	2028	44	4.5
25813.5	10000	41.9826	93.6232	-952	QW	1.8	0	6.2	1	1.1	0	0.290	-1	1.634	-1	5.631	1	2034	46	4.5

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25813.4	10000	41.9826	93.6225	-951	QW	1.8	0	6.2	1	1.1	0	0.288	-1	1.653	-1	5.732	1	2038	46	4.5
25813.3	10000	41.9826	93.6217	-949	QW	1.7	-1	6.2	1	1.1	0	0.278	-1	1.576	-1	5.661	1	2041	50	4.5
25813.2	10000	41.9826	93.6210	-948	QW	1.8	-1	6.2	1	1.1	0	0.285	-1	1.613	-1	5.668	1	2042	47	4.6
25813.1	10000	41.9826	93.6203	-947	QW	1.9	0	6.1	1	1.1	1	0.313	-1	1.664	-1	5.319	0	2039	42	4.6
25813.0	10000	41.9826	93.6196	-945	QW	1.8	-1	5.8	1	1.2	1	0.305	-1	1.507	-1	4.941	0	2026	53	4.6
25812.9	10000	41.9826	93.6189	-944	QW	1.8	0	5.9	1	1.2	1	0.305	-1	1.558	-1	5.106	0	2042	36	4.6
25812.8	10000	41.9826	93.6182	-941	QW	2.0	0	5.8	1	1.2	1	0.336	0	1.675	0	4.991	0	2046	39	4.6
25812.7	10000	41.9825	93.6175	-940	QW	1.7	-1	5.5	1	1.2	2	0.311	-1	1.422	-1	4.578	-1	2037	46	4.6
25812.6	10000	41.9825	93.6168	-938	QW	1.7	-1	5.4	1	1.2	2	0.315	-1	1.398	-1	4.444	-1	2046	39	4.6
25812.5	10000	41.9825	93.6160	-936	QW	1.5	-1	5.5	1	1.2	2	0.278	-1	1.235	-1	4.445	-1	2049	52	4.6
25812.4	10000	41.9825	93.6153	-934	QW	1.6	-1	5.5	1	1.2	1	0.295	-1	1.357	-1	4.594	-1	2052	47	4.6
25812.3	10000	41.9825	93.6146	-932	QW	2.1	0	5.6	1	1.2	1	0.376	0	1.790	0	4.764	-1	2054	67	4.6
25812.2	10000	41.9825	93.6139	-930	QW	1.8	0	5.4	1	1.2	1	0.341	0	1.571	-1	4.603	-1	2054	48	4.6
25812.1	10000	41.9825	93.6132	-928	QW	1.7	-1	5.5	1	1.2	1	0.307	-1	1.453	-1	4.740	-1	2062	51	4.7
25812.0	10000	41.9825	93.6125	-926	QW	1.7	-1	5.7	1	1.2	1	0.301	-1	1.435	-1	4.771	-1	2081	52	4.7
25811.9	10000	41.9825	93.6118	-924	QW	1.7	-1	5.5	1	1.2	1	0.312	-1	1.488	-1	4.762	-1	2081	60	4.7
25811.8	10000	41.9825	93.6111	-922	QW	1.7	-1	5.3	1	1.2	1	0.318	-1	1.460	-1	4.593	-1	2085	45	4.7
25811.7	10000	41.9825	93.6104	-920	QW	1.5	-1	5.5	1	1.2	1	0.278	-1	1.310	-1	4.714	-1	2084	48	4.7
25811.6	10000	41.9825	93.6096	-918	QW	1.2	-2	5.4	1	1.1	1	0.215	-2	1.032	-2	4.807	-1	2077	56	4.7
25811.5	10000	41.9825	93.6089	-917	QW	1.1	-2	5.3	1	1.2	1	0.209	-2	0.963	-2	4.615	-1	2072	36	4.7
25811.4	10000	41.9825	93.6082	-915	QW	1.1	-2	5.4	1	1.2	1	0.208	-2	0.961	-2	4.612	-1	2065	47	4.7
25811.3	10000	41.9825	93.6075	-914	QW	1.4	-1	5.5	0	1.1	1	0.251	-1	1.226	-1	4.892	0	2049	44	4.7
25811.2	10000	41.9825	93.6068	-913	QW	1.5	-1	5.8	1	1.1	1	0.256	-1	1.341	-1	5.236	0	2039	61	4.7
25811.1	10000	41.9825	93.6061	-912	QW	1.5	-1	5.8	0	1.1	0	0.258	-1	1.357	-1	5.249	0	2036	44	4.7
25811.0	10000	41.9825	93.6054	-910	QW	1.6	-1	5.8	1	1.1	1	0.274	-1	1.403	-1	5.123	0	2049	51	4.7
25810.9	10000	41.9825	93.6046	-908	QW	1.8	0	5.7	1	1.2	1	0.323	-1	1.554	-1	4.810	-1	2063	57	4.7
25810.8	10000	41.9825	93.6039	-906	QW	1.9	0	5.7	1	1.2	1	0.336	-1	1.634	-1	4.865	-1	2073	46	4.8
25810.7	10000	41.9825	93.6032	-904	QW	1.9	0	5.8	1	1.1	1	0.325	-1	1.661	-1	5.108	0	2080	42	4.8
25810.6	10000	41.9825	93.6025	-902	QW	2.0	0	5.8	1	1.1	1	0.341	-1	1.751	-1	5.129	0	2110	47	4.8
25810.5	10000	41.9825	93.6018	-900	QW	2.1	0	5.7	1	1.2	1	0.372	-1	1.817	-1	4.889	-1	2132	54	4.8
25810.4	10000	41.9825	93.6011	-899	QW	2.3	0	5.5	1	1.1	1	0.431	-1	2.081	-1	4.834	-1	2145	37	4.8
25810.3	10000	41.9825	93.6004	-897	QW	2.3	0	5.2	1	1.1	1	0.452	-1	2.195	-1	4.862	-1	2143	36	4.8
25810.2	10000	41.9825	93.5997	-895	QW	2.3	0	5.5	1	1.1	1	0.430	-1	2.192	-1	5.094	0	2145	41	4.8
25810.1	10000	41.9825	93.5989	-893	QW	2.3	0	5.7	1	1.1	1	0.391	-1	2.135	-1	5.453	0	2141	60	4.8
25810.0	10000	41.9825	93.5982	-892	QW	2.3	0	5.4	1	1.0	1	0.393	-1	2.068	-1	5.263	0	2134	55	4.8
25809.9	10000	41.9825	93.5975	-891	QW	2.2	-1	5.1	1	1.0	0	0.395	-1	2.024	-1	5.122	0	2116	46	4.8
25809.8	10000	41.9825	93.5968	-890	QW	2.1	-1	5.4	1	1.0	0	0.336	-1	1.807	-1	5.386	0	2116	39	4.8
25809.7	10000	41.9825	93.5961	-889	QW	2.0	-1	5.8	1	1.0	0	0.299	-1	1.734	-1	5.791	1	2130	54	4.8
25809.6	10000	41.9825	93.5954	-888	QW	1.8	-1	6.0	1	1.0	0	0.265	-1	1.559	-1	5.886	1	2145	46	4.8
25809.5	10000	41.9825	93.5947	-888	QW	1.7	-2	6.0	1	1.0	0	0.217	-2	1.333	-1	6.134	2	2155	47	4.8
25809.4	10000	41.9825	93.5939	-887	QW	1.6	-2	6.4	1	1.0	1	0.221	-2	1.400	-1	6.333	2	2167	44	4.8
25809.3	10000	41.9825	93.5932	-888	QW	1.5	-1	6.8	1	1.1	1	0.228	-1	1.459	-1	6.393	1	2208	32	4.9
25809.2	10000	41.9825	93.5925	-889	QW	1.4	-1	7.0	1	1.1	1	0.232	-1	1.484	-1	6.403	1	2239	56	4.9
25809.1	10000	41.9825	93.5918	-891	QW	1.4	-1	7.0	1	1.1	1	0.260	-1	1.705	-1	6.567	1	2256	42	4.9
25809.0	10000	41.9825	93.5911	-892	QW	1.4	-1	6.7	1	1.1	1	0.271	-1	1.642	-1	6.050	1	2265	36	4.9
25808.9	10000	41.9825	93.5904	-894	QW	1.5	-1	6.8	1	1.1	1	0.306	-1	1.886	-1	6.160	1	2274	36	4.9
25808.8	10000	41.9825	93.5897	-895	QW	1.6	-1	7.1	1	1.1	1	0.325	-1	2.097	-1	6.450	1	2298	58	4.9
25808.7	10000	41.9825	93.5890	-898	QW	1.7	-1	7.2	1	1.1	1	0.433	0	2.731	1	6.308	1	2325	45	4.9
25808.6	10000	41.9825	93.5883	-900	QW	1.8	-1	7.1	1	1.1	1	0.471	0	2.815	1	5.976	1	2312	48	4.9
25808.5	10000	41.9825	93.5875	-902	QW	1.9	-1	7.0	1	1.1	1	0.469	0	2.853	1	6.080	1	2288	60	4.9
25808.4	10000	41.9825	93.5868	-904	QW	2.0	-1	6.9	1	1.1	1	0.432	0	2.587	1	5.993	1	2271	46	4.9
25808.3	10000	41.9825	93.5861	-903	QW	2.1	-1	6.9	1	1.1	1	0.442	0	2.869	1	6.483	1	2232	39	4.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25808.2	10000	41.9825	93.5854	-910	QQ	2.3	1	5.7	0	0.9	-1	0.410	0	2.606	1	6.362	1	2176	46	4.9
25808.1	10000	41.9825	93.5847	-913	QQ	2.3	0	5.1	0	0.9	-1	0.442	0	2.519	1	5.697	0	2144	54	4.9
25808.0	10000	41.9825	93.5840	-916	QQ	1.9	0	5.0	0	0.9	-1	0.372	0	2.020	0	5.431	0	2101	37	4.9
25807.9	10000	41.9825	93.5833	-919	QQ	1.9	0	5.0	0	0.9	-1	0.371	0	2.011	0	5.417	0	2079	47	4.9
25807.8	10000	41.9825	93.5826	-922	QQ	1.6	-1	5.2	0	1.0	0	0.315	-1	1.639	-1	5.199	0	2108	41	4.9
25807.7	10000	41.9824	93.5818	-925	QQ	1.7	-1	5.2	0	1.0	0	0.323	-1	1.709	-1	5.286	0	2120	34	4.9
25807.6	10000	41.9824	93.5811	-928	QQ	1.8	-1	5.3	0	1.0	0	0.337	0	1.718	0	5.102	0	2160	54	4.9
25807.5	10000	41.9824	93.5803	-931	QQ	2.2	0	5.6	0	1.1	0	0.387	0	1.986	0	5.128	0	2208	50	4.9
25807.4	10000	41.9824	93.5796	-934	QQ	1.9	0	6.1	1	1.1	0	0.319	-1	1.734	0	5.444	0	2226	42	4.9
25807.3	10000	41.9824	93.5789	-937	QQ	2.0	1	6.3	1	1.1	0	0.313	-1	1.795	0	5.744	1	2262	61	4.9
25807.2	10000	41.9824	93.5781	-940	QQ	2.3	1	6.6	1	1.1	0	0.354	0	2.110	0	5.954	1	2294	45	4.9
25807.1	10000	41.9824	93.5774	-942	QQ	2.6	1	6.9	1	1.1	0	0.378	0	2.455	1	6.487	1	2298	45	4.9
25807.0	10000	41.9824	93.5766	-945	QQ	2.8	1	6.7	1	1.1	0	0.413	0	2.544	1	6.166	1	2326	54	4.9
25806.9	10000	41.9824	93.5759	-947	QQ	2.8	2	6.7	1	1.1	1	0.424	0	2.526	1	5.955	1	2337	50	4.9
25806.8	10000	41.9824	93.5751	-949	QQ	2.8	2	6.3	1	1.1	0	0.444	0	2.588	1	5.829	1	2360	40	4.9
25806.7	10000	41.9824	93.5744	-950	QQ	3.0	2	6.0	1	1.1	0	0.502	1	2.965	1	5.901	1	2371	39	4.9
25806.6	10000	41.9824	93.5736	-951	QQ	3.1	2	6.1	1	1.1	0	0.503	1	2.864	1	5.691	0	2381	51	4.9
25806.5	10000	41.9824	93.5729	-953	QQ	2.9	2	6.3	1	1.1	0	0.461	1	2.821	1	6.115	1	2387	42	4.9
25806.4	10000	41.9824	93.5721	-954	QQ	2.8	1	5.7	1	1.1	0	0.482	1	2.770	1	5.745	1	2378	33	4.9
25806.3	10000	41.9824	93.5714	-955	QQ	2.9	2	5.9	1	1.1	0	0.490	1	2.974	1	6.068	1	2361	37	4.9
25806.2	10000	41.9824	93.5706	-956	QQ	2.6	1	5.8	1	1.1	0	0.449	1	2.613	1	5.820	1	2366	41	4.9
25806.1	10000	41.9824	93.5699	-957	QQ	2.6	1	6.1	1	1.1	0	0.419	0	2.368	0	5.652	0	2355	51	4.9
25806.0	10000	41.9824	93.5692	-958	QQ	2.8	1	5.9	1	1.1	0	0.467	1	2.505	1	5.361	0	2356	45	4.9
25805.9	10000	41.9824	93.5684	-960	QQ	2.7	1	5.6	1	1.1	0	0.491	1	2.509	1	5.112	0	2325	60	4.9
25805.8	10000	41.9824	93.5677	-960	QQ	2.6	1	5.5	1	1.1	0	0.472	1	2.306	0	4.882	0	2305	49	4.9
25805.7	10000	41.9824	93.5669	-961	QQ	2.6	1	5.7	1	1.1	0	0.452	0	2.263	0	5.009	0	2306	46	4.9
25805.6	10000	41.9824	93.5662	-961	QQ	2.5	1	5.6	1	1.1	0	0.452	0	2.225	0	4.924	0	2289	63	4.9
25805.5	10000	41.9824	93.5654	-961	QQ	2.6	1	6.0	1	1.1	0	0.440	0	2.425	1	5.512	0	2273	46	4.9
25805.4	10000	41.9824	93.5647	-962	QQ	2.5	1	5.9	1	1.1	0	0.380	0	2.118	0	5.568	0	2251	44	4.9
25805.3	10000	41.9824	93.5639	-962	QQ	2.5	1	5.9	1	1.1	0	0.376	0	2.094	0	5.566	0	2249	43	4.9
25805.2	10000	41.9823	93.5632	-962	QQ	2.5	1	6.2	1	1.1	0	0.360	0	2.111	0	5.860	0	2263	48	4.9
25805.1	10000	41.9823	93.5624	-962	QQ	2.5	1	6.2	1	1.1	0	0.348	0	2.116	0	6.084	0	2267	41	4.9
25805.0	10000	41.9823	93.5617	-962	QQ	2.5	1	6.0	1	1.1	0	0.373	0	2.135	0	5.724	0	2242	44	4.9
25804.9	10000	41.9823	93.5609	-961	QQ	2.5	1	5.8	1	1.1	0	0.347	0	1.971	0	5.393	0	2224	52	4.9
25804.8	10000	41.9823	93.5602	-961	QQ	2.5	1	5.7	1	1.1	0	0.355	0	1.915	0	5.399	0	2184	41	4.9
25804.7	10000	41.9823	93.5595	-961	QQ	2.2	1	5.4	1	1.0	0	0.419	0	2.242	0	5.345	0	2156	56	4.9
25804.6	10000	41.9823	93.5587	-961	QQ	2.2	1	5.3	1	1.0	0	0.389	0	2.034	0	5.226	0	2101	47	4.9
25804.5	10000	41.9823	93.5580	-961	QQ	1.9	1	5.1	1	1.0	0	0.379	0	1.936	0	5.109	0	2065	46	4.9
25804.4	10000	41.9823	93.5572	-960	QQ	1.8	0	4.5	-1	1.0	0	0.407	0	1.803	0	4.433	-1	2022	54	4.9
25804.3	10000	41.9823	93.5565	-960	QQ	2.0	0	4.4	-2	1.0	0	0.445	1	1.934	0	4.342	-1	1998	49	4.9
25804.2	10000	41.9823	93.5557	-959	QQ	1.9	0	4.2	-2	1.0	0	0.441	1	1.817	0	4.120	-2	1981	57	4.9
25804.1	10000	41.9823	93.5550	-958	QQ	1.8	-1	3.8	-2	1.0	0	0.462	1	1.684	0	3.647	-2	1968	55	4.9
25804.0	10000	41.9823	93.5542	-957	QQ	1.6	-1	3.6	-2	1.0	0	0.453	1	1.541	-1	3.398	-3	1961	45	4.9
25803.9	10000	41.9823	93.5535	-956	QQ	1.9	0	3.9	-2	1.1	0	0.487	1	1.747	0	3.586	-3	1976	47	4.9
25803.8	10000	41.9823	93.5527	-954	QQ	2.1	0	3.9	-2	1.1	1	0.587	2	2.003	0	3.410	-3	1967	57	4.9
25803.7	10000	41.9823	93.5520	-953	QQ	1.9	0	3.8	-2	1.1	0	0.484	1	1.756	0	3.632	-3	1958	38	4.9
25803.6	10000	41.9823	93.5513	-953	QQ	1.5	-1	3.8	-2	1.1	0	0.401	1	1.425	-1	3.554	-3	1958	43	4.9
25803.5	10000	41.9823	93.5505	-952	QQ	1.9	0	3.8	-2	1.1	0	0.492	1	1.678	0	3.411	-3	1954	60	4.9
25803.4	10000	41.9823	93.5498	-952	QQ	1.8	0	3.8	-2	1.1	0	0.498	1	1.713	0	3.438	-3	1940	35	4.9
25803.3	10000	41.9823	93.5490	-951	QQ	1.9	0	3.8	-2	1.1	0	0.494	1	1.756	0	3.557	-3	1951	43	4.9
25803.2	10000	41.9823	93.5483	-950	QQ	1.5	-1	3.8	-2	1.1	0	0.405	1	1.348	-1	3.328	-3	1954	58	4.9
25803.1	10000	41.9823	93.5475	-949	QQ	1.3	-2	3.8	-2	1.2	1	0.354	0	1.133	-2	3.203	-3	1951	41	4.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25803.0	10000	41.9823	93.5468	-948	QW	1.6	-1	3.8	-2	1.2	1	0.415	0	1.342	-1	3.231	-3	1972	46	4.9
25802.9	10000	41.9823	93.5460	-947	QW	1.6	-1	3.7	-2	1.2	1	0.437	1	1.411	-1	3.230	-3	1986	33	4.9
25802.8	10000	41.9823	93.5453	-946	QW	1.4	-2	4.3	-2	1.2	1	0.320	-1	1.151	-2	3.599	-3	2016	58	4.9
25802.7	10000	41.9823	93.5445	-945	QW	1.4	-1	4.5	-1	1.2	1	0.313	-1	1.195	-1	3.812	-2	2050	46	4.9
25802.6	10000	41.9823	93.5438	-944	QW	1.3	-2	4.6	-1	1.2	1	0.283	-1	1.109	-2	3.923	-2	2066	39	4.9
25802.5	10000	41.9822	93.5430	-943	QW	1.3	-2	5.1	-1	1.1	1	0.248	-1	1.104	-2	4.447	-1	2082	49	4.9
25802.4	10000	41.9822	93.5423	-942	QW	1.3	-2	5.6	-1	1.1	1	0.230	-1	1.152	-1	5.017	0	2117	61	4.9
25802.3	10000	41.9822	93.5416	-941	QW	1.6	-1	5.7	0	1.1	1	0.284	-1	1.464	-1	5.155	0	2126	41	4.9
25802.2	10000	41.9822	93.5408	-940	QW	1.9	0	6.0	0	1.1	0	0.324	0	1.776	0	5.476	0	2135	53	4.9
25302.1	10000	41.9822	93.5401	-939	QW	2.2	-1	5.5	0	1.1	0	0.397	0	2.147	1	5.410	0	2122	40	4.9
25802.0	10000	41.9822	93.5393	-938	QW	2.5	-1	5.3	0	1.1	0	0.467	1	2.240	1	4.795	-1	2132	60	4.9
25801.9	10000	41.9822	93.5386	-937	QW	2.4	-1	5.1	0	1.1	0	0.471	1	2.365	1	5.019	0	2130	41	4.9
25801.8	10000	41.9822	93.5378	-935	QW	2.8	-1	4.9	-1	1.1	1	0.577	2	2.640	2	4.575	-1	2130	49	4.9
25801.7	10000	41.9822	93.5371	-933	QW	3.0	-1	4.7	-1	1.1	1	0.644	3	2.778	2	4.311	-1	2133	69	4.9
25801.6	10000	41.9822	93.5363	-931	QW	2.8	-1	4.6	-1	1.1	0	0.613	3	2.681	2	4.378	-1	2146	50	4.9
25801.5	10000	41.9822	93.5356	-930	QW	2.7	-1	4.8	-1	1.1	0	0.566	2	2.612	1	4.614	-1	2156	35	4.9
25801.4	10000	41.9822	93.5349	-929	QW	2.4	0	5.4	0	1.1	0	0.452	1	2.574	1	5.252	0	2171	49	4.9
25801.3	10000	41.9822	93.5341	-927	QW	2.1	0	5.9	0	1.1	0	0.354	-1	2.162	0	6.109	1	2168	45	4.9
25801.2	10000	41.9822	93.5334	-925	QW	2.1	0	5.9	0	1.1	0	0.359	-1	2.128	0	5.934	1	2155	44	4.9
25801.1	10000	41.9822	93.5326	-924	QW	2.1	0	5.8	0	1.1	0	0.367	-1	2.126	0	5.800	1	2161	47	4.9
25801.0	10000	41.9822	93.5319	-923	QW	2.1	0	5.7	0	1.1	0	0.370	0	2.074	0	5.604	1	2154	41	4.9
25800.9	10000	41.9822	93.5311	-921	QW	2.2	0	5.7	0	1.1	0	0.390	0	2.150	0	5.506	1	2149	44	4.9
25800.8	10000	41.9822	93.5304	-920	QW	1.9	0	5.6	0	1.1	0	0.348	0	1.936	0	5.563	1	2126	44	4.9
25800.7	10000	41.9822	93.5296	-919	QW	2.2	0	5.3	0	1.1	0	0.409	0	2.141	0	5.239	0	2112	41	4.9
25800.6	10000	41.9822	93.5289	-918	QW	2.3	0	5.2	0	1.1	0	0.450	1	2.285	1	5.080	0	2114	46	4.9
25800.5	10000	41.9822	93.5281	-917	QW	2.7	0	5.1	0	1.1	0	0.482	1	2.664	2	5.529	1	2120	51	4.9
25800.4	10000	41.9822	93.5274	-916	QW	2.3	0	5.7	0	1.1	0	0.409	-1	2.388	1	5.836	1	2105	54	4.9
25800.3	10000	41.9822	93.5266	-915	QW	2.1	0	5.7	0	1.1	0	0.368	-1	2.185	1	5.938	1	2113	42	4.9
25800.2	10000	41.9822	93.5259	-914	QW	1.9	0	5.8	0	1.1	0	0.330	-1	1.914	1	5.792	1	2125	52	4.9
25800.1	10000	41.9821	93.5251	-920	QW	2.2	0	5.5	0	1.1	0	0.374	-1	2.045	1	5.528	1	2134	51	4.9
25800.0	10000	41.9821	93.5244	-913	QW	2.2	0	5.5	0	1.1	0	0.356	-1	2.018	1	5.402	1	2152	40	4.9
25799.8	10000	41.9821	93.5229	-908	QW	2.0	0	5.2	0	1.1	0	0.306	-1	1.898	1	5.327	1	2155	47	4.9
25799.7	10000	41.9821	93.5222	-906	QW	2.2	0	5.5	0	1.1	0	0.350	-1	1.535	1	5.017	1	2158	41	4.9
25799.6	10000	41.9821	93.5214	-904	QW	2.3	0	5.3	0	1.1	0	0.334	-1	1.665	1	4.750	1	2163	64	4.9
25799.5	10000	41.9821	93.5207	-903	QW	2.3	0	5.4	0	1.1	0	0.371	-1	1.633	1	4.888	1	2150	59	4.9
25799.4	10000	41.9821	93.5199	-902	QW	2.3	0	5.4	0	1.1	0	0.333	-1	1.774	1	4.781	1	2135	51	4.9
25799.3	10000	41.9821	93.5192	-900	QW	2.3	0	5.4	0	1.1	0	0.342	-1	1.532	1	4.596	1	2149	48	4.9
25799.2	10000	41.9821	93.5184	-899	QW	2.3	0	5.4	0	1.1	0	0.339	-1	1.565	1	4.581	1	2139	47	4.9
25799.1	10000	41.9821	93.5177	-898	QW	2.3	0	5.4	0	1.1	0	0.365	-1	1.579	1	4.657	1	2128	57	4.9
25799.0	10000	41.9821	93.5169	-896	QW	2.3	0	5.4	0	1.1	0	0.387	-1	1.669	1	4.568	1	2141	43	4.9
25798.9	10000	41.9821	93.5162	-894	QW	2.3	0	5.4	0	1.1	0	0.435	-1	1.687	1	4.363	1	2138	56	4.8
25798.8	10000	41.9821	93.5155	-893	QW	2.3	0	5.4	0	1.1	0	0.390	-1	1.958	1	4.500	1	2158	58	4.8
25798.7	10000	41.9821	93.5147	-891	QW	2.3	0	5.4	0	1.1	0	0.464	-1	1.694	1	4.846	1	2150	42	4.8
25798.6	10000	41.9821	93.5140	-890	QW	2.3	0	5.4	0	1.1	0	0.448	-1	1.827	1	5.161	1	2136	46	4.8
25798.5	10000	41.9821	93.5132	-889	QW	2.3	0	5.4	0	1.1	0	0.477	-1	1.892	1	5.197	1	2135	44	4.8
25798.4	10000	41.9821	93.5125	-887	QW	2.3	0	5.4	0	1.1	0	0.465	-1	1.892	1	5.012	1	2141	53	4.8
25798.3	10000	41.9821	93.5117	-885	QW	2.3	0	5.4	0	1.1	0	0.446	-1	1.892	1	5.144	1	2130	46	4.8
25798.2	10000	41.9821	93.5110	-883	QW	2.3	0	5.4	0	1.1	0	0.432	-1	2.482	1	5.567	1	2129	52	4.8
25798.1	10000	41.9821	93.5102	-882	QW	2.3	0	5.4	0	1.1	0	0.391	-1	2.404	1	5.561	1	2106	42	4.8
25798.0	10000	41.9821	93.5095	-879	QW	2.3	0	5.4	0	1.1	0	0.362	-1	2.126	1	5.431	1	2092	40	4.8
25797.9	10000	41.9821	93.5087	-875	QW	2.3	0	5.4	0	1.1	0	0.375	-1	1.816	1	5.022	1	2089	47	4.8
25797.8	10000	41.9821	93.5080	-871	QW	2.0	0	5.4	0	1.1	0	0.375	-1	1.829	1	4.884	1	2100	44	4.8

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25797.7	10000	41.9820	93.5072	-869	QEW	1.6	-1	5.6	0	1.1	0	0.290	-1	1.479	-1	5.105	0	2108	41	4.8
25797.6	10000	41.9820	93.5065	-870	QEW	1.5	-1	5.5	0	1.1	0	0.276	-1	1.388	-1	5.027	0	2106	45	4.8
25797.5	10000	41.9820	93.5058	-870	QEW	1.4	-1	5.7	0	1.1	1	0.244	-1	1.252	-1	5.127	0	2115	57	4.8
25797.4	10000	41.9820	93.5050	-868	QEW	1.7	-1	5.7	0	1.2	1	0.290	-1	1.414	-1	4.877	-1	2127	45	4.8
25797.3	10000	41.9820	93.5043	-866	QEW	2.0	0	5.5	0	1.1	1	0.357	0	1.755	0	4.920	0	2127	39	4.8
25797.2	10000	41.9820	93.5035	-863	QEW	2.0	0	5.8	1	1.2	1	0.347	0	1.729	0	4.985	0	2146	49	4.8
25797.1	10000	41.9820	93.5028	-861	QEW	1.8	0	5.9	1	1.1	1	0.314	-1	1.653	-1	5.271	0	2125	42	4.8
25797.0	10000	41.9820	93.5020	-860	QEW	2.1	0	5.9	1	1.1	0	0.350	0	1.90[illegible]	0	5.442	0	2110	47	4.8
25796.9	10000	41.9820	93.5013	-859	QEW	2.3	1	6.0	1	1.1	0	0.382	0	2.15[illegible]	1	5.638	1	2104	44	4.8
25796.8	10000	41.9820	93.5005	-857	QEW	2.5	1	5.7	0	1.1	0	0.443	1	2.392	1	5.401	0	2087	44	4.8
25796.7	10000	41.9820	93.4998	-855	QEW	2.3	1	5.5	0	1.0	0	0.414	0	2.229	1	5.380	0	2076	44	4.8
25796.6	10000	41.9820	93.4990	-852	QEW	2.2	0	5.6	0	1.1	0	0.388	0	2.050	0	5.286	0	2091	53	4.8
25796.5	10000	41.9820	93.4983	-849	QEW	1.8	0	5.7	0	1.0	0	0.321	-1	1.782	0	5.554	1	2063	48	4.8
25796.4	10000	41.9820	93.4975	-847	QEW	1.7	-1	5.9	1	1.0	0	0.278	-1	1.635	-1	5.879	1	2053	47	4.8
25796.3	10000	41.9820	93.4968	-844	QEW	1.7	-1	5.5	0	1.0	0	0.314	-1	1.688	0	5.378	0	2047	40	4.8
25796.2	10000	41.9820	93.4961	-842	QEW	1.6	-1	5.4	0	1.0	0	0.296	-1	1.529	-1	5.164	0	2058	46	4.8
25796.1	10000	41.9820	93.4953	-841	QEW	1.6	-1	5.7	0	1.0	-1	0.273	-1	1.561	-1	5.713	1	2066	45	4.8
25796.0	10000	41.9820	93.4946	-840	QEW	1.6	-1	5.9	1	1.0	0	0.273	-1	1.591	-1	5.820	1	2072	50	4.8
25795.9	10000	41.9820	93.4938	-838	QEW	1.4	-1	5.7	0	1.0	0	0.252	-1	1.425	-1	5.658	1	2069	48	4.8
25795.8	10000	41.9820	93.4931	-836	QEW	1.9	0	5.4	0	1.0	0	0.348	0	1.808	0	5.200	0	2086	50	4.8
25795.7	10000	41.9820	93.4923	-834	QEW	2.0	0	4.8	-1	1.1	0	0.422	1	1.913	0	4.531	-1	2109	44	4.8
25795.6	10000	41.9820	93.4916	-832	QEW	2.1	0	4.9	-1	1.1	0	0.429	1	1.941	0	4.527	-1	2120	46	4.8
25795.5	10000	41.9820	93.4908	-830	QEW	2.3	1	4.6	-1	1.1	0	0.484	1	2.099	0	4.333	-1	2118	34	4.8
25795.4	10000	41.9820	93.4901	-828	QEW	2.4	1	4.3	-2	1.1	1	0.547	2	2.141	0	3.913	-2	2131	42	4.8
25795.3	10000	41.9819	93.4893	-826	QEW	2.3	1	4.3	-2	1.1	1	0.539	2	2.088	0	3.871	-2	2135	43	4.8
25795.2	10000	41.9819	93.4886	-824	QEW	2.5	1	4.3	-2	1.1	1	0.573	2	2.202	1	3.846	-2	2139	70	4.8
25795.1	10000	41.9819	93.4879	-823	QEW	2.4	1	4.6	-1	1.1	0	0.527	2	2.320	1	4.403	-1	2146	51	4.8
25795.0	10000	41.9819	93.4871	-821	QEW	2.4	1	4.8	-1	1.0	0	0.486	1	2.321	1	4.773	-1	2138	43	4.8
25794.9	10000	41.9819	93.4864	-819	QEW	2.5	1	5.3	0	1.0	0	0.477	1	2.463	1	5.161	0	2143	45	4.8
25794.8	10000	41.9819	93.4856	-817	QEW	2.4	1	5.6	0	1.1	0	0.436	1	2.320	1	5.319	0	2140	40	4.8
25794.7	10000	41.9819	93.4849	-815	QEW	2.0	0	5.8	1	1.1	0	0.335	0	1.809	0	5.405	0	2126	5[illegible]	4.8
25794.6	10000	41.9819	93.4841	-813	QEW	1.6	-1	6.1	1	1.1	0	0.269	-1	1.519	-1	5.643	1	2113	42	4.8
25794.5	10000	41.9819	93.4834	-811	QEW	1.9	0	6.1	1	1.1	0	0.319	-1	1.828	0	5.733	1	2119	52	4.8
25794.4	10000	41.9819	93.4826	-809	QEW	2.0	0	6.3	1	1.1	0	0.323	-1	1.816	0	5.620	1	2131	51	4.8
25794.3	10000	41.9819	93.4819	-807	QEW	2.2	1	6.3	1	1.2	0	0.359	0	1.940	0	5.403	0	2141	39	4.8
25794.2	10000	41.9819	93.4811	-805	QEW	2.0	0	5.8	1	1.1	0	0.335	0	1.789	0	5.334	0	2131	42	4.8
25794.1	10000	41.9819	93.4804	-804	QEW	1.9	0	5.9	1	1.1	0	0.316	-1	1.665	-1	5.261	0	2125	39	4.8
25794.0	10000	41.9819	93.4796	-802	QEW	2.0	1	5.6	0	1.1	0	0.360	0	1.915	0	5.325	0	2129	61	4.8
25793.9	10000	41.9819	93.4789	-800	QEW	2.2	1	5.4	0	1.0	0	0.406	0	2.126	0	5.234	0	2132	42	4.8
25793.8	10000	41.9819	93.4782	-798	QEW	1.7	-1	5.4	0	1.0	0	0.315	-1	1.635	-1	5.184	0	2126	51	4.8
25793.7	10000	41.9819	93.4774	-795	QEW	1.8	-1	5.0	-1	1.0	-1	0.352	0	1.805	0	5.134	0	2091	42	4.8
25793.6	10000	41.9819	93.4767	-795	QEW	1.7	-1	5.0	-1	1.0	-1	0.336	0	1.719	0	5.116	0	2079	51	4.8
25793.5	10000	41.9819	93.4759	-793	QEW	2.0	0	4.8	-1	1.0	-1	0.417	0	1.992	0	4.777	-1	2083	35	4.8
25793.4	10000	41.9819	93.4752	-792	QEW	2.1	0	4.7	-1	0.9	-1	0.454	1	2.257	1	4.970	0	2101	47	4.8
25793.3	10000	41.9819	93.4744	-790	QEW	2.2	1	4.7	-1	1.0	-1	0.463	1	2.212	1	4.773	-1	2107	55	4.8
25793.2	10000	41.9819	93.4737	-788	QEW	2.4	1	4.4	-1	1.0	-1	0.547	2	2.436	1	4.456	-1	2113	37	4.8
25793.1	10000	41.9819	93.4729	-785	QEW	2.8	2	4.4	-1	1.0	0	0.635	2	2.778	2	4.375	-1	2118	48	4.8
25793.0	10000	41.9818	93.4722	-783	QEW	2.8	2	4.4	-2	1.0	0	0.638	3	2.726	2	4.272	-1	2133	39	4.8
25792.9	10000	41.9818	93.4715	-781	QEW	2.6	2	4.3	-2	1.0	0	0.656	3	2.703	2	4.118	-2	2137	49	4.8
25792.8	10000	41.9818	93.4707	-779	QEW	2.5	1	4.6	-1	1.1	0	0.564	2	2.399	1	4.255	-2	2152	39	4.8
25792.7	10000	41.9818	93.4700	-777	QEW	2.5	1	4.5	-1	1.1	0	0.562	2	2.279	1	4.055	-2	2138	47	4.9
25792.6	10000	41.9818	93.4692	-775	QEW	2.7	2	4.4	-1	1.1	1	0.602	2	2.397	1	3.983	-2	2127	38	4.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25792.5	10000	41.9818	93.4685	-773	QW	2.6	2	4.6	-1	1.1	1	0.572	2	2.352	1	4.114	-2	2127	45	4.9
25792.4	10000	41.9818	93.4677	-772	QW	2.7	2	4.6	-1	1.1	0	0.595	2	2.563	1	4.308	-1	2125	39	4.9
25792.3	10000	41.9818	93.4670	-770	QW	2.7	2	5.0	-1	1.0	0	0.546	2	2.589	1	4.744	-1	2130	51	4.9
25792.2	10000	41.9818	93.4662	-767	QW	2.9	2	5.1	-1	1.0	0	0.571	2	2.862	2	5.012	0	2142	45	4.9
25792.1	10000	41.9818	93.4655	-766	QW	2.9	2	5.2	0	1.0	-1	0.569	2	2.930	2	5.153	0	2135	37	4.9
25792.0	10000	41.9818	93.4647	-764	QW	2.8	2	5.4	0	1.0	0	0.518	2	2.740	2	5.292	0	2143	48	4.9
25791.9	10000	41.9818	93.4640	-763	QW	2.7	2	5.7	0	1.0	-1	0.480	1	2.749	2	5.731	1	2147	48	4.9
25791.8	10000	41.9818	93.4632	-761	QW	2.3	1	5.9	1	1.0	-1	0.391	0	2.358	1	6.038	1	2149	43	4.9
25791.7	10000	41.9818	93.4625	-759	QW	2.0	0	6.1	1	1.0	0	0.333	0	2.016	0	6.059	1	2144	49	4.9
25791.6	10000	41.9818	93.4617	-758	QW	2.1	0	6.2	1	1.0	0	0.345	0	2.074	0	6.009	1	2144	50	4.9
25791.5	10000	41.9818	93.4610	-755	QW	2.0	0	6.0	1	1.0	-1	0.337	0	2.046	0	6.073	1	2118	51	4.9
25791.4	10000	41.9818	93.4603	-752	QW	2.1	0	6.1	1	1.0	-1	0.345	0	2.162	1	6.257	2	2103	48	4.9
25791.3	10000	41.9818	93.4595	-750	QW	2.0	0	5.8	0	0.9	-1	0.351	0	2.175	1	6.205	2	2089	46	4.9
25791.2	10000	41.9818	93.4588	-744	QW	2.1	0	5.4	0	0.9	-1	0.393	0	2.273	1	5.783	1	2092	47	4.9
25791.1	10000	41.9818	93.4580	-739	QW	2.4	1	4.8	-1	0.9	-2	0.494	1	2.669	2	5.406	0	2078	53	4.9
25791.0	10000	41.9818	93.4573	-741	QW	2.3	1	4.7	-1	0.9	-2	0.492	1	2.587	1	5.253	0	2077	46	4.9
25790.9	10000	41.9818	93.4566	-743	QW	2.0	0	4.5	-1	1.0	-1	0.449	1	2.129	0	4.743	-1	2074	38	4.9
25790.8	10000	41.9818	93.4558	-742	QW	2.0	0	4.8	-1	0.9	-1	0.417	0	2.118	0	5.079	0	2088	33	4.9
25790.7	10000	41.9818	93.4551	-740	QW	2.1	0	4.6	-1	1.0	-1	0.458	1	2.183	1	4.771	-1	2107	51	4.9
25790.6	10000	41.9818	93.4544	-739	QW	2.2	1	4.7	-1	0.9	-1	0.474	1	2.371	1	5.003	0	2123	45	4.9
25790.5	10000	41.9817	93.4536	-737	QW	2.2	1	5.0	-1	1.0	-1	0.446	1	2.300	1	5.161	0	2131	40	4.9
25790.4	10000	41.9817	93.4529	-735	QW	2.3	1	5.3	0	1.0	-1	0.443	1	2.343	1	5.286	0	2157	41	4.9
25790.3	10000	41.9817	93.4522	-733	QW	2.6	2	5.2	0	1.0	-1	0.502	1	2.726	2	5.430	0	2157	48	4.9
25790.2	10000	41.9817	93.4514	-732	QW	2.5	2	5.2	0	0.9	-1	0.479	1	2.653	2	5.540	1	2166	50	4.9
25790.1	10000	41.9817	93.4507	-731	QW	2.6	2	5.2	0	1.0	0	0.503	1	2.624	1	5.219	0	2180	37	4.9
25790.0	10000	41.9817	93.4500	-729	QW	2.5	1	5.3	0	1.0	-1	0.474	1	2.503	1	5.275	0	2167	46	4.9
25789.9	10000	41.9817	93.4492	-727	QW	2.4	1	5.4	0	1.0	-1	0.448	1	2.357	1	5.259	0	2150	45	4.9
25789.8	10000	41.9817	93.4485	-725	QW	2.2	1	5.3	0	1.0	-1	0.415	1	2.102	1	5.060	0	2139	53	4.9
25789.7	10000	41.9817	93.4478	-722	QW	1.9	1	5.5	0	1.1	-1	0.336	0	1.754	0	5.223	0	2118	57	4.9
25789.6	10000	41.9817	93.4471	-720	QW	1.6	0	5.6	0	1.1	-1	0.285	0	1.445	0	5.075	0	2112	48	4.9
25789.5	10000	41.9817	93.4463	-719	QW	1.8	1	5.6	0	1.0	-1	0.316	0	1.688	0	5.341	0	2096	34	4.9
25789.4	10000	41.9817	93.4456	-717	QW	1.6	0	5.2	0	1.0	-1	0.299	0	1.561	0	5.220	0	2066	41	4.9
25789.3	10000	41.9817	93.4448	-716	QW	1.8	1	5.5	0	1.0	-1	0.325	0	1.840	0	5.656	0	2077	50	4.9
25789.2	10000	41.9817	93.4441	-715	QW	2.0	1	5.4	0	1.0	-1	0.379	0	2.073	0	5.466	0	2093	49	4.9
25789.1	10000	41.9817	93.4434	-713	QW	2.1	1	5.6	0	1.0	-1	0.371	0	2.130	0	5.740	1	2106	52	4.9
25789.0	10000	41.9817	93.4426	-712	QW	2.4	2	5.4	0	0.9	-1	0.451	0	2.630	0	5.837	1	2121	45	4.9
25788.9	10000	41.9817	93.4419	-710	QW	2.8	2	5.3	0	0.9	-1	0.538	0	3.117	0	5.794	1	2143	49	4.9
25788.8	10000	41.9817	93.4412	-709	QW	2.7	2	5.5	0	1.0	-1	0.550	0	2.805	0	5.098	1	2149	48	5.0
25788.7	10000	41.9817	93.4404	-707	QW	2.9	2	5.5	0	1.0	0	0.544	0	2.907	0	5.340	0	2196	55	5.0
25788.6	10000	41.9817	93.4397	-705	QW	2.6	2	4.9	-1	1.1	0	0.541	0	2.484	-1	4.588	-1	2200	43	5.0
25788.5	10000	41.9817	93.4390	-704	QW	2.6	2	4.9	-1	1.1	0	0.539	0	2.452	-1	4.549	-1	2217	39	5.0
25788.4	10000	41.9817	93.4382	-703	QW	2.8	2	4.9	-1	1.1	0	0.575	0	2.624	-1	4.564	-1	2222	35	5.0
25788.3	10000	41.9817	93.4375	-702	QW	2.5	2	4.8	-1	1.1	0	0.528	0	2.205	-2	4.178	-2	2231	49	5.0
25788.2	10000	41.9817	93.4368	-700	QW	2.2	1	5.0	-1	1.2	0	0.444	0	1.838	-2	4.143	-2	2233	51	5.0
25788.1	10000	41.9817	93.4361	-698	QW	2.5	2	5.2	0	1.2	0	0.482	0	2.060	-1	4.271	-2	2254	52	4.9
25788.0	10000	41.9817	93.4353	-697	QW	2.6	2	5.2	0	1.2	0	0.505	0	2.072	-1	4.103	-2	2252	47	4.9
25787.9	10000	41.9817	93.4346	-696	QW	2.6	2	5.6	0	1.2	0	0.469	0	2.127	-1	4.532	-1	2245	37	4.9
25787.8	10000	41.9817	93.4339	-694	QW	2.6	2	5.4	0	1.2	0	0.476	0	2.049	-1	4.302	-1	2220	40	4.9
25787.7	10000	41.9816	93.4331	-693	QW	2.5	2	5.1	0	1.2	0	0.494	0	2.058	-2	4.165	-2	2216	45	4.9
25787.6	10000	41.9816	93.4324	-691	QW	2.7	2	5.2	0	1.2	0	0.521	0	2.352	-1	4.517	-1	2195	39	4.9
25787.5	10000	41.9816	93.4317	-689	QW	2.6	2	5.1	-1	1.1	0	0.517	0	2.360	-1	4.564	-1	2188	46	4.9
25787.4	10000	41.9816	93.4309	-688	QW	2.4	1	5.3	0	1.1	0	0.457	1	2.250	1	4.918	0	2166	50	4.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25787.3	10000	41.9816	93.4302	-687	QW	2.0	0	5.3	0	1.0	0	0.373	0	1.919	0	5.148	0	2157	45	4.9
25787.2	10000	41.9816	93.4295	-686	QW	2.0	0	5.4	0	1.1	0	0.378	0	1.908	0	5.048	0	2156	42	4.9
25787.1	10000	41.9816	93.4287	-685	QW	1.8	0	5.7	0	1.1	0	0.318	-1	1.723	0	5.416	0	2158	48	4.9
25787.0	10000	41.9816	93.4280	-683	QW	1.8	0	5.8	1	1.1	0	0.310	-1	1.660	-1	5.352	0	2163	40	4.9
25786.9	10000	41.9816	93.4273	-682	QW	1.8	0	5.8	0	1.1	0	0.318	-1	1.683	0	5.298	0	2174	46	4.9
25786.8	10000	41.9816	93.4265	-681	QW	1.9	0	6.1	1	1.1	0	0.313	-1	1.741	0	5.567	1	2173	44	4.9
25786.7	10000	41.9816	93.4258	-679	QW	1.9	0	6.0	1	1.1	0	0.322	-1	1.765	0	5.482	0	2177	46	4.9
25786.6	10000	41.9816	93.4251	-678	QW	2.0	0	5.9	1	1.1	1	0.331	0	1.732	0	5.231	0	2167	47	4.9
25786.5	10000	41.9816	93.4243	-676	QW	1.9	0	6.0	1	1.1	1	0.325	0	1.725	0	5.309	0	2162	43	4.9
25786.4	10000	41.9816	93.4236	-675	QW	1.9	0	5.9	1	1.1	1	0.331	0	1.718	0	5.195	0	2152	50	4.9
25786.3	10000	41.9816	93.4229	-673	QW	1.9	0	5.7	0	1.1	1	0.339	0	1.715	0	5.052	0	2135	37	4.9
25786.2	10000	41.9816	93.4221	-672	QW	1.8	0	5.4	0	1.1	1	0.332	0	1.585	-1	4.780	-1	2116	46	4.9
25786.1	10000	41.9816	93.4214	-671	QW	1.9	0	5.3	0	1.2	1	0.357	0	1.599	-1	4.484	-1	2117	48	4.9
25786.0	10000	41.9816	93.4207	-669	QW	1.5	-1	5.1	0	1.2	1	0.298	-1	1.299	-1	4.363	-1	2115	46	4.9
25785.9	10000	41.9816	93.4199	-668	QW	1.8	0	5.5	0	1.1	1	0.338	0	1.609	-1	4.757	-1	2114	40	4.9
25785.8	10000	41.9816	93.4192	-667	QW	1.9	0	5.0	-1	1.1	1	0.383	0	1.726	0	4.504	-1	2104	46	4.9
25785.7	10000	41.9816	93.4185	-666	QW	2.0	0	5.1	-1	1.2	1	0.389	0	1.714	0	4.406	-1	2119	51	4.9
25785.6	10000	41.9816	93.4177	-665	QW	1.8	0	5.4	0	1.2	1	0.341	0	1.555	-1	4.565	-1	2131	34	4.9
25785.5	10000	41.9816	93.4170	-664	QW	1.9	0	5.5	0	1.2	1	0.346	0	1.632	-1	4.713	-1	2125	46	4.9
25785.4	10000	41.9816	93.4163	-662	QW	1.8	0	5.7	0	1.1	0	0.323	-1	1.669	0	5.160	0	2117	50	4.9
25785.3	10000	41.9816	93.4155	-661	QW	2.3	1	5.8	0	1.1	0	0.401	0	2.110	0	5.258	0	2126	58	4.9
25785.2	10000	41.9816	93.4148	-661	QW	2.3	1	5.5	0	1.1	0	0.415	0	2.121	0	5.116	0	2118	47	4.9
25785.1	10000	41.9815	93.4141	-659	QW	2.1	0	5.5	0	1.1	0	0.385	0	1.977	0	5.142	0	2131	47	4.9
25785.0	10000	41.9815	93.4133	-658	QW	2.4	1	5.5	0	1.0	0	0.437	1	2.345	1	5.361	0	2130	58	4.9
25784.9	10000	41.9815	93.4126	-657	QW	2.8	2	5.1	-1	1.0	0	0.544	2	2.688	2	4.941	0	2136	47	4.9
25784.8	10000	41.9815	93.4119	-656	QW	2.9	2	5.0	-1	1.0	0	0.584	2	2.823	2	4.837	-1	2161	39	5.0
25784.7	10000	41.9815	93.4111	-655	QW	3.0	2	5.0	-1	1.0	0	0.604	2	3.013	2	4.989	0	2178	54	5.0
25784.6	10000	41.9815	93.4104	-653	QW	2.9	2	4.9	-1	1.0	0	0.607	2	2.991	2	4.929	0	2171	42	5.0
25784.5	10000	41.9815	93.4097	-652	QW	3.0	2	5.3	-1	1.0	0	0.545	2	2.842	2	5.218	0	2174	40	5.0
25784.4	10000	41.9815	93.4090	-651	QW	3.0	2	5.4	-1	1.0	0	0.555	2	3.049	2	5.496	0	2175	57	5.0
25784.3	10000	41.9815	93.4082	-649	QW	2.8	2	5.7	-1	1.0	0	0.496	2	2.921	2	5.892	0	2167	44	5.0
25784.2	10000	41.9815	93.4075	-648	QW	2.9	2	6.2	-1	0.9	-1	0.466	2	3.097	2	6.643	0	2160	46	5.0
25784.1	10000	41.9815	93.4068	-647	QW	2.7	2	6.5	-2	0.9	-1	0.411	2	2.968	2	7.224	0	2153	42	5.0
25784.0	10000	41.9815	93.4060	-646	QW	2.7	2	6.1	-1	0.9	-1	0.439	2	2.929	2	6.674	0	2149	48	5.0
25783.9	10000	41.9815	93.4053	-645	QW	2.6	2	5.9	-1	0.9	-1	0.442	2	2.812	2	6.367	0	2146	42	5.0
25783.8	10000	41.9815	93.4046	-644	QW	2.6	2	5.4	-1	1.0	-1	0.489	2	2.686	2	5.494	0	2152	36	5.0
25783.7	10000	41.9815	93.4038	-641	QW	2.7	2	5.3	0	1.0	-1	0.509	2	2.665	2	5.234	0	2133	48	5.0
25783.6	10000	41.9815	93.4031	-637	QW	2.5	2	4.9	-1	1.0	0	0.509	2	2.489	2	4.896	0	2122	52	5.0
25783.5	10000	41.9815	93.4024	-637	QW	2.1	2	5.1	-1	1.0	0	0.417	2	2.106	2	5.055	0	2111	40	5.0
25783.4	10000	41.9815	93.4016	-638	QW	2.2	2	4.9	-1	1.0	0	0.453	2	2.138	2	4.715	-1	2122	57	5.0
25783.3	10000	41.9815	93.4009	-637	QW	2.0	2	4.9	-1	1.1	0	0.401	2	1.880	2	4.690	-1	2111	38	5.0
25783.2	10000	41.9815	93.4002	-637	QW	2.0	2	5.6	-1	1.0	-1	0.359	2	1.996	2	5.556	-1	2113	43	5.0
25783.1	10000	41.9815	93.3994	-636	QW	2.1	2	6.1	-1	1.0	-1	0.341	2	2.119	2	6.219	-1	2125	54	5.0
25783.0	10000	41.9815	93.3987	-635	QW	2.0	2	6.3	-1	1.0	-1	0.315	2	2.042	2	6.477	-1	2141	46	5.0
25782.9	10000	41.9815	93.3980	-633	QW	2.4	2	6.6	-1	1.0	-1	0.360	2	2.498	2	6.935	-1	2168	37	5.0
25782.8	10000	41.9815	93.3972	-633	QW	2.2	2	6.3	-1	1.0	-1	0.348	2	2.264	2	6.512	-1	2173	62	5.0
25782.7	10000	41.9815	93.3965	-632	QW	2.0	2	6.4	-1	1.0	-1	0.315	2	2.056	2	6.531	-1	2157	50	5.0
25782.6	10000	41.9815	93.3958	-630	QW	2.2	2	6.5	-1	1.0	-1	0.343	2	2.184	2	6.365	-1	2177	52	5.0
25782.5	10000	41.9814	93.3950	-629	QW	2.4	2	5.8	-1	1.0	-1	0.393	2	2.255	2	5.735	-1	2193	46	5.0
25782.4	10000	41.9814	93.3943	-628	QW	2.5	2	5.5	-1	1.1	-1	0.438	2	2.395	2	5.472	-1	2192	35	5.1
25782.3	10000	41.9814	93.3936	-627	QW	2.8	2	5.8	-1	1.1	-1	0.492	2	2.627	2	5.343	-1	2204	49	5.1
25782.2	10000	41.9814	93.3928	-626	QW	2.6	2	5.4	-1	1.1	-1	0.484	2	2.435	2	5.028	-1	2205	54	5.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25782.1	10000	41.9814	93.3921	-625	QW	3.2	3	5.3	0	1.0	0	0.595	2	3.058	2	5.137	0	2212	37	5.1
25782.0	10000	41.9814	93.3914	-624	QW	3.4	3	5.3	0	1.0	0	0.616	3	3.269	3	5.304	0	2239	38	5.1
25781.9	10000	41.9814	93.3906	-625	QW	3.4	3	5.4	0	1.0	-1	0.631	3	3.530	3	5.595	1	2249	44	5.1
25781.8	10000	41.9814	93.3899	-624	QAL	3.2	1	5.1	-1	1.0	-1	0.631	3	3.301	2	5.234	-1	2249	49	5.1
25781.7	10000	41.9814	93.3892	-623	QAL	2.9	1	5.0	-2	1.0	0	0.577	2	2.855	1	4.944	-2	2255	44	5.1
25781.6	10000	41.9814	93.3884	-620	QAL	2.5	0	4.9	-2	1.0	0	0.522	2	2.431	0	4.658	-2	2259	43	5.1
25781.5	10000	41.9814	93.3877	-618	QAL	2.5	0	5.0	-2	1.1	0	0.495	1	2.276	0	4.597	-2	2283	48	5.1
25781.4	10000	41.9814	93.3870	-617	QAL	2.3	0	5.3	-1	1.1	0	0.428	1	2.051	0	4.794	-2	2296	57	5.2
25781.3	10000	41.9814	93.3862	-617	QAL	2.4	0	5.3	-1	1.1	0	0.454	1	2.117	0	4.668	-2	2300	45	5.2
25781.2	10000	41.9814	93.3855	-617	QAL	2.1	-1	5.0	-1	1.2	1	0.423	0	1.850	-1	4.371	-2	2296	51	5.2
25781.1	10000	41.9814	93.3848	-617	QW	2.1	0	5.3	0	1.2	1	0.399	0	1.820	0	4.563	-1	2299	44	5.2
25781.0	10000	41.9814	93.3840	-615	QW	2.3	1	5.5	0	1.1	1	0.413	0	1.992	0	4.817	-1	2292	34	5.2
25780.9	10000	41.9814	93.3833	-614	QW	2.5	1	5.5	0	1.1	1	0.449	1	2.207	1	4.916	0	2297	57	5.2
25780.8	10000	41.9814	93.3826	-614	QW	2.8	2	5.4	0	1.1	1	0.506	1	2.477	1	4.895	0	2290	30	5.2
25780.7	10000	41.9814	93.3819	-613	QW	2.7	2	5.2	0	1.1	0	0.510	1	2.500	1	4.900	0	2286	42	5.2
25780.6	10000	41.9814	93.3811	-612	QW	2.8	2	5.2	0	1.0	0	0.534	2	2.715	2	5.085	0	2275	52	5.2
25780.5	10000	41.9814	93.3804	-611	QW	2.9	2	5.0	-1	1.0	-1	0.589	2	3.057	2	5.187	0	2257	45	5.2
25780.4	10000	41.9814	93.3797	-610	QW	3.1	2	4.7	-1	0.9	-1	0.650	3	3.408	3	5.242	0	2239	46	5.3
25780.3	10000	41.9814	93.3789	-609	QW	2.8	2	4.5	-1	0.9	-1	0.618	3	2.936	2	4.754	-1	2234	43	5.3
25780.2	10000	41.9814	93.3782	-608	QW	2.2	1	4.6	-1	1.0	-1	0.484	1	2.350	1	4.852	-1	2228	40	5.3
25780.1	10000	41.9814	93.3775	-607	QW	2.1	0	4.4	-2	1.0	-1	0.485	1	2.166	1	4.467	-1	2230	58	5.3
25780.0	10000	41.9813	93.3767	-606	QW	2.2	1	4.6	-1	1.0	0	0.490	1	2.152	1	4.392	-1	2247	52	5.3
25779.9	10000	41.9813	93.3760	-605	QW	2.0	0	4.4	-2	1.1	0	0.448	1	1.802	0	4.021	-2	2253	44	5.3
25779.8	10000	41.9813	93.3753	-604	QW	1.9	0	5.0	-1	1.2	1	0.368	0	1.604	-1	4.360	-1	2256	40	5.3
25779.7	10000	41.9813	93.3745	-604	QW	1.7	-1	5.6	0	1.2	1	0.298	-1	1.396	-1	4.679	-1	2268	45	5.3
25779.6	10000	41.9813	93.3738	-603	QW	1.9	0	5.7	1	1.1	1	0.328	0	1.643	-1	5.007	0	2299	49	5.3
25779.5	10000	41.9813	93.3731	-602	QW	2.3	1	5.6	1	1.1	1	0.405	0	2.025	0	4.996	0	2309	54	5.3
25779.4	10000	41.9813	93.3723	-601	QW	2.1	1	5.9	1	1.1	1	0.353	0	1.907	0	5.398	0	2298	51	5.4
25779.3	10000	41.9813	93.3716	-601	QW	2.0	0	5.7	1	1.1	1	0.350	0	1.840	0	5.259	0	2301	30	5.4
25779.2	10000	41.9813	93.3709	-600	QW	2.1	1	6.2	1	1.1	1	0.343	0	1.958	1	5.702	1	2317	39	5.4
25779.1	10000	41.9813	93.3701	-599	QW	2.1	1	6.0	1	1.1	1	0.353	0	1.969	1	5.581	1	2331	44	5.4
25779.0	10000	41.9813	93.3694	-598	QW	2.0	1	5.8	1	1.1	1	0.343	0	1.888	1	5.509	1	2349	55	5.4
25778.9	10000	41.9813	93.3687	-598	QW	1.9	0	6.0	1	1.1	1	0.313	-1	1.718	0	5.497	1	2338	52	5.4
25778.8	10000	41.9813	93.3679	-596	QW	1.8	0	6.0	1	1.1	1	0.310	-1	1.731	1	5.581	1	2334	56	5.4
25778.7	10000	41.9813	93.3672	-595	QW	1.7	-1	5.9	1	1.1	1	0.290	-1	1.603	1	5.533	1	2321	57	5.4
25778.6	10000	41.9813	93.3665	-594	QW	2.0	0	6.1	1	1.1	1	0.323	-1	1.856	1	5.741	1	2304	54	5.4
25778.5	10000	41.9813	93.3657	-593	QW	2.1	0	5.6	1	1.1	1	0.378	0	1.960	1	5.191	0	2287	38	5.4
25778.4	10000	41.9813	93.3650	-592	QW	1.9	0	5.7	1	1.1	1	0.338	0	1.770	1	5.238	0	2270	61	5.4
25778.3	10000	41.9813	93.3643	-591	QW	1.8	0	5.3	1	1.1	1	0.348	0	1.619	-1	4.659	-1	2256	47	5.5
25778.2	10000	41.9813	93.3635	-590	QW	1.8	0	5.2	1	1.1	1	0.352	0	1.662	-1	4.718	-1	2240	44	5.5
25778.1	10000	41.9813	93.3628	-590	QW	1.9	0	5.5	1	1.1	1	0.352	0	1.701	-1	4.835	-1	2228	42	5.5
25778.0	10000	41.9813	93.3621	-589	QW	2.1	0	5.3	1	1.2	1	0.399	0	1.835	-1	4.597	-1	2237	41	5.5
25777.9	10000	41.9813	93.3613	-588	QW	2.0	0	5.0	-1	1.2	2	0.395	0	1.625	-1	4.109	-2	2243	58	5.5
25777.8	10000	41.9813	93.3606	-588	QW	2.0	0	4.9	-1	1.2	2	0.405	0	1.624	-1	4.008	-2	2243	60	5.5
25777.7	10000	41.9813	93.3599	-587	QW	2.3	1	5.1	0	1.2	2	0.458	1	1.941	0	4.237	-2	2254	54	5.5
25777.6	10000	41.9813	93.3591	-586	QW	2.7	2	5.3	1	1.2	2	0.517	2	2.327	1	4.506	-1	2253	54	5.5
25777.5	10000	41.9813	93.3584	-585	QW	2.9	2	5.3	1	1.2	2	0.548	2	2.414	1	4.405	-1	2252	43	5.5
25777.4	10000	41.9812	93.3577	-585	QW	2.8	2	5.3	1	1.2	2	0.532	2	2.401	1	4.510	-1	2240	47	5.5
25777.3	10000	41.9812	93.3569	-583	QW	2.6	1	5.7	1	1.1	1	0.455	1	2.247	0	4.934	0	2222	38	5.5
25777.2	10000	41.9812	93.3562	-583	QW	2.3	1	6.2	1	1.1	1	0.366	0	2.037	0	5.560	1	2223	47	5.5
25777.1	10000	41.9812	93.3555	-582	QW	2.1	0	6.2	1	1.1	1	0.343	0	1.929	0	5.622	1	2216	33	5.5
25777.0	10000	41.9812	93.3547	-582	QW	1.7	-1	6.0	1	1.1	1	0.281	-1	1.487	-1	5.284	0	2202	49	5.5

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25776.9	10000	41.9812	93.3540	-581	QW	1.6	-1	5.9	1	1.1	1	0.267	-1	1.386	-1	5.199	0	2182	56	5.5
25776.8	10000	41.9812	93.3533	-581	QW	1.4	-1	6.1	1	1.1	1	0.230	-1	1.260	-1	5.468	0	2171	58	5.6
25776.7	10000	41.9812	93.3525	-580	QW	1.1	-2	5.9	1	1.1	1	0.184	-2	0.975	-2	5.305	0	2149	43	5.6
25776.6	10000	41.9812	93.3518	-579	QW	1.5	-1	5.6	0	1.1	1	0.272	-1	1.371	-1	5.038	0	2145	48	5.6
25776.5	10000	41.9812	93.3511	-580	QW	1.7	-1	4.9	-1	1.1	0	0.346	0	1.551	-1	4.487	-1	2123	43	5.6
25776.4	10000	41.9812	93.3503	-579	QW	1.9	0	5.1	-1	1.0	0	0.375	0	1.829	0	4.884	0	2112	56	5.6
25776.3	10000	41.9812	93.3496	-578	QW	2.1	0	4.8	-1	1.0	0	0.438	1	2.009	0	4.590	-1	2110	41	5.6
25776.2	10000	41.9812	93.3489	-578	QW	2.2	1	5.0	-1	1.0	-1	0.438	1	2.221	1	5.069	0	2121	43	5.6
25776.1	10000	41.9812	93.3481	-577	QW	2.5	1	4.8	-1	1.0	-1	0.509	1	2.487	1	4.889	0	2144	40	5.6
25776.0	10000	41.9812	93.3474	-577	QW	2.6	2	5.0	-1	1.0	0	0.521	2	2.501	1	4.804	-1	2173	39	5.6
25775.9	10000	41.9812	93.3467	-576	QW	2.4	1	4.9	-1	1.0	-1	0.487	1	2.452	1	5.035	0	2158	38	5.6
25775.8	10000	41.9812	93.3459	-575	QW	2.4	1	4.9	-1	0.9	-2	0.492	1	2.762	2	5.612	1	2106	43	5.6
25775.7	10000	41.9812	93.3452	-574	QW	2.2	1	4.8	-1	0.8	-2	0.461	1	2.684	2	5.818	1	2062	49	5.6
25775.6	10000	41.9812	93.3444	-573	QW	2.3	1	4.6	-1	0.8	-3	0.508	1	2.958	2	5.821	1	2030	57	5.6
25775.5	10000	41.9812	93.3436	-573	QW	2.4	1	4.3	-2	0.8	-3	0.549	2	3.067	2	5.583	1	2016	47	5.6
25775.4	10000	41.9812	93.3429	-573	QW	2.0	0	4.4	-2	0.8	-3	0.461	1	2.643	2	5.729	1	1987	60	5.6
25775.3	10000	41.9812	93.3421	-572	QW	2.3	1	4.4	-1	0.7	-3	0.520	2	3.191	3	6.141	2	1983	51	5.6
25775.2	10000	41.9812	93.3414	-572	QW	2.4	1	4.3	-2	0.8	-3	0.565	2	3.077	2	5.446	0	2004	59	5.6
25775.1	10000	41.9812	93.3406	-572	QW	2.6	1	5.0	-1	0.8	-2	0.521	2	3.087	2	5.930	1	2054	42	5.6
25775.0	10000	41.9812	93.3398	-571	QW	2.5	1	5.1	0	0.9	-2	0.496	1	2.840	2	5.731	1	2092	49	5.6
25774.9	10000	41.9812	93.3391	-571	QW	2.7	2	5.3	0	0.9	-2	0.510	1	2.992	2	5.868	1	2128	48	5.6
25774.8	10000	41.9812	93.3383	-571	QW	2.5	1	5.3	0	0.9	-1	0.480	1	2.801	2	5.831	1	2124	51	5.6
25774.7	10000	41.9813	93.3375	-570	QW	2.6	2	5.0	-1	0.9	-2	0.522	2	2.941	2	5.630	1	2140	46	5.6
25774.6	10000	41.9813	93.3368	-570	QW	2.4	1	4.8	-1	0.9	-2	0.504	1	2.837	2	5.629	1	2140	64	5.6
25774.5	10000	41.9813	93.3360	-570	QW	2.2	1	5.2	-1	0.9	-2	0.425	1	2.542	1	5.978	1	2157	57	5.6
25774.4	10000	41.9813	93.3353	-570	QW	1.9	0	4.8	-1	0.9	-1	0.401	1	2.074	1	5.167	0	2155	37	5.6
25774.3	10000	41.9813	93.3345	-569	QW	2.1	0	5.0	-1	0.9	-1	0.427	1	2.276	1	5.327	0	2176	41	5.6
25774.2	10000	41.9813	93.3337	-569	QW	1.8	0	5.4	-1	0.9	-1	0.332	0	1.923	1	5.788	1	2188	54	5.6
25774.1	10000	41.9813	93.3330	-568	QW	1.5	-1	5.5	-1	1.0	-1	0.267	-1	1.482	-1	5.544	1	2206	48	5.6
25774.0	10000	41.9813	93.3322	-568	QW	1.3	-2	5.9	0	1.0	0	0.222	-2	1.284	-1	5.788	1	2195	47	5.6
25773.9	10000	41.9813	93.3315	-568	QW	1.2	-2	6.3	0	1.1	0	0.195	-2	1.156	-2	5.915	1	2202	35	5.6
25773.8	10000	41.9813	93.3307	-568	QW	1.2	-2	6.4	0	1.1	0	0.196	-2	1.185	-2	6.053	1	2186	41	5.6
25773.7	10000	41.9813	93.3299	-568	QW	1.5	-1	6.9	1	1.1	0	0.215	-2	1.385	-1	6.443	2	2204	43	5.6
25773.6	10000	41.9813	93.3292	-568	QW	1.3	-2	6.7	1	1.1	0	0.199	-2	1.275	-1	6.412	2	2193	53	5.6
25773.5	10000	41.9813	93.3284	-568	QW	1.6	-1	6.4	1	1.1	0	0.242	-1	1.473	-1	6.080	1	2184	43	5.6
25773.4	10000	41.9813	93.3276	-567	QW	1.8	0	6.5	1	1.1	0	0.275	-1	1.782	0	6.478	2	2174	44	5.6
25773.3	10000	41.9813	93.3269	-567	QW	2.1	0	6.3	1	1.1	0	0.333	0	2.206	1	6.622	2	2173	41	5.6
25773.2	10000	41.9813	93.3261	-567	QW	2.2	0	6.2	1	1.1	0	0.360	0	2.352	1	6.530	2	2199	46	5.6
25773.1	10000	41.9813	93.3253	-567	QW	2.2	0	6.2	1	1.0	0	0.350	0	2.308	1	6.587	2	2208	60	5.6
25773.0	10000	41.9813	93.3246	-567	QW	1.9	-1	5.7	0	0.9	-1	0.339	0	2.036	1	6.012	1	2199	43	5.6
25772.9	10000	41.9813	93.3238	-567	QW	1.6	-1	5.6	0	1.0	-1	0.278	-1	1.582	-1	5.695	1	2184	57	5.6
25772.8	10000	41.9814	93.3231	-566	QW	1.4	-1	6.2	1	1.0	-1	0.230	-1	1.456	-1	6.317	2	2179	47	5.6
25772.7	10000	41.9814	93.3223	-566	QW	1.5	-1	6.3	1	1.0	-1	0.235	-1	1.463	-1	6.216	2	2199	49	5.6
25772.6	10000	41.9814	93.3215	-566	QW	1.2	-2	6.2	1	1.1	-2	0.188	-2	1.041	-2	5.553	1	2219	39	5.6
25772.5	10000	41.9814	93.3208	-566	QW	1.0	-2	6.1	1	1.1	-2	0.164	-2	0.888	-2	5.427	1	2186	49	5.6
25772.4	10000	41.9814	93.3200	-566	QW	1.1	-2	6.2	1	1.1	-2	0.174	-2	0.924	-2	5.305	0	2189	43	5.6
25772.3	10000	41.9814	93.3193	-566	QW	1.1	-2	6.2	1	1.1	-2	0.170	-2	0.924	-2	5.437	0	2186	32	5.6
25772.2	10000	41.9814	93.3185	-565	QW	1.2	-2	6.6	1	1.2	-2	0.189	-2	1.072	-2	5.661	1	2213	58	5.6
25772.1	10000	41.9814	93.3177	-565	QW	1.4	-2	6.2	1	1.2	-2	0.226	-2	1.191	-1	5.261	1	2216	40	5.6
25772.0	10000	41.9814	93.3170	-565	QW	1.2	-2	6.1	1	1.2	-2	0.192	-2	0.989	-2	5.147	0	2202	29	5.6
25771.9	10000	41.9814	93.3162	-565	QW	1.3	-2	6.3	1	1.1	-2	0.212	-2	1.176	-2	5.554	1	2201	53	5.6
25771.8	10000	41.9814	93.3154	-564	QW	1.6	-1	6.6	2	1.1	-1	0.246	-1	1.428	-1	5.814	1	2223	48	5.6

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25771.7	10000	41.9814	93.3147	-564	QW	1.9	0	6.4	1	1.1	0	0.293	-1	1.722	0	5.881	1	2219	48	5.6
25771.6	10000	41.9814	93.3139	-564	QW	2.3	1	6.4	1	1.1	0	0.364	0	2.135	0	5.859	1	2241	55	5.6
25771.5	10000	41.9814	93.3132	-563	QW	2.7	2	6.2	1	1.0	0	0.440	1	2.656	2	6.036	1	2239	40	5.6
25771.4	10000	41.9814	93.3124	-564	QW	2.7	2	6.2	1	1.0	0	0.431	1	2.563	1	5.947	1	2260	45	5.6
25771.3	10000	41.9814	93.3116	-564	QW	2.8	2	5.9	1	1.0	0	0.471	1	2.748	2	5.836	1	2270	54	5.6
25771.2	10000	41.9814	93.3109	-564	QW	3.0	2	6.0	1	1.0	0	0.505	1	2.994	2	5.928	1	2269	45	5.6
25771.1	10000	41.9814	93.3101	-564	QW	2.8	2	5.6	0	1.0	-1	0.506	1	2.895	2	5.720	1	2240	50	5.6
25771.0	10000	41.9815	93.3093	-564	QW	2.8	2	6.0	1	0.9	-1	0.462	1	2.921	2	6.323	2	2232	34	5.6
25770.9	10000	41.9815	93.3086	-564	QW	2.5	1	5.8	0	0.9	-2	0.428	1	2.798	2	6.539	2	2206	48	5.6
25770.8	10000	41.9815	93.3078	-564	QW	2.1	0	5.7	0	0.9	-1	0.362	0	2.199	1	6.072	1	2189	50	5.6
25770.7	10000	41.9815	93.3071	-564	QW	1.9	0	5.9	1	0.9	-1	0.329	0	2.131	0	6.475	2	2160	43	5.6
25770.6	10000	41.9815	93.3063	-564	QW	2.0	0	6.3	1	1.0	-1	0.321	-1	2.065	0	6.433	2	2163	49	5.6
25770.5	10000	41.9815	93.3055	-565	QW	1.8	-1	6.0	1	1.0	-1	0.292	-1	1.790	0	6.122	2	2141	62	5.5
25770.4	10000	41.9815	93.3048	-564	QW	1.8	0	6.0	1	1.0	0	0.304	-1	1.818	0	5.981	1	2163	56	5.5
25770.3	10000	41.9815	93.3040	-565	QW	1.8	-1	5.9	1	1.1	0	0.296	-1	1.603	-1	5.422	0	2175	38	5.5
25770.2	10000	41.9815	93.3033	-565	QW	1.7	-1	6.4	1	1.1	0	0.260	-1	1.500	-1	5.760	1	2192	50	5.5
25770.1	10000	41.9815	93.3025	-565	QW	1.6	-1	6.3	1	1.1	0	0.246	-1	1.422	-1	5.780	1	2195	45	5.5
25770.0	10000	41.9815	93.3017	-565	QW	1.8	-1	6.3	1	1.1	1	0.279	-1	1.560	-1	5.594	1	2206	56	5.5
25769.9	10000	41.9815	93.3010	-565	QW	1.4	-1	6.1	1	1.1	0	0.236	-1	1.341	-1	5.675	1	2188	40	5.5
25769.8	10000	41.9815	93.3002	-566	QW	1.5	-1	6.2	1	1.1	0	0.236	-1	1.341	-1	5.678	1	2200	50	5.5
25769.7	10000	41.9815	93.2994	-565	QW	1.3	-2	6.1	1	1.1	1	0.218	-2	1.199	-1	5.504	1	2191	40	5.5
25769.6	10000	41.9815	93.2987	-565	QW	1.4	-1	6.5	1	1.1	0	0.219	-2	1.302	-1	5.946	1	2191	40	5.5
25769.5	10000	41.9815	93.2979	-565	QW	1.4	-1	6.2	1	1.1	0	0.222	-2	1.297	-1	5.841	1	2182	42	5.5
25769.4	10000	41.9815	93.2971	-565	QW	1.7	-1	6.0	1	1.0	0	0.281	-1	1.615	-1	5.739	1	2202	36	5.5
25769.3	10000	41.9815	93.2964	-565	QW	1.7	-1	6.1	1	1.0	-1	0.272	-1	1.662	-1	6.117	1	2201	45	5.5
25769.2	10000	41.9815	93.2956	-564	QW	1.7	-1	6.2	1	1.0	-1	0.281	-1	1.747	-1	6.212	2	2202	46	5.5
25769.1	10000	41.9816	93.2949	-565	QW	2.1	0	5.8	1	1.0	-1	0.357	0	2.129	0	5.968	1	2187	60	5.5
25769.0	10000	41.9816	93.2941	-565	QW	2.0	0	5.9	1	1.0	-1	0.338	0	2.055	0	6.079	1	2179	47	5.5
25768.9	10000	41.9816	93.2934	-565	QW	1.8	0	5.3	1	1.0	-1	0.344	0	1.858	0	5.409	0	2160	41	5.5
25768.8	10000	41.9816	93.2926	-565	QW	1.8	-1	5.4	1	1.0	-1	0.328	0	1.770	0	5.395	0	2151	47	5.5
25768.7	10000	41.9816	93.2918	-566	QW	1.7	-1	5.5	1	1.0	-1	0.317	-1	1.801	0	5.686	1	2121	53	5.4
25768.6	10000	41.9816	93.2911	-566	QW	1.8	0	5.2	1	1.0	-1	0.350	0	1.862	0	5.326	1	2122	49	5.4
25768.5	10000	41.9816	93.2903	-566	QW	1.9	0	5.2	1	1.0	-1	0.368	0	1.950	0	5.305	0	2119	47	5.4
25768.4	10000	41.9816	93.2895	-567	QW	1.6	-1	5.4	1	1.0	-1	0.294	-1	1.593	-1	5.422	0	2136	47	5.4
25768.3	10000	41.9816	93.2888	-566	QW	1.6	-1	5.6	1	1.0	-1	0.290	-1	1.626	-1	5.605	1	2134	49	5.4
25768.2	10000	41.9816	93.2880	-566	QW	1.7	-1	5.8	1	1.0	-1	0.287	-1	1.683	-1	5.870	1	2159	51	5.4
25768.1	10000	41.9816	93.2872	-567	QW	1.8	0	5.9	1	1.0	0	0.306	-1	1.750	-1	5.710	1	2174	54	5.4
25768.0	10000	41.9816	93.2865	-568	QW	1.8	-1	5.8	1	1.1	0	0.314	-1	1.626	-1	5.181	0	2191	51	5.4
25767.9	10000	41.9816	93.2857	-568	QW	1.6	-1	6.0	1	1.1	2	0.267	-1	1.364	-1	5.106	0	2197	46	5.4
25767.8	10000	41.9816	93.2850	-569	QW	1.7	-1	6.2	1	1.1	2	0.282	-1	1.380	-1	4.898	0	2212	48	5.4
25767.7	10000	41.9816	93.2842	-570	QW	1.6	-1	6.2	1	1.1	2	0.266	-1	1.388	-1	5.227	0	2211	40	5.4
25767.6	10000	41.9816	93.2834	-570	QW	1.9	-1	6.1	1	1.1	2	0.311	-1	1.643	-1	5.291	0	2243	44	5.3
25767.5	10000	41.9816	93.2827	-570	QW	2.1	-1	6.3	1	1.1	2	0.339	-1	1.835	-1	5.415	0	2268	58	5.3
25767.4	10000	41.9816	93.2819	-570	QW	2.4	-1	6.2	1	1.1	1	0.385	0	2.094	0	5.447	0	2268	47	5.3
25767.3	10000	41.9816	93.2812	-570	QW	2.2	-1	6.6	1	1.1	1	0.341	0	1.999	0	5.862	1	2281	44	5.3
25767.2	10000	41.9817	93.2804	-570	QW	2.5	-1	6.6	1	1.0	0	0.365	0	2.158	0	5.907	1	2280	47	5.3
25767.1	10000	41.9817	93.2796	-571	QW	2.7	-1	6.5	1	1.0	0	0.442	1	2.777	2	6.277	1	2291	44	5.3
25767.0	10000	41.9817	93.2789	-570	QW	2.9	-1	6.7	1	1.0	0	0.520	2	3.126	2	6.016	2	2316	43	5.3
25766.9	10000	41.9817	93.2781	-571	QW	2.6	-1	6.4	1	1.0	0	0.520	2	2.945	2	5.661	1	2325	51	5.3
25766.8	10000	41.9817	93.2773	-572	QW	2.6	-1	6.4	1	1.0	0	0.542	2	2.796	2	5.162	1	2314	45	5.3
25766.7	10000	41.9817	93.2766	-572	QW	2.6	-1	6.4	1	1.0	0	0.492	1	2.509	1	5.103	1	2326	49	5.2
25766.6	10000	41.9817	93.2758	-573	QW	2.7	-1	5.7	1	1.1	1	0.486	1	2.475	1	5.090	0	2340	52	5.2

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25766.5	10000	41.9817	93.2751	-573	QW	2.9	2	5.7	0	1.1	1	0.503	1	2.564	1	5.102	0	2358	49	5.2
25766.4	10000	41.9817	93.2743	-573	QW	2.4	1	5.6	0	1.2	1	0.424	1	2.012	0	4.746	-1	2373	51	5.2
25766.3	10000	41.9817	93.2735	-573	QW	2.5	1	5.9	1	1.1	1	0.425	1	2.173	1	5.117	0	2377	52	5.2
25766.2	10000	41.9817	93.2728	-574	QW	2.7	2	6.2	1	1.2	1	0.435	1	2.327	1	5.350	0	2351	35	5.2
25766.1	10000	41.9817	93.2720	-575	QW	2.5	1	6.4	1	1.2	1	0.397	0	2.178	1	5.485	0	2341	44	5.2
25766.0	10000	41.9817	93.2713	-575	QW	2.7	2	6.2	1	1.2	1	0.434	1	2.302	1	5.303	0	2346	43	5.2
25765.9	10000	41.9817	93.2705	-576	QW	2.5	1	6.1	1	1.1	0	0.416	0	2.340	1	5.629	1	2333	44	5.1
25765.8	10000	41.9817	93.2697	-576	QW	2.3	1	6.2	1	1.1	0	0.374	0	2.090	0	5.591	1	2315	32	5.1
25765.7	10000	41.9817	93.2690	-576	QW	2.6	1	6.5	2	1.1	0	0.393	0	2.367	1	6.018	1	2310	54	5.1
25765.6	10000	41.9817	93.2682	-577	QW	2.3	1	6.0	1	1.1	1	0.387	0	2.115	0	5.459	0	2283	48	5.1
25765.5	10000	41.9817	93.2674	-577	QW	2.2	0	5.8	1	1.1	1	0.372	0	1.938	0	5.207	0	2290	54	5.1
25765.4	10000	41.9817	93.2667	-578	QW	2.3	1	5.5	0	1.1	0	0.418	0	2.105	0	5.041	0	2283	55	5.1
25765.3	10000	41.9817	93.2659	-579	QW	2.5	1	5.7	0	1.1	0	0.439	1	2.318	1	5.279	0	2266	49	5.1
25765.2	10000	41.9817	93.2652	-578	QW	2.9	2	5.5	0	1.1	0	0.520	2	2.590	1	4.978	0	2263	47	5.1
25765.1	10000	41.9818	93.2644	-580	QW	3.0	2	5.3	0	1.0	0	0.561	2	2.885	2	5.142	0	2257	58	5.1
25765.0	10000	41.9818	93.2636	-580	QW	3.0	2	5.4	0	1.0	-1	0.553	2	2.960	2	5.353	0	2239	37	5.1
25764.9	10000	41.9818	93.2629	-580	QW	3.0	2	5.7	0	1.0	0	0.535	2	2.968	2	5.548	1	2244	55	5.0
25764.8	10000	41.9818	93.2621	-581	QW	3.0	2	5.8	0	1.0	0	0.527	2	2.963	2	5.618	1	2242	49	5.0
25764.7	10000	41.9818	93.2614	-582	QW	2.9	2	5.9	1	1.0	0	0.486	1	2.784	2	5.733	1	2237	52	5.0
25764.6	10000	41.9818	93.2606	-582	QW	2.7	2	5.9	1	1.0	0	0.454	1	2.596	1	5.722	1	2241	47	5.0
25764.5	10000	41.9818	93.2598	-583	QW	2.6	2	6.0	1	1.0	-1	0.436	1	2.744	2	6.295	2	2226	57	5.0
25764.4	10000	41.9818	93.2591	-584	QW	2.5	1	6.5	2	1.0	-1	0.377	0	2.554	1	6.769	3	2230	34	5.0
25764.3	10000	41.9818	93.2583	-585	QW	2.3	1	6.3	1	1.0	-1	0.365	0	2.382	1	6.517	2	2216	45	5.0
25764.2	10000	41.9818	93.2575	-585	QW	2.0	0	6.5	1	1.0	-1	0.314	-1	2.063	0	6.571	2	2211	44	5.0
25764.1	10000	41.9818	93.2568	-585	QW	2.0	0	6.1	1	0.9	-1	0.331	0	2.150	1	6.486	2	2202	58	5.0
25764.0	10000	41.9818	93.2560	-586	QW	2.1	0	6.5	2	0.9	-1	0.327	0	2.325	1	7.101	3	2207	46	4.9
25763.9	10000	41.9818	93.2552	-587	QW	2.2	0	6.7	2	0.9	-1	0.324	0	2.297	1	7.089	3	2191	54	4.9
25763.8	10000	41.9818	93.2545	-588	QW	2.4	1	6.5	2	1.0	-1	0.364	0	2.377	1	6.522	2	2194	50	4.9
25763.7	10000	41.9818	93.2537	-588	QW	2.5	1	5.9	1	1.0	-1	0.429	0	2.439	1	5.684	1	2190	47	4.9
25763.6	10000	41.9818	93.2530	-588	QW	2.7	1	6.0	2	1.0	-1	0.446	1	2.575	1	5.775	1	2200	57	4.9
25763.5	10000	41.9818	93.2522	-589	QW	3.1	2	5.9	1	1.0	-1	0.520	1	3.013	1	5.799	1	2210	42	4.9
25763.4	10000	41.9818	93.2514	-590	QW	3.0	2	6.1	1	1.0	-1	0.494	1	2.919	1	5.905	1	2209	44	4.9
25763.3	10000	41.9818	93.2507	-591	QW	3.2	2	5.9	1	1.0	-1	0.549	1	2.993	1	5.448	0	2213	46	4.9
25763.2	10000	41.9818	93.2499	-592	QW	3.1	2	5.9	1	1.0	-1	0.525	1	2.864	1	5.455	0	2219	48	4.9
25763.1	10000	41.9816	93.2492	-593	QW	3.5	2	6.1	1	1.1	-1	0.412	1	2.382	1	5.782	1	2220	44	4.9
25763.0	10000	41.9818	93.2484	-594	QW	3.8	2	6.4	1	1.1	-1	0.435	1	2.611	1	6.000	1	2220	57	4.9
25762.9	10000	41.9818	93.2476	-594	QW	3.9	2	6.2	1	1.1	-1	0.463	1	2.684	2	5.803	1	2217	52	4.9
25762.8	10000	41.9819	93.2469	-594	QW	3.5	2	6.3	1	1.1	-1	0.401	1	2.356	1	5.873	1	2209	58	4.9
25762.7	10000	41.9819	93.2461	-595	QW	3.5	2	6.6	1	1.1	-1	0.383	1	2.306	1	6.028	1	2209	66	4.9
25762.6	10000	41.9819	93.2453	-596	QW	3.3	2	6.2	1	1.1	-1	0.362	1	2.049	1	5.660	1	2197	58	4.9
25762.5	10000	41.9819	93.2446	-597	QD	3.4	2	6.0	1	1.1	-1	0.401	1	2.088	1	5.202	0	2209	37	4.9
25762.4	10000	41.9819	93.2438	-598	QD	3.5	2	5.8	1	1.1	-2	0.438	1	2.103	1	4.802	-1	2206	44	4.9
25762.3	10000	41.9819	93.2431	-599	QD	3.4	2	5.7	1	1.1	-2	0.423	1	2.032	1	4.805	-1	2217	53	4.9
25762.2	10000	41.9819	93.2423	-600	QD	3.1	2	6.0	1	1.1	-2	0.345	0	1.721	-1	4.985	-1	2224	49	4.9
25762.1	10000	41.9819	93.2415	-601	QD	3.0	1	6.3	1	1.1	-2	0.353	0	1.623	-1	4.604	-1	2228	52	4.9
25762.0	10000	41.9819	93.2408	-602	QD	3.4	2	6.5	1	1.1	-2	0.406	0	1.774	-1	4.373	-2	2257	57	4.9
25761.9	10000	41.9819	93.2400	-603	QD	3.4	2	6.5	1	1.1	-2	0.432	0	2.033	-1	4.705	-1	2286	41	4.9
25761.8	10000	41.9819	93.2392	-604	QD	3.7	2	6.7	1	1.1	-2	0.438	0	2.178	-1	4.972	-1	2307	38	4.9
25761.7	10000	41.9819	93.2385	-606	QD	3.4	2	5.5	1	1.1	-2	0.473	0	2.453	-1	5.183	0	2332	59	4.9
25761.6	10000	41.9819	93.2377	-606	QD	3.7	2	5.5	1	1.1	-2	0.428	0	2.233	-1	5.218	-1	2336	35	4.9
25761.5	10000	41.9819	93.2370	-607	QD	3.7	2	5.5	1	1.1	-2	0.496	0	2.432	-1	4.899	-1	2349	55	4.9
25761.4	10000	41.9819	93.2363	-608	QD	2.7	1	5.5	1	1.1	-2	0.486	0	2.434	-1	5.004	-1	2358	46	4.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25761.3	10000	41.9819	93.2356	-609	QD	2.6	1	5.5	-1	1.2	0	0.480	1	2.267	1	4.727	-1	2364	42	4.9
25761.2	10000	41.9819	93.2349	-609	QD	2.6	1	5.5	-1	1.2	1	0.471	1	2.100	0	4.454	-2	2350	49	4.9
25761.1	10000	41.9819	93.2342	-611	QD	2.7	1	5.6	0	1.3	2	0.483	1	2.158	0	4.471	-2	2331	38	4.9
25761.0	10000	41.9819	93.2335	-611	QD	2.2	0	5.5	-1	1.3	2	0.404	0	1.770	-1	4.381	-2	2334	40	4.9
25760.9	10000	41.9819	93.2328	-612	QD	2.4	1	5.4	-1	1.3	2	0.447	1	1.857	-1	4.152	-2	2341	54	4.9
25760.8	10000	41.9819	93.2321	-614	QD	2.3	0	5.6	0	1.3	2	0.410	0	1.821	-1	4.442	-2	2335	59	4.9
25760.7	10000	41.9819	93.2315	-614	QD	2.7	1	5.5	-1	1.3	2	0.488	1	2.137	0	4.376	-2	2346	54	4.9
25760.6	10000	41.9819	93.2308	-615	QD	2.7	1	5.8	0	1.3	2	0.466	1	2.156	0	4.625	-1	2344	57	4.9
25760.5	10000	41.9819	93.2301	-616	QD	2.3	0	5.9	0	1.2	1	0.395	0	1.929	0	4.881	-1	2345	47	4.9
25760.4	10000	41.9819	93.2294	-617	QD	2.3	0	6.2	0	1.2	1	0.371	0	1.934	0	5.212	0	2347	51	5.0
25760.3	10000	41.9819	93.2287	-618	QD	2.6	1	6.1	0	1.2	1	0.426	0	2.141	0	5.030	0	2333	43	5.0
25760.2	10000	41.9819	93.2280	-618	QD	2.4	0	5.9	0	1.2	1	0.411	0	1.990	0	4.848	-1	2319	44	5.0
25760.1	10000	41.9819	93.2273	-618	QD	2.6	1	5.7	0	1.2	1	0.458	1	2.129	0	4.645	-1	2317	50	5.0
25760.0	10000	41.9819	93.2266	-619	QD	2.4	0	6.0	0	1.2	1	0.407	0	2.018	0	4.960	-1	2299	41	5.0
25759.9	10000	41.9819	93.2260	-620	QD	2.5	1	5.9	0	1.2	1	0.429	0	2.181	0	5.083	0	2271	55	5.0
25759.8	10000	41.9819	93.2253	-621	QD	2.9	1	5.8	0	1.2	1	0.504	1	2.522	1	5.008	-1	2262	41	5.0
25759.7	10000	41.9819	93.2246	-622	QD	2.9	2	5.5	-1	1.1	0	0.524	2	2.513	1	4.794	-1	2253	53	5.0
25759.6	10000	41.9819	93.2239	-623	QD	2.8	2	5.6	0	1.1	0	0.504	2	2.612	2	5.184	0	2246	43	5.0
25759.5	10000	41.9819	93.2232	-624	QD	3.0	2	5.8	0	1.0	-1	0.520	2	2.938	2	5.646	1	2241	49	5.0
25759.4	10000	41.9819	93.2225	-625	QD	2.8	2	5.6	0	1.0	-1	0.488	2	2.628	2	5.381	0	2217	42	5.0
25759.3	10000	41.9819	93.2218	-626	QD	2.9	2	5.4	-1	1.0	-1	0.539	2	2.872	2	5.332	0	2204	55	5.0
25759.2	10000	41.9819	93.2211	-626	QD	2.7	1	5.3	-1	1.0	-1	0.510	2	2.706	2	5.310	0	2202	38	5.0
25759.1	10000	41.9819	93.2204	-627	QD	2.6	1	5.6	0	1.0	-1	0.469	1	2.627	2	5.606	1	2192	45	5.1
25759.0	10000	41.9819	93.2198	-628	QD	2.5	1	5.7	0	1.0	-1	0.444	1	2.470	1	5.561	1	2180	46	5.1
25758.9	10000	41.9819	93.2191	-630	QD	2.7	1	5.9	0	1.0	-1	0.457	1	2.564	1	5.606	1	2174	37	5.1
25758.8	10000	41.9818	93.2184	-631	QD	2.3	0	6.0	0	1.1	0	0.393	0	2.164	0	5.511	0	2175	42	5.1
25758.7	10000	41.9818	93.2177	-632	QD	2.4	0	6.4	1	1.1	-1	0.371	0	2.254	1	6.080	2	2191	52	5.1
25758.6	10000	41.9818	93.2170	-633	QD	2.1	0	6.5	1	1.1	-1	0.322	-1	1.981	0	6.157	2	2184	54	5.1
25758.5	10000	41.9818	93.2163	-633	QD	2.4	0	6.5	1	1.1	0	0.367	0	2.249	1	6.131	2	2183	42	5.1
25758.4	10000	41.9818	93.2156	-634	QD	2.2	0	6.4	1	1.0	-1	0.350	-1	2.127	1	6.080	2	2175	49	5.1
25758.3	10000	41.9818	93.2149	-634	QD	2.6	1	6.3	1	1.0	-1	0.407	0	2.512	1	6.172	2	2163	59	5.1
25758.2	10000	41.9818	93.2142	-635	QD	2.2	0	5.9	0	1.0	-2	0.379	0	2.305	1	6.087	2	2127	50	5.1
25758.1	10000	41.9818	93.2136	-636	QD	2.3	0	5.7	0	0.9	-2	0.400	0	2.456	1	6.138	2	2100	41	5.1
25758.0	10000	41.9818	93.2129	-637	QD	2.1	0	5.6	0	0.9	-2	0.378	0	2.320	1	6.133	2	2046	44	5.2
25757.9	10000	41.9818	93.2122	-638	QD	2.2	0	5.3	-1	0.9	-2	0.410	0	2.323	1	5.673	1	2027	50	5.2
25757.8	10000	41.9818	93.2115	-639	QD	1.8	-1	5.1	-1	0.9	-2	0.358	0	2.032	1	5.680	1	1998	45	5.2
25757.7	10000	41.9818	93.2108	-640	QD	1.9	-1	5.1	-1	0.9	-2	0.370	0	2.090	1	5.643	1	2005	44	5.2
25757.6	10000	41.9818	93.2101	-641	QD	1.5	-2	5.3	-1	0.9	-2	0.285	-1	1.587	-1	5.567	1	2038	44	5.2
25757.5	10000	41.9818	93.2094	-642	QD	1.7	-2	5.3	-1	1.0	-2	0.325	-1	1.760	-1	5.413	1	2081	40	5.2
25757.4	10000	41.9818	93.2087	-644	QD	2.1	-1	5.5	-1	1.0	-1	0.378	0	2.075	0	5.484	0	2115	47	5.2
25757.3	10000	41.9818	93.2081	-645	QD	2.2	0	5.0	-1	1.1	-1	0.433	0	2.053	0	4.742	-1	2164	43	5.2
25757.2	10000	41.9818	93.2074	-646	QD	2.2	0	5.2	-1	1.1	-1	0.415	0	2.058	0	4.959	-1	2182	43	5.2
25757.1	10000	41.9818	93.2067	-647	QD	2.6	1	5.4	-1	1.1	-1	0.471	1	2.433	1	5.161	0	2212	37	5.2
25757.0	10000	41.9818	93.2060	-647	QD	2.7	1	5.3	-1	1.1	-1	0.510	2	2.566	2	5.035	0	2207	46	5.2
25756.9	10000	41.9818	93.2053	-649	QD	2.8	1	5.5	-1	1.0	-1	0.503	2	2.725	2	5.418	1	2197	41	5.3
25756.8	10000	41.9818	93.2046	-650	QL	2.7	1	5.8	-2	1.0	-2	0.465	2	2.622	2	5.635	1	2190	48	5.3
25756.7	10000	41.9818	93.2039	-651	QL	2.6	0	5.7	-2	1.0	-1	0.455	1	2.518	1	5.537	-1	2183	39	5.3
25756.6	10000	41.9818	93.2032	-651	QL	2.6	0	6.2	-2	1.0	-2	0.417	1	2.604	1	6.239	0	2188	56	5.3
25756.5	10000	41.9818	93.2025	-652	QL	2.7	0	6.4	-1	1.0	-2	0.421	1	2.685	1	6.383	0	2205	47	5.3
25756.4	10000	41.9818	93.2019	-654	QL	2.5	0	6.2	-2	1.0	-2	0.402	1	2.440	1	6.071	0	2221	49	5.3
25756.3	10000	41.9818	93.2012	-655	QL	2.2	-1	6.3	-1	1.0	-2	0.346	0	2.154	1	6.219	0	2243	53	5.3
25756.2	10000	41.9818	93.2005	-657	QL	2.3	-1	6.2	-2	1.1	-1	0.367	0	2.158	0	5.872	-1	2261	55	5.3

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25756.1	10000	41.9818	93.1998	-658	QL	2.4	0	6.2	-2	1.1	-1	0.392	0	2.280	0	5.811	-1	2294	57	5.3
25756.0	10000	41.9818	93.1991	-659	QL	2.5	0	6.6	-1	1.1	-1	0.382	0	2.332	0	6.099	0	2334	50	5.3
25755.9	10000	41.9818	93.1984	-660	QL	2.8	0	6.7	-1	1.1	-1	0.410	1	2.558	1	6.239	0	2359	60	5.3
25755.8	10000	41.9818	93.1977	-661	QL	2.8	0	6.8	-1	1.1	-1	0.407	1	2.468	1	6.069	0	2375	43	5.3
25755.7	10000	41.9818	93.1970	-662	QL	2.6	0	7.1	0	1.1	0	0.368	0	2.287	0	6.210	0	2374	40	5.3
25755.6	10000	41.9818	93.1964	-663	QL	2.9	1	7.0	0	1.2	0	0.411	1	2.462	1	5.995	0	2365	49	5.3
25755.5	10000	41.9818	93.1957	-663	QL	2.9	1	6.9	-1	1.1	-1	0.416	1	2.550	1	6.132	0	2344	44	5.3
25755.4	10000	41.9818	93.1950	-664	QL	2.7	0	6.8	-1	1.1	-1	0.403	1	2.522	1	6.255	0	2336	56	5.4
25755.3	10000	41.9818	93.1943	-665	QL	2.7	0	6.4	-1	1.0	-1	0.417	1	2.562	1	6.147	0	2309	41	5.4
25755.2	10000	41.9818	93.1936	-666	QL	2.7	0	6.4	-1	1.0	-1	0.422	1	2.600	1	6.163	0	2316	40	5.4
25755.1	10000	41.9818	93.1929	-666	QL	2.4	0	6.3	-2	1.0	-2	0.379	0	2.420	0	6.384	0	2330	45	5.4
25755.0	10000	41.9818	93.1922	-667	QL	2.4	0	6.4	-1	1.0	-2	0.377	0	2.392	0	6.338	0	2358	44	5.4
25754.9	10000	41.9818	93.1915	-668	QL	2.4	0	6.6	-1	1.0	-2	0.364	0	2.392	0	6.579	1	2387	51	5.4
25754.8	10000	41.9817	93.1908	-669	QL	2.6	0	6.8	-1	1.1	-1	0.378	0	2.377	0	6.286	0	2443	40	5.4
25754.7	10000	41.9817	93.1902	-669	QL	2.4	-1	7.2	0	1.1	0	0.328	0	2.050	0	6.247	0	2475	51	5.4
25754.6	10000	41.9817	93.1895	-670	QL	2.4	-1	7.7	1	1.2	0	0.307	-1	1.966	-1	6.397	0	2523	64	5.4
25754.5	10000	41.9817	93.1888	-671	QL	2.2	-1	7.8	1	1.3	1	0.280	-1	1.703	-1	6.070	0	2549	42	5.4
25754.4	10000	41.9817	93.1881	-672	QL	2.1	-1	8.0	1	1.4	2	0.261	-1	1.538	-2	5.883	-1	2550	48	5.4
25754.3	10000	41.9817	93.1874	-673	QL	2.3	-1	7.7	1	1.3	2	0.301	-1	1.733	-1	5.732	-1	2566	51	5.4
25754.2	10000	41.9817	93.1867	-673	QL	2.2	-1	7.6	1	1.4	2	0.293	-1	1.639	-1	5.603	-1	2575	47	5.4
25754.1	10000	41.9817	93.1860	-674	QL	2.1	-1	7.8	1	1.4	2	0.267	-1	1.503	-2	5.622	-1	2572	46	5.4
25754.0	10000	41.9817	93.1853	-674	QL	2.4	0	7.7	1	1.4	2	0.309	-1	1.736	-1	5.617	-1	2577	44	5.4
25753.9	10000	41.9817	93.1846	-675	QL	2.2	-1	7.3	0	1.4	2	0.302	-1	1.592	-1	5.272	-2	2569	41	5.4
25753.8	10000	41.9817	93.1840	-675	QL	2.3	-1	6.8	-1	1.3	2	0.346	0	1.740	-1	5.023	-2	2557	33	5.4
25753.7	10000	41.9817	93.1833	-676	QL	2.7	0	6.7	-1	1.3	2	0.408	1	2.108	0	5.164	-2	2549	45	5.4
25753.6	10000	41.9817	93.1826	-677	QL	2.7	0	6.9	-1	1.3	2	0.385	1	2.066	0	5.368	-1	2544	52	5.4
25753.5	10000	41.9817	93.1819	-678	QL	2.7	0	6.9	-1	1.3	2	0.393	1	2.151	0	5.466	-1	2538	56	5.4
25753.4	10000	41.9817	93.1812	-678	QL	3.0	1	7.0	0	1.2	2	0.437	1	2.561	1	5.862	-1	2522	37	5.4
25753.3	10000	41.9817	93.1805	-678	QL	2.8	1	6.9	-1	1.2	1	0.410	1	2.411	1	5.877	-1	2509	51	5.4
25753.2	10000	41.9817	93.1798	-679	QL	3.1	2	7.1	0	1.1	1	0.433	1	2.708	1	6.259	0	2518	62	5.4
25753.1	10000	41.9817	93.1791	-679	QL	3.3	2	7.7	0	1.1	1	0.425	1	2.939	1	6.908	1	2525	53	5.4
25753.0	10000	41.9817	93.1785	-680	QL	3.4	2	7.5	0	1.1	1	0.450	1	3.079	1	6.847	1	2549	45	5.4
25752.9	10000	41.9817	93.1778	-680	QL	3.3	2	7.7	0	1.1	1	0.427	1	3.069	2	7.183	2	2550	53	5.4
25752.8	10000	41.9817	93.1771	-681	QL	3.4	2	7.8	0	1.1	1	0.434	1	3.158	2	7.271	2	2581	48	5.4
25752.7	10000	41.9817	93.1764	-682	QL	2.9	1	7.8	0	1.2	1	0.370	0	2.479	1	6.701	1	2607	44	5.4
25752.6	10000	41.9817	93.1757	-682	QL	3.1	2	7.3	0	1.2	1	0.420	1	2.636	1	6.272	0	2625	48	5.4
25752.5	10000	41.9817	93.1750	-683	QL	2.8	1	7.3	0	1.2	1	0.378	0	2.330	0	6.156	0	2624	55	5.4
25752.4	10000	41.9817	93.1743	-684	QL	2.5	1	6.9	0	1.2	1	0.355	0	2.088	0	5.877	-1	2612	41	5.5
25752.3	10000	41.9817	93.1736	-684	QL	2.2	0	7.5	-1	1.2	1	0.298	-1	1.823	-1	6.118	0	2604	51	5.5
25752.2	10000	41.9817	93.1729	-685	QL	2.1	-1	7.4	-1	1.3	1	0.280	-1	1.643	-1	5.877	-1	2613	39	5.5
25752.1	10000	41.9817	93.1723	-686	QL	2.2	-1	7.6	-1	1.3	1	0.295	-1	1.784	-1	6.038	0	2599	38	5.5
25752.0	10000	41.9817	93.1716	-686	QL	2.5	-1	7.6	-1	1.2	1	0.322	-1	2.042	0	6.335	0	2584	46	5.5
25751.9	10000	41.9817	93.1709	-686	QL	2.3	-1	8.0	-1	1.2	1	0.291	-1	1.939	-1	6.654	1	2565	51	5.5
25751.8	10000	41.9817	93.1702	-687	QL	2.6	0	7.9	-1	1.2	1	0.325	0	2.169	0	6.678	1	2567	41	5.5
25751.7	10000	41.9817	93.1695	-687	QL	2.7	0	8.4	-1	1.2	1	0.317	-1	2.143	0	6.764	1	2586	57	5.5
25751.6	10000	41.9817	93.1688	-688	QL	2.9	1	7.7	0	1.2	1	0.375	0	2.360	1	6.294	0	2591	49	5.5
25751.5	10000	41.9817	93.1681	-688	QL	2.8	1	7.6	0	1.2	1	0.410	0	2.532	1	6.178	0	2606	56	5.5
25751.4	10000	41.9816	93.1674	-688	QL	2.8	1	7.4	0	1.2	1	0.381	0	2.272	1	5.967	0	2602	42	5.5
25751.3	10000	41.9816	93.1667	-689	QL	3.1	2	7.5	0	1.2	1	0.413	0	2.520	1	6.100	0	2614	41	5.5
25751.2	10000	41.9816	93.1661	-690	QL	3.2	2	7.9	0	1.2	1	0.421	1	2.702	1	6.411	0	2632	52	5.5
25751.1	10000	41.9816	93.1654	-690	QL	3.2	2	7.9	0	1.2	1	0.413	1	2.612	1	6.331	0	2621	48	5.5
25751.0	10000	41.9816	93.1647	-691	QK	3.3	2	7.4	0	1.2	1	0.441	1	2.676	1	6.068	-1	2610	49	5.5

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25750.9	10000	41.9816	93.1640	-690	QK	3.1	1	7.7	1	1.2	0	0.397	1	2.601	1	6.556	0	2600	47	5.5
25750.8	10000	41.9816	93.1633	-687	QK	3.1	1	7.6	1	1.2	1	0.412	1	2.620	1	6.359	0	2570	60	5.5
25750.7	10000	41.9816	93.1626	-684	QK	3.2	1	7.7	1	1.2	0	0.412	1	2.736	1	6.637	0	2551	49	5.5
25750.6	10000	41.9816	93.1619	-685	QK	2.9	1	7.6	0	1.2	0	0.383	0	2.502	0	6.534	0	2538	38	5.5
25750.5	10000	41.9816	93.1612	-688	QK	2.6	0	7.4	0	1.1	0	0.356	0	2.304	0	6.480	0	2525	45	5.5
25750.4	10000	41.9816	93.1606	-691	QK	2.7	0	7.7	1	1.1	0	0.354	0	2.369	0	6.693	0	2523	50	5.5
25750.3	10000	41.9816	93.1599	-692	QK	2.6	0	8.1	1	1.2	0	0.323	0	2.256	0	6.989	1	2510	52	5.5
25750.2	10000	41.9816	93.1592	-694	QK	2.7	0	8.1	1	1.1	0	0.339	0	2.401	0	7.083	1	2512	44	5.5
25750.1	10000	41.9816	93.1585	-695	QK	2.6	0	8.3	1	1.1	0	0.308	-1	2.361	0	7.669	2	2506	44	5.5
25750.0	10000	41.9816	93.1578	-696	QK	2.9	1	8.3	1	1.1	0	0.346	0	2.658	1	7.682	2	2529	42	5.5
25749.9	10000	41.9816	93.1571	-696	QK	2.8	1	8.3	1	1.1	0	0.338	0	2.550	1	7.533	1	2529	59	5.5
25749.8	10000	41.9816	93.1564	-696	QK	2.8	1	7.8	1	1.1	0	0.365	0	2.654	1	7.264	1	2507	40	5.5
25749.7	10000	41.9816	93.1557	-696	QK	2.6	0	7.8	1	1.1	0	0.327	0	2.396	0	7.316	1	2494	47	5.5
25749.6	10000	41.9816	93.1550	-697	QK	2.7	0	7.7	1	1.0	-1	0.350	0	2.582	1	7.385	1	2495	48	5.5
25749.5	10000	41.9816	93.1544	-698	QK	2.8	1	7.8	1	1.1	0	0.362	0	2.599	1	7.187	1	2495	48	5.5
25749.4	10000	41.9816	93.1537	-698	QK	2.7	0	7.7	1	1.1	0	0.355	0	2.447	0	6.897	1	2503	56	5.5
25749.3	10000	41.9816	93.1530	-698	QK	2.7	0	7.5	0	1.2	0	0.357	0	2.320	0	6.497	0	2484	42	5.5
25749.2	10000	41.9816	93.1523	-698	QK	2.7	0	7.3	0	1.2	1	0.370	0	2.300	0	6.211	0	2476	51	5.5
25749.1	10000	41.9816	93.1516	-699	QK	2.8	1	7.7	1	1.2	1	0.359	0	2.243	0	6.253	0	2503	59	5.5
25749.0	10000	41.9816	93.1509	-699	QK	3.2	1	7.5	0	1.2	1	0.424	1	2.588	1	6.104	-1	2506	46	5.5
25748.9	10000	41.9816	93.1502	-700	QK	3.4	2	7.2	0	1.2	1	0.473	2	2.762	1	5.844	-1	2512	59	5.5
25748.8	10000	41.9816	93.1495	-701	QK	3.3	2	7.2	0	1.3	1	0.463	2	2.627	1	5.668	-1	2524	52	5.5
25748.7	10000	41.9816	93.1488	-702	QK	3.4	2	7.3	0	1.3	1	0.466	2	2.695	1	5.784	-1	2521	44	5.5
25748.6	10000	41.9816	93.1482	-702	QK	3.1	1	7.5	0	1.3	1	0.409	1	2.423	0	5.930	-1	2536	50	5.5
25748.5	10000	41.9816	93.1475	-703	QK	3.1	1	7.9	1	1.3	1	0.389	1	2.445	0	6.292	0	2534	36	5.5
25748.4	10000	41.9816	93.1468	-703	QK	3.3	2	7.9	1	1.3	1	0.415	1	2.553	1	6.149	0	2538	41	5.5
25748.3	10000	41.9816	93.1461	-703	QK	3.1	2	7.6	1	1.3	1	0.399	1	2.396	1	6.002	-1	2530	48	5.5
25748.2	10000	41.9816	93.1454	-704	QK	3.1	1	7.5	1	1.3	1	0.338	0	2.000	-1	5.908	-1	2509	62	5.5
25748.1	10000	41.9815	93.1447	-704	QK	3.3	2	7.6	1	1.3	1	0.322	0	1.927	-1	5.986	-1	2493	49	5.5
25748.0	10000	41.9815	93.1440	-705	QK	3.3	2	7.6	1	1.3	1	0.307	-1	1.847	-1	6.015	-1	2483	37	5.5
25747.9	10000	41.9815	93.1433	-705	QK	3.4	2	7.5	1	1.3	1	0.319	-1	1.921	-1	6.029	-1	2463	40	5.5
25747.8	10000	41.9815	93.1427	-705	QK	3.3	2	7.2	1	1.3	1	0.324	-1	1.852	-1	5.710	-1	2464	43	5.5
25747.7	10000	41.9815	93.1420	-706	QK	3.4	2	7.2	1	1.3	1	0.326	-1	1.918	-1	5.879	-1	2443	59	5.5
25747.6	10000	41.9815	93.1413	-706	QK	3.5	2	7.4	1	1.3	1	0.340	0	2.054	-1	6.036	-1	2449	54	5.5
25747.5	10000	41.9815	93.1406	-707	QK	3.7	2	7.9	1	1.2	1	0.346	0	2.230	0	6.449	0	2459	47	5.5
25747.4	10000	41.9815	93.1399	-707	QK	3.6	2	7.6	1	1.3	1	0.343	0	2.113	0	6.166	0	2470	41	5.5
25747.3	10000	41.9815	93.1392	-708	QK	3.7	2	7.3	1	1.2	1	0.364	0	2.114	0	5.805	-1	2484	57	5.5
25747.2	10000	41.9815	93.1385	-709	QK	3.9	2	7.1	1	1.3	1	0.411	1	2.324	1	5.651	-1	2508	34	5.5
25747.1	10000	41.9815	93.1378	-709	QK	4.0	2	7.3	1	1.3	1	0.411	1	2.349	1	5.717	-1	2512	47	5.5
25747.0	10000	41.9815	93.1371	-710	QK	3.9	2	7.3	1	1.3	1	0.392	0	2.232	0	5.700	-1	2518	48	5.5
25746.9	10000	41.9815	93.1365	-710	QK	3.7	2	7.3	1	1.3	1	0.364	-1	2.004	-1	5.506	-1	2522	53	5.5
25746.8	10000	41.9815	93.1358	-711	QK	3.6	2	7.5	1	1.4	1	0.379	-1	1.897	-1	5.004	-2	2542	51	5.5
25746.7	10000	41.9815	93.1351	-711	QK	3.9	2	7.7	1	1.3	2	0.382	0	2.103	-1	5.504	-1	2553	53	5.5
25746.6	10000	41.9815	93.1344	-712	QK	3.9	2	8.0	1	1.3	2	0.390	0	2.280	-1	5.845	-1	2544	50	5.5
25746.5	10000	41.9815	93.1337	-712	QK	3.9	2	8.1	1	1.3	1	0.357	0	2.137	-1	5.977	-1	2553	50	5.5
25746.4	10000	41.9815	93.1330	-710	QK	4.2	2	7.9	1	1.3	1	0.389	1	2.475	0	6.357	0	2566	51	5.5
25746.3	10000	41.9815	93.1323	-709	QK	4.2	2	8.0	1	1.3	1	0.405	1	2.614	1	6.446	0	2584	41	5.5
25746.2	10000	41.9815	93.1316	-712	QK	4.4	2	8.0	1	1.3	1	0.422	1	2.791	1	6.612	0	2602	41	5.5
25746.1	10000	41.9815	93.1309	-715	QK	4.5	2	8.5	1	1.3	1	0.410	1	2.862	1	6.977	1	2607	56	5.5
25746.0	10000	41.9814	93.1302	-717	QK	4.3	2	7.7	1	1.2	1	0.437	1	2.832	1	6.482	0	2612	49	5.5
25745.9	10000	41.9814	93.1295	-717	QK	4.3	2	8.0	1	1.2	1	0.404	1	2.672	1	6.613	0	2630	52	5.6
25745.8	10000	41.9814	93.1288	-718	QK	3.0	1	8.0	1	1.2	1	0.376	0	2.450	0	6.513	0	2631	54	5.6

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25745.7	10000	41.9814	93.1281	-718	QK	2.7	0	7.9	1	1.3	1	0.336	0	2.106	0	6.269	0	2643	57	5.6
25745.6	10000	41.9814	93.1274	-719	QK	2.8	1	8.1	1	1.3	2	0.346	0	2.146	0	6.204	0	2653	42	5.6
25745.5	10000	41.9814	93.1267	-720	QK	2.9	1	8.1	1	1.3	1	0.354	0	2.230	0	6.306	0	2658	27	5.6
25745.4	10000	41.9814	93.1260	-721	QK	2.4	0	8.0	1	1.3	1	0.306	-1	1.894	-1	6.189	0	2656	59	5.6
25745.3	10000	41.9814	93.1253	-722	QK	2.3	0	8.6	2	1.3	1	0.274	-1	1.850	-1	6.763	0	2649	43	5.6
25745.2	10000	41.9814	93.1246	-722	QK	2.6	0	8.7	2	1.3	1	0.297	-1	1.993	-1	6.704	0	2646	51	5.6
25745.1	10000	41.9814	93.1239	-724	QK	2.6	0	8.7	2	1.2	1	0.303	-1	2.159	0	7.133	1	2616	42	5.6
25745.0	10000	41.9814	93.1232	-725	QK	2.8	1	8.6	2	1.2	1	0.321	0	2.280	0	7.092	1	2595	49	5.6
25744.9	10000	41.9813	93.1225	-725	QK	2.4	0	8.5	2	1.2	0	0.282	-1	2.080	0	7.383	1	2573	68	5.6
25744.8	10000	41.9813	93.1218	-726	QK	2.4	0	8.6	2	1.1	0	0.276	-1	2.073	0	7.497	1	2542	51	5.6
25744.7	10000	41.9813	93.1211	-727	QK	2.7	0	8.5	2	1.1	0	0.319	0	2.432	0	7.613	2	2525	53	5.6
25744.6	10000	41.9813	93.1204	-728	QK	2.7	0	8.2	1	1.1	0	0.334	0	2.462	0	7.370	1	2502	42	5.6
25744.5	10000	41.9813	93.1197	-728	QK	2.7	0	7.9	1	1.1	0	0.344	0	2.485	0	7.233	1	2488	47	5.6
25744.4	10000	41.9813	93.1190	-729	QK	2.6	0	7.8	1	1.2	0	0.338	0	2.274	0	6.736	0	2504	44	5.6
25744.3	10000	41.9813	93.1183	-731	QK	2.7	0	7.6	1	1.2	0	0.351	0	2.328	0	6.642	0	2499	48	5.6
25744.2	10000	41.9813	93.1176	-731	QK	2.8	1	7.6	0	1.2	1	0.374	0	2.364	0	6.323	0	2500	49	5.6
25744.1	10000	41.9813	93.1169	-732	QK	2.9	1	7.2	0	1.2	1	0.401	1	2.399	0	5.976	-1	2506	38	5.7
25744.0	10000	41.9812	93.1162	-733	QK	2.9	1	7.1	0	1.2	1	0.412	1	2.376	0	5.763	-1	2511	56	5.7
25743.9	10000	41.9812	93.1155	-734	QK	3.0	1	6.9	0	1.2	1	0.430	1	2.431	0	5.654	-1	2513	58	5.7
25743.8	10000	41.9812	93.1148	-734	QK	2.8	1	6.4	-1	1.2	1	0.431	1	2.325	0	5.390	-2	2499	49	5.7
25743.7	10000	41.9812	93.1141	-735	QL	3.1	1	6.5	-1	1.2	0	0.473	2	2.663	1	5.627	-1	2485	38	5.7
25743.6	10000	41.9812	93.1134	-736	QL	3.0	1	6.4	-1	1.2	0	0.465	2	2.543	1	5.466	-1	2493	50	5.7
25743.5	10000	41.9812	93.1127	-737	QL	2.8	1	6.5	-1	1.1	-1	0.437	1	2.543	1	5.815	-1	2492	45	5.7
25743.4	10000	41.9812	93.1120	-738	QL	2.8	1	6.8	-1	1.0	-1	0.418	1	2.718	1	6.497	1	2490	33	5.7
25743.3	10000	41.9812	93.1113	-739	QL	3.1	1	6.6	-1	1.0	-2	0.472	2	3.096	2	6.562	1	2488	68	5.7
25743.2	10000	41.9812	93.1106	-741	QL	3.2	1	6.6	-1	1.0	-2	0.479	2	3.153	2	6.578	1	2487	46	5.7
25743.1	10000	41.9812	93.1099	-741	QL	3.2	1	6.7	-1	1.0	-2	0.454	2	3.078	2	6.778	1	2510	49	5.7
25743.0	10000	41.9811	93.1092	-742	QL	3.2	1	7.0	-2	1.0	-2	0.456	2	3.145	2	6.893	1	2533	44	5.8
25742.9	10000	41.9811	93.1085	-743	QL	3.0	1	7.5	-2	1.0	-2	0.407	2	2.994	2	7.364	1	2551	47	5.8
25742.8	10000	41.9811	93.1078	-743	QL	2.8	1	7.5	-2	1.1	-2	0.393	2	2.718	2	6.917	1	2570	53	5.8
25742.7	10000	41.9811	93.1071	-744	QL	2.6	1	7.5	-2	1.2	-1	0.379	2	2.424	2	6.399	1	2574	54	5.8
25742.6	10000	41.9811	93.1064	-745	QL	2.5	1	7.9	-1	1.1	0	0.328	2	2.261	2	6.893	1	2577	48	5.8
25742.5	10000	41.9811	93.1057	-746	QL	2.7	1	8.1	-1	1.1	0	0.313	2	2.241	2	7.163	1	2605	41	5.8
25742.4	10000	41.9811	93.1050	-746	QL	2.9	1	8.3	-1	1.1	0	0.307	2	2.376	2	7.727	1	2626	57	5.8
25742.3	10000	41.9811	93.1043	-748	QL	2.5	1	8.5	-1	1.2	0	0.282	2	2.134	2	7.578	1	2623	46	5.8
25742.2	10000	41.9811	93.1036	-748	QL	2.7	1	8.8	-1	1.2	0	0.311	2	2.314	2	7.428	1	2618	39	5.8
25742.1	10000	41.9811	93.1029	-749	QL	2.9	1	8.8	-1	1.2	0	0.349	2	2.486	2	7.117	1	2608	45	5.8
25742.0	10000	41.9811	93.1022	-750	QL	2.4	1	8.3	-1	1.2	0	0.297	2	2.096	2	7.065	1	2614	54	5.9
25741.9	10000	41.9810	93.1015	-750	QL	2.5	1	8.2	-1	1.2	0	0.304	2	2.067	1	6.809	1	2637	41	5.9
25741.8	10000	41.9810	93.1008	-751	QL	2.4	1	7.9	-1	1.2	0	0.307	2	1.8[illegible]	1	6.169	0	2617	53	5.9
25741.7	10000	41.9810	93.1001	-751	QL	2.3	1	7.3	-1	1.2	0	0.317	2	1.804	1	5.694	-1	2588	41	5.9
25741.6	10000	41.9810	93.0994	-752	QL	2.4	1	7.0	-1	1.2	0	0.351	2	1.886	1	5.377	-1	2603	49	5.9
25741.5	10000	41.9810	93.0987	-753	QL	2.5	1	6.8	-1	1.2	0	0.365	2	1.914	1	5.242	-1	2604	51	5.9
25741.4	10000	41.9810	93.0980	-754	QL	2.4	1	7.1	-1	1.2	0	0.349	2	1.838	1	5.260	-2	2606	48	5.9
25741.3	10000	41.9810	93.0973	-754	QL	2.7	1	7.2	-1	1.2	0	0.382	2	2.096	1	5.492	-1	2602	33	5.9
25741.2	10000	41.9810	93.0966	-754	QL	2.5	1	7.3	-1	1.2	0	0.344	2	1.954	1	5.682	-1	2576	44	5.9
25741.1	10000	41.9810	93.0959	-755	QL	2.6	1	7.5	-1	1.2	0	0.342	2	2.050	1	5.996	-1	2577	51	6.0
25741.0	10000	41.9810	93.0952	-755	QL	2.7	1	7.2	-1	1.2	0	0.390	2	2.236	1	5.741	-1	2583	48	6.0
25740.9	10000	41.9809	93.0945	-756	QL	2.6	1	7.4	-1	1.2	0	0.365	2	2.193	1	6.009	0	2562	41	6.0
25740.8	10000	41.9809	93.0938	-757	QL	2.6	1	7.3	-1	1.2	0	0.359	2	2.251	1	6.266	0	2533	52	6.0
25740.7	10000	41.9809	93.0931	-758	QL	2.6	1	7.3	-1	1.2	0	0.352	2	2.181	1	6.205	0	2528	50	6.0
25740.6	10000	41.9809	93.0924	-758	QL	2.5	1	6.8	-1	1.1	0	0.364	2	2.165	1	5.953	0	2527	46	6.0

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25740.5	10000	41.9809	93.0917	-759	QL	2.8	1	6.6	-1	1.1	0	0.431	1	2.467	1	5.724	-1	2530	54	6.0
25740.4	10000	41.9809	93.0910	-759	QL	2.5	0	6.5	-1	1.2	0	0.389	0	2.149	0	5.521	-1	2533	49	6.0
25740.3	10000	41.9809	93.0903	-760	QL	2.4	0	6.3	-1	1.2	0	0.373	0	2.002	0	5.361	-1	2531	46	6.0
25740.2	10000	41.9809	93.0896	-760	QL	2.2	-1	6.1	-2	1.2	0	0.356	0	1.875	-1	5.273	-2	2530	44	6.0
25740.1	10000	41.9809	93.0889	-760	QL	2.2	-1	6.6	-1	1.2	0	0.339	0	1.910	-1	5.641	-1	2554	52	6.0
25740.0	10000	41.9809	93.0882	-761	QL	2.1	-1	7.0	0	1.1	0	0.295	-1	1.815	-1	6.157	0	2551	45	6.1
25739.9	10000	41.9808	93.0875	-762	QL	2.2	-1	7.1	0	1.2	0	0.304	-1	1.826	-1	6.013	0	2552	46	6.1
25739.8	10000	41.9808	93.0868	-762	QL	1.7	-2	7.2	0	1.1	0	0.237	-2	1.479	-2	6.246	0	2545	46	6.1
25739.7	10000	41.9808	93.0861	-762	QL	2.0	-1	7.4	0	1.1	0	0.275	-1	1.806	-1	6.569	1	2538	60	6.1
25739.6	10000	41.9808	93.0854	-762	QL	1.8	-2	7.8	1	1.1	-1	0.231	-2	1.613	-1	6.987	1	2540	51	6.1
25739.5	10000	41.9808	93.0847	-763	QL	2.2	-1	7.7	1	1.1	-1	0.287	-1	2.010	0	6.994	1	2540	46	6.1
25739.4	10000	41.9808	93.0840	-763	QL	2.0	-1	7.4	0	1.1	-1	0.276	-1	1.846	-1	6.683	1	2542	49	6.1
25739.3	10000	41.9808	93.0833	-763	QL	2.3	-1	7.2	0	1.1	-1	0.325	0	2.091	0	6.443	0	2562	43	6.1
25739.2	10000	41.9808	93.0826	-764	QL	2.1	-1	7.7	1	1.1	0	0.277	-1	1.885	-1	6.800	1	2567	55	6.1
25739.1	10000	41.9808	93.0819	-764	QL	2.5	0	7.6	0	1.2	0	0.325	0	2.036	0	6.257	0	2593	57	6.1
25739.0	10000	41.9808	93.0812	-765	QL	2.3	-1	7.3	0	1.2	0	0.323	-1	1.958	-1	6.056	0	2613	53	6.1
25738.9	10000	41.9807	93.0805	-765	QL	2.2	-1	7.4	0	1.2	1	0.299	-1	1.790	-1	5.983	0	2626	47	6.2
25738.8	10000	41.9807	93.0798	-766	QL	1.9	-1	8.0	1	1.3	1	0.239	-2	1.478	-2	6.184	0	2653	41	6.2
25738.7	10000	41.9807	93.0791	-766	QL	1.7	-2	7.8	1	1.3	1	0.218	-2	1.301	-2	5.964	0	2669	43	6.2
25738.6	10000	41.9807	93.0784	-766	QL	2.0	-1	8.1	1	1.4	2	0.240	-2	1.438	-2	5.984	0	2667	44	6.2
25738.5	10000	41.9807	93.0777	-766	QL	2.0	-1	7.6	1	1.3	1	0.261	-1	1.516	-2	5.812	-1	2658	57	6.2
25738.4	10000	41.9807	93.0770	-766	QL	1.8	-2	7.7	1	1.3	1	0.233	-2	1.427	-2	6.133	0	2653	51	6.2
25738.3	10000	41.9807	93.0763	-767	QL	1.7	-2	8.1	1	1.3	1	0.216	-2	1.372	-2	6.363	0	2652	46	6.2
25738.2	10000	41.9807	93.0756	-766	QL	2.0	-1	7.8	1	1.3	1	0.261	-1	1.617	-1	6.196	0	2665	44	6.2
25738.1	10000	41.9807	93.0749	-766	QL	2.1	-1	7.6	0	1.3	1	0.279	-1	1.680	-1	6.027	0	2649	51	6.2
25738.0	10000	41.9807	93.0742	-767	QL	2.2	-1	8.1	1	1.3	1	0.273	-1	1.739	-1	6.368	0	2642	36	6.2
25737.9	10000	41.9806	93.0735	-767	QL	1.9	-2	7.7	1	1.3	1	0.233	-2	1.513	-2	6.494	0	2645	55	6.2
25737.8	10000	41.9806	93.0728	-767	QL	2.2	-1	8.1	1	1.3	1	0.251	-1	1.762	-1	7.034	0	2670	51	6.2
25737.7	10000	41.9806	93.0721	-768	QL	2.3	-1	8.6	1	1.3	1	0.254	-1	1.844	-1	7.259	0	2670	61	6.2
25737.6	10000	41.9806	93.0714	-768	QL	2.1	-1	8.0	1	1.3	1	0.233	-2	1.708	-1	7.342	0	2661	56	6.2
25737.5	10000	41.9806	93.0707	-768	QL	2.5	-1	8.8	1	1.3	1	0.285	-1	2.133	-1	7.480	0	2663	38	6.2
25737.4	10000	41.9806	93.0700	-768	QL	2.4	-1	8.8	1	1.3	1	0.277	-1	2.065	-1	7.468	0	2658	51	6.2
25737.3	10000	41.9806	93.0693	-768	QL	2.8	-1	8.5	1	1.3	1	0.336	-1	2.538	-1	7.560	0	2654	51	6.2
25737.2	10000	41.9806	93.0686	-768	QL	2.9	-1	8.2	1	1.3	1	0.385	-1	2.890	-1	7.498	0	2659	51	6.2
25737.1	10000	41.9806	93.0679	-768	QL	2.7	-1	7.6	1	1.3	1	0.381	-1	2.552	-1	6.707	0	2652	53	6.2
25736.9	10000	41.9805	93.0665	-768	QL	3.0	-1	7.7	1	1.3	1	0.359	-1	2.496	-1	6.943	0	2660	45	6.2
25736.8	10000	41.9805	93.0658	-769	QL	2.5	-1	7.6	1	1.3	1	0.391	-1	2.597	-1	6.639	0	2679	47	6.2
25736.7	10000	41.9805	93.0650	-769	QL	2.6	-1	7.3	1	1.2	1	0.338	-1	2.104	-1	6.231	0	2670	44	6.2
25736.6	10000	41.9805	93.0643	-769	QL	2.3	-1	7.3	1	1.2	1	0.362	-1	2.234	-1	6.172	0	2683	37	6.2
25736.5	10000	41.9805	93.0637	-769	QL	2.0	-1	7.2	1	1.2	1	0.311	-1	1.886	-1	6.063	0	2675	52	6.2
25736.4	10000	41.9805	93.0630	-769	QL	2.1	-1	7.5	1	1.2	1	0.276	-1	1.623	-1	6.002	0	2659	44	6.2
25736.3	10000	41.9805	93.0623	-769	QL	1.4	-2	6.6	0	1.2	1	0.258	-1	1.769	-1	6.154	0	2659	62	6.2
25736.2	10000	41.9805	93.0616	-770	QL	2.5	-1	6.9	1	1.2	1	0.372	-1	2.106	-1	5.657	0	2639	61	6.2
25736.1	10000	41.9805	93.0609	-770	QL	2.3	-1	7.2	1	1.2	1	0.325	-1	2.284	-1	5.937	0	2630	40	6.2
25736.0	10000	41.9805	93.0602	-770	QL	2.6	-1	7.3	1	1.2	1	0.358	-1	2.509	-1	6.448	0	2609	37	6.2
25735.9	10000	41.9804	93.0594	-770	QL	2.3	-1	6.9	1	1.2	1	0.323	-1	2.184	-1	6.762	0	2602	48	6.2
25735.8	10000	41.9804	93.0587	-770	QL	2.3	-1	7.2	1	1.2	1	0.316	-1	2.213	-1	6.996	0	2589	43	6.2
25735.7	10000	41.9804	93.0580	-769	QL	2.3	-1	7.2	1	1.2	1	0.358	-1	2.526	-1	7.057	0	2582	40	6.2
25735.6	10000	41.9804	93.0573	-769	QL	2.2	-1	7.3	1	1.1	1	0.329	-1	2.346	-1	7.134	0	2567	44	6.2
25735.5	10000	41.9804	93.0566	-770	QL	2.0	-1	7.7	1	1.1	1	0.257	-1	1.880	-1	7.309	0	2573	44	6.2
25735.4	10000	41.9804	93.0560	-772	QL	1.8	-2	7.6	1	1.1	1	0.237	-2	1.670	-1	7.034	0	2564	40	6.2
25735.3	10000	41.9804	93.0553	-774	QL	1.8	-2	7.6	1	1.1	1	0.234	-2	1.628	-1	6.968	1	2586	47	6.2

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25735.2	10000	41.9804	93.0546	-775	QL	2.2	-1	7.3	0	1.1	-1	0.303	-1	1.953	-1	6.437	0	2590	38	6.2
25735.1	10000	41.9804	93.0538	-776	QL	2.3	-1	7.1	0	1.2	0	0.323	-1	1.970	-1	6.091	0	2607	45	6.2
25735.0	10000	41.9804	93.0531	-776	QL	2.0	-1	7.0	0	1.2	0	0.283	-1	1.677	-1	5.927	0	2622	37	6.2
25734.9	10000	41.9803	93.0524	-776	QL	2.2	-1	7.2	0	1.2	0	0.307	-1	1.838	-1	5.996	0	2661	46	6.2
25734.8	10000	41.9803	93.0517	-776	QL	2.3	-1	7.0	0	1.2	1	0.325	0	1.840	-1	5.656	-1	2657	57	6.2
25734.7	10000	41.9803	93.0510	-777	QL	2.5	0	7.0	0	1.2	1	0.361	0	2.033	0	5.639	-1	2671	62	6.2
25734.6	10000	41.9803	93.0503	-778	QL	2.5	0	7.0	0	1.3	1	0.360	0	2.018	0	5.604	-1	2677	52	6.2
25734.5	10000	41.9803	93.0496	-779	QL	2.3	-1	7.3	0	1.2	0	0.321	-1	1.965	-1	6.116	0	2686	58	6.2
25734.4	10000	41.9803	93.0489	-779	QL	2.3	-1	7.7	1	1.2	0	0.302	-1	1.927	-1	6.374	0	2686	47	6.2
25734.3	10000	41.9803	93.0482	-779	QL	2.7	0	7.8	1	1.2	0	0.342	0	2.247	0	6.572	1	2698	46	6.2
25734.2	10000	41.9803	93.0475	-780	QL	2.5	0	7.7	1	1.2	0	0.323	-1	2.164	0	6.7[illegible]	1	2678	52	6.1
25734.1	10000	41.9803	93.0468	-780	QL	2.8	1	7.8	1	1.2	0	0.359	0	2.391	0	6.658	1	2696	57	6.1
25734.0	10000	41.9802	93.0461	-780	QL	2.4	0	7.9	1	1.2	0	0.306	-1	2.094	0	6.845	1	2692	48	6.1
25733.9	10000	41.9802	93.0454	-780	QL	2.2	-1	8.1	1	1.2	0	0.269	-1	1.794	-1	6.679	1	2690	52	6.1
25733.8	10000	41.9802	93.0447	-780	QL	2.5	0	8.0	1	1.2	1	0.312	-1	2.024	0	6.489	0	2694	40	6.1
25733.7	10000	41.9802	93.0440	-781	QL	2.5	0	7.7	1	1.3	1	0.328	0	2.0[illegible]	0	6.122	0	2714	54	6.1
25733.6	10000	41.9802	93.0433	-780	QL	2.7	0	7.7	1	1.2	1	0.351	0	2.166	0	6.174	0	2720	59	6.1
25733.5	10000	41.9802	93.0426	-781	QL	2.8	0	7.4	0	1.3	1	0.372	0	2.133	0	5.740	-1	2731	43	6.1
25733.4	10000	41.9802	93.0419	-781	QL	2.2	-1	7.5	0	1.3	1	0.296	-1	1.706	-1	5.766	-1	2723	42	6.1
25733.3	10000	41.9802	93.0412	-780	QL	2.3	-1	7.6	0	1.3	2	0.310	-1	1.749	-1	5.649	-1	2738	58	6.1
25733.2	10000	41.9802	93.0405	-781	QL	2.8	0	7.6	1	1.3	1	0.365	0	2.113	0	5.795	-1	2738	38	6.1
25733.1	10000	41.9802	93.0398	-781	QL	2.6	0	7.7	1	1.3	1	0.337	0	2.000	0	5.930	0	2713	39	6.1
25733.0	10000	41.9801	93.0391	-781	QL	2.7	0	7.4	0	1.3	1	0.365	0	2.127	0	5.826	-1	2672	57	6.0
25732.9	10000	41.9801	93.0384	-779	QL	2.1	-1	7.0	0	1.3	1	0.302	-1	1.690	-1	5.598	-1	2604	51	6.0
25732.8	10000	41.9801	93.0377	-777	QL	2.1	-1	7.2	0	1.2	0	0.296	-1	1.792	-1	6.048	0	2545	41	6.0
25732.7	10000	41.9801	93.0370	-777	QL	2.3	-1	7.0	0	1.2	0	0.323	-1	1.957	-1	6.065	0	2489	57	6.0
25732.6	10000	41.9801	93.0363	-779	QL	2.3	-1	6.9	-1	1.1	-1	0.336	0	2.115	0	6.296	0	2423	6[illegible]	6.0
25732.5	10000	41.9801	93.0356	-781	QL	1.8	-2	6.6	-1	1.1	-2	0.279	-1	1.795	-1	6.441	0	2358	6[illegible]	6.0
25732.4	10000	41.9801	93.0349	-781	QL	1.6	-2	6.4	-1	1.1	-2	0.253	-2	1.514	-2	5.987	0	2306	57	6.0
25732.3	10000	41.9801	93.0342	-781	QL	1.7	-2	6.5	-1	1.0	-1	0.265	-1	1.664	-1	6.267	0	2283	47	6.0
25732.2	10000	41.9801	93.0335	-781	QL	1.8	-2	6.6	-1	1.0	-1	0.275	-1	1.750	-1	6.364	0	2283	39	6.0
25732.1	10000	41.9801	93.0328	-781	QL	1.8	-2	6.5	-1	1.0	-2	0.285	-1	1.810	-1	6.344	0	2272	42	6.0
25732.0	10000	41.9801	93.0321	-781	QL	2.1	-1	6.8	-1	1.0	-2	0.311	-1	2.101	0	6.756	0	2287	41	6.0
25731.9	10000	41.9801	93.0314	-782	QL	2.0	-1	6.7	-1	1.0	-2	0.303	-1	2.112	0	6.965	0	2284	38	5.9
25731.8	10000	41.9801	93.0307	-782	QL	2.2	-1	6.8	-1	1.0	-2	0.320	-1	2.201	0	6.871	0	2302	55	5.9
25731.7	10000	41.9801	93.0300	-783	QL	2.3	-1	6.8	-1	0.9	-3	0.334	-1	2.471	0	7.401	0	2314	52	5.9
25731.6	10000	41.9801	93.0293	-782	QL	2.2	-1	6.8	-1	1.0	-2	0.314	-1	2.268	0	7.230	0	2328	53	5.9
25731.5	10000	41.9801	93.0286	-782	QL	2.2	-1	6.8	-1	1.0	-2	0.333	0	2.299	0	6.908	0	2343	41	5.9
25731.4	10000	41.9801	93.0280	-782	QL	2.4	0	6.8	-1	1.0	-2	0.351	0	2.376	0	6.761	1	2369	61	5.9
25731.3	10000	41.9801	93.0273	-782	QL	2.4	0	6.8	-1	1.1	-2	0.363	0	2.314	0	6.379	1	2387	42	5.9
25731.2	10000	41.9802	93.0266	-783	QL	2.5	0	6.9	-1	1.2	-1	0.386	0	2.267	0	5.869	1	2430	47	5.9
25731.1	10000	41.9802	93.0259	-782	QL	2.5	0	6.9	-1	1.2	0	0.363	0	2.150	0	5.915	1	2477	49	5.9
25731.0	10000	41.9802	93.0252	-782	QL	2.5	0	7.0	-1	1.2	0	0.327	-1	1.864	-1	5.698	1	2506	50	5.9
25730.9	10000	41.9802	93.0245	-782	QL	2.5	0	7.1	-1	1.2	0	0.298	-1	1.758	-1	5.910	0	2524	36	5.9
25730.8	10000	41.9802	93.0238	-782	QL	2.5	0	7.1	-1	1.2	0	0.303	-1	1.947	-1	6.426	1	2551	59	5.8
25730.7	10000	41.9802	93.0231	-782	QL	2.5	0	7.2	-1	1.2	0	0.276	-1	1.804	-1	6.543	1	2572	42	5.8
25730.6	10000	41.9802	93.0224	-783	QL	2.5	0	7.3	-1	1.2	0	0.289	-1	1.892	-1	6.558	1	2594	44	5.8
25730.5	10000	41.9803	93.0217	-783	QL	2.5	0	7.3	-1	1.2	0	0.281	-1	1.964	-1	6.981	1	2605	47	5.8
25730.4	10000	41.9803	93.0210	-782	QL	2.5	0	7.3	-1	1.2	0	0.282	-1	1.854	-1	6.580	1	2600	46	5.8
25730.3	10000	41.9803	93.0203	-782	QL	2.6	0	7.3	-1	1.2	0	0.325	-1	2.112	0	6.499	1	2631	38	5.8
25730.2	10000	41.9803	93.0196	-782	QL	2.7	0	7.3	-1	1.2	0	0.324	-1	2.129	0	6.571	1	2666	45	5.8
25730.1	10000	41.9803	93.0189	-782	QL	2.6	0	7.2	-1	1.3	1	0.315	-1	1.976	-1	6.[illegible]80	0	2690	46	5.8

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25730.0	10000	41.9803	93.0182	-782	QL	2.9	1	8.2	1	1.4	2	0.356	0	2.150	0	6.037	0	2701	52	5.8
25729.9	10000	41.9803	93.0175	-782	QL	2.9	1	8.8	2	1.3	2	0.328	0	2.150	0	6.550	1	2699	47	5.8
25729.8	10000	41.9803	93.0168	-782	QL	2.6	0	8.9	3	1.3	2	0.288	-1	1.917	-1	6.659	1	2704	43	5.7
25729.7	10000	41.9803	93.0161	-782	QL	2.9	1	8.9	3	1.3	1	0.324	-1	2.201	0	6.793	1	2717	47	5.7
25729.6	10000	41.9804	93.0154	-783	QL	2.7	0	9.1	3	1.3	1	0.301	-1	2.087	0	6.945	1	2709	34	5.7
25729.5	10000	41.9804	93.0147	-782	QL	2.9	1	8.9	3	1.3	1	0.321	-1	2.192	0	6.831	1	2688	45	5.7
25729.4	10000	41.9804	93.0140	-782	QL	3.2	1	9.1	3	1.3	1	0.347	0	2.472	1	7.126	2	2683	63	5.7
25729.3	10000	41.9804	93.0133	-782	QL	2.8	1	9.0	3	1.2	1	0.312	-1	2.300	0	7.367	2	2673	48	5.7
25729.2	10000	41.9804	93.0126	-782	QL	2.7	0	8.4	2	1.2	0	0.318	-1	2.210	0	6.941	1	2653	50	5.7
25729.1	10000	41.9804	93.0119	-782	QL	3.2	1	8.0	1	1.2	0	0.400	1	2.614	1	6.539	1	2643	55	5.7
25729.0	10000	41.9804	93.0112	-782	QL	3.2	1	8.6	2	1.2	0	0.368	0	2.667	1	7.246	2	2631	47	5.7
25728.9	10000	41.9805	93.0105	-782	QL	3.2	1	8.8	2	1.1	0	0.359	0	2.768	1	7.705	3	2621	49	5.7
25728.8	10000	41.9805	93.0098	-782	QL	3.0	1	8.6	2	1.1	-1	0.353	0	2.773	1	7.850	3	2620	56	5.7
25728.7	10000	41.9805	93.0091	-781	QL	2.8	1	8.6	2	1.1	0	0.327	0	2.474	1	7.555	2	2598	53	5.6
25728.6	10000	41.9805	93.0084	-781	QL	2.7	0	8.9	2	1.2	0	0.307	-1	2.366	0	7.705	3	2596	47	5.6
25728.5	10000	41.9805	93.0077	-781	QL	3.0	1	8.7	2	1.2	0	0.346	0	2.522	1	7.282	2	2593	40	5.6
25728.4	10000	41.9805	93.0070	-781	QL	2.6	0	8.5	2	1.2	0	0.306	-1	2.177	0	7.127	2	2578	55	5.6
25728.3	10000	41.9805	93.0063	-781	QL	2.8	0	7.9	1	1.2	0	0.348	0	2.303	0	6.623	1	2575	37	5.6
25728.2	10000	41.9805	93.0056	-781	QL	2.7	0	7.6	1	1.2	0	0.356	0	2.264	0	6.362	0	2570	44	5.6
25728.1	10000	41.9806	93.0050	-780	QL	2.9	1	7.2	0	1.2	0	0.399	1	2.343	0	5.878	-1	2567	37	5.6
25728.0	10000	41.9806	93.0043	-781	QL	2.7	0	7.2	0	1.2	0	0.377	0	2.255	0	5.982	0	2568	51	5.6
25727.9	10000	41.9806	93.0036	-781	QL	2.9	1	7.5	0	1.3	1	0.384	0	2.247	0	5.848	-1	2581	51	5.6
25727.8	10000	41.9806	93.0029	-780	QL	2.8	1	7.9	1	1.3	1	0.355	0	2.207	0	6.213	0	2592	50	5.6
25727.7	10000	41.9806	93.0022	-779	QL	3.0	1	8.0	1	1.3	1	0.372	0	2.319	0	6.228	0	2606	57	5.6
25727.6	10000	41.9806	93.0015	-779	QL	2.7	0	8.1	1	1.3	1	0.337	0	2.117	0	6.276	0	2590	58	5.5
25727.5	10000	41.9806	93.0008	-779	QL	3.1	1	8.2	2	1.3	1	0.372	0	2.326	0	6.254	0	2588	42	5.5
25727.4	10000	41.9806	93.0001	-779	QL	3.0	1	8.5	2	1.3	2	0.352	0	2.245	0	6.373	0	2582	39	5.5
25727.3	10000	41.9806	92.9994	-779	QL	3.1	1	8.4	2	1.3	2	0.368	0	2.330	0	6.324	0	2559	51	5.5
25727.2	10000	41.9807	92.9987	-778	QL	3.0	1	7.9	1	1.3	1	0.383	0	2.334	0	6.092	0	2527	43	5.5
25727.1	10000	41.9807	92.9980	-778	QL	3.0	1	7.7	1	1.3	1	0.386	0	2.277	0	5.892	-1	2531	45	5.5
25727.0	10000	41.9807	92.9973	-778	QL	2.9	1	7.9	1	1.3	1	0.372	0	2.333	0	6.266	0	2521	42	5.5
25726.9	10000	41.9807	92.9966	-777	QL	3.2	1	7.9	1	1.3	1	0.399	1	2.444	1	6.126	0	2543	52	5.5
25726.8	10000	41.9807	92.9959	-777	QL	3.3	1	8.1	1	1.3	1	0.410	1	2.586	1	6.309	0	2551	42	5.5
25726.7	10000	41.9807	92.9952	-778	QL	3.3	1	8.2	1	1.3	1	0.398	1	2.580	1	6.477	0	2553	49	5.5
25726.6	10000	41.9807	92.9945	-778	QL	3.2	1	7.7	1	1.3	1	0.412	1	2.510	1	6.088	0	2567	44	5.5
25726.5	10000	41.9808	92.9938	-777	QL	3.2	1	8.0	1	1.3	1	0.403	1	2.544	1	6.305	0	2582	45	5.5
25726.4	10000	41.9808	92.9931	-776	QL	3.2	1	8.0	1	1.3	1	0.395	1	2.453	1	6.202	0	2574	44	5.4
25726.3	10000	41.9808	92.9924	-775	QL	3.3	2	7.5	0	1.3	1	0.431	1	2.607	1	6.042	0	2559	54	5.4
25726.2	10000	41.9808	92.9917	-775	QL	3.0	2	7.6	1	1.2	0	0.389	1	2.457	1	6.314	0	2522	44	5.4
25726.1	10000	41.9808	92.9910	-774	QL	2.6	1	7.3	0	1.2	0	0.355	0	2.164	0	6.100	0	2499	52	5.4
25726.0	10000	41.9808	92.9903	-773	QL	2.6	1	7.4	0	1.2	0	0.352	0	2.177	0	6.181	0	2486	51	5.4
25725.9	10000	41.9808	92.9896	-773	QL	2.4	1	7.5	0	1.2	0	0.318	-1	2.020	0	6.358	0	2473	44	5.4
25725.8	10000	41.9808	92.9889	-773	QL	2.3	1	7.2	0	1.2	0	0.315	-1	1.946	-1	6.183	0	2448	44	5.4
25725.7	10000	41.9808	92.9882	-772	QL	2.2	1	7.4	0	1.1	0	0.313	-1	2.075	0	6.633	1	2428	52	5.4
25725.6	10000	41.9809	92.9875	-772	QL	2.2	1	7.5	0	1.2	0	0.290	-1	1.861	-1	6.426	0	2432	46	5.4
25725.5	10000	41.9809	92.9868	-772	QL	2.1	1	7.5	0	1.1	0	0.284	-1	1.891	-1	6.654	1	2415	46	5.4
25725.4	10000	41.9809	92.9861	-771	QL	2.5	1	7.4	0	1.2	0	0.334	0	2.137	0	6.395	0	2411	46	5.4
25725.3	10000	41.9809	92.9854	-771	QL	2.6	1	7.2	0	1.1	0	0.356	0	2.296	0	6.443	0	2381	56	5.4
25725.2	10000	41.9809	92.9847	-770	QL	2.7	1	7.2	0	1.1	0	0.379	0	2.515	0	6.644	1	2361	39	5.4
25725.1	10000	41.9809	92.9841	-769	QL	2.8	1	7.3	0	1.1	0	0.386	0	2.533	0	6.568	1	2369	53	5.3
25725.0	10000	41.9809	92.9834	-768	QL	2.7	0	7.2	0	1.1	0	0.376	0	2.430	0	6.462	1	2381	40	5.3
25724.9	10000	41.9809	92.9827	-768	QL	2.7	0	7.2	0	1.1	-1	0.378	0	2.474	1	6.539	1	2373	43	5.3

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25724.8	10000	41.9809	92.9820	-766	QL	2.8	0	7.0	0	1.1	-1	0.397	1	2.528	1	6.368	0	2377	46	5.3
25724.7	10000	41.9810	92.9813	-765	QL	2.7	0	6.8	-1	1.1	-1	0.397	1	2.512	1	6.323	0	2400	37	5.3
25724.6	10000	41.9810	92.9806	-765	QL	2.7	0	7.0	0	1.1	-1	0.388	0	2.410	0	6.206	0	2447	51	5.3
25724.5	10000	41.9810	92.9799	-765	QL	2.8	1	6.7	-1	1.1	-1	0.419	1	2.519	1	6.010	0	2499	40	5.3
25724.4	10000	41.9810	92.9792	-764	QL	3.1	1	6.9	-1	1.2	0	0.444	1	2.631	1	5.929	0	2523	38	5.3
25724.3	10000	41.9810	92.9785	-763	QL	3.1	1	6.8	-1	1.2	0	0.447	1	2.530	1	5.664	-1	2558	49	5.3
25724.2	10000	41.9810	92.9778	-762	QL	3.1	1	7.0	0	1.2	0	0.437	1	2.507	1	5.733	-1	2604	43	5.3
25724.1	10000	41.9810	92.9771	-761	QL	3.4	2	6.9	-1	1.3	1	0.495	2	2.644	1	5.341	-1	2651	64	5.3
25724.0	10000	41.9811	92.9764	-761	QL	3.3	1	7.1	1	1.3	1	0.423	1	2.509	1	5.933	0	2660	50	5.3
25723.9	10000	41.9811	92.9757	-760	QL	3.3	2	7.0	1	1.3	1	0.430	1	2.494	1	5.806	-1	2669	54	5.3
25723.8	10000	41.9811	92.9750	-759	QL	3.3	2	7.7	1	1.3	1	0.429	1	2.510	1	5.849	-1	2650	43	5.3
25723.7	10000	41.9811	92.9743	-759	QL	3.4	2	7.6	0	1.2	1	0.443	1	2.698	1	6.085	0	2645	46	5.3
25723.6	10000	41.9811	92.9736	-758	QL	3.5	2	7.8	1	1.2	1	0.443	1	2.821	1	6.365	0	2626	52	5.3
25723.5	10000	41.9811	92.9729	-757	QL	3.8	3	7.6	1	1.2	0	0.492	2	3.219	2	6.548	1	2587	44	5.2
25723.4	10000	41.9811	92.9722	-756	QL	3.6	2	7.9	1	1.1	-1	0.452	1	3.207	2	7.095	2	2569	49	5.2
25723.3	10000	41.9811	92.9715	-756	QL	3.7	2	7.2	0	1.1	-1	0.516	2	3.509	3	6.802	1	2556	48	5.2
25723.2	10000	41.9811	92.9708	-754	QL	3.8	3	7.2	0	1.1	-1	0.531	3	3.616	3	6.810	1	2542	71	5.2
25723.1	10000	41.9812	92.9701	-753	QL	3.8	3	7.4	0	1.1	-1	0.506	2	3.470	3	6.857	1	2547	49	5.2
25723.0	10000	41.9812	92.9694	-752	QL	3.4	2	7.6	1	1.1	-1	0.452	1	3.082	2	6.825	1	2538	68	5.2
25722.9	10000	41.9812	92.9687	-751	QL	3.4	2	7.6	0	1.1	-1	0.449	1	3.050	2	6.792	1	2528	46	5.2
25722.8	10000	41.9812	92.9680	-750	QL	3.1	1	7.9	1	1.2	0	0.390	0	2.580	1	6.616	1	2547	56	5.2
25722.7	10000	41.9812	92.9673	-748	QL	3.4	2	8.0	1	1.2	0	0.425	1	2.782	1	6.541	1	2562	58	5.2
25722.6	10000	41.9812	92.9666	-748	QL	3.4	2	8.1	1	1.3	1	0.417	1	2.691	1	6.448	0	2576	58	5.2
25722.5	10000	41.9812	92.9659	-747	QL	3.3	2	8.2	1	1.3	1	0.406	1	2.672	1	6.574	1	2582	40	5.2
25722.4	10000	41.9812	92.9652	-747	QL	3.6	2	8.3	1	1.2	1	0.436	1	3.030	2	6.956	1	2600	52	5.2
25722.3	10000	41.9813	92.9645	-747	QL	3.9	2	8.1	1	1.2	1	0.479	2	3.438	3	7.182	2	2612	44	5.2
25722.2	10000	41.9813	92.9638	-748	QL	3.7	2	7.8	1	1.2	1	0.473	2	3.164	3	6.683	1	2635	44	5.2
25722.1	10000	41.9813	92.9632	-747	QL	4.0	3	7.4	1	1.1	1	0.537	2	3.473	3	6.464	0	2642	60	5.2
25722.0	10000	41.9813	92.9624	-747	QL	3.9	3	6.8	0	1.2	0	0.570	2	3.196	3	5.603	-1	2656	50	5.2
25721.9	10000	41.9813	92.9617	-746	QL	4.0	3	7.1	1	1.2	1	0.563	2	3.313	3	5.886	-1	2662	43	5.2
25721.8	10000	41.9813	92.9611	-746	QL	3.8	3	7.0	1	1.2	1	0.542	2	3.174	3	5.859	-1	2659	44	5.2
25721.7	10000	41.9813	92.9604	-745	QL	3.6	2	6.7	0	1.3	0	0.529	2	2.827	2	5.349	-1	2640	61	5.2
25721.6	10000	41.9813	92.9597	-745	QL	3.6	2	6.6	0	1.3	0	0.541	2	2.719	2	5.023	-2	2636	45	5.2
25721.5	10000	41.9814	92.9590	-744	QL	3.9	3	6.9	0	1.2	0	0.567	2	3.118	3	5.501	-1	2611	46	5.2
25721.4	10000	41.9814	92.9583	-741	QL	3.8	3	6.9	0	1.2	0	0.549	2	3.041	3	5.541	-1	2600	40	5.2
25721.3	10000	41.9814	92.9576	-741	QL	4.2	3	7.4	1	1.3	1	0.463	1	2.827	2	6.110	0	2579	48	5.2
25721.2	10000	41.9814	92.9569	-741	QL	4.3	3	7.5	1	1.3	1	0.428	1	2.545	1	5.947	0	2574	49	5.2
25721.1	10000	41.9814	92.9562	-742	QL	4.5	3	7.6	1	1.2	1	0.429	1	2.562	1	5.975	0	2568	47	5.2
25721.0	10000	41.9814	92.9555	-742	QL	4.5	3	7.7	1	1.2	1	0.452	1	2.831	2	6.270	0	2583	41	5.2
25720.9	10000	41.9814	92.9548	-741	QL	4.5	3	7.8	1	1.2	1	0.453	1	2.910	2	6.418	0	2579	52	5.2
25720.8	10000	41.9814	92.9541	-740	QL	4.6	3	7.5	1	1.2	1	0.479	2	3.000	3	6.265	0	2595	41	5.2
25720.7	10000	41.9814	92.9534	-739	QL	4.7	3	7.4	1	1.1	-1	0.497	2	3.134	3	6.300	0	2606	49	5.2
25720.6	10000	41.9815	92.9527	-739	QL	4.9	3	7.2	1	1.1	-1	0.549	2	3.503	3	6.377	0	2605	54	5.2
25720.5	10000	41.9815	92.9520	-738	QL	5.1	3	6.9	1	1.1	-1	0.586	2	3.737	3	6.379	0	2603	51	5.2
25720.4	10000	41.9815	92.9513	-738	QL	5.1	3	6.9	1	1.1	-1	0.602	2	3.839	3	6.380	0	2626	46	5.2
25720.3	10000	41.9815	92.9506	-738	QL	5.1	3	7.2	1	1.2	-1	0.538	2	3.274	3	6.086	0	2610	49	5.2
25720.2	10000	41.9815	92.9499	-738	QL	5.4	3	7.5	1	1.2	-1	0.469	1	2.821	2	6.013	0	2624	55	5.2
25720.1	10000	41.9815	92.9492	-738	QL	5.4	3	7.6	1	1.3	-1	0.446	1	2.723	2	6.100	0	2629	43	5.2
25720.0	10000	41.9815	92.9485	-738	QL	5.8	3	8.1	2	1.3	-1	0.349	1	2.171	1	6.223	0	2632	51	5.2
25719.9	10000	41.9815	92.9478	-738	QL	5.7	3	8.5	2	1.4	-1	0.313	1	1.961	-1	6.261	0	2646	47	5.2
25719.8	10000	41.9816	92.9471	-738	QL	5.6	3	8.5	2	1.4	-1	0.304	1	1.861	-1	6.118	0	2654	39	5.4
25719.7	10000	41.9816	92.9464	-738	QL	5.6	3	8.5	2	1.3	-1	0.305	1	1.923	-1	6.312	0	2654	54	5.4

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25719.6	10000	41.9816	92.9457	-737	QL	2.4	0	8.3	2	1.3	1	0.295	-1	1.953	-1	6.623	1	2664	54	5.4
25719.5	10000	41.9816	92.9450	-737	QL	2.7	0	8.2	1	1.2	0	0.327	0	2.228	0	6.819	1	2666	54	5.4
25719.4	10000	41.9816	92.9443	-736	QL	2.9	1	7.9	1	1.2	0	0.373	0	2.422	0	6.498	1	2675	48	5.4
25719.3	10000	41.9816	92.9436	-736	QL	3.7	2	7.9	1	1.2	0	0.473	2	3.131	2	6.624	1	2687	54	5.4
25719.2	10000	41.9816	92.9429	-736	QL	4.0	3	7.4	0	1.2	0	0.540	3	3.385	3	6.268	0	2707	47	5.4
25719.1	10000	41.9816	92.9422	-736	QL	4.0	3	7.3	0	1.2	0	0.548	3	3.408	3	6.218	0	2705	51	5.4
25719.0	10000	41.9817	92.9415	-735	QL	3.9	3	7.1	0	1.2	0	0.557	3	3.348	3	6.014	0	2681	38	5.4
25718.9	10000	41.9817	92.9408	-735	QL	3.9	3	7.0	0	1.2	0	0.550	3	3.180	2	5.776	-1	2667	40	5.4
25718.8	10000	41.9817	92.9401	-733	QL	3.9	3	7.0	0	1.2	0	0.563	3	3.251	2	5.776	-1	2654	49	5.4
25718.7	10000	41.9817	92.9395	-731	QL	3.8	3	7.4	0	1.2	0	0.519	2	3.298	3	6.356	0	2631	58	5.5
25718.6	10000	41.9817	92.9388	-731	QL	3.8	3	7.1	0	1.1	-1	0.542	3	3.514	3	6.481	0	2602	36	5.5
25718.5	10000	41.9817	92.9380	-733	QL	3.7	2	7.4	0	1.0	-1	0.492	2	3.518	3	7.150	2	2572	54	5.5
25718.4	10000	41.9817	92.9374	-734	QL	3.7	3	7.6	0	1.0	-2	0.493	2	3.687	3	7.478	2	2573	55	5.5
25718.3	10000	41.9817	92.9367	-734	QL	3.7	2	7.6	0	1.0	-1	0.489	2	3.559	3	7.274	2	2592	52	5.5
25718.2	10000	41.9818	92.9360	-733	QL	3.7	2	7.5	0	1.1	-1	0.496	2	3.505	3	7.063	1	2611	48	5.5
25718.1	10000	41.9818	92.9353	-733	QL	3.6	2	8.0	1	1.1	-1	0.452	1	3.380	3	7.474	2	2621	50	5.5
25718.0	10000	41.9818	92.9346	-733	QL	3.6	2	8.1	1	1.1	0	0.440	1	3.164	2	7.183	2	2631	49	5.5
25717.9	10000	41.9818	92.9339	-732	QL	3.2	1	8.2	1	1.2	0	0.389	0	2.660	1	6.847	1	2636	49	5.5
25717.8	10000	41.9818	92.9332	-732	QL	3.2	1	7.7	1	1.2	0	0.412	1	2.695	1	6.534	1	2629	48	5.5
25717.7	10000	41.9818	92.9325	-732	QL	3.2	1	7.4	0	1.2	0	0.427	1	2.632	1	6.165	0	2611	41	5.6
25717.6	10000	41.9818	92.9318	-731	QL	3.2	1	7.5	0	1.2	0	0.422	1	2.735	1	6.482	0	2588	47	5.6
25717.5	10000	41.9818	92.9311	-729	QL	3.2	1	7.4	0	1.1	-1	0.438	1	2.889	2	6.601	1	2580	49	5.6
25717.4	10000	41.9818	92.9304	-728	QL	3.4	2	6.9	-1	1.2	0	0.491	2	2.851	1	5.812	-1	2588	38	5.6
25717.3	10000	41.9818	92.9297	-728	QL	3.2	1	6.5	-1	1.2	0	0.494	2	2.773	1	5.615	-1	2593	56	5.6
25717.2	10000	41.9819	92.9290	-730	QL	3.4	2	6.5	-1	1.1	-1	0.521	2	3.010	2	5.775	-1	2604	47	5.6
25717.1	10000	41.9819	92.9283	-730	QL	3.5	2	6.6	-1	1.2	-1	0.535	3	3.031	2	5.667	-1	2626	57	5.6
25717.0	10000	41.9819	92.9276	-730	QL	3.4	2	7.0	0	1.1	0	0.491	2	3.001	2	6.116	0	2646	47	5.6
25716.9	10000	41.9819	92.9269	-730	QL	3.2	1	6.9	-1	1.2	0	0.466	2	2.646	1	5.679	-1	2668	40	5.6
25716.8	10000	41.9819	92.9262	-729	QL	3.4	2	6.9	-1	1.2	0	0.498	2	2.888	2	5.797	-1	2666	55	5.6
25716.7	10000	41.9819	92.9255	-729	QL	3.4	2	7.1	0	1.1	0	0.479	2	2.976	2	6.208	0	2661	40	5.6
25716.6	10000	41.9819	92.9248	-728	QL	3.6	2	7.3	0	1.2	0	0.489	2	2.989	2	6.117	0	2665	62	5.7
25716.5	10000	41.9819	92.9241	-728	QL	3.4	2	7.4	0	1.2	0	0.464	2	2.840	1	6.121	0	2651	55	5.7
25716.4	10000	41.9820	92.9234	-728	QL	3.2	1	7.6	0	1.2	0	0.413	1	2.630	1	6.373	0	2642	42	5.7
25716.3	10000	41.9820	92.9227	-728	QL	3.0	1	7.3	1	1.2	1	0.415	1	2.449	1	5.908	0	2651	41	5.7
25716.2	10000	41.9820	92.9220	-727	QL	2.9	1	7.5	1	1.3	1	0.424	1	2.509	1	5.922	0	2649	53	5.7
25716.1	10000	41.9820	92.9213	-728	QL	2.9	1	7.3	1	1.3	1	0.395	1	2.235	1	5.658	-1	2667	44	5.7
25716.0	10000	41.9820	92.9206	-728	QL	2.9	1	7.1	1	1.3	1	0.405	1	2.198	1	5.428	-1	2674	51	5.7
25715.9	10000	41.9820	92.9199	-728	QL	2.9	1	7.0	1	1.3	1	0.415	1	2.296	1	5.532	-1	2671	45	5.7
25715.8	10000	41.9820	92.9192	-728	QL	3.1	1	6.9	1	1.3	1	0.451	1	2.442	1	5.410	-1	2682	58	5.7
25715.7	10000	41.9820	92.9185	-728	QL	3.3	2	6.4	-1	1.2	1	0.521	2	2.682	1	5.145	-2	2667	50	5.7
25715.6	10000	41.9820	92.9178	-728	QL	3.4	2	6.3	-1	1.2	1	0.539	2	2.884	2	5.349	-1	2636	51	5.7
25715.5	10000	41.9821	92.9171	-728	QL	3.4	2	6.7	-1	1.1	0	0.597	3	3.122	2	5.228	-2	2621	52	5.7
25715.4	10000	41.9821	92.9165	-728	QL	3.7	2	6.5	-2	1.1	-1	0.616	3	3.556	3	5.776	-1	2592	43	5.7
25715.3	10000	41.9821	92.9158	-728	QL	3.6	2	6.5	-2	1.0	-2	0.614	4	3.612	3	5.882	-1	2552	49	5.7
25715.2	10000	41.9821	92.9151	-727	QL	3.4	2	6.5	-2	1.0	-2	0.614	4	3.493	3	5.692	-1	2515	51	5.7
25715.1	10000	41.9821	92.9144	-726	QL	3.1	2	6.5	-2	0.9	-2	0.562	3	3.274	2	5.823	-1	2483	34	5.7
25715.0	10000	41.9821	92.9137	-726	QL	2.9	1	6.5	-2	1.0	-2	0.525	3	3.057	2	5.822	-1	2463	54	5.7
25714.9	10000	41.9821	92.9129	-725	QL	2.8	1	6.4	-2	1.0	-2	0.483	3	2.815	2	5.833	-1	2478	37	5.7
25714.8	10000	41.9821	92.9122	-726	QL	3.0	1	6.5	-1	1.1	-1	0.465	2	2.724	2	5.859	-1	2497	51	5.8
25714.7	10000	41.9821	92.9115	-728	QL	2.7	1	6.5	-1	1.2	-1	0.415	2	2.328	1	5.607	-1	2528	34	5.8
25714.6	10000	41.9821	92.9108	-730	QL	2.7	0	6.9	-1	1.2	0	0.398	1	2.215	1	5.560	-1	2572	43	5.8
25714.5	10000	41.9821	92.9101	-730	QL	2.6	0	7.2	0	1.3	1	0.363	0	2.064	0	5.685	-1	2600	42	5.8

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25714.4	10000	41.9821	92.9094	-731	QL	2.7	0	7.5	0	1.3	1	0.359	0	2.084	0	5.797	-1	2631	48	5.8
25714.3	10000	41.9821	92.9087	-731	QL	2.6	0	8.2	1	1.3	2	0.320	-1	1.972	-1	6.161	0	2666	51	5.8
25714.2	10000	41.9822	92.9080	-732	QL	2.8	0	8.2	2	1.3	1	0.341	0	2.140	0	6.278	0	2657	39	5.8
25714.1	10000	41.9822	92.9073	-732	QL	2.6	0	8.0	1	1.2	1	0.325	0	2.094	0	6.446	0	2634	60	5.8
25714.0	10000	41.9822	92.9065	-733	QL	2.8	0	7.6	1	1.2	0	0.368	0	2.318	0	6.296	0	2613	33	5.8
25713.9	10000	41.9822	92.9058	-734	QL	2.9	1	7.3	0	1.2	0	0.394	1	2.493	1	6.327	0	2585	45	5.8
25713.8	10000	41.9822	92.9051	-734	QL	2.9	1	7.0	0	1.2	0	0.408	1	2.421	0	5.927	0	2591	53	5.8
25713.7	10000	41.9822	92.9044	-735	QL	2.9	1	7.0	0	1.2	0	0.416	1	2.443	1	5.877	-1	2581	44	5.8
25713.6	10000	41.9822	92.9037	-736	QL	3.2	1	6.4	-1	1.1	-1	0.490	2	2.827	1	5.774	-1	2552	48	5.8
25713.5	10000	41.9822	92.9030	-736	QL	2.9	1	6.4	-1	1.1	-1	0.463	2	2.624	1	5.668	-1	2542	50	5.8
25713.4	10000	41.9822	92.9023	-734	QL	2.9	1	6.4	-1	1.2	0	0.443	1	2.454	1	5.537	-1	2549	49	5.8
25713.3	10000	41.9822	92.9016	-732	QL	2.9	1	6.5	-1	1.1	0	0.443	1	2.520	1	5.693	-1	2539	59	5.8
25713.2	10000	41.9822	92.9008	-733	QL	2.8	1	6.9	-1	1.2	0	0.412	1	2.439	1	5.923	0	2544	54	5.8
25713.1	10000	41.9822	92.9001	-737	QL	3.0	1	7.2	0	1.1	-1	0.412	1	2.639	1	6.400	0	2528	58	5.8
25713.0	10000	41.9822	92.8994	-740	QL	3.2	1	6.9	-1	1.1	-1	0.466	2	2.870	2	6.161	0	2519	53	5.8
25712.9	10000	41.9822	92.8987	-741	QL	2.9	1	6.8	-1	1.2	0	0.420	1	2.467	1	5.879	-1	2528	51	5.8
25712.8	10000	41.9822	92.8980	-742	QL	2.7	0	6.6	-1	1.2	0	0.418	1	2.292	0	5.478	-1	2534	48	5.8
25712.7	10000	41.9822	92.8973	-744	QL	2.8	0	6.4	-1	1.2	0	0.431	1	2.334	0	5.421	-1	2539	48	5.8
25712.6	10000	41.9822	92.8966	-744	QL	2.6	0	6.5	-1	1.2	0	0.392	0	2.152	0	5.492	-1	2541	42	5.8
25712.5	10000	41.9822	92.8959	-745	QL	2.8	0	6.2	-2	1.2	0	0.443	1	2.300	0	5.193	-2	2543	49	5.8
25712.4	10000	41.9822	92.8951	-746	QL	2.6	0	6.2	-2	1.2	1	0.424	1	2.113	0	4.983	-2	2541	52	5.8
25712.3	10000	41.9822	92.8944	-747	QL	2.5	0	6.2	-2	1.2	1	0.406	1	2.051	0	5.058	-2	2552	47	5.8
25712.2	10000	41.9822	92.8937	-748	QL	2.6	0	6.2	-2	1.3	1	0.420	1	2.061	0	4.912	-2	2538	50	5.8
25712.1	10000	41.9822	92.8930	-748	QL	3.1	1	6.4	-1	1.2	0	0.482	2	2.564	1	5.324	-1	2521	44	5.7
25712.0	10000	41.9822	92.8923	-748	QL	3.3	2	6.2	-2	1.1	0	0.534	3	2.908	2	5.450	-1	2493	38	5.7
25711.9	10000	41.9822	92.8916	-748	QL	3.6	2	6.3	-2	1.2	0	0.577	3	3.151	2	5.461	-1	2498	50	5.7
25711.8	10000	41.9822	92.8909	-747	QL	3.4	2	6.3	-2	1.1	-1	0.536	3	3.038	2	5.671	-1	2468	43	5.7
25711.7	10000	41.9822	92.8902	-748	QL	3.1	1	6.1	-2	1.1	-1	0.510	3	2.903	2	5.695	-1	2434	58	5.7
25711.6	10000	41.9822	92.8895	-749	QL	2.8	1	5.8	-2	1.1	-1	0.474	2	2.579	2	5.444	-1	2404	43	5.7
25711.5	10000	41.9822	92.8887	-752	QL	2.7	0	5.8	-2	1.0	-1	0.468	2	2.649	2	5.665	-1	2405	60	5.7
25711.4	10000	41.9822	92.8880	-754	QL	2.2	0	5.9	-2	1.0	-2	0.369	2	2.118	1	5.745	-1	2392	45	5.7
25711.3	10000	41.9822	92.8873	-754	QL	2.3	0	6.2	-2	1.1	-1	0.376	2	2.160	1	5.740	-1	2409	46	5.7
25711.2	10000	41.9822	92.8866	-756	QL	1.9	-1	6.1	-2	1.1	-1	0.313	2	1.767	1	5.645	-1	2410	44	5.7
25711.1	10000	41.9823	92.8859	-756	QL	2.0	-1	6.5	-1	1.1	-1	0.304	2	1.774	1	5.827	-1	2447	46	5.7
25711.0	10000	41.9823	92.8852	-757	QL	2.5	0	6.7	-1	1.1	0	0.373	2	2.210	1	5.924	0	2487	56	5.7
25710.9	10000	41.9823	92.8845	-758	QL	2.8	1	6.7	-1	1.2	0	0.424	2	2.388	1	5.638	-1	2519	43	5.7
25710.8	10000	41.9823	92.8838	-758	QL	3.3	1	6.8	-1	1.2	1	0.482	3	2.634	2	5.467	-1	2550	35	5.7
25710.7	10000	41.9823	92.8830	-759	QL	3.6	1	6.6	-1	1.3	1	0.540	3	2.837	2	5.257	-2	2579	48	5.7
25710.6	10000	41.9823	92.8823	-760	QL	3.7	1	6.4	-1	1.3	1	0.569	3	2.913	2	5.121	-2	2582	58	5.7
25710.5	10000	41.9823	92.8816	-761	QL	3.9	1	6.5	-1	1.2	1	0.603	3	3.245	2	5.379	-1	2587	63	5.7
25710.4	10000	41.9823	92.8809	-761	QL	3.9	1	6.4	-1	1.2	1	0.610	3	3.301	2	5.412	-1	2600	42	5.7
25710.3	10000	41.9823	92.8802	-762	QL	3.9	1	6.4	-1	1.2	1	0.607	3	3.293	2	5.428	-1	2618	44	5.7
25710.2	10000	41.9823	92.8795	-763	QL	3.7	1	6.6	-1	1.2	1	0.551	3	3.128	2	5.678	-1	2638	51	5.7
25710.0	10000	41.9823	92.8781	-765	QL	3.4	1	6.9	-1	1.2	1	0.500	3	2.889	2	5.782	-1	2645	62	5.7
25709.9	10000	41.9823	92.8773	-765	QL	3.4	1	7.1	0	1.2	1	0.486	3	2.940	2	6.045	0	2675	54	5.7
25709.8	10000	41.9823	92.8766	-766	QL	3.2	1	7.6	1	1.3	1	0.424	3	2.558	2	6.034	0	2705	46	5.7
25709.7	10000	41.9823	92.8759	-767	QL	3.1	1	8.0	1	1.3	1	0.385	3	2.331	2	6.061	0	2719	60	5.7
25709.6	10000	41.9823	92.8752	-767	QL	3.0	1	8.2	1	1.4	1	0.378	3	2.135	2	5.650	-1	2723	50	5.7
25709.5	10000	41.9823	92.8745	-768	QL	3.2	1	8.4	2	1.5	1	0.371	3	2.088	2	5.628	-1	2736	40	5.7
25709.4	10000	41.9823	92.8738	-769	QL	3.2	1	8.3	2	1.4	1	0.387	3	2.265	2	5.858	-1	2724	45	5.7
25709.3	10000	41.9823	92.8731	-769	QL	3.4	1	8.4	2	1.4	1	0.408	3	2.376	2	5.823	-1	2738	50	5.7
25709.2	10000	41.9823	92.8724	-770	QL	3.3	1	8.4	2	1.5	1	0.398	3	2.285	2	5.747	-1	2732	45	5.7

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25709.1	10000	41.9823	92.8716	-771	QL	3.1	1	8.3	2	1.4	3	0.367	0	2.149	0	5.852	-1	2716	47	5.7
25709.0	10000	41.9823	92.8709	-771	QL	3.1	1	8.0	1	1.4	3	0.384	0	2.153	0	5.613	-1	2723	42	5.7
25708.9	10000	41.9823	92.8702	-771	QL	3.3	2	7.9	1	1.3	2	0.419	1	2.479	1	5.922	0	2706	44	5.7
25708.8	10000	41.9823	92.8695	-772	QL	2.9	1	7.7	1	1.3	2	0.383	0	2.190	0	5.715	-1	2697	41	5.7
25708.7	10000	41.9823	92.8688	-772	QL	3.0	1	7.3	0	1.3	2	0.417	1	2.258	0	5.411	-1	2707	39	5.7
25708.6	10000	41.9823	92.8681	-773	QL	3.2	1	7.4	0	1.3	1	0.438	1	2.474	1	5.656	-1	2703	51	5.7
25708.5	10000	41.9823	92.8674	-773	QL	3.2	1	7.3	0	1.3	1	0.431	1	2.426	0	5.623	-1	2716	51	5.7
25708.4	10000	41.9823	92.8667	-774	QL	3.5	2	7.4	0	1.3	1	0.472	2	2.745	1	5.819	-1	2738	53	5.7
25708.3	10000	41.9823	92.8660	-774	QL	3.6	2	7.0	0	1.2	1	0.512	2	2.889	2	5.638	-1	2745	44	5.7
25708.2	10000	41.9823	92.8652	-774	QL	3.7	3	7.1	0	1.3	1	0.530	2	2.941	2	5.552	-1	2762	47	5.7
25708.1	10000	41.9823	92.8645	-775	QL	4.2	4	7.1	0	1.2	0	0.596	3	3.549	3	5.950	0	2771	54	5.7
25708.0	10000	41.9824	92.8638	-774	QL	4.2	4	7.5	0	1.1	0	0.563	3	3.697	3	6.567	1	2775	52	5.7
25707.9	10000	41.9824	92.8631	-775	QL	4.1	3	7.6	1	1.1	0	0.530	2	3.551	3	6.696	1	2759	47	5.7
25707.8	10000	41.9824	92.8624	-776	QL	4.0	3	7.3	0	1.1	-1	0.549	3	3.632	3	6.618	1	2735	54	5.7
25707.7	10000	41.9824	92.8617	-776	QL	3.8	3	7.7	1	1.1	0	0.487	2	3.311	3	6.792	1	2739	55	5.7
25707.6	10000	41.9824	92.8610	-777	QL	4.0	3	8.1	1	1.2	0	0.495	2	3.438	3	6.945	1	2734	53	5.7
25707.5	10000	41.9824	92.8602	-778	QL	3.9	3	8.2	1	1.2	0	0.476	2	3.250	2	6.829	1	2736	51	5.7
25707.4	10000	41.9824	92.8595	-778	QL	3.4	2	8.2	1	1.3	1	0.418	1	2.686	1	6.427	0	2709	42	5.7
25707.3	10000	41.9824	92.8588	-778	QL	3.0	1	8.1	1	1.3	2	0.369	0	2.218	0	6.013	0	2699	66	5.7
25707.2	10000	41.9824	92.8581	-779	QL	2.8	1	8.0	1	1.4	2	0.354	0	2.046	0	5.786	-1	2710	47	5.7
25707.1	10000	41.9824	92.8574	-779	QL	2.8	1	8.2	1	1.4	2	0.344	0	2.000	0	5.808	-1	2699	53	5.7
25707.0	10000	41.9824	92.8567	-779	QL	2.9	1	7.9	1	1.4	2	0.375	0	2.166	0	5.783	-1	2670	51	5.7
25706.9	10000	41.9824	92.8560	-780	QL	2.7	1	7.9	1	1.4	2	0.344	0	1.941	-1	5.642	-1	2660	45	5.7
25706.8	10000	41.9824	92.8553	-780	QL	2.5	0	8.0	1	1.4	2	0.318	-1	1.849	-1	5.810	-1	2633	52	5.7
25706.7	10000	41.9824	92.8546	-780	QL	2.5	0	7.8	1	1.3	2	0.322	-1	1.889	-1	5.864	-1	2641	41	5.7
25706.6	10000	41.9824	92.8538	-780	QL	2.9	1	8.1	1	1.3	1	0.363	0	2.302	0	6.341	0	2643	48	5.7
25706.5	10000	41.9824	92.8531	-780	QL	2.9	1	8.1	1	1.2	1	0.364	0	2.373	1	6.523	1	2630	45	5.7
25706.4	10000	41.9824	92.8524	-780	QL	2.9	1	8.1	1	1.2	1	0.363	0	2.388	1	6.572	1	2651	38	5.7
25706.3	10000	41.9824	92.8517	-779	QL	2.7	1	8.0	1	1.3	1	0.338	0	2.112	0	6.242	0	2644	57	5.7
25706.2	10000	41.9824	92.8510	-778	QL	2.8	1	7.9	1	1.2	1	0.352	0	2.334	1	6.624	1	2630	50	5.7
25706.1	10000	41.9824	92.8503	-779	QL	2.9	1	8.1	1	1.2	1	0.361	0	2.436	1	6.743	1	2629	40	5.7
25706.0	10000	41.9824	92.8496	-781	QL	2.9	1	8.3	2	1.2	1	0.349	0	2.404	1	6.878	1	2608	60	5.7
25705.9	10000	41.9824	92.8489	-782	QL	2.7	1	7.8	1	1.2	0	0.346	0	2.198	0	6.351	0	2601	43	5.7
25705.8	10000	41.9824	92.8481	-782	QL	2.8	1	8.0	1	1.2	0	0.348	0	2.271	0	6.529	1	2589	41	5.7
25705.7	10000	41.9824	92.8474	-783	QL	3.0	1	7.9	1	1.2	0	0.382	0	2.523	1	6.602	1	2581	64	5.7
25705.6	10000	41.9824	92.8467	-784	QL	3.3	2	7.7	1	1.1	0	0.428	1	2.867	2	6.705	1	2596	42	5.7
25705.5	10000	41.9824	92.8460	-784	QL	3.1	1	7.4	0	1.1	-1	0.421	1	2.787	1	6.612	1	2592	49	5.7
25705.4	10000	41.9824	92.8453	-785	QL	2.9	1	7.1	0	1.1	-1	0.413	1	2.677	1	6.477	0	2591	58	5.7
25705.3	10000	41.9824	92.8446	-785	QL	3.3	2	7.1	0	1.0	-1	0.469	2	3.177	3	6.773	1	2604	35	5.7
25705.2	10000	41.9824	92.8439	-785	QL	3.3	2	7.2	0	1.0	-1	0.457	2	3.135	3	6.856	1	2598	55	5.7
25705.1	10000	41.9825	92.8432	-786	QL	3.2	1	6.8	-1	1.1	-1	0.471	2	2.945	2	6.254	0	2584	39	5.7
25705.0	10000	41.9825	92.8424	-786	QL	3.1	1	6.9	-1	1.1	-1	0.451	1	2.892	2	6.407	0	2568	49	5.7
25704.9	10000	41.9825	92.8417	-786	QL	3.0	1	6.8	-1	1.1	-1	0.444	1	2.766	1	6.234	0	2527	47	5.7
25704.8	10000	41.9825	92.8410	-786	QL	3.2	1	7.1	0	1.1	-1	0.449	1	2.883	2	6.416	1	2522	46	5.7
25704.7	10000	41.9825	92.8403	-787	QL	3.1	1	7.2	0	1.1	-1	0.461	1	3.012	2	6.538	1	2519	43	5.7
25704.6	10000	41.9825	92.8396	-787	QL	3.3	1	6.8	-1	1.1	-1	0.462	2	2.790	2	6.036	0	2501	51	5.7
25704.5	10000	41.9825	92.8389	-788	QL	3.3	2	6.6	-1	1.1	-1	0.507	2	2.982	2	5.886	-1	2498	59	5.7
25704.4	10000	41.9825	92.8382	-789	QL	3.4	2	6.7	-1	1.1	-1	0.493	2	3.106	2	6.297	0	2527	51	5.7
25704.3	10000	41.9825	92.8375	-790	QL	3.4	2	6.6	-1	1.1	-1	0.520	2	3.064	2	5.894	-1	2551	41	5.7
25704.2	10000	41.9825	92.8367	-790	QL	3.5	2	7.0	0	1.2	0	0.502	2	2.929	2	5.839	-1	2601	47	5.7
25704.1	10000	41.9825	92.8360	-790	QL	3.4	2	7.2	0	1.2	0	0.475	2	2.754	1	5.797	-1	2630	41	5.7
25704.0	10000	41.9825	92.8353	-791	QL	3.6	2	7.0	0	1.3	1	0.518	2	2.839	1	5.485	-1	2648	45	5.7

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25703.9	10000	41.9825	92.8346	-791	QL	3.5	2	7.3	0	1.3	1	0.479	2	2.716	1	5.665	-1	2676	31	5.7
25703.8	10000	41.9825	92.8339	-791	QL	3.6	2	7.4	0	1.3	1	0.488	2	2.774	1	5.680	-1	2680	43	5.7
25703.7	10000	41.9825	92.8332	-791	QL	3.8	3	7.3	0	1.3	2	0.519	2	2.820	1	5.433	-1	2677	51	5.7
25703.6	10000	41.9825	92.8325	-791	QL	3.8	3	7.3	0	1.3	1	0.524	2	2.940	2	5.612	-1	2673	37	5.7
25703.5	10000	41.9825	92.8318	-792	QL	3.6	2	7.5	0	1.2	1	0.488	2	2.964	2	6.070	0	2664	40	5.7
25703.4	10000	41.9825	92.8311	-793	QL	3.5	2	6.9	0	1.3	1	0.506	2	2.801	1	5.534	-1	2647	39	5.7
25703.3	10000	41.9825	92.8303	-793	QL	3.2	1	7.1	0	1.2	1	0.457	1	2.600	1	5.684	-1	2650	38	5.7
25703.2	10000	41.9825	92.8296	-793	QL	3.4	2	7.1	0	1.2	1	0.478	2	2.722	1	5.696	-1	2651	36	5.7
25703.1	10000	41.9825	92.8289	-795	QL	3.1	1	7.5	0	1.2	1	0.408	1	2.460	1	6.032	0	2647	50	5.7
25703.0	10000	41.9825	92.8282	-794	QL	3.0	1	7.6	1	1.2	1	0.395	1	2.434	1	6.159	0	2648	42	5.7
25702.9	10000	41.9825	92.8275	-793	QL	2.6	0	7.5	0	1.3	1	0.350	0	2.059	0	5.877	-1	2621	53	5.7
25702.8	10000	41.9825	92.8268	-794	QL	2.5	0	7.3	0	1.3	1	0.338	0	1.922	-1	5.694	-1	2588	45	5.7
25702.7	10000	41.9825	92.8261	-795	QL	2.4	0	7.7	1	1.3	1	0.317	-1	1.931	-1	6.087	0	2582	63	5.7
25702.6	10000	41.9825	92.8253	-795	QL	2.4	0	7.6	1	1.3	1	0.319	-1	1.949	-1	6.119	0	2555	40	5.7
25702.5	10000	41.9825	92.8246	-795	QL	2.4	-1	7.5	0	1.3	1	0.316	-1	1.857	-1	5.877	-1	2519	43	5.7
25702.4	10000	41.9825	92.8239	-795	QL	2.6	0	6.9	0	1.3	1	0.377	0	2.085	0	5.530	-1	2479	47	5.7
25702.3	10000	41.9825	92.8232	-795	QL	2.4	0	6.9	-1	1.3	1	0.351	0	1.918	-1	5.470	-1	2454	49	5.7
25702.2	10000	41.9825	92.8225	-795	QL	2.7	0	7.2	0	1.2	1	0.371	0	2.175	0	5.864	-1	2453	35	5.7
25702.1	10000	41.9825	92.8218	-795	QL	3.0	1	7.0	0	1.2	1	0.421	1	2.381	0	5.661	-1	2469	60	5.7
25702.0	10000	41.9825	92.8211	-795	QL	2.7	0	7.1	0	1.3	1	0.379	0	2.154	0	5.677	-1	2475	38	5.7
25701.9	10000	41.9825	92.8204	-796	QL	2.7	0	7.1	0	1.3	2	0.379	0	2.003	0	5.280	-2	2489	55	5.7
25701.8	10000	41.9825	92.8197	-797	QL	2.9	1	7.3	0	1.3	2	0.393	1	2.137	0	5.433	-1	2527	48	5.7
25701.7	10000	41.9826	92.8189	-797	QL	2.3	-1	7.7	1	1.4	2	0.303	-1	1.691	-1	5.585	-1	2573	48	5.7
25701.6	10000	41.9826	92.8182	-799	QL	2.5	0	8.2	2	1.4	2	0.309	-1	1.861	-1	6.014	0	2595	45	5.7
25701.5	10000	41.9826	92.8175	-797	QL	2.5	0	8.2	1	1.4	2	0.300	-1	1.782	-1	5.943	0	2625	49	5.7
25701.4	10000	41.9826	92.8168	-797	QL	2.3	-1	8.2	2	1.4	2	0.274	-1	1.653	-1	6.029	0	2622	55	5.6
25701.3	10000	41.9826	92.8161	-798	QL	2.6	0	8.1	2	1.4	2	0.320	-1	1.900	-1	5.935	0	2630	41	5.6
25701.2	10000	41.9826	92.8154	-798	QL	2.6	0	8.5	2	1.3	1	0.299	-1	1.973	-1	6.594	1	2633	41	5.6
25701.1	10000	41.9826	92.8147	-798	QL	2.4	0	8.7	2	1.3	1	0.272	-1	1.844	-1	6.780	1	2632	39	5.6
25701.0	10000	41.9826	92.8139	-798	QL	2.8	0	8.8	2	1.3	1	0.318	-1	2.133	0	6.719	1	2628	47	5.6
25700.9	10000	41.9826	92.8132	-799	QL	2.6	0	8.7	2	1.3	1	0.303	-1	2.018	0	6.657	1	2637	53	5.6
25700.8	10000	41.9826	92.8125	-799	QL	2.6	0	8.7	2	1.3	1	0.305	-1	2.022	0	6.620	1	2634	39	5.6
25700.7	10000	41.9826	92.8118	-799	QL	2.9	0	8.4	2	1.3	1	0.347	0	2.179	0	6.275	1	2651	52	5.6
25700.6	10000	41.9826	92.8111	-799	QL	2.8	0	8.5	2	1.3	1	0.326	0	2.047	0	6.279	1	2635	42	5.6
25700.5	10000	41.9826	92.8104	-799	QL	3.0	1	8.1	1	1.4	1	0.365	0	2.181	0	5.969	0	2634	41	5.6
25700.4	10000	41.9826	92.8097	-800	QL	2.9	1	7.7	1	1.3	1	0.384	0	2.208	0	5.743	-1	2625	42	5.6
25700.3	10000	41.9826	92.8090	-800	QL	2.9	1	7.6	1	1.3	1	0.375	0	2.128	0	5.669	-1	2628	48	5.6
25700.2	10000	41.9826	92.8083	-800	QL	3.0	1	7.0	0	1.4	1	0.461	1	2.348	1	5.095	-2	2627	62	5.6
25700.1	10000	41.9826	92.8075	-800	QL	2.9	1	7.1	0	1.4	1	0.412	1	2.117	1	5.139	-2	2613	38	5.6
25700.0	10000	41.9826	92.8068	-800	QL	2.9	1	7.4	0	1.4	1	0.401	1	2.149	1	5.354	-1	2613	48	5.6
25699.9	10000	41.9826	92.8061	-801	QL	3.0	1	7.2	0	1.4	1	0.459	1	2.393	1	5.209	-2	2623	56	5.5
25699.8	10000	41.9826	92.8054	-801	QL	2.9	1	7.3	0	1.4	1	0.407	1	2.099	1	5.157	-2	2637	38	5.5
25699.7	10000	41.9826	92.8047	-802	QL	2.9	1	7.5	0	1.4	1	0.408	1	2.145	1	5.257	-2	2662	43	5.5
25699.6	10000	41.9826	92.8040	-802	QL	2.9	1	7.5	0	1.4	1	0.396	1	2.151	1	5.438	-1	2669	36	5.5
25699.5	10000	41.9826	92.8033	-803	QL	2.9	0	8.0	1	1.4	1	0.317	-1	1.876	0	5.927	0	2668	45	5.5
25699.4	10000	41.9826	92.8026	-804	QL	2.9	0	7.6	1	1.4	1	0.382	-1	2.142	0	5.613	-1	2699	40	5.5
25699.3	10000	41.9826	92.8018	-804	QL	3.0	1	7.9	1	1.3	1	0.376	-1	2.222	0	5.912	0	2718	55	5.5
25699.2	10000	41.9826	92.8011	-805	QL	2.9	0	8.0	1	1.4	1	0.356	-1	2.097	0	5.886	-1	2746	48	5.5
25699.1	10000	41.9827	92.8004	-806	QK	3.2	1	8.1	2	1.3	1	0.421	1	2.536	1	6.028	-1	2756	42	5.4
25699.0	10000	41.9827	92.7996	-806	QK	3.2	1	7.8	1	1.3	1	0.403	1	2.368	1	5.871	-1	2744	56	5.4
25698.9	10000	41.9827	92.7989	-807	QK	3.2	1	8.0	1	1.4	1	0.402	1	2.341	1	5.820	-1	2739	40	5.4
25698.8	10000	41.9827	92.7981	-808	QK	3.2	1	7.8	1	1.4	2	0.407	1	2.284	0	5.618	-1	2740	44	5.4

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25698.7	10000	41.9827	92.7974	-808	QK	2.8	1	7.9	1	1.4	2	0.353	0	2.021	-1	5.723	-1	2726	50	5.4
25698.6	10000	41.9827	92.7967	-809	QK	2.6	0	7.8	1	1.4	2	0.337	0	1.876	-1	5.563	-1	2716	48	5.4
25698.5	10000	41.9828	92.7959	-809	QK	2.7	0	8.1	1	1.3	2	0.330	0	1.981	-1	6.012	-1	2705	59	5.4
25698.4	10000	41.9828	92.7952	-810	QK	2.3	0	7.7	1	1.3	2	0.296	-1	1.714	-1	5.789	-1	2689	47	5.4
25698.3	10000	41.9828	92.7945	-810	QK	2.6	0	7.9	1	1.3	2	0.334	0	1.996	-1	5.981	-1	2676	51	5.4
25698.2	10000	41.9828	92.7937	-811	QK	3.0	1	7.6	1	1.3	1	0.398	1	2.344	0	5.881	-1	2699	41	5.4
25698.1	10000	41.9828	92.7930	-812	QK	3.3	2	7.4	0	1.3	1	0.443	1	2.543	1	5.744	-1	2718	45	5.4
25698.0	10000	41.9828	92.7923	-813	QK	3.8	3	7.6	1	1.2	1	0.502	2	3.136	2	6.246	0	2723	43	5.3
25697.9	10000	41.9828	92.7915	-814	QK	3.8	3	7.1	0	1.2	1	0.534	3	3.146	2	5.891	-1	2725	43	5.3
25697.8	10000	41.9828	92.7908	-814	QK	3.6	2	6.7	-1	1.2	1	0.542	3	2.989	2	5.514	-1	2730	52	5.3
25697.7	10000	41.9829	92.7900	-814	QK	3.8	3	6.6	-1	1.2	1	0.578	3	3.108	2	5.382	-2	2744	39	5.3
25697.6	10000	41.9829	92.7893	-815	QK	3.7	2	6.7	-1	1.3	1	0.552	3	2.891	1	5.236	-2	2761	46	5.3
25697.5	10000	41.9829	92.7886	-815	QK	3.3	2	7.2	0	1.4	2	0.459	2	2.450	0	5.339	-2	2745	58	5.3
25697.4	10000	41.9829	92.7878	-816	QK	3.5	2	7.4	0	1.3	1	0.467	2	2.671	1	5.718	-1	2725	54	5.3
25697.3	10000	41.9829	92.7871	-816	QK	3.3	2	7.5	0	1.3	2	0.435	1	2.432	0	5.597	-1	2736	42	5.3
25697.2	10000	41.9829	92.7864	-817	QK	3.2	1	8.1	1	1.3	2	0.395	1	2.416	0	6.123	-1	2722	43	5.3
25697.1	10000	41.9830	92.7856	-818	QK	3.1	1	8.1	1	1.3	2	0.387	0	2.339	0	6.051	-1	2702	43	5.3
25697.0	10000	41.9830	92.7849	-819	QK	2.9	1	8.3	1	1.3	2	0.356	0	2.247	0	6.316	0	2685	57	5.3
25696.9	10000	41.9830	92.7841	-820	QK	2.9	1	8.3	1	1.3	1	0.353	0	2.341	0	6.632	0	2656	42	5.3
25696.8	10000	41.9830	92.7834	-821	QK	2.2	1	7.9	1	1.1	0	0.403	1	2.793	1	6.935	1	2658	44	5.2
25696.7	10000	41.9830	92.7827	-822	QK	2.9	1	7.8	1	1.2	1	0.366	0	2.366	0	6.461	0	2659	58	5.2
25696.6	10000	41.9830	92.7819	-822	QK	2.8	1	7.8	1	1.2	1	0.365	0	2.364	0	6.484	0	2628	38	5.2
25696.5	10000	41.9831	92.7812	-824	QK	3.2	1	7.8	1	1.2	1	0.405	1	2.623	1	6.476	0	2640	42	5.2
25696.4	10000	41.9831	92.7805	-824	QK	3.4	2	7.9	1	1.2	0	0.426	1	2.918	1	6.843	1	2631	43	5.2
25696.3	10000	41.9831	92.7797	-824	QK	3.4	2	7.8	1	1.1	0	0.434	1	3.020	2	6.959	1	2632	54	5.2
25696.2	10000	41.9831	92.7790	-824	QK	3.4	2	8.0	1	1.2	0	0.429	1	2.952	1	6.889	1	2646	46	5.2
25696.1	10000	41.9831	92.7783	-825	QK	3.1	1	8.1	1	1.2	1	0.382	0	2.574	1	6.733	0	2627	41	5.2
25696.0	10000	41.9831	92.7775	-825	QK	3.3	2	8.3	1	1.2	1	0.397	1	2.700	1	6.810	0	2627	65	5.2
25695.9	10000	41.9831	92.7768	-826	QK	3.3	2	7.9	1	1.2	1	0.421	1	2.697	1	6.402	0	2619	44	5.2
25695.8	10000	41.9832	92.7760	-827	QK	3.1	1	7.8	1	1.3	1	0.391	1	2.399	1	6.136	0	2605	49	5.2
25695.7	10000	41.9832	92.7753	-827	QK	3.2	1	7.8	1	1.3	2	0.403	1	2.422	1	6.008	-1	2624	32	5.2
25695.6	10000	41.9832	92.7746	-828	QK	3.1	1	8.0	1	1.3	2	0.392	1	2.363	1	6.029	-1	2604	47	5.2
25695.5	10000	41.9832	92.7738	-829	QK	3.0	1	7.8	1	1.3	2	0.366	1	2.172	1	5.936	-1	2576	57	5.2
25695.4	10000	41.9832	92.7731	-830	QK	3.0	1	7.7	1	1.3	2	0.386	1	2.253	1	5.839	-1	2569	42	5.2
25695.3	10000	41.9832	92.7724	-830	QK	2.9	1	7.4	0	1.3	2	0.391	1	2.203	1	5.636	-1	2563	46	5.2
25695.2	10000	41.9833	92.7716	-831	QK	2.9	1	7.7	1	1.3	2	0.382	1	2.188	1	5.730	-1	2584	55	5.2
25695.1	10000	41.9833	92.7709	-832	QK	2.8	1	7.6	0	1.3	2	0.375	1	2.104	1	5.619	-1	2577	40	5.2
25695.0	10000	41.9833	92.7702	-834	QK	2.6	0	7.5	0	1.4	2	0.342	1	1.888	0	5.529	-1	2567	37	5.2
25694.9	10000	41.9833	92.7694	-835	QK	3.0	1	7.5	1	1.3	2	0.399	1	2.258	1	5.663	-1	2592	40	5.2
25694.8	10000	41.9833	92.7687	-835	QK	3.2	1	7.7	1	1.3	2	0.429	1	2.535	1	5.915	-1	2622	44	5.2
25694.7	10000	41.9833	92.7679	-836	QL	3.3	2	7.8	1	1.3	2	0.453	1	2.687	1	5.936	0	2656	57	5.2
25694.6	10000	41.9833	92.7672	-836	QL	3.3	2	8.0	1	1.3	2	0.478	2	3.004	2	6.289	0	2662	43	5.2
25694.5	10000	41.9834	92.7665	-837	QL	3.3	2	8.0	1	1.2	2	0.475	2	3.186	2	6.710	1	2669	46	5.2
25694.4	10000	41.9834	92.7657	-837	QL	3.3	2	8.1	1	1.2	2	0.476	2	3.326	2	6.989	1	2679	43	5.2
25694.3	10000	41.9834	92.7650	-837	QL	3.3	2	8.0	1	1.1	2	0.492	2	3.533	2	7.179	2	2669	41	5.2
25694.2	10000	41.9834	92.7643	-838	QL	3.3	2	8.0	1	1.1	2	0.470	2	3.326	2	7.080	1	2657	54	5.2
25694.1	10000	41.9834	92.7635	-838	QL	3.2	2	7.7	1	1.2	1	0.459	2	3.067	2	6.686	1	2647	51	5.2
25694.0	10000	41.9834	92.7628	-836	QL	3.1	2	7.5	1	1.1	1	0.437	2	2.925	1	6.695	1	2614	52	5.2
25693.9	10000	41.9834	92.7621	-831	QL	3.3	2	7.6	1	1.1	1	0.434	2	2.901	1	6.686	1	2605	53	5.2
25693.8	10000	41.9835	92.7613	-827	QK	3.4	2	7.3	1	1.2	1	0.465	2	2.933	1	6.282	0	2591	48	5.2
25693.7	10000	41.9835	92.7605	-831	QK	3.6	2	7.1	0	1.2	1	0.507	2	2.988	2	5.890	-1	2586	51	5.2
25693.6	10000	41.9835	92.7598	-837	QK	3.4	2	7.1	0	1.2	1	0.478	2	2.774	1	5.803	-1	2591	56	5.3

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25693.5	10000	41.9835	92.7591	-841	QK	3.3	2	7.3	0	1.3	1	0.449	1	2.606	1	5.808	-1	2608	58	5.3
25693.4	10000	41.9835	92.7584	-843	QK	3.5	2	7.4	0	1.3	1	0.478	2	2.830	1	5.915	-1	2603	45	5.3
25693.3	10000	41.9835	92.7576	-844	QK	3.8	3	7.6	0	1.3	1	0.498	2	2.919	1	5.859	-1	2623	37	5.3
25693.2	10000	41.9835	92.7569	-844	QK	3.6	2	7.5	0	1.3	1	0.476	2	2.809	1	5.903	-1	2627	45	5.3
25693.1	10000	41.9836	92.7562	-845	QK	3.3	2	7.4	0	1.3	2	0.446	1	2.489	0	5.574	-1	2633	50	5.3
25693.0	10000	41.9836	92.7554	-845	QK	3.3	2	7.6	1	1.3	2	0.431	1	2.462	0	5.714	-1	2633	52	5.3
25692.9	10000	41.9836	92.7547	-846	QK	3.3	2	8.0	1	1.4	2	0.415	1	2.420	0	5.831	-1	2646	45	5.3
25692.8	10000	41.9836	92.7540	-847	QK	3.2	1	7.8	1	1.4	2	0.406	1	2.298	0	5.664	-1	2630	57	5.3
25692.7	10000	41.9836	92.7532	-847	QK	3.0	1	8.0	1	1.4	2	0.374	0	2.133	0	5.699	-1	2644	46	5.3
25692.6	10000	41.9836	92.7525	-847	QK	2.9	1	7.9	1	1.4	2	0.369	0	2.089	0	5.657	-1	2649	49	5.3
25692.5	10000	41.9837	92.7517	-847	QK	2.9	1	8.3	1	1.4	2	0.355	0	2.034	0	5.739	-1	2655	49	5.3
25692.4	10000	41.9837	92.7510	-848	QK	2.9	1	8.6	2	1.3	2	0.339	0	2.194	0	6.475	0	2653	40	5.3
25692.3	10000	41.9837	92.7503	-849	QK	2.8	1	8.8	2	1.3	1	0.323	0	2.194	0	6.803	0	2648	59	5.4
25692.2	10000	41.9837	92.7495	-849	QK	2.9	1	8.6	2	1.3	1	0.335	0	2.249	0	6.705	0	2637	61	5.4
25692.1	10000	41.9837	92.7488	-850	QK	3.1	1	8.6	2	1.2	1	0.358	0	2.526	1	7.055	1	2632	44	5.4
25692.0	10000	41.9837	92.7481	-851	QK	3.1	1	8.2	1	1.2	1	0.379	0	2.613	1	6.888	1	2627	39	5.4
25691.9	10000	41.9837	92.7473	-851	QK	3.0	1	8.3	1	1.2	0	0.364	0	2.585	1	7.100	1	2607	49	5.4
25691.8	10000	41.9837	92.7466	-852	QK	2.7	0	8.1	1	1.1	0	0.338	0	2.384	0	7.055	1	2580	43	5.4
25691.7	10000	41.9838	92.7458	-852	QK	2.8	1	8.2	1	1.2	0	0.343	0	2.433	0	7.085	1	2556	45	5.4
25691.6	10000	41.9838	92.7451	-853	QK	2.8	1	8.3	1	1.2	0	0.342	0	2.423	0	7.078	1	2566	38	5.4
25691.5	10000	41.9838	92.7444	-854	QK	2.7	0	8.1	1	1.1	0	0.333	0	2.371	0	7.124	1	2558	55	5.4
25691.4	10000	41.9838	92.7436	-855	QK	2.6	0	8.2	1	1.2	0	0.318	0	2.183	0	6.857	1	2554	53	5.4
25691.3	10000	41.9838	92.7429	-856	QK	2.7	0	8.1	1	1.2	0	0.333	0	2.313	0	6.951	1	2540	58	5.5
25691.2	10000	41.9838	92.7422	-855	QK	2.9	1	7.8	1	1.2	1	0.367	0	2.407	0	6.561	0	2537	48	5.5
25691.1	10000	41.9839	92.7414	-857	QK	3.1	1	7.8	1	1.2	1	0.392	1	2.581	1	6.586	0	2540	54	5.5
25691.0	10000	41.9839	92.7407	-858	QK	2.7	1	7.3	1	1.2	1	0.371	0	2.293	0	6.183	0	2543	61	5.5
25690.9	10000	41.9839	92.7400	-858	QK	2.7	0	7.2	0	1.2	1	0.371	0	2.267	0	6.113	-1	2519	39	5.5
25690.8	10000	41.9839	92.7392	-859	QK	2.9	1	7.5	1	1.2	1	0.389	0	2.466	0	6.341	0	2517	42	5.5
25690.7	10000	41.9839	92.7385	-860	QK	3.0	1	7.5	1	1.1	1	0.417	0	2.759	0	6.620	0	2501	62	5.5
25690.6	10000	41.9839	92.7377	-861	QK	2.9	1	7.3	1	1.1	1	0.400	0	2.628	0	6.578	0	2498	42	5.5
25690.5	10000	41.9839	92.7370	-862	QK	2.6	1	7.5	1	1.1	1	0.348	0	2.338	0	6.716	0	2495	50	5.6
25690.4	10000	41.9840	92.7363	-862	QK	2.7	1	7.3	1	1.1	1	0.372	0	2.468	0	6.631	0	2498	51	5.6
25690.3	10000	41.9840	92.7355	-863	QK	2.7	1	7.4	1	1.2	1	0.366	0	2.349	0	6.423	0	2496	39	5.6
25690.2	10000	41.9840	92.7348	-864	QK	2.5	1	7.4	1	1.2	1	0.341	0	2.193	0	6.430	0	2522	58	5.6
25690.1	10000	41.9840	92.7341	-865	QK	2.7	1	7.3	1	1.2	1	0.366	0	2.254	0	6.151	0	2534	42	5.6
25690.0	10000	41.9840	92.7333	-867	QK	2.3	1	7.4	1	1.2	1	0.306	-1	1.950	-1	6.382	0	2532	39	5.6
25689.9	10000	41.9840	92.7326	-867	QK	2.3	1	7.7	1	1.2	1	0.301	-1	1.953	-1	6.491	0	2554	50	5.6
25689.8	10000	41.9840	92.7319	-868	QK	2.8	1	8.2	1	1.1	1	0.336	0	2.440	0	7.263	1	2569	66	5.6
25689.7	10000	41.9841	92.7311	-869	QK	2.4	1	8.3	1	1.1	1	0.292	-1	2.137	0	7.312	1	2570	39	5.7
25689.6	10000	41.9841	92.7304	-870	QK	2.6	1	8.2	1	1.1	1	0.317	0	2.331	0	7.354	1	2561	40	5.7
25689.5	10000	41.9841	92.7296	-871	QK	2.8	1	8.0	1	1.1	1	0.344	0	2.464	0	7.161	1	2525	57	5.7
25689.4	10000	41.9841	92.7289	-872	QK	2.5	1	8.0	1	1.1	1	0.310	-1	2.316	0	7.481	1	2495	47	5.7
25689.3	10000	41.9841	92.7282	-873	QK	2.5	1	7.8	1	1.1	1	0.315	-1	2.298	0	7.303	1	2496	44	5.7
25689.2	10000	41.9841	92.7274	-873	QK	2.6	1	7.8	1	1.1	1	0.329	0	2.324	0	7.063	1	2471	44	5.7
25689.1	10000	41.9842	92.7267	-875	QK	2.5	1	7.3	1	1.1	1	0.348	0	2.356	0	6.761	1	2462	52	5.7
25689.0	10000	41.9842	92.7260	-876	QK	2.6	1	7.2	1	1.1	1	0.361	0	2.352	0	6.510	0	2467	46	5.7
25688.9	10000	41.9842	92.7252	-877	QK	2.9	1	7.5	1	1.1	1	0.385	0	2.522	0	6.545	0	2496	35	5.8
25688.8	10000	41.9842	92.7245	-878	QK	3.0	1	7.3	1	1.1	1	0.410	0	2.675	0	6.530	0	2504	48	5.8
25688.7	10000	41.9842	92.7238	-880	QK	2.7	1	6.8	1	1.1	1	0.444	0	2.662	0	6.002	-1	2515	41	5.8
25688.6	10000	41.9842	92.7230	-882	QK	2.1	1	6.3	-1	1.1	1	0.501	0	2.766	0	5.524	-1	2520	51	5.8
25688.5	10000	41.9842	92.7223	-883	QK	2.1	1	6.6	-1	1.1	1	0.468	0	2.823	0	6.028	-1	2530	49	5.8
25688.4	10000	41.9843	92.7215	-884	QK	2.8	1	6.4	-1	1.2	0	0.444	1	2.448	0	5.518	-1	2527	52	5.8

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25688.3	10000	41.9843	92.7208	-885	QK	3.1	1	6.3	-1	1.1	0	0.493	2	2.813	1	5.708	-1	2507	54	5.8
25688.2	10000	41.9843	92.7201	-886	QK	3.1	1	6.1	-1	1.1	0	0.503	2	2.878	1	5.715	-1	2471	43	5.8
25688.1	10000	41.9843	92.7193	-888	QAL	3.0	1	6.0	0	1.1	0	0.496	1	2.811	1	5.662	-1	2464	47	5.8
25688.0	10000	41.9843	92.7186	-889	QAL	3.1	1	6.2	0	1.0	0	0.505	1	3.111	1	6.166	0	2476	52	5.8
25687.9	10000	41.9843	92.7178	-890	QAL	3.1	1	6.2	0	1.0	0	0.499	1	3.095	1	6.207	0	2497	43	5.9
25687.8	10000	41.9843	92.7171	-891	QAL	2.9	1	6.4	0	1.1	0	0.450	1	2.693	1	5.989	0	2510	52	5.9
25687.7	10000	41.9844	92.7164	-893	QAL	3.0	1	6.5	0	1.1	0	0.471	1	2.856	1	6.067	0	2524	58	5.9
25687.6	10000	41.9844	92.7157	-894	QAL	3.1	1	6.1	0	1.1	0	0.507	1	2.828	1	5.576	-1	2559	54	5.9
25687.5	10000	41.9844	92.7149	-895	QAL	3.1	1	6.1	0	1.1	0	0.511	2	2.831	1	5.536	-1	2576	49	5.9
25687.4	10000	41.9844	92.7142	-896	QAL	2.7	1	6.5	0	1.1	0	0.421	0	2.439	0	5.786	0	2603	55	5.9
25687.3	10000	41.9844	92.7134	-897	QAL	2.4	0	6.2	0	1.1	0	0.392	0	2.128	0	5.429	-1	2589	40	5.9
25687.2	10000	41.9844	92.7127	-896	QAL	2.4	0	5.9	-1	1.1	0	0.398	0	2.090	0	5.248	-1	2550	44	5.9
25687.1	10000	41.9844	92.7120	-897	QAL	2.5	0	5.5	-1	1.1	0	0.459	1	2.318	0	5.047	-1	2514	40	5.9
25687.0	10000	41.9845	92.7112	-899	QAL	2.6	0	5.4	-1	1.0	0	0.477	1	2.499	0	5.240	-1	2481	39	5.9
25686.9	10000	41.9845	92.7105	-900	QAL	2.1	-1	5.4	-1	1.0	-1	0.395	0	2.182	0	5.523	-1	2418	56	5.9
25686.8	10000	41.9845	92.7097	-901	QAL	2.0	-1	5.3	-1	0.9	-1	0.377	0	2.107	0	5.595	-1	2386	42	5.9
25686.7	10000	41.9845	92.7090	-901	QAL	2.2	0	4.8	-2	0.9	-1	0.468	1	2.492	0	5.326	-1	2336	51	5.9
25686.6	10000	41.9845	92.7083	-901	QAL	2.8	1	4.6	-2	0.9	-1	0.612	3	3.196	2	5.220	-1	2309	37	5.9
25686.5	10000	41.9845	92.7076	-903	QAL	2.7	0	4.6	-2	0.9	-1	0.589	2	3.153	2	5.356	-1	2297	52	5.9
25686.4	10000	41.9845	92.7068	-904	QAL	3.0	1	4.6	-2	0.9	-1	0.660	3	3.508	2	5.313	-1	2300	44	5.9
25686.3	10000	41.9846	92.7061	-906	QAL	2.9	1	4.6	-2	0.9	-2	0.634	3	3.445	2	5.437	-1	2304	44	5.9
25686.2	10000	41.9846	92.7053	-906	QAL	3.3	2	4.7	-2	0.8	-2	0.694	4	3.889	3	5.601	-1	2319	44	5.9
25686.1	10000	41.9846	92.7046	-906	QAL	3.2	1	5.2	-1	0.9	-1	0.611	3	3.574	2	5.849	0	2342	59	5.9
25686.0	10000	41.9846	92.7039	-906	QAL	3.1	1	6.0	-1	1.0	-1	0.516	2	3.202	2	6.200	0	2386	45	5.9
25685.9	10000	41.9846	92.7031	-913	QAL	2.7	1	6.7	0	1.0	-1	0.409	1	2.749	1	6.722	1	2443	59	6.0
25685.8	10000	41.9846	92.7024	-917	QAL	2.7	0	7.1	0	1.0	0	0.375	1	2.603	1	6.940	1	2493	49	6.0
25685.7	10000	41.9846	92.7017	-919	QAL	2.5	0	7.4	0	1.0	0	0.343	1	2.419	1	7.044	1	2515	47	6.0
25685.6	10000	41.9847	92.7009	-921	QAL	2.6	0	7.8	0	1.2	0	0.342	1	2.286	1	6.689	1	2538	56	6.0
25685.5	10000	41.9847	92.7002	-922	QAL	2.6	0	8.0	0	1.2	0	0.328	1	2.112	0	6.435	0	2583	41	6.0
25685.4	10000	41.9847	92.6994	-923	QAL	2.6	0	8.0	0	1.2	0	0.327	1	2.130	0	6.508	0	2608	51	6.0
25685.3	10000	41.9847	92.6987	-924	QAL	2.8	1	7.5	0	1.2	0	0.371	1	2.340	1	6.300	0	2618	41	6.0
25685.2	10000	41.9847	92.6980	-925	QAL	2.5	1	7.5	0	1.2	0	0.338	1	2.113	0	6.248	0	2604	49	6.0
25685.1	10000	41.9847	92.6972	-927	QAL	2.8	1	7.2	0	1.2	0	0.389	1	2.316	1	5.949	0	2590	49	6.0
25685.0	10000	41.9847	92.6965	-928	QAL	2.6	1	7.0	0	1.2	0	0.375	1	2.151	0	5.735	0	2598	53	6.0
25684.9	10000	41.9848	92.6958	-927	QAL	2.5	1	6.8	0	1.2	0	0.363	1	2.078	0	5.726	-1	2600	47	6.0
25684.8	10000	41.9848	92.6950	-931	QAL	2.3	1	6.8	0	1.2	0	0.334	-1	1.975	-1	5.910	0	2589	38	6.0
25684.7	10000	41.9848	92.6943	-932	QAL	2.1	-1	6.7	0	1.1	-1	0.306	-1	1.803	-1	5.894	0	2579	44	6.0
25684.6	10000	41.9848	92.6936	-933	QAL	2.1	-1	6.7	0	1.1	-1	0.320	-1	1.885	-1	5.893	0	2575	42	6.0
25684.5	10000	41.9847	92.6929	-935	QAL	2.0	-1	6.2	0	1.1	-1	0.324	-1	1.798	-1	5.557	-1	2567	59	5.9
25684.4	10000	41.9847	92.6922	-936	QAL	2.2	-1	6.3	0	1.1	-1	0.342	-1	1.972	-1	5.765	0	2570	40	5.9
25684.3	10000	41.9847	92.6914	-938	QAL	2.1	-1	6.4	0	1.1	-1	0.335	-1	1.996	-1	5.966	0	2558	51	5.9
25684.2	10000	41.9847	92.6907	-939	QAL	2.2	-1	6.5	0	1.1	0	0.333	-1	2.122	0	6.366	0	2543	52	5.9
25684.1	10000	41.9846	92.6900	-941	QAL	2.5	0	6.3	0	1.1	0	0.403	0	2.446	0	6.073	0	2525	48	5.9
25684.0	10000	41.9846	92.6893	-942	QAL	2.5	0	6.2	0	1.1	0	0.409	0	2.449	0	5.994	0	2516	46	5.9
25683.9	10000	41.9846	92.6886	-944	QAL	2.3	0	6.7	0	1.1	0	0.336	-1	2.104	0	6.255	0	2511	45	5.9
25683.8	10000	41.9846	92.6879	-945	QAL	2.3	0	7.0	0	1.1	0	0.330	-1	2.062	-1	6.255	0	2491	55	5.9
25683.7	10000	41.9845	92.6872	-947	QAL	2.0	-1	7.0	0	1.1	0	0.282	-1	1.804	-1	6.387	0	2460	50	5.9
25683.6	10000	41.9845	92.6864	-948	QAL	1.7	-1	7.0	0	1.1	0	0.282	-1	1.805	-1	6.396	0	2421	39	5.9
25683.5	10000	41.9845	92.6857	-950	QAL	1.5	-2	7.0	0	1.1	0	0.248	-2	1.636	-1	6.605	1	2383	44	5.9
25683.4	10000	41.9845	92.6850	-952	QAL	1.9	-1	7.0	0	1.1	0	0.216	-2	1.462	-2	6.769	1	2351	40	5.9
25683.3	10000	41.9844	92.6843	-953	QAL	1.9	-1	6.7	0	1.0	0	0.291	-1	1.932	-1	6.646	1	2306	35	5.9
25683.2	10000	41.9844	92.6836	-955	QAL	2.0	-1	6.2	0	0.9	-1	0.330	-1	2.202	0	6.669	1	2237	44	5.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25683.1	10000	41.9844	92.6829	-956	QAL	2.2	0	5.6	-1	0.8	-2	0.394	0	2.726	1	6.915	1	2181	41	5.9
25683.0	10000	41.9844	92.6822	-958	QAL	2.3	0	5.6	-1	0.8	-2	0.408	0	2.878	1	7.055	1	2130	37	5.9
25682.9	10000	41.9843	92.6815	-959	QAL	2.4	0	5.4	-1	0.8	-2	0.441	1	3.186	2	7.225	1	2098	57	5.9
25682.8	10000	41.9843	92.6808	-961	QAL	2.6	0	5.2	-1	0.8	-2	0.499	1	3.318	2	6.650	1	2093	50	5.9
25682.7	10000	41.9843	92.6800	-963	QAL	2.3	0	5.1	-1	0.8	-2	0.453	1	3.070	1	6.779	1	2076	49	5.9
25682.6	10000	41.9843	92.6793	-964	QAL	2.3	0	5.3	-1	0.8	-2	0.425	1	2.837	1	6.679	1	2082	49	5.9
25682.5	10000	41.9842	92.6786	-965	QAL	2.1	-1	5.3	-1	0.8	-2	0.393	0	2.627	1	6.683	1	2103	40	5.9
25682.4	10000	41.9842	92.6779	-967	QAL	1.9	-1	5.4	-1	0.8	-2	0.350	0	2.352	0	6.724	1	2130	42	5.9
25682.3	10000	41.9842	92.6772	-968	QAL	2.2	-1	5.6	-1	0.8	-2	0.390	0	2.605	1	6.676	1	2176	37	5.9
25682.2	10000	41.9842	92.6765	-969	QAL	2.1	-1	5.7	-1	0.9	-1	0.359	0	2.393	0	6.667	1	2212	45	5.9
25682.1	10000	41.9841	92.6758	-970	QAL	2.0	-1	5.7	-1	0.9	-1	0.352	0	2.322	0	6.607	1	2199	52	5.9
25682.0	10000	41.9841	92.6750	-971	QAL	2.0	-1	5.7	-1	0.9	-1	0.360	0	2.387	0	6.636	1	2212	44	5.9
25681.9	10000	41.9841	92.6743	-973	QAL	1.9	-1	5.6	-1	0.8	-2	0.339	0	2.279	0	6.716	1	2194	45	5.9
25681.8	10000	41.9841	92.6736	-974	QAL	2.0	-1	5.6	-1	0.9	-1	0.352	0	2.273	0	6.449	0	2191	37	5.9
25681.7	10000	41.9840	92.6729	-976	QAL	1.8	-1	5.8	-1	0.9	-1	0.310	-1	2.021	-1	6.512	0	2172	37	5.9
25681.6	10000	41.9840	92.6722	-978	QAL	1.5	-2	5.7	-1	0.9	-1	0.259	-1	1.568	-1	6.052	0	2153	44	5.8
25681.5	10000	41.9840	92.6715	-980	QAL	1.5	-2	5.5	-1	0.9	-1	0.269	-1	1.585	-1	5.889	0	2142	55	5.8
25681.4	10000	41.9840	92.6708	-981	QAL	1.1	-3	5.7	-1	0.9	-1	0.187	-2	1.127	-2	6.031	0	2137	39	5.8
25681.3	10000	41.9839	92.6701	-982	QAL	1.1	-3	6.0	-1	1.0	-1	0.180	-2	1.082	-2	6.017	0	2132	51	5.8
25681.2	10000	41.9839	92.6694	-984	QAL	1.0	-3	5.3	0	1.0	-1	0.162	-2	1.027	-2	6.328	0	2145	38	5.8
25681.1	10000	41.9839	92.6686	-985	QAL	1.2	-2	6.2	0	1.0	-1	0.186	-2	1.156	-2	6.205	0	2158	48	5.8
25681.0	10000	41.9839	92.6679	-987	QAL	1.5	-2	6.2	0	1.0	-1	0.249	-2	1.534	-1	6.167	0	2210	57	5.8
25680.9	10000	41.9838	92.6672	-988	QAL	1.8	-1	6.2	0	1.0	-1	0.295	-1	1.843	-1	6.254	0	2263	48	5.8
25680.8	10000	41.9838	92.6665	-989	QAL	1.8	-1	6.3	0	1.0	0	0.281	-1	1.734	-1	6.168	0	2306	45	5.8
25680.7	10000	41.9838	92.6658	-991	QAL	2.3	0	6.2	0	1.1	0	0.368	0	2.136	0	5.803	0	2383	43	5.8
25680.6	10000	41.9838	92.6651	-993	QAL	2.7	0	6.2	0	1.1	0	0.437	1	2.411	0	5.514	-1	2466	47	5.8
25680.5	10000	41.9837	92.6644	-994	QAL	2.7	0	6.2	0	1.2	1	0.434	1	2.255	-1	5.199	-1	2517	44	5.8
25680.4	10000	41.9837	92.6637	-995	QAL	2.7	0	6.3	0	1.2	1	0.422	1	2.166	-1	5.132	-1	2555	43	5.8
25680.3	10000	41.9837	92.6629	-997	QAL	2.6	0	6.5	0	1.3	1	0.408	1	2.058	-1	5.046	-1	2573	46	5.8
25680.2	10000	41.9837	92.6622	-998	QAL	2.6	0	6.4	0	1.2	1	0.410	1	2.122	-1	5.170	-1	2569	44	5.8
25680.1	10000	41.9836	92.6615	-999	QAL	2.8	0	6.6	0	1.3	1	0.420	1	2.195	-1	5.229	-1	2582	52	5.8
25680.0	10000	41.9836	92.6608	-1000	QAL	2.6	0	6.8	0	1.2	1	0.388	0	2.175	-1	5.606	-1	2563	47	5.8
25679.9	10000	41.9836	92.6601	-1001	QAL	2.2	-1	6.7	0	1.1	0	0.324	-1	1.996	0	6.169	0	2542	45	5.8
25679.8	10000	41.9836	92.6594	-1002	QAL	2.5	-1	6.6	0	1.1	0	0.384	0	2.354	0	6.133	0	2541	45	5.8
25679.7	10000	41.9835	92.6587	-1003	QAL	2.9	-1	6.5	0	1.1	0	0.440	1	2.793	0	6.341	0	2539	54	5.8
25679.6	10000	41.9835	92.6580	-1005	QAL	3.1	-1	6.3	0	0.9	-1	0.499	1	3.325	1	6.664	1	2513	33	5.8
25679.5	10000	41.9835	92.6572	-1006	QAL	2.9	-1	6.6	0	0.9	-1	0.443	1	3.068	1	6.926	1	2502	38	5.7
25679.4	10000	41.9835	92.6565	-1007	QAL	3.0	-1	6.7	0	0.9	-1	0.453	1	3.357	2	7.406	2	2474	37	5.7
25679.3	10000	41.9834	92.6558	-1009	QAL	3.0	-1	6.4	0	0.9	-1	0.470	1	3.367	1	7.168	1	2452	64	5.7
25679.2	10000	41.9834	92.6551	-1010	QAL	3.2	-1	5.9	0	0.9	-1	0.545	1	3.645	1	6.691	1	2416	38	5.7
25679.1	10000	41.9834	92.6544	-1011	QAL	3.1	-1	5.9	0	0.9	-1	0.533	1	3.622	1	6.789	1	2400	55	5.7
25679.0	10000	41.9834	92.6537	-1011	QAL	2.8	-1	5.9	0	0.9	-1	0.485	1	3.284	1	6.774	1	2389	53	5.7
25678.9	10000	41.9833	92.6530	-1012	QAL	2.8	-1	6.0	0	0.9	-1	0.468	1	3.059	1	6.537	1	2390	51	5.7
25678.8	10000	41.9833	92.6523	-1013	QAL	3.2	-1	5.6	0	1.0	-1	0.579	1	3.341	1	5.767	0	2384	48	5.7
25678.7	10000	41.9833	92.6516	-1012	QAL	3.1	-1	5.5	0	1.0	-1	0.574	2	3.160	1	5.509	-1	2381	57	5.7
25678.6	10000	41.9832	92.6508	-1013	QAL	2.7	-1	5.5	0	1.0	-1	0.547	2	2.690	1	4.919	-2	2389	47	5.7
25678.5	10000	41.9832	92.6501	-1014	QAL	2.7	-1	5.6	0	1.1	-1	0.483	1	2.497	1	5.166	-1	2407	55	5.7
25678.4	10000	41.9832	92.6494	-1014	QAL	2.5	-1	5.7	0	1.1	-1	0.455	1	2.287	1	5.030	-1	2387	50	5.7
25678.3	10000	41.9832	92.6487	-1014	QAL	2.6	-1	5.7	0	1.1	-1	0.462	1	2.456	1	5.313	-1	2376	53	5.7
25678.2	10000	41.9832	92.6480	-1015	QAL	2.4	-1	5.9	-1	1.1	-1	0.416	1	2.245	1	5.402	-1	2350	40	5.7
25678.1	10000	41.9831	92.6473	-1017	QAL	1.9	-1	5.9	-1	1.0	-1	0.325	-1	1.924	-1	5.921	0	2332	36	5.7
25678.0	10000	41.9831	92.6466	-1016	QAL	1.9	-1	6.0	-1	1.0	0	0.322	-1	1.863	-1	5.780	0	2326	52	5.7

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25677.9	10000	41.9831	92.6458	-1016	QAL	2.2	0	6.5	0	1.0	0	0.340	0	2.197	0	6.470	0	2327	59	5.7
25677.8	10000	41.9830	92.6451	-1016	QAL	2.1	-1	6.3	0	1.0	-1	0.339	0	2.161	0	6.369	0	2317	51	5.7
25677.7	10000	41.9830	92.6444	-1016	QAL	2.2	0	6.2	0	1.0	-1	0.357	0	2.257	0	6.328	0	2330	38	5.7
25677.6	10000	41.9830	92.6437	-1015	QAL	2.2	0	6.4	0	1.0	0	0.343	0	2.168	0	6.322	0	2338	43	5.6
25677.5	10000	41.9830	92.6430	-1016	QAL	2.3	0	6.7	0	1.0	0	0.343	0	2.231	0	6.501	0	2348	54	5.6
25677.4	10000	41.9829	92.6423	-1016	QAL	2.3	0	6.6	0	1.1	0	0.345	0	2.135	0	6.184	0	2347	52	5.6
25677.3	10000	41.9829	92.6416	-1016	QAL	2.2	-1	6.1	0	1.1	0	0.353	0	2.030	-1	5.744	0	2323	38	5.6
25677.2	10000	41.9829	92.6409	-1016	QAL	2.1	-1	5.9	-1	1.1	0	0.361	0	1.931	-1	5.350	-1	2299	58	5.6
25677.1	10000	41.9829	92.6402	-1015	QAL	2.0	-1	6.1	0	1.1	0	0.332	-1	1.831	-1	5.523	-1	2272	52	5.6
25677.0	10000	41.9828	92.6394	-1015	QAL	1.9	-1	6.1	0	1.0	0	0.321	-1	1.881	-1	5.862	0	2231	56	5.6
25676.9	10000	41.9828	92.6387	-1015	QAL	1.8	-1	5.5	-1	1.0	0	0.320	-1	1.703	-1	5.330	-1	2184	45	5.6
25676.8	10000	41.9828	92.6380	-1014	QAL	1.4	-2	4.8	-2	1.0	0	0.284	-1	1.326	-2	4.673	-2	2141	41	5.6
25676.7	10000	41.9828	92.6373	-1015	QAL	1.5	-2	4.7	-2	1.0	-1	0.314	-1	1.472	-2	4.686	-2	2108	46	5.6
25676.6	10000	41.9827	92.6366	-1012	QAL	1.6	-2	4.9	-2	1.0	-1	0.318	-1	1.626	-1	5.106	-1	2084	53	5.6
25676.5	10000	41.9827	92.6359	-1010	QAL	1.6	-2	4.9	-2	0.9	-1	0.328	-1	1.776	-1	5.408	-1	2062	53	5.5
25676.4	10000	41.9827	92.6352	-1011	QAL	1.6	-2	4.5	-2	0.9	-1	0.351	0	1.764	-1	5.024	-1	2029	39	5.5
25676.3	10000	41.9827	92.6344	-1013	QAL	1.7	-1	4.5	-2	0.9	-1	0.367	0	1.795	-1	4.895	-2	2002	37	5.5
25676.2	10000	41.9826	92.6337	-1012	QAL	1.7	-1	4.6	-2	0.9	-1	0.364	0	1.852	-1	5.080	-1	1985	58	5.5
25676.1	10000	41.9826	92.6330	-1013	QK	1.8	-1	5.0	-2	0.9	-2	0.363	0	2.084	0	5.743	-1	1993	48	5.5
25676.0	10000	41.9826	92.6323	-1013	QK	1.8	-1	5.2	-2	0.9	-2	0.348	0	2.086	0	6.000	-1	2002	54	5.5
25675.9	10000	41.9826	92.6316	-1012	QK	1.8	-1	5.3	-2	0.9	-2	0.337	0	2.071	0	6.149	0	2000	61	5.5
25675.8	10000	41.9825	92.6309	-1011	QK	1.7	-2	5.0	-2	0.9	-2	0.330	0	1.930	-1	5.856	-1	1976	48	5.5
25675.7	10000	41.9825	92.6302	-1009	QK	1.7	-2	5.2	-2	0.8	-2	0.318	0	1.984	-1	6.246	0	1989	41	5.5
25675.6	10000	41.9825	92.6295	-1007	QK	1.5	-2	5.3	-2	0.8	-2	0.280	-1	1.779	-1	6.344	0	2009	48	5.5
25675.5	10000	41.9825	92.6288	-1006	QK	1.5	-2	5.3	-2	0.9	-2	0.286	-1	1.773	-1	6.199	0	2031	44	5.5
25675.4	10000	41.9824	92.6280	-1005	QK	1.3	-2	5.1	-2	0.9	-2	0.257	-1	1.425	-2	5.555	-1	2054	34	5.5
25675.3	10000	41.9824	92.6273	-1005	QK	1.3	-2	5.3	-2	1.0	-1	0.238	-2	1.286	-2	5.407	-2	2090	42	5.5
25675.2	10000	41.9824	92.6266	-1004	QK	1.2	-2	5.4	-2	1.0	-1	0.216	-2	1.154	-2	5.338	-2	2146	44	5.5
25675.1	10000	41.9824	92.6259	-1004	QK	1.2	-2	6.0	-1	1.1	0	0.205	-2	1.158	-2	5.660	-1	2220	42	5.5
25675.0	10000	41.9823	92.6252	-1002	QK	1.4	-2	6.3	-1	1.2	0	0.219	-2	1.224	-2	5.589	-1	2266	53	5.5
25674.9	10000	41.9823	92.6245	-1001	QK	1.7	-2	6.7	-1	1.2	0	0.253	-1	1.457	-2	5.762	-1	2326	31	5.4
25674.8	10000	41.9823	92.6238	-1000	QK	1.9	-2	7.2	-1	1.2	0	0.262	-1	1.602	-1	6.104	-1	2394	44	5.4
25674.7	10000	41.9823	92.6230	-997	QK	2.4	-1	7.6	0	1.2	0	0.315	0	1.964	-1	6.238	0	2436	53	5.4
25674.6	10000	41.9822	92.6223	-995	QK	2.5	-1	7.8	0	1.2	0	0.325	0	2.093	0	6.431	0	2459	44	5.4
25674.5	10000	41.9822	92.6216	-993	QK	2.5	-1	7.8	0	1.2	0	0.328	0	2.070	0	6.318	0	2458	39	5.4
25674.4	10000	41.9822	92.6209	-991	QK	2.4	-1	7.5	0	1.3	0	0.387	1	2.303	0	5.956	-1	2452	57	5.4
25674.3	10000	41.9822	92.6202	-989	QK	2.5	-1	7.3	0	1.2	0	0.408	1	2.408	0	5.907	-1	2452	48	5.4
25674.2	10000	41.9821	92.6195	-984	QK	2.3	-1	7.2	0	1.3	0	0.416	1	2.364	0	5.681	-1	2459	50	5.4
25674.1	10000	41.9821	92.6188	-982	QK	2.2	-1	7.0	0	1.2	0	0.410	1	2.268	0	5.533	-1	2444	50	5.4
25674.0	10000	41.9821	92.6181	-985	QK	2.0	-1	7.0	0	1.2	0	0.382	0	2.208	0	5.785	-1	2432	41	5.4
25673.9	10000	41.9821	92.6174	-986	QK	2.0	-1	7.0	0	1.2	0	0.383	1	2.165	0	5.656	-1	2435	55	5.4
25673.8	10000	41.9820	92.6166	-984	QK	2.0	-1	7.0	0	1.2	0	0.429	1	2.455	0	5.721	-1	2446	33	5.4
25673.7	10000	41.9820	92.6159	-982	QK	2.2	-1	7.0	0	1.2	0	0.456	1	2.706	1	5.936	-1	2474	51	5.4
25673.6	10000	41.9820	92.6152	-980	QK	2.2	-1	7.2	0	1.2	0	0.442	1	2.600	1	5.877	-1	2510	59	5.4
25673.5	10000	41.9819	92.6145	-978	QK	2.3	-1	7.3	0	1.2	0	0.453	1	2.671	1	5.893	-1	2514	37	5.3
25673.4	10000	41.9819	92.6138	-977	QK	2.4	-1	7.1	0	1.2	0	0.471	2	2.705	1	5.738	-1	2517	54	5.3
25673.3	10000	41.9819	92.6131	-975	QK	2.4	-1	6.9	0	1.2	0	0.489	2	2.733	1	5.584	-1	2520	44	5.3
25673.2	10000	41.9819	92.6124	-972	QK	2.6	-1	6.8	0	1.2	0	0.526	2	2.940	1	5.586	-1	2515	55	5.3
25673.1	10000	41.9818	92.6117	-970	QK	2.4	-1	6.9	0	1.2	0	0.497	2	2.937	1	5.914	-1	2523	46	5.3
25673.0	10000	41.9818	92.6109	-967	QK	2.1	-1	7.2	0	1.2	0	0.424	1	2.645	1	6.242	0	2522	46	5.3
25672.9	10000	41.9818	92.6102	-964	QK	1.9	-2	7.2	0	1.1	0	0.402	1	2.535	1	6.307	0	2519	56	5.3
25672.8	10000	41.9818	92.6095	-963	QK	2.6	0	7.1	0	1.1	0	0.366	0	2.333	0	6.373	0	2519	45	5.3

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25672.7	10000	41.9818	92.6088	-962	QK	2.5	0	7.3	0	1.1	0	0.335	0	2.282	0	6.815	0	2530	47	5.3
25672.6	10000	41.9817	92.6081	-959	QK	2.7	0	7.8	1	1.1	0	0.348	0	2.408	0	6.912	1	2540	56	5.3
25672.5	10000	41.9817	92.6074	-957	QK	2.6	0	7.8	1	1.1	0	0.329	0	2.232	0	6.787	0	2542	60	5.3
25672.4	10000	41.9817	92.6067	-955	QK	2.6	0	7.6	1	1.2	0	0.349	0	2.268	0	6.507	0	2534	41	5.3
25672.3	10000	41.9816	92.6060	-953	QK	2.6	0	7.9	1	1.2	1	0.321	0	2.149	0	6.696	0	2529	61	5.3
25672.2	10000	41.9816	92.6052	-950	QK	2.8	1	8.0	1	1.2	1	0.358	0	2.399	0	6.701	0	2527	37	5.3
25672.1	10000	41.9816	92.6045	-948	QK	2.9	1	7.9	1	1.2	1	0.374	0	2.468	0	6.594	0	2541	51	5.2
25672.0	10000	41.9816	92.6038	-945	QK	3.1	1	7.7	1	1.2	1	0.400	1	2.472	0	6.177	0	2555	44	5.2
25671.9	10000	41.9815	92.6031	-943	QK	3.1	1	7.3	0	1.2	1	0.422	1	2.590	1	6.137	0	2577	45	5.2
25671.8	10000	41.9815	92.6024	-941	QK	3.2	1	7.5	0	1.2	1	0.429	1	2.696	1	6.283	0	2602	67	5.2
25671.7	10000	41.9815	92.6017	-939	QK	3.2	1	7.9	1	1.2	1	0.401	1	2.622	1	6.546	0	2633	52	5.2
25671.6	10000	41.9815	92.6010	-937	QK	3.3	2	7.3	0	1.2	1	0.457	1	2.724	1	5.964	-1	2642	52	5.2
25671.5	10000	41.9814	92.6003	-935	QK	3.5	2	7.4	0	1.2	1	0.474	2	2.891	1	6.099	-1	2662	46	5.2
25671.4	10000	41.9814	92.5995	-932	QK	3.7	2	7.5	0	1.2	1	0.491	2	3.036	2	6.186	0	2672	45	5.2
25671.3	10000	41.9814	92.5988	-930	QK	3.5	2	7.4	0	1.2	1	0.476	2	2.968	1	6.236	0	2660	54	5.2
25671.2	10000	41.9814	92.5981	-927	QAL	3.4	2	7.6	1	1.2	1	0.449	1	2.755	1	6.141	0	2658	34	5.2
25671.1	10000	41.9813	92.5974	-925	QAL	3.3	2	7.4	1	1.2	1	0.448	1	2.716	1	6.060	0	2655	41	5.2
25671.0	10000	41.9813	92.5967	-923	QAL	3.2	1	7.3	1	1.3	2	0.443	1	2.488	0	5.615	-1	2637	56	5.2
25670.9	10000	41.9813	92.5960	-921	QAL	3.1	1	7.2	1	1.3	2	0.439	1	2.382	0	5.421	-1	2618	56	5.2
25670.8	10000	41.9813	92.5953	-919	QAL	2.7	0	6.9	0	1.3	2	0.389	0	2.008	-1	5.163	-1	2583	50	5.2
25670.7	10000	41.9812	92.5946	-917	QAL	3.1	1	6.8	0	1.3	1	0.462	1	2.432	0	5.259	-1	2544	44	5.2
25670.6	10000	41.9812	92.5939	-915	QAL	3.3	2	6.8	0	1.2	1	0.485	1	2.679	1	5.523	-1	2533	43	5.2
25670.5	10000	41.9812	92.5931	-913	QAL	3.3	2	6.8	0	1.2	1	0.490	1	2.699	1	5.506	-1	2531	40	5.1
25670.4	10000	41.9811	92.5924	-910	QAL	3.4	2	6.8	0	1.2	1	0.506	1	2.786	1	5.509	-1	2529	36	5.1
25670.3	10000	41.9811	92.5917	-908	QAL	3.4	2	6.6	0	1.1	0	0.515	2	2.989	1	5.202	0	2531	47	5.1
25670.2	10000	41.9811	92.5910	-906	QAL	3.3	2	6.8	0	1.2	1	0.473	1	2.732	1	5.774	0	2577	55	5.1
25670.1	10000	41.9811	92.5903	-903	QAL	3.3	2	6.8	0	1.3	1	0.489	1	2.801	1	5.733	0	2598	42	5.1
25670.0	10000	41.9810	92.5896	-900	QAL	2.7	2	6.9	0	1.3	0	0.389	0	2.115	0	5.432	-1	2628	51	5.1
25669.9	10000	41.9810	92.5889	-895	QAL	2.7	1	7.0	0	1.3	1	0.386	0	2.073	0	5.368	-1	2648	41	5.1
25669.8	10000	41.9810	92.5882	-891	QAL	2.4	1	7.2	0	1.3	0	0.332	-1	1.800	-1	5.418	-1	2639	50	5.1
25669.7	10000	41.9810	92.5874	-890	QAL	2.3	1	7.3	0	1.3	0	0.311	-1	1.730	-1	5.557	-1	2629	53	5.1
25669.6	10000	41.9809	92.5867	-892	QAL	2.5	1	7.5	1	1.3	1	0.329	-1	1.868	-1	5.672	-1	2627	40	5.1
25669.5	10000	41.9809	92.5860	-893	QK	2.8	1	7.7	1	1.2	1	0.356	0	2.235	0	6.276	0	2607	39	5.1
25669.4	10000	41.9809	92.5853	-894	QK	2.9	1	7.7	1	1.2	1	0.380	0	2.447	0	6.439	0	2599	53	5.1
25669.3	10000	41.9809	92.5846	-894	QK	2.9	1	7.8	1	1.2	1	0.402	1	2.646	1	6.575	0	2594	47	5.1
25669.2	10000	41.9808	92.5839	-894	QK	2.8	1	8.0	1	1.2	0	0.376	0	2.520	1	6.706	0	2592	46	5.1
25669.1	10000	41.9808	92.5832	-894	QK	3.2	1	7.5	1	1.2	1	0.470	1	3.068	2	6.529	0	2585	59	5.1
25669.0	10000	41.9808	92.5825	-895	QK	3.0	1	7.3	1	1.1	1	0.481	1	3.085	2	6.414	0	2559	49	5.1
25668.9	10000	41.9808	92.5817	-895	QK	2.4	1	7.1	1	1.2	1	0.473	1	2.907	1	6.142	0	2515	62	5.1
25668.8	10000	41.9807	92.5810	-896	QK	2.3	1	6.7	1	1.2	1	0.464	1	2.662	1	5.741	-1	2477	44	5.1
25668.7	10000	41.9807	92.5803	-897	QK	2.2	1	6.5	1	1.2	1	0.500	1	2.793	1	5.583	-1	2466	49	5.1
25668.6	10000	41.9807	92.5796	-898	QK	2.1	1	6.0	-1	1.1	1	0.546	1	2.911	1	5.336	-2	2426	49	5.1
25668.5	10000	41.9807	92.5789	-900	QK	2.2	1	5.8	-1	1.1	1	0.553	2	2.987	2	5.400	-2	2387	46	5.1
25668.4	10000	41.9806	92.5782	-902	QK	2.1	1	6.0	-1	1.0	1	0.512	2	2.951	1	5.763	-1	2366	48	5.1
25668.3	10000	41.9806	92.5775	-903	QK	2.0	1	6.2	-1	1.0	1	0.508	2	2.940	1	5.791	-1	2355	57	5.1
25668.2	10000	41.9806	92.5768	-904	QK	1.9	1	6.4	-1	1.0	1	0.476	2	2.918	1	6.132	-1	2361	62	5.1
25668.1	10000	41.9806	92.5760	-903	QK	1.8	1	6.5	-1	1.1	1	0.456	2	2.832	1	6.216	0	2377	46	5.1
25668.0	10000	41.9805	92.5753	-904	QK	1.6	1	7.1	0	1.1	1	0.407	1	2.460	1	6.039	-1	2379	49	5.1
25667.9	10000	41.9805	92.5746	-907	QK	1.4	0	7.0	-1	1.2	1	0.350	1	2.171	1	6.204	0	2406	62	5.1
25667.8	10000	41.9805	92.5739	-910	QK	1.3	0	7.1	-1	1.2	1	0.331	1	1.970	-1	5.949	-1	2422	50	5.1
25667.7	10000	41.9805	92.5732	-912	QK	1.2	0	7.2	-1	1.2	1	0.314	-1	1.806	-1	5.749	-1	2436	46	5.1
25667.6	10000	41.9804	92.5725	-914	QK	2.5	0	7.2	0	1.2	1	0.343	0	2.028	-1	5.919	-1	2452	49	5.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25667.5	10000	41.9804	92.5718	-915	QK	2.7	0	7.3	0	1.2	1	0.371	0	2.164	0	5.838	-1	2477	37	5.1
25667.4	10000	41.9804	92.5711	-917	QK	2.8	1	7.0	0	1.2	1	0.404	1	2.348	0	5.810	-1	2489	41	5.1
25667.3	10000	41.9803	92.5703	-919	QK	2.8	0	7.6	1	1.2	1	0.368	0	2.371	0	6.437	0	2485	45	5.1
25667.2	10000	41.9804	92.5696	-920	QK	2.8	0	7.5	0	1.1	0	0.367	0	2.397	0	6.533	0	2475	37	5.1
25667.1	10000	41.9804	92.5689	-921	QK	2.8	1	7.7	1	1.1	0	0.415	1	2.840	1	6.841	1	2475	41	5.1
25667.0	10000	41.9804	92.5681	-922	QK	2.8	1	7.5	0	1.1	0	0.427	1	2.876	1	6.739	0	2471	45	5.1
25666.9	10000	41.9803	92.5674	-923	QK	2.8	1	7.9	1	1.1	0	0.377	0	2.615	1	6.936	1	2472	46	5.1
25666.8	10000	41.9804	92.5667	-923	QK	2.8	1	7.7	1	1.1	0	0.409	1	2.756	1	6.740	0	2488	49	5.1
25666.7	10000	41.9803	92.5659	-924	QK	2.8	1	8.0	1	1.2	0	0.401	1	2.782	1	6.935	1	2492	43	5.1
25666.6	10000	41.9803	92.565[illegible]	-923	QK	2.9	1	7.7	1	1.2	1	0.439	1	2.841	1	6.772	0	2503	50	5.1
25666.5	10000	41.9804	92.564[illegible]	-924	QK	2.9	1	7.9	1	1.2	1	0.456	1	2.956	1	6.480	0	2540	48	5.1
25666.4	10000	41.9803	92.5637	-925	QK	2.9	1	7.[illegible]	1	1.3	1	0.477	1	2.898	1	6.080	-1	2583	47	5.1
25666.3	10000	41.9803	92.5630	-925	QK	3.0	1	7.[illegible]	1	1.3	1	0.551	2	3.286	2	5.969	-1	2609	41	5.1
25666.2	10000	41.9804	92.5622	-925	QK	3.0	1	7.4	1	1.3	2	0.614	2	3.481	2	5.671	-1	2653	43	5.1
25666.1	10000	41.9804	92.5615	-924	QK	3.0	1	7.4	1	1.3	1	0.566	2	3.228	2	5.725	-1	2602	38	5.1
25666.0	10000	41.9804	92.5607	-925	QK	3.0	1	7.5	1	1.3	2	0.555	2	3.160	2	5.699	-1	2664	37	5.1
25665.9	10000	41.9804	92.5600	-924	QK	3.0	1	7.7	1	1.3	1	0.498	2	2.967	1	5.954	-1	2665	43	5.1
25665.8	10000	41.9804	92.5592	-923	QK	3.0	1	7.4	1	1.3	1	0.486	2	2.833	1	5.832	-1	2638	52	5.1
25665.7	10000	41.9803	92.5585	-922	QK	3.0	1	7.6	1	1.2	1	0.465	2	2.953	1	6.356	0	2600	41	5.1
25665.6	10000	41.9804	92.5578	-921	QK	3.0	1	7.6	1	1.2	1	0.406	1	2.583	1	6.359	0	2584	55	5.1
25665.5	10000	41.9804	92.5570	-920	QK	2.9	1	7.3	0	1.2	0	0.351	0	2.208	0	6.295	0	2543	39	5.1
25665.4	10000	41.9803	92.5563	-920	QK	2.9	1	7.3	0	1.2	0	0.370	0	2.330	0	6.296	0	2545	38	5.1
25665.3	10000	41.9803	92.5556	-919	QK	2.8	1	7.2	0	1.2	0	0.382	0	2.452	0	6.425	0	2539	39	5.1
25665.2	10000	41.9804	92.5548	-918	QK	2.9	1	6.9	0	1.1	0	0.429	1	2.668	1	6.215	0	2544	49	5.1
25665.1	10000	41.9804	92.5541	-917	QK	3.0	1	6.9	0	1.1	0	0.439	1	2.711	1	6.183	0	2558	48	5.1
25665.0	10000	41.9803	92.5533	-916	QK	2.6	1	7.0	1	1.2	1	0.366	1	2.168	0	5.922	-1	2583	50	5.1
25664.9	10000	41.9804	92.5526	-915	QK	2.6	1	7.6	1	1.2	1	0.347	0	2.205	0	6.362	0	2614	42	5.1
25664.8	10000	41.9804	92.5519	-914	QK	2.4	1	7.8	1	1.3	1	0.311	-1	1.900	-1	6.105	-1	2631	45	5.1
25664.7	10000	41.9803	92.5511	-912	QK	2.3	1	8.0	1	1.3	1	0.286	-1	1.740	-1	6.084	-1	2623	46	5.1
25664.6	10000	41.9804	92.5504	-912	QK	2.2	1	8.0	1	1.4	1	0.279	-1	1.638	-1	5.876	-1	2632	52	5.1
25664.5	10000	41.9803	92.5497	-910	QK	2.1	1	8.2	1	1.4	1	0.261	-1	1.565	-1	5.996	-1	2618	53	5.1
25664.4	10000	41.9803	92.5489	-908	QK	2.3	1	8.4	2	1.4	1	0.270	-1	1.677	-1	6.214	0	2609	49	5.1
25664.3	10000	41.9803	92.5482	-907	QK	2.4	1	8.3	2	1.4	1	0.294	-1	1.775	-1	6.041	-1	2589	37	5.1
25664.2	10000	41.9803	92.5474	-906	QK	2.4	0	8.0	2	1.4	1	0.304	-1	1.691	-1	5.567	-1	2566	59	5.1
25664.1	10000	41.9803	92.5467	-904	QK	2.3	1	8.0	2	1.4	1	0.376	0	2.217	0	5.903	-1	2554	51	5.1
25664.0	10000	41.9803	92.5459	-902	QK	2.4	0	7.9	2	1.4	1	0.368	0	2.127	0	5.787	-1	2539	47	5.1
25663.9	10000	41.9804	92.5452	-901	QK	2.3	0	7.9	2	1.4	1	0.357	0	2.076	0	5.815	-1	2513	40	5.1
25663.8	10000	41.9803	92.5445	-901	QK	2.2	0	7.9	2	1.4	1	0.321	-1	2.009	-1	6.259	0	2527	40	5.1
25663.7	10000	41.9803	92.5437	-901	QK	2.1	0	8.1	2	1.3	1	0.317	-1	1.960	-1	6.176	0	2514	54	5.1
25663.6	10000	41.9803	92.5430	-900	QK	2.2	0	8.0	2	1.3	1	0.345	0	2.124	0	6.157	0	2503	44	5.1
25663.5	10000	41.9803	92.5423	-899	QK	2.2	0	7.9	2	1.3	1	0.338	0	2.261	0	6.691	0	2465	42	5.1
25663.4	10000	41.9803	92.5415	-898	QK	2.1	0	7.5	2	1.2	1	0.316	0	2.047	0	6.475	0	2413	52	5.1
25663.3	10000	41.9803	92.5408	-898	QK	2.2	0	7.2	2	1.1	1	0.355	0	2.282	0	6.422	0	2390	38	5.1
25663.2	10000	41.9803	92.5400	-896	QK	2.2	0	7.0	2	1.1	1	0.385	0	2.566	1	6.658	0	2377	61	5.1
25663.1	10000	41.9803	92.5393	-895	QK	2.2	0	6.6	1	1.1	1	0.422	1	2.542	1	6.019	-1	2359	48	5.1
25663.0	10000	41.9804	92.5386	-895	QK	2.2	0	6.8	1	1.1	1	0.391	0	2.409	1	6.153	0	2373	50	5.1
25662.9	10000	41.9803	92.5378	-893	QK	2.2	0	6.7	1	1.1	1	0.383	0	2.380	1	6.220	0	2391	57	5.1
25662.8	10000	41.9803	92.5371	-893	QK	2.1	0	6.8	1	1.1	1	0.392	0	2.339	1	5.961	-1	2437	56	5.1
25662.7	10000	41.9804	92.5363	-892	QK	2.3	0	7.0	1	1.1	1	0.423	1	2.602	1	6.106	-1	2494	39	5.1
25662.6	10000	41.9803	92.5356	-890	QK	2.1	0	7.6	1	1.2	1	0.415	1	2.639	1	6.360	0	2525	43	5.1
25662.5	10000	41.9803	92.5349	-888	QK	2.9	1	7.4	1	1.2	1	0.391	0	2.401	1	6.145	0	2530	47	5.1
25662.4	10000	41.9803	92.5341	-887	QK	3.1	1	7.1	0	1.2	0	0.431	1	2.600	1	6.031	-1	2528	56	5.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25662.3	10000	41.9803	92.5334	-885	QK	3.4	2	7.3	0	1.2	1	0.472	2	2.907	1	6.164	0	2519	38	5.1
25662.2	10000	41.9803	92.5326	-884	QK	3.3	2	7.2	0	1.2	1	0.453	1	2.803	1	6.185	0	2488	48	5.1
25662.1	10000	41.9803	92.5319	-883	QK	3.1	1	7.2	0	1.1	0	0.428	1	2.722	1	6.356	0	2459	42	5.1
25662.0	10000	41.9803	92.5312	-881	QK	2.7	0	7.4	0	1.2	0	0.362	1	2.324	0	6.419	0	2439	49	5.1
25661.9	10000	41.9803	92.5304	-880	QK	2.5	0	7.5	0	1.1	0	0.336	0	2.197	0	6.548	0	2428	45	5.1
25661.8	10000	41.9803	92.5297	-879	QK	2.7	0	7.5	0	1.1	0	0.366	0	2.466	0	6.739	0	2404	56	5.1
25661.7	10000	41.9803	92.5289	-878	QK	2.8	1	7.4	0	1.1	0	0.376	0	2.568	1	6.834	0	2398	36	5.1
25661.6	10000	41.9803	92.5282	-877	QK	2.5	0	7.2	0	1.1	0	0.350	0	2.355	0	6.719	0	2389	40	5.1
25661.5	10000	41.9803	92.5275	-876	QK	2.7	0	7.1	0	1.1	0	0.385	0	2.539	1	6.599	0	2401	49	5.1
25661.4	10000	41.9803	92.5267	-875	QK	2.9	1	6.9	0	1.1	0	0.419	1	2.646	1	6.311	0	2415	43	5.1
25661.3	10000	41.9803	92.5260	-874	QK	3.4	2	6.7	-1	1.1	0	0.504	2	3.100	2	6.151	0	2439	46	5.1
25661.2	10000	41.9803	92.5253	-873	QK	3.4	2	6.4	-1	1.0	-1	0.533	3	3.321	2	6.226	0	2447	47	5.1
25661.1	10000	41.9803	92.5245	-873	QK	3.6	2	6.7	-1	1.1	0	0.531	2	3.244	2	6.110	-1	2492	50	5.1
25661.0	10000	41.9803	92.5238	-871	QK	3.3	2	7.0	0	1.1	0	0.473	2	2.960	1	6.260	0	2508	44	5.1
25660.9	10000	41.9803	92.5230	-870	QK	3.5	2	7.2	0	1.1	0	0.488	2	3.062	2	6.269	0	2525	50	5.1
25660.8	10000	41.9803	92.5223	-869	QK	3.5	2	7.7	1	1.2	0	0.452	1	3.013	2	6.661	0	2533	51	5.1
25660.7	10000	41.9803	92.5216	-868	QK	3.3	2	7.8	1	1.2	0	0.426	1	2.837	1	6.652	0	2525	44	5.1
25660.6	10000	41.9803	92.5208	-868	QK	3.0	1	7.9	1	1.2	1	0.385	0	2.499	0	6.498	0	2497	41	5.1
25660.5	10000	41.9803	92.5201	-867	QK	2.9	1	7.8	1	1.3	1	0.369	0	2.277	0	6.178	0	2483	45	5.1
25660.4	10000	41.9803	92.5193	-867	QK	2.5	0	8.0	1	1.3	1	0.311	-1	1.948	-1	6.266	0	2450	45	5.2
25660.3	10000	41.9803	92.5186	-865	QK	2.4	0	7.8	1	1.3	1	0.315	-1	1.932	-1	6.138	0	2414	56	5.2
25660.2	10000	41.9803	92.5179	-864	QK	2.3	0	7.5	1	1.2	1	0.307	-1	1.864	-1	6.070	-1	2387	42	5.2
25660.1	10000	41.9803	92.5171	-865	QK	2.2	-1	7.4	1	1.3	1	0.303	-1	1.782	-1	5.875	-1	2367	60	5.2
25660.0	10000	41.9803	92.5164	-865	QK	2.3	-1	7.7	1	1.2	1	0.294	-1	1.804	-1	6.133	0	2371	42	5.2
25659.9	10000	41.9803	92.5156	-864	QK	2.4	0	7.9	1	1.2	1	0.300	-1	1.919	-1	6.405	0	2401	59	5.2
25659.8	10000	41.9803	92.5149	-863	QK	2.4	0	7.8	1	1.2	1	0.312	-1	1.986	-1	6.373	0	2415	59	5.2
25659.7	10000	41.9803	92.5142	-863	QK	2.9	1	7.4	0	1.2	1	0.392	1	2.402	0	6.130	-1	2440	51	5.2
25659.6	10000	41.9803	92.5134	-861	QK	2.9	1	7.5	0	1.2	1	0.393	1	2.426	0	6.171	0	2477	51	5.2
25659.5	10000	41.9803	92.5127	-860	QK	3.0	1	7.7	1	1.3	1	0.384	0	2.362	0	6.147	0	2490	56	5.2
25659.4	10000	41.9803	92.5119	-859	QK	2.8	1	7.6	1	1.2	1	0.372	0	2.313	0	6.220	0	2490	45	5.2
25659.3	10000	41.9803	92.5112	-857	QK	2.8	1	7.7	1	1.2	1	0.364	0	2.401	0	6.603	0	2464	47	5.2
25659.2	10000	41.9803	92.5105	-856	QK	2.4	0	7.5	0	1.2	1	0.323	0	2.070	0	6.407	0	2418	48	5.2
25659.1	10000	41.9803	92.5097	-856	QK	2.2	-1	7.4	0	1.1	0	0.297	-1	1.998	-1	6.716	0	2396	51	5.2
25659.0	10000	41.9803	92.5090	-856	QK	1.9	-1	7.4	0	1.1	0	0.254	-1	1.768	-1	6.949	1	2364	45	5.2
25658.9	10000	41.9803	92.5083	-856	QK	2.0	-1	7.6	0	1.0	-1	0.268	-1	1.994	-1	7.447	1	2332	50	5.2
25658.8	10000	41.9803	92.5075	-855	QK	2.1	-1	7.2	0	1.0	-1	0.293	-1	2.144	0	7.316	1	2322	42	5.2
25658.7	10000	41.9803	92.5068	-855	QK	1.9	-1	7.2	0	1.0	-1	0.265	-1	1.900	-1	7.175	1	2323	45	5.2
25658.6	10000	41.9803	92.5060	-855	QK	1.7	-2	6.8	-1	1.1	-1	0.248	-1	1.603	-1	6.451	0	2318	49	5.2
25658.5	10000	41.9803	92.5053	-855	QK	1.7	-2	6.5	-1	1.0	-1	0.266	-1	1.657	-1	6.227	0	2305	39	5.2
25658.4	10000	41.9803	92.5045	-854	QK	2.0	-1	6.5	-1	1.1	0	0.315	0	1.929	-1	6.119	-1	2270	51	5.2
25658.3	10000	41.9803	92.5038	-854	QK	1.8	-1	6.5	-1	1.1	0	0.275	-1	1.662	-1	6.036	-1	2248	43	5.2
25658.2	10000	41.9803	92.5031	-853	QK	1.7	-2	6.3	-1	1.1	0	0.266	-1	1.539	-2	5.786	-1	2212	43	5.2
25658.1	10000	41.9803	92.5023	-853	QK	1.5	-2	6.4	-1	1.1	0	0.233	-2	1.400	-2	6.008	-1	2169	61	5.2
25658.0	10000	41.9803	92.5016	-855	QK	1.8	-2	6.1	-2	1.0	-1	0.291	-1	1.765	-1	6.075	-1	2110	46	5.2
25657.9	10000	41.9803	92.5009	-856	QK	1.9	-1	6.0	-2	1.0	-1	0.315	-1	1.983	-1	6.288	0	2077	46	5.2
25657.8	10000	41.9803	92.5001	-855	QK	2.1	-1	6.3	-1	0.9	-2	0.334	0	2.228	0	6.672	0	2075	43	5.2
25657.7	10000	41.9803	92.4994	-855	QK	2.1	-1	6.1	-1	1.0	-1	0.339	0	2.192	0	6.472	0	2103	48	5.2
25657.6	10000	41.9803	92.4986	-855	QK	2.2	-1	6.0	-2	0.9	-2	0.374	0	2.412	0	6.456	0	2134	30	5.2
25657.5	10000	41.9803	92.4979	-855	QK	2.5	0	6.2	-1	0.9	-1	0.402	0	2.613	0	6.504	0	2183	60	5.2
25657.4	10000	41.9803	92.4972	-856	QK	2.4	0	6.2	-1	1.0	-1	0.377	0	2.372	0	6.290	0	2235	47	5.2
25657.3	10000	41.9803	92.4964	-855	QK	2.4	0	6.5	-1	1.1	0	0.375	0	2.285	0	6.101	-1	2314	44	5.2
25657.2	10000	41.9803	92.4957	-856	QK	2.6	0	6.4	-1	1.1	0	0.411	1	2.315	0	5.637	-1	2378	56	5.2

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
25657.1	10000	41.9803	92.4949	-856	QK	2.7	0	6.2	-1	1.1	0	0.439	1	2.396	0	5.462	-1	2419	58	5.2
25657.0	10000	41.9803	92.4942	-856	QK	3.1	1	6.4	-1	1.1	0	0.476	2	2.768	1	5.811	-1	2432	43	5.2
25656.9	10000	41.9803	92.4935	-857	QK	3.3	2	6.5	-1	1.1	0	0.509	2	2.988	2	5.870	-1	2431	32	5.2
25656.8	10000	41.9803	92.4927	-857	QK	3.1	1	6.5	-1	1.1	0	0.483	2	2.836	1	5.870	-1	2412	40	5.2
25656.7	10000	41.9803	92.4920	-857	QAL	3.2	1	6.3	0	1.1	0	0.513	2	2.982	1	5.815	0	2398	43	5.2
25656.6	10000	41.9803	92.4912	-856	QAL	3.2	1	6.3	0	1.0	0	0.515	2	3.070	1	5.957	0	2384	37	5.2
25656.5	10000	41.9803	92.4905	-856	QAL	3.4	2	6.8	0	1.0	-1	0.498	1	3.435	2	6.897	1	2363	34	5.2
25656.4	10000	41.9803	92.4898	-856	QAL	3.2	1	6.6	0	1.0	-1	0.478	1	3.170	2	6.628	1	2329	44	5.2
25656.3	10000	41.9803	92.4890	-855	QAL	2.4	0	6.5	0	1.0	0	0.378	0	2.336	0	6.175	0	2305	39	5.2
25656.2	10000	41.9803	92.4883	-855	QAL	2.2	0	6.7	0	1.1	0	0.335	-1	2.098	0	6.258	0	2284	38	5.2
25656.1	10000	41.9803	92.4875	-855	QAL	2.3	0	6.5	0	1.0	0	0.353	0	2.172	0	6.147	0	2290	46	5.2
25656.0	10000	41.9803	92.4868	-854	QAL	2.6	0	6.5	0	1.0	0	0.397	0	2.557	0	6.434	0	2295	52	5.2
25655.9	10000	41.9803	92.4861	-854	QAL	2.3	0	6.6	0	1.0	0	0.352	0	2.252	0	6.405	0	2292	42	5.2
25655.8	10000	41.9803	92.4853	-853	QAL	1.7	-1	6.1	0	1.1	0	0.278	-1	1.596	-1	5.749	0	2280	45	5.2
25655.7	10000	41.9803	92.4846	-853	QAL	1.6	-1	6.4	0	1.1	0	0.257	-1	1.503	-1	5.836	0	2304	46	5.2
25655.6	10000	41.9803	92.4839	-852	QAL	2.1	-1	6.8	0	1.1	0	0.304	-1	1.933	-1	6.367	0	2332	39	5.2
25655.5	10000	41.9803	92.4831	-852	QAL	1.9	-1	6.3	0	1.1	0	0.308	-1	1.811	-1	5.876	0	2352	47	5.2
25655.4	10000	41.9803	92.4824	-851	QAL	2.0	-1	6.2	0	1.0	0	0.331	-1	1.955	-1	5.915	0	2361	42	5.2
25655.3	10000	41.9803	92.4816	-850	QAL	2.0	-1	5.9	-1	1.1	0	0.334	-1	1.724	-1	5.157	-1	2352	42	5.2
25655.2	10000	41.9803	92.4809	-847	QAL	2.3	0	5.6	-1	1.1	0	0.408	0	2.051	0	5.025	-1	2344	61	5.2
25655.1	10000	41.9803	92.4802	-849	QAL	2.7	1	5.7	-1	1.1	0	0.482	1	2.412	0	5.001	-1	2370	45	5.2
25655.0	10000	41.9803	92.4794	-849	QAL	3.0	1	5.6	-1	1.1	0	0.532	2	2.661	1	5.001	-1	2373	41	5.2
25654.9	10000	41.9803	92.4787	-849	QAL	2.9	1	5.2	-1	1.2	1	0.562	2	2.534	0	4.506	-2	2375	56	5.2
25654.8	10000	41.9803	92.4779	-848	QAL	3.2	1	5.5	-1	1.2	1	0.592	2	2.765	1	4.674	-2	2378	46	5.2
31764.7	10000	41.9794	92.4768	-834	QAL	2.8	1	6.2	0	0.9	-1	0.459	1	3.135	2	6.833	1	1583	39	1.1
31764.6	10000	41.9794	92.4760	-834	QAL	2.8	1	6.2	0	0.9	-1	0.442	1	3.074	2	6.952	1	1575	49	1.1
31764.5	10000	41.9794	92.4753	-833	QAL	2.9	1	6.0	-1	0.9	-1	0.480	1	3.175	2	6.614	1	1584	64	1.1
31764.4	10000	41.9794	92.4745	-833	QAL	3.1	1	5.8	-1	0.9	-1	0.526	2	3.450	2	6.554	1	1577	38	1.1
31764.3	10000	41.9794	92.4737	-832	QAL	3.2	1	5.4	-1	0.9	-1	0.592	2	3.694	2	6.244	0	1552	37	1.1
31764.2	10000	41.9794	92.4730	-832	QAL	3.2	1	5.2	-1	0.8	-2	0.601	2	3.693	2	6.146	0	1537	48	1.1
31764.1	10000	41.9795	92.4722	-832	QAL	2.9	1	5.5	-1	0.9	-1	0.535	2	3.437	2	6.424	0	1539	52	1.2
31764.0	10000	41.9795	92.4714	-831	QAL	2.8	1	5.5	-1	0.9	-1	0.520	2	3.289	2	6.320	0	1523	48	1.2
31763.9	10000	41.9795	92.4707	-830	QK	2.9	1	5.1	-1	0.9	-2	0.568	2	3.309	2	5.823	-1	1520	51	1.2
31763.8	10000	41.9795	92.4699	-831	QK	2.6	1	5.2	-1	0.9	-2	0.493	2	2.916	1	5.913	-1	1504	50	1.2
31763.7	10000	41.9795	92.4691	-830	QK	2.4	1	5.3	-1	0.9	-2	0.456	1	2.653	1	5.813	-1	1495	51	1.3
31763.6	10000	41.9795	92.4684	-829	QK	2.1	0	5.1	-1	0.9	-2	0.414	1	2.287	1	5.519	-1	1497	41	1.3
31763.5	10000	41.9795	92.4676	-828	QK	2.1	0	5.4	-1	0.9	-2	0.394	1	2.293	1	5.821	-1	1514	49	1.3
31763.4	10000	41.9796	92.4668	-828	QK	2.3	0	5.2	-1	0.9	-2	0.450	1	2.532	1	5.627	-1	1524	48	1.4
31763.3	10000	41.9796	92.4661	-826	QK	2.4	0	5.4	-1	0.9	-2	0.442	1	2.612	1	5.907	-1	1536	45	1.4
31763.2	10000	41.9796	92.4653	-826	QK	2.4	0	5.8	-1	0.9	-2	0.407	1	2.596	1	6.385	0	1538	48	1.4
31763.1	10000	41.9796	92.4645	-825	QK	2.4	0	5.9	-1	0.9	-2	0.396	1	2.571	1	6.495	0	1537	44	1.4
31763.0	10000	41.9796	92.4638	-825	QK	2.2	0	6.0	-1	0.9	-2	0.371	0	2.319	1	6.257	0	1551	44	1.5
31762.9	10000	41.9796	92.4630	-825	QK	2.3	0	6.1	-1	0.9	-2	0.378	1	2.382	1	6.300	0	1559	41	1.5
31762.8	10000	41.9796	92.4622	-824	QK	2.3	0	6.1	-1	0.9	-2	0.378	1	2.337	1	6.183	0	1543	48	1.5
31762.7	10000	41.9796	92.4615	-823	QK	2.1	0	6.0	-1	0.9	-2	0.354	0	2.139	1	6.043	-1	1528	46	1.5
31762.6	10000	41.9797	92.4607	-822	QK	2.0	-1	5.7	-1	0.9	-2	0.353	0	2.014	-1	5.711	-1	1506	35	1.5
31762.5	10000	41.9797	92.4599	-821	QK	2.2	-1	5.7	-1	0.9	-2	0.369	0	1.959	-1	5.309	-2	1500	48	1.6
31762.4	10000	41.9797	92.4592	-820	QK	2.1	-1	5.1	-1	0.9	-2	0.414	1	2.124	0	5.134	-2	1486	57	1.6
31762.3	10000	41.9797	92.4584	-820	QK	2.1	-1	5.2	-1	0.9	-2	0.402	1	2.236	1	5.557	-1	1473	46	1.6
31762.2	10000	41.9797	92.4577	-820	QK	2.2	-1	5.3	-1	0.9	-2	0.412	1	2.457	1	5.968	-1	1444	53	1.6
31762.1	10000	41.9797	92.4569	-819	QK	2.2	-1	5.2	-1	0.9	-2	0.413	1	2.535	1	6.132	-1	1426	46	1.6
31762.0	10000	41.9797	92.4561	-818	QK	2.0	-1	5.2	-1	0.9	-2	0.390	1	2.373	0	6.082	-1	1424	48	1.7

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31761.9	10000	41.9798	92.4554	-818	QK	2.2	-1	5.0	-3	0.8	-3	0.441	1	2.749	1	6.240	0	1430	39	1.7
31761.8	10000	41.9798	92.4546	-818	QK	2.2	-1	4.9	-3	0.7	-3	0.439	1	2.888	1	6.583	0	1405	50	1.7
31761.7	10000	41.9798	92.4538	-817	QL	2.0	-1	4.9	-4	0.8	-4	0.400	1	2.625	1	6.571	1	1395	48	1.7
31761.6	10000	41.9798	92.4531	-817	QL	1.8	-2	4.9	-4	0.8	-4	0.368	0	2.329	0	6.320	0	1383	55	1.7
31761.5	10000	41.9798	92.4523	-817	QL	1.9	-2	5.1	-3	0.8	-4	0.365	0	2.357	0	6.457	0	1384	48	1.8
31761.4	10000	41.9798	92.4515	-817	QL	1.7	-2	4.8	-4	0.8	-4	0.357	0	2.036	0	5.701	-1	1416	47	1.8
31761.3	10000	41.9798	92.4508	-816	QL	1.9	-2	4.6	-4	0.8	-4	0.412	1	2.257	0	5.476	-1	1435	43	1.8
31761.2	10000	41.9798	92.4500	-817	QL	2.1	-1	5.3	-3	0.9	-3	0.403	1	2.374	0	5.893	-1	1501	44	1.8
31761.1	10000	41.9799	92.4492	-817	QL	2.2	-1	5.9	-2	1.0	-2	0.369	0	2.282	0	6.185	0	1588	50	1.8
31761.0	10000	41.9799	92.4485	-817	QL	2.3	-1	6.2	-2	1.0	-2	0.377	0	2.313	0	6.137	0	1662	41	1.8
31760.9	10000	41.9799	92.4477	-817	QL	2.4	0	6.5	-1	1.0	-1	0.374	0	2.328	0	6.223	0	1744	46	1.8
31760.8	10000	41.9799	92.4469	-817	QL	2.3	-1	6.9	-1	1.1	-1	0.332	0	2.053	0	6.183	0	1846	39	1.9
31760.7	10000	41.9799	92.4462	-817	QL	2.6	0	7.3	0	1.2	0	0.359	0	2.165	0	6.026	0	1919	50	1.9
31760.6	10000	41.9799	92.4454	-817	QL	2.6	0	7.7	1	1.3	1	0.334	0	2.012	0	6.032	0	1973	46	1.9
31760.5	10000	41.9799	92.4446	-817	QL	2.3	-1	7.6	1	1.3	2	0.303	-1	1.727	-1	5.692	-1	1988	54	1.9
31760.4	10000	41.9799	92.4439	-817	QL	2.2	-1	7.5	0	1.4	2	0.293	-1	1.598	-1	5.458	-1	2003	37	1.9
31760.3	10000	41.9800	92.4431	-816	QL	1.9	-1	7.9	1	1.4	2	0.247	-2	1.385	-2	5.613	-1	2031	48	1.9
31760.2	10000	41.9800	92.4423	-816	QL	2.1	-1	8.2	1	1.4	3	0.261	-1	1.478	-2	5.662	-1	2035	35	1.9
31760.1	10000	41.9800	92.4416	-814	QL	2.1	-1	8.1	1	1.4	3	0.266	-1	1.491	-2	5.612	-1	2017	40	2.0
31760.0	10000	41.9800	92.4408	-814	QL	2.2	-1	8.2	2	1.4	2	0.263	-1	1.588	-1	6.029	0	2001	54	2.0
31759.9	10000	41.9800	92.4400	-813	QL	2.3	-1	8.4	2	1.3	2	0.275	-1	1.745	-1	6.350	0	1993	35	2.0
31759.8	10000	41.9800	92.4393	-812	QL	2.4	0	8.4	2	1.3	1	0.283	-1	1.812	-1	6.413	0	1995	44	2.0
31759.7	10000	41.9800	92.4385	-812	QL	2.4	0	8.2	1	1.3	1	0.293	-1	1.859	-1	6.354	0	1990	48	2.0
31759.6	10000	41.9801	92.4377	-811	QL	2.5	0	7.8	1	1.2	1	0.321	-1	2.035	0	6.338	0	1963	41	2.0
31759.5	10000	41.9801	92.4370	-811	QL	2.4	0	7.5	0	1.2	0	0.322	-1	2.032	0	6.304	0	1944	48	2.0
31759.4	10000	41.9801	92.4362	-809	QL	2.4	0	7.1	0	1.1	0	0.343	-1	2.117	0	6.165	0	1920	41	2.0
31759.3	10000	41.9801	92.4354	-809	QL	2.5	0	6.8	-1	1.1	0	0.364	-1	2.197	0	6.033	0	1892	36	2.0
31759.2	10000	41.9801	92.4347	-807	QL	2.6	0	6.5	-1	1.1	1	0.394	0	2.256	0	5.720	-1	1869	40	2.0
31759.1	10000	41.9801	92.4340	-805	QL	2.5	0	6.7	-1	1.1	0	0.370	0	2.293	0	6.190	0	1842	51	2.0
31759.0	10000	41.9800	92.4333	-805	QL	2.5	0	6.5	-1	1.0	-1	0.383	0	2.405	0	6.277	0	1793	37	2.0
31758.9	10000	41.9800	92.4326	-803	QL	2.4	0	6.6	-1	1.0	-1	0.364	0	2.298	0	6.318	0	1778	45	2.1
31758.8	10000	41.9800	92.4319	-802	QL	2.4	0	6.7	-1	1.0	-1	0.358	0	2.273	0	6.352	0	1777	42	2.1
31758.7	10000	41.9800	92.4312	-801	QL	2.5	0	6.7	-1	1.1	-1	0.371	0	2.317	0	6.244	0	1776	47	2.1
31758.6	10000	41.9800	92.4305	-799	QL	2.5	0	6.9	-1	1.1	-1	0.358	0	2.288	0	6.390	0	1773	48	2.1
31758.5	10000	41.9799	92.4298	-797	QL	2.1	-1	6.8	-1	1.1	-1	0.308	-1	1.934	-1	6.287	0	1769	56	2.1
31758.4	10000	41.9799	92.4291	-795	QL	2.0	-1	6.9	-1	1.1	-1	0.284	-1	1.799	-1	6.326	0	1783	41	2.1
31758.3	10000	41.9799	92.4284	-793	QL	2.0	-1	7.4	0	1.1	-1	0.269	-1	1.822	-1	6.774	1	1811	46	2.1
31758.2	10000	41.9799	92.4277	-792	QL	2.3	-1	7.6	1	1.1	-1	0.298	-1	2.139	0	7.168	2	1836	42	2.1
31758.1	10000	41.9799	92.4270	-789	QL	2.3	-1	7.6	1	1.1	-1	0.295	-1	2.132	0	7.233	2	1847	55	2.1
31758.0	10000	41.9799	92.4263	-786	QL	2.4	0	7.7	1	1.1	-1	0.319	-1	2.361	0	7.395	2	1855	55	2.1
31757.9	10000	41.9798	92.4256	-784	QL	2.4	-1	7.6	1	1.1	-1	0.309	-1	2.237	0	7.249	2	1886	53	2.1
31757.8	10000	41.9798	92.4248	-781	QL	2.3	-1	7.8	1	1.0	-2	0.301	-1	2.290	0	7.602	2	1900	40	2.1
31757.7	10000	41.9798	92.4241	-777	QL	2.4	0	7.5	0	1.1	-1	0.327	0	2.262	0	6.916	1	1900	40	2.1
31757.6	10000	41.9798	92.4234	-774	QL	2.4	0	7.0	0	1.1	-1	0.342	0	2.137	0	6.243	0	1906	38	2.1
31757.5	10000	41.9798	92.4227	-770	QL	2.4	0	7.1	0	1.1	0	0.337	0	2.085	0	6.190	0	1900	46	2.1
31757.4	10000	41.9797	92.4220	-767	QL	2.4	0	7.1	0	1.1	0	0.336	0	2.087	0	6.214	0	1909	47	2.1
31757.3	10000	41.9797	92.4213	-765	QL	2.3	-1	7.2	0	1.2	-1	0.318	-1	1.952	-1	6.128	0	1929	51	2.1
31757.2	10000	41.9797	92.4206	-762	QL	2.3	-1	7.3	0	1.2	-1	0.316	-1	1.973	-1	6.249	0	1916	38	2.1
31757.1	10000	41.9797	92.4199	-759	QL	2.4	0	7.3	0	1.2	0	0.333	0	2.064	0	6.201	0	1925	48	2.1
31757.0	10000	41.9797	92.4192	-756	QL	2.3	-1	7.3	0	1.2	-1	0.318	-1	1.970	-1	6.188	0	1932	30	2.1
31756.9	10000	41.9797	92.4185	-754	QL	2.3	-1	7.5	0	1.2	-1	0.308	-1	1.964	-1	6.367	0	1949	49	2.1
31756.8	10000	41.9796	92.4178	-751	QL	2.1	-1	7.1	0	1.2	0	0.296	-1	1.778	-1	5.999	0	1958	39	2.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31756.7	10000	41.9796	92.4171	-749	QL	2.3	-1	7.2	0	1.3	1	0.317	-1	1.789	-1	5.648	-1	1951	43	2.1
31756.6	10000	41.9796	92.4164	-746	QL	2.1	-1	7.3	0	1.3	1	0.289	-1	1.666	-1	5.767	-1	1942	46	2.1
31756.5	10000	41.9796	92.4156	-743	QL	2.0	-1	7.3	0	1.3	1	0.270	-1	1.568	-2	5.811	-1	1945	35	2.1
31756.4	10000	41.9796	92.4149	-740	QL	2.0	-1	7.2	0	1.3	1	0.283	-1	1.587	-1	5.617	-1	1949	35	2.1
31756.3	10000	41.9795	92.4142	-737	QL	2.1	-1	7.1	0	1.3	1	0.300	-1	1.667	-1	5.557	-1	1937	45	2.1
31756.2	10000	41.9795	92.4135	-736	QL	2.3	-1	7.4	0	1.3	1	0.310	-1	1.802	-1	5.821	-1	1936	43	2.1
31756.1	10000	41.9795	92.4128	-734	QL	2.6	0	7.4	0	1.3	1	0.349	0	2.030	0	5.817	-1	1938	37	2.1
31756.0	10000	41.9795	92.4121	-731	QL	2.5	0	7.3	0	1.2	1	0.346	0	2.032	0	5.865	-1	1945	53	2.1
31755.9	10000	41.9795	92.4114	-728	QL	2.5	0	7.3	0	1.3	1	0.341	0	1.920	-1	5.636	-1	1978	38	2.1
31755.8	10000	41.9795	92.4107	-726	QL	2.4	0	7.3	0	1.3	1	0.334	0	1.910	-1	5.716	-1	1997	38	2.1
31755.7	10000	41.9794	92.4100	-723	QL	2.5	0	7.2	0	1.3	1	0.340	0	1.964	-1	5.782	-1	2000	48	2.1
31755.6	10000	41.9794	92.4093	-720	QL	2.7	0	6.9	-1	1.2	1	0.393	1	2.197	0	5.584	-1	2027	62	2.1
31755.5	10000	41.9794	92.4086	-718	QL	2.5	0	6.6	-1	1.3	1	0.374	0	1.939	0	5.341	-1	2028	47	2.1
31755.4	10000	41.9794	92.4079	-716	QL	2.3	-1	6.7	-1	1.3	1	0.338	0	1.767	-1	5.235	-2	2031	42	2.1
31755.3	10000	41.9794	92.4072	-713	QL	2.3	-1	6.4	-1	1.3	1	0.358	0	1.726	-1	4.822	-2	2035	64	2.1
31755.2	10000	41.9793	92.4064	-711	QL	2.3	-1	6.6	-1	1.3	1	0.344	0	1.744	-1	5.068	-2	2015	46	2.1
31755.1	10000	41.9793	92.4057	-709	QL	2.4	0	6.7	-1	1.4	2	0.362	0	1.752	-1	4.839	-2	2011	48	2.1
31755.0	10000	41.9793	92.4050	-706	QL	2.3	-1	7.0	0	1.4	2	0.333	0	1.668	-1	5.013	-2	2015	42	2.1
31754.9	10000	41.9793	92.4043	-704	QL	2.2	-1	7.1	0	1.4	3	0.304	-1	1.490	-2	4.900	-2	2005	47	2.1
31754.8	10000	41.9793	92.4036	-702	QL	2.2	-1	7.0	0	1.4	3	0.319	-1	1.552	-2	4.869	-2	2001	43	2.1
31754.7	10000	41.9792	92.4029	-698	QL	2.4	-1	6.8	-1	1.4	2	0.344	0	1.664	-1	4.835	-2	1982	48	2.1
31754.6	10000	41.9792	92.4022	-695	QL	2.3	-1	7.1	0	1.3	1	0.318	-1	1.721	-1	5.413	-1	1959	48	2.1
31754.5	10000	41.9792	92.4015	-692	QL	2.4	-1	6.8	-1	1.3	1	0.348	0	1.848	-1	5.311	-1	1933	52	2.1
31754.4	10000	41.9792	92.4008	-688	QL	2.2	-1	6.6	-1	1.2	1	0.342	0	1.816	-1	5.315	-1	1918	43	2.1
31754.3	10000	41.9792	92.4001	-685	QL	2.2	-1	6.3	-1	1.2	0	0.350	0	1.827	-1	5.214	-2	1883	49	2.1
31754.2	10000	41.9792	92.3994	-682	QL	2.3	-1	6.6	-1	1.2	0	0.350	0	2.013	0	5.758	-1	1849	38	2.1
31754.1	10000	41.9791	92.3987	-678	QL	2.1	-1	6.9	0	1.1	0	0.309	-1	1.888	-1	6.112	0	1824	41	2.1
31754.0	10000	41.9791	92.3980	-674	QL	2.1	-1	7.2	0	1.1	0	0.287	-1	1.789	-1	6.229	0	1818	57	2.1
31753.9	10000	41.9791	92.3973	-670	QL	2.1	-1	7.2	0	1.1	0	0.298	-1	1.886	-1	6.337	0	1812	50	2.1
31753.8	10000	41.9791	92.3966	-669	QL	2.1	-1	7.4	0	1.1	0	0.281	-1	1.841	-1	6.542	0	1816	41	2.1
31753.7	10000	41.9791	92.3959	-666	QL	2.2	-1	7.3	0	1.1	0	0.300	-1	1.918	-1	6.391	0	1805	45	2.1
31753.6	10000	41.9790	92.3951	-663	QL	2.3	-1	7.4	0	1.1	0	0.306	-1	1.970	-1	6.445	0	1812	46	2.1
31753.5	10000	41.9790	92.3944	-661	QL	2.1	-1	7.6	1	1.2	0	0.282	-1	1.839	-1	6.510	0	1843	52	2.1
31753.4	10000	41.9790	92.3937	-660	QL	2.3	-1	7.2	0	1.1	0	0.315	-1	1.974	-1	6.264	0	1858	44	2.1
31753.3	10000	41.9790	92.3930	-659	QL	2.3	-1	7.4	0	1.1	-1	0.314	-1	2.073	0	6.600	0	1832	49	2.1
31753.2	10000	41.9790	92.3923	-657	QL	2.1	-1	7.4	0	1.2	0	0.282	-1	1.792	-1	6.354	0	1900	46	2.1
31753.1	10000	41.9790	92.3916	-658	QL	2.3	-1	7.3	0	1.2	0	0.313	-1	1.933	-1	6.179	0	1922	45	2.1
31753.0	10000	41.9789	92.3909	-657	QL	2.2	-1	7.3	0	1.2	0	0.299	-1	1.859	-1	6.222	0	1910	54	2.1
31752.9	10000	41.9789	92.3902	-656	QL	2.2	-1	7.0	0	1.2	0	0.310	-1	1.861	-1	6.007	0	1923	49	2.1
31752.8	10000	41.9789	92.3895	-656	QL	2.3	-1	6.8	-1	1.1	0	0.341	0	2.017	0	5.909	0	1910	50	2.1
31752.7	10000	41.9789	92.3888	-657	QL	2.4	-1	6.7	-1	1.2	0	0.352	0	2.009	0	5.713	-1	1895	54	2.1
31752.6	10000	41.9789	92.3881	-658	QL	2.3	-1	6.6	-1	1.2	0	0.352	0	1.992	-1	5.659	-1	1879	40	2.1
31752.5	10000	41.9788	92.3874	-658	QL	2.5	0	6.6	-1	1.1	0	0.378	0	2.205	0	5.840	-1	1867	47	2.1
31752.4	10000	41.9788	92.3867	-660	QL	2.4	0	6.6	-1	1.2	0	0.360	0	1.999	0	5.549	-1	1863	52	2.1
31752.3	10000	41.9788	92.3860	-660	QL	2.2	-1	6.8	-1	1.2	0	0.323	-1	1.869	-1	5.785	-1	1856	51	2.1
31752.2	10000	41.9788	92.3852	-660	QL	2.0	-1	6.8	-1	1.1	-1	0.294	-1	1.811	-1	6.165	-1	1814	40	2.1
31752.1	10000	41.9788	92.3845	-660	QL	1.9	-1	6.8	-1	1.1	-1	0.284	-1	1.761	-1	6.208	-1	1769	54	2.1
31752.0	10000	41.9788	92.3838	-659	QL	1.7	-2	6.6	-1	1.1	-1	0.263	-1	1.626	-1	6.192	-1	1739	31	2.1
31751.9	10000	41.9787	92.3831	-658	QL	1.7	-2	6.7	-1	1.1	-1	0.255	-2	1.596	-1	6.257	-1	1709	54	2.1
31751.8	10000	41.9787	92.3824	-657	QL	1.5	-3	6.6	-1	1.1	-1	0.231	-2	1.409	-2	6.096	-1	1686	42	2.1
31751.7	10000	41.9787	92.3817	-655	QL	1.4	-3	6.7	-1	1.0	-1	0.204	-2	1.310	-2	6.408	-1	1662	48	2.1
31751.6	10000	41.9787	92.3810	-654	QL	1.3	-3	7.1	0	1.1	-1	0.190	-2	1.269	-2	6.666	1	1687	58	2.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31751.5	10000	41.9787	92.3803	-653	QL	1.5	-2	7.4	0	1.1	0	0.204	-2	1.309	-2	6.418	0	1729	42	2.1
31751.4	10000	41.9786	92.3796	-651	QL	1.3	-3	7.3	0	1.2	0	0.175	-3	1.083	-3	6.202	0	1764	37	2.1
31751.3	10000	41.9786	92.3789	-650	QL	1.5	-2	7.7	1	1.2	0	0.194	-2	1.225	-2	6.323	0	1808	44	2.1
31751.2	10000	41.9786	92.3782	-648	QL	1.4	-3	7.5	0	1.3	1	0.182	-3	1.098	-3	6.024	0	1839	52	2.1
31751.1	10000	41.9786	92.3775	-646	QL	1.5	-2	7.6	1	1.3	1	0.203	-2	1.221	-2	6.011	0	1866	49	2.1
31751.0	10000	41.9786	92.3768	-645	QL	1.5	-2	7.6	1	1.2	0	0.200	-2	1.245	-2	6.222	0	1869	60	2.1
31750.9	10000	41.9785	92.3761	-643	QL	1.7	-2	7.3	0	1.2	0	0.239	-2	1.427	-2	5.967	0	1855	52	2.1
31750.8	10000	41.9785	92.3754	-641	QL	1.5	-2	7.5	0	1.2	0	0.198	-2	1.258	-2	6.354	0	1837	54	2.1
31750.7	10000	41.9785	92.3746	-641	QL	1.7	-2	7.7	1	1.1	0	0.219	-2	1.489	-2	6.809	1	1833	41	2.1
31750.6	10000	41.9785	92.3739	-639	QL	1.7	-2	7.5	0	1.1	-1	0.226	-2	1.507	-2	6.676	1	1825	47	2.1
31750.5	10000	41.9785	92.3732	-637	QL	1.6	-2	7.6	1	1.1	-1	0.216	-2	1.484	-2	6.872	1	1833	45	2.1
31750.4	10000	41.9785	92.3725	-635	QL	1.7	-2	7.6	1	1.1	-1	0.222	-2	1.549	-2	6.988	1	1837	42	2.1
31750.3	10000	41.9784	92.3718	-633	QL	2.0	-1	7.6	0	1.1	-1	0.260	-1	1.770	-1	6.804	1	1851	40	2.1
31750.2	10000	41.9784	92.3711	-631	QL	2.2	-1	7.2	0	1.1	-1	0.305	-1	2.010	0	6.595	1	1872	32	2.1
31750.1	10000	41.9784	92.3704	-629	QL	2.3	-1	7.1	0	1.1	0	0.321	-1	1.976	-1	6.153	0	1890	45	2.1
31750.0	10000	41.9784	92.3697	-627	QL	2.2	-1	6.8	-1	1.2	0	0.318	-1	1.800	-1	5.667	-1	1917	50	2.1
31749.9	10000	41.9784	92.3690	-624	QL	2.4	0	7.1	0	1.2	0	0.335	0	2.008	0	6.001	0	1932	61	2.1
31749.8	10000	41.9783	92.3683	-621	QL	2.6	0	7.2	0	1.2	0	0.353	0	2.126	0	6.029	0	1949	50	2.1
31749.7	10000	41.9783	92.3676	-619	QL	2.4	0	7.4	0	1.2	0	0.324	-1	1.966	-1	6.073	0	1951	39	2.1
31749.6	10000	41.9783	92.3669	-617	QL	2.4	0	7.5	0	1.2	0	0.315	-1	1.944	-1	6.177	0	1964	40	2.1
31749.5	10000	41.9783	92.3661	-616	QL	2.0	-1	7.5	0	1.2	1	0.272	-1	1.652	-1	6.078	0	1965	53	2.1
31749.4	10000	41.9783	92.3654	-614	QL	2.1	-1	7.4	0	1.2	1	0.289	-1	1.752	-1	6.056	0	1973	42	2.1
31749.3	10000	41.9782	92.3647	-612	QL	2.2	-1	7.5	0	1.2	0	0.296	-1	1.867	-1	6.303	0	1964	40	2.1
31749.2	10000	41.9782	92.3640	-609	QL	2.0	-1	7.5	0	1.2	0	0.266	-1	1.638	-1	6.151	0	1969	49	2.1
31749.1	10000	41.9782	92.3633	-607	QL	2.0	-1	7.4	0	1.2	0	0.277	-1	1.701	-1	6.130	0	1953	45	2.1
31749.0	10000	41.9782	92.3626	-604	QL	2.2	-1	7.4	0	1.2	0	0.294	-1	1.828	-1	6.216	0	1949	58	2.0
31748.9	10000	41.9782	92.3619	-601	QL	1.9	-1	7.5	0	1.2	0	0.259	-1	1.616	-1	6.240	0	1941	39	2.0
31748.8	10000	41.9781	92.3612	-599	QL	2.1	-1	7.7	1	1.2	0	0.269	-1	1.790	-1	6.645	1	1937	43	2.0
31748.7	10000	41.9781	92.3605	-596	QL	2.3	-1	7.9	1	1.1	1	0.289	-1	2.008	0	6.939	1	1929	38	2.0
31748.6	10000	41.9781	92.3598	-594	QL	2.3	-1	7.7	1	1.2	0	0.295	-1	1.958	-1	6.634	1	1948	42	2.0
31748.5	10000	41.9781	92.3591	-591	QL	2.3	-1	7.6	1	1.2	0	0.304	-1	1.984	-1	6.534	1	1940	39	2.0
31748.4	10000	41.9781	92.3584	-588	QL	2.4	0	7.6	1	1.2	0	0.315	-1	2.003	0	6.349	1	1945	44	2.0
31748.3	10000	41.9781	92.3577	-585	QL	2.5	0	7.6	1	1.2	0	0.325	-1	2.070	0	6.374	1	1952	56	2.0
31748.2	10000	41.9780	92.3570	-581	QL	2.6	0	7.7	1	1.2	0	0.340	-1	2.201	0	6.466	1	1964	38	2.0
31748.1	10000	41.9780	92.3563	-577	QL	2.8	0	7.9	1	1.2	0	0.352	-1	2.264	0	6.439	1	1970	37	2.0
31748.0	10000	41.9780	92.3555	-573	QL	2.5	0	7.5	0	1.2	1	0.340	-1	2.072	0	6.099	1	1958	48	2.0
31747.9	10000	41.9780	92.3548	-569	QL	2.5	0	7.7	1	1.2	0	0.328	-1	2.095	0	6.380	1	1936	53	2.0
31747.8	10000	41.9780	92.3541	-565	QL	2.4	0	8.0	1	1.2	0	0.299	-1	2.019	0	6.755	1	1929	36	2.0
31747.7	10000	41.9779	92.3534	-561	QL	2.4	0	8.0	1	1.2	0	0.305	-1	2.075	0	6.801	1	1940	45	2.0
31747.6	10000	41.9779	92.3527	-559	QL	2.4	0	8.1	1	1.1	0	0.299	-1	2.126	0	7.105	2	1940	49	2.0
31747.5	10000	41.9779	92.3520	-556	QL	2.5	0	7.9	1	1.1	0	0.315	-1	2.197	0	6.974	1	1921	54	2.0
31747.4	10000	41.9779	92.3513	-553	QL	2.4	0	7.6	1	1.1	-1	0.318	-1	2.153	0	6.779	1	1909	45	2.0
31747.3	10000	41.9779	92.3506	-548	QL	2.5	0	7.7	1	1.1	-1	0.324	-1	2.252	0	6.957	1	1919	49	2.0
31747.2	10000	41.9779	92.3499	-543	QL	2.6	0	7.4	1	1.1	-1	0.356	0	2.327	0	6.534	1	1935	49	1.9
31747.1	10000	41.9778	92.3492	-539	QL	2.7	0	7.4	1	1.2	-1	0.367	0	2.311	0	6.301	1	1959	41	1.9
31747.0	10000	41.9778	92.3485	-535	QL	2.5	0	7.5	1	1.2	-1	0.338	0	2.182	0	6.449	1	1946	55	1.9
31746.9	10000	41.9778	92.3478	-530	QL	2.5	0	7.2	1	1.2	-1	0.351	0	2.099	0	5.979	1	1952	43	1.9
31746.8	10000	41.9778	92.3471	-526	QL	2.5	0	7.2	1	1.2	-1	0.347	0	2.084	0	6.002	1	1953	54	1.9
31746.7	10000	41.9778	92.3464	-522	QL	2.5	0	7.5	1	1.2	-1	0.330	0	2.046	0	6.194	1	1952	49	1.9
31746.6	10000	41.9777	92.3457	-519	QL	2.4	-1	7.5	1	1.2	-1	0.314	-1	1.954	-1	6.223	1	1953	53	1.9
31746.5	10000	41.9777	92.3450	-516	QL	2.2	-1	7.8	1	1.2	-1	0.285	-1	1.887	-1	6.632	1	1946	53	1.9
31746.4	10000	41.9777	92.3442	-513	QL	2.2	-1	7.7	1	1.1	-1	0.282	-1	1.943	-1	6.896	1	1938	36	1.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31746.3	10000	41.9777	92.3435	-509	QL	2.4	0	7.7	1	1.1	0	0.315	-1	2.140	0	6.805	1	1949	42	1.9
31746.2	10000	41.9777	92.3428	-505	QL	2.2	-1	7.5	0	1.1	0	0.295	-1	1.944	-1	6.598	1	1961	55	1.9
31746.1	10000	41.9776	92.3421	-502	QL	2.1	-1	7.8	1	1.2	0	0.264	-1	1.682	-1	6.382	0	1987	46	1.9
31746.0	10000	41.9776	92.3414	-498	QL	2.0	-1	7.8	1	1.2	1	0.257	-1	1.609	-1	6.254	0	2007	47	1.9
31745.9	10000	41.9776	92.3407	-495	QL	2.3	-1	8.0	1	1.3	1	0.284	-1	1.751	-1	6.164	0	2024	50	1.9
31745.8	10000	41.9776	92.3400	-493	QL	2.3	-1	8.0	1	1.3	1	0.285	-1	1.796	-1	6.293	0	2033	41	1.8
31745.7	10000	41.9776	92.3393	-490	QL	2.4	0	7.8	1	1.3	1	0.306	-1	1.819	-1	5.949	0	2032	54	1.8
31745.6	10000	41.9776	92.3386	-487	QL	2.3	-1	8.1	1	1.3	2	0.281	-1	1.696	-1	6.041	0	2035	49	1.8
31745.5	10000	41.9775	92.3379	-484	QL	2.5	0	8.1	1	1.3	2	0.313	-1	1.919	-1	6.129	0	2023	46	1.8
31745.4	10000	41.9775	92.3372	-482	QL	2.9	1	7.8	1	1.3	1	0.371	0	2.262	0	6.098	0	1994	49	1.8
31745.3	10000	41.9775	92.3365	-479	QL	2.9	1	7.7	1	1.3	1	0.377	0	2.315	0	6.141	0	1968	48	1.8
31745.2	10000	41.9775	92.3358	-476	QL	2.8	0	7.6	0	1.2	0	0.368	0	2.291	0	6.219	0	1926	48	1.8
31745.1	10000	41.9775	92.3350	-471	QL	2.5	0	7.3	0	1.3	1	0.343	0	1.953	-1	5.702	-1	1884	48	1.8
31745.0	10000	41.9775	92.3342	-466	QL	2.4	0	7.4	0	1.3	1	0.327	0	1.943	-1	5.935	0	1870	55	1.8
31744.9	10000	41.9775	92.3335	-464	QL	2.4	0	7.0	0	1.2	1	0.345	0	1.980	-1	5.734	-1	1853	45	1.8
31744.8	10000	41.9775	92.3327	-466	QL	2.4	0	7.2	0	1.2	1	0.329	0	1.922	-1	5.833	-1	1859	38	1.8
31744.7	10000	41.9775	92.3320	-466	QL	2.2	-1	7.3	0	1.2	0	0.306	-1	1.824	-1	5.967	0	1867	54	1.8
31744.6	10000	41.9775	92.3312	-464	QL	2.4	-1	6.8	-1	1.2	1	0.346	0	1.886	-1	5.457	-1	1882	44	1.8
31744.5	10000	41.9776	92.3304	-463	QL	2.5	0	6.7	-1	1.3	1	0.372	0	1.929	-1	5.191	-2	1903	56	1.8
31744.4	10000	41.9776	92.3297	-461	QL	3.0	1	6.8	-1	1.3	1	0.439	1	2.380	0	5.418	-1	1931	44	1.8
31744.3	10000	41.9776	92.3289	-459	QL	3.0	1	6.6	-1	1.2	1	0.456	1	2.437	1	5.350	-1	1934	40	1.8
31744.2	10000	41.9776	92.3281	-456	QL	2.8	1	6.7	-1	1.2	1	0.424	1	2.313	0	5.452	-1	1939	50	1.8
31744.1	10000	41.9776	92.3274	-454	QL	2.8	0	6.9	-1	1.2	0	0.407	1	2.295	0	5.643	-1	1921	48	1.8
31744.0	10000	41.9776	92.3266	-452	QAL	2.7	0	6.8	0	1.2	1	0.400	0	2.168	0	5.421	-1	1914	41	1.7
31743.9	10000	41.9776	92.3259	-450	QAL	2.5	0	7.1	1	1.2	1	0.352	0	2.093	0	5.943	0	1889	30	1.7
31743.8	10000	41.9776	92.3251	-448	QAL	2.3	0	7.3	1	1.2	1	0.311	-1	1.909	-1	6.139	0	1878	44	1.7
31743.7	10000	41.9776	92.3243	-446	QAL	2.2	0	7.4	1	1.2	1	0.302	-1	1.873	-1	6.204	0	1869	47	1.7
31743.6	10000	41.9776	92.3236	-445	QAL	2.3	0	7.0	1	1.2	1	0.326	-1	1.897	-1	5.820	0	1850	39	1.7
31743.5	10000	41.9777	92.3228	-444	QAL	2.4	0	6.9	1	1.2	1	0.343	0	1.984	-1	5.782	0	1827	43	1.7
31743.4	10000	41.9777	92.3221	-443	QAL	2.4	0	6.3	1	1.2	1	0.382	0	2.034	-1	5.319	-1	1813	45	1.7
31743.3	10000	41.9777	92.3213	-442	QAL	2.4	0	6.2	1	1.1	0	0.394	0	2.152	-1	5.461	-1	1771	42	1.7
31743.2	10000	41.9777	92.3205	-441	QAL	2.3	0	6.2	0	1.1	0	0.366	0	2.002	-1	5.472	-1	1747	47	1.7
31743.1	10000	41.9777	92.3198	-439	QAL	2.4	0	6.0	-1	1.1	0	0.396	0	2.124	-1	5.368	-1	1720	45	1.7
31743.0	10000	41.9777	92.3190	-439	QAL	2.2	-1	5.6	-1	1.1	0	0.390	0	1.960	-1	5.029	-1	1701	53	1.7
31742.9	10000	41.9777	92.3183	-438	QAL	2.2	-1	5.9	-1	1.1	0	0.373	0	2.006	-1	5.378	-1	1705	46	1.7
31742.8	10000	41.9777	92.3175	-437	QAL	2.4	-1	5.7	-1	1.1	0	0.427	0	2.190	0	5.128	-1	1712	44	1.7
31742.7	10000	41.9777	92.3167	-437	QAL	2.5	-1	5.9	-1	1.1	0	0.417	0	2.202	0	5.280	-1	1726	38	1.7
31742.6	10000	41.9777	92.3160	-437	QAL	2.5	-1	6.0	-1	1.1	0	0.426	0	2.239	0	5.254	-1	1759	47	1.7
31742.5	10000	41.9777	92.3152	-437	QAL	2.7	0	6.1	0	1.2	1	0.444	0	2.347	0	5.282	-1	1800	48	1.7
31742.4	10000	41.9778	92.3145	-438	QAL	2.9	1	6.4	0	1.2	1	0.447	0	2.394	0	5.351	-1	1843	45	1.7
31742.3	10000	41.9778	92.3137	-438	QAL	2.8	1	6.9	0	1.2	1	0.406	0	2.251	0	5.549	-1	1876	46	1.7
31742.2	10000	41.9778	92.3129	-438	QAL	2.6	1	7.1	0	1.2	2	0.372	-1	2.012	-1	5.405	-1	1880	41	1.7
31742.1	10000	41.9778	92.3122	-439	QAL	2.5	1	7.4	1	1.3	2	0.337	-1	1.861	-1	5.516	-1	1879	53	1.7
31742.0	10000	41.9778	92.3114	-440	QAL	2.4	1	7.3	1	1.3	2	0.330	-1	1.835	-1	5.559	-1	1865	38	1.7
31741.9	10000	41.9778	92.3106	-442	QAL	2.4	1	7.4	1	1.3	2	0.321	-1	1.819	-1	5.675	-1	1857	38	1.7
31741.8	10000	41.9778	92.3099	-443	QAL	2.4	1	7.1	1	1.3	2	0.353	-1	1.936	-1	5.485	-1	1849	48	1.7
31741.7	10000	41.9778	92.3091	-443	QK	2.5	1	6.9	1	1.3	2	0.329	-1	1.760	-1	5.357	-2	1827	45	1.7
31741.6	10000	41.9778	92.3084	-445	QK	2.5	1	6.7	1	1.3	2	0.374	-1	1.972	-1	5.270	-2	1804	27	1.7
31741.5	10000	41.9778	92.3076	-445	QK	2.7	1	6.7	1	1.2	2	0.406	-1	2.256	0	5.559	-1	1808	56	1.7
31741.4	10000	41.9779	92.3068	-443	QK	2.6	1	6.6	1	1.2	2	0.397	-1	2.247	0	5.657	-1	1802	52	1.7
31741.3	10000	41.9779	92.3061	-444	QK	2.6	1	6.7	1	1.1	2	0.388	-1	2.277	0	5.863	-1	1808	42	1.7
31741.2	10000	41.9779	92.3053	-448	QK	2.6	0	6.8	-1	1.1	0	0.385	0	2.341	0	6.085	-1	1817	41	1.7

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31741.1	10000	41.9779	92.3046	-452	QK	2.5	0	6.9	0	1.1	0	0.366	0	2.322	0	6.353	0	1795	42	1.7
31741.0	10000	41.9779	92.3038	-455	QK	2.7	0	6.9	0	1.0	-1	0.392	1	2.581	1	6.578	0	1788	47	1.7
31740.9	10000	41.9779	92.3030	-457	QK	2.6	0	7.1	0	1.0	-1	0.360	0	2.557	1	7.101	1	1774	52	1.7
31740.8	10000	41.9779	92.3023	-460	QK	2.4	0	7.0	0	1.0	-1	0.347	0	2.371	0	6.838	1	1758	45	1.7
31740.7	10000	41.9779	92.3015	-463	QK	2.5	0	7.2	0	1.0	-1	0.350	0	2.423	0	6.918	1	1743	52	1.7
31740.6	10000	41.9779	92.3008	-465	QK	2.5	0	6.9	0	1.1	-1	0.361	0	2.375	0	6.571	0	1727	58	1.7
31740.5	10000	41.9780	92.3000	-468	QK	2.5	0	7.0	0	1.1	-1	0.362	0	2.409	0	6.647	0	1716	40	1.7
31740.4	10000	41.9780	92.2992	-471	QK	2.6	0	7.2	0	1.1	0	0.361	0	2.406	0	6.673	0	1726	45	1.7
31740.3	10000	41.9780	92.2985	-474	QK	2.6	0	7.0	0	1.1	0	0.364	0	2.388	0	6.558	0	1722	44	1.7
31740.2	10000	41.9780	92.2977	-478	QK	2.6	0	7.0	0	1.1	0	0.370	0	2.350	0	6.348	0	1733	39	1.7
31740.1	10000	41.9780	92.2970	-482	QK	2.5	0	6.7	-1	1.1	-1	0.374	0	2.379	0	6.367	0	1740	43	1.7
31740.0	10000	41.9780	92.2962	-485	QK	2.5	0	6.9	0	1.0	-1	0.361	0	2.374	0	6.571	0	1746	42	1.7
31739.9	10000	41.9780	92.2954	-489	QK	2.4	0	7.1	0	1.1	-1	0.335	0	2.260	0	6.751	0	1751	51	1.7
31739.8	10000	41.9780	92.2947	-492	QK	2.2	-1	6.7	-1	1.1	0	0.320	0	1.948	-1	6.083	-1	1751	47	1.7
31739.7	10000	41.9780	92.2939	-496	QK	2.0	-1	6.3	-1	1.1	0	0.322	0	1.875	-1	5.819	-1	1745	41	1.7
31739.6	10000	41.9780	92.2931	-499	QK	2.1	-1	6.8	-1	1.1	0	0.304	-1	1.860	-1	6.120	-1	1761	47	1.7
31739.5	10000	41.9781	92.2924	-504	QK	2.1	-1	6.8	-1	1.1	-1	0.306	-1	1.978	-1	6.457	0	1764	39	1.7
31739.4	10000	41.9781	92.2916	-507	QK	2.4	0	6.6	-1	1.0	-1	0.365	0	2.349	0	6.440	0	1762	42	1.7
31739.3	10000	41.9781	92.2909	-511	QK	2.5	0	6.3	-1	1.1	-1	0.394	1	2.348	0	5.964	-1	1757	48	1.7
31739.2	10000	41.9781	92.2901	-514	QK	2.4	0	6.0	-2	1.0	-1	0.409	1	2.362	0	5.783	-1	1740	50	1.7
31739.1	10000	41.9781	92.2893	-517	QK	2.7	0	6.1	-2	1.0	-1	0.439	1	2.692	1	6.137	0	1731	39	1.7
31739.0	10000	41.9781	92.2886	-522	QK	2.6	0	6.0	-2	1.0	-1	0.437	1	2.587	1	5.916	-1	1726	35	1.7
31738.9	10000	41.9781	92.2878	-525	QK	2.5	0	6.0	-2	1.0	-1	0.419	1	2.530	1	6.032	-1	1697	50	1.7
31738.8	10000	41.9781	92.2870	-529	QK	2.5	0	5.7	-2	1.1	-1	0.432	1	2.319	0	5.372	-2	1676	50	1.7
31738.7	10000	41.9781	92.2863	-532	QK	2.3	-1	5.8	-2	1.1	0	0.392	1	2.103	0	5.366	-2	1649	45	1.7
31738.6	10000	41.9781	92.2855	-536	QK	2.0	-1	5.6	-2	1.0	-1	0.360	0	1.973	-1	5.479	-1	1638	50	1.7
31738.5	10000	41.9781	92.2848	-540	QK	2.0	-1	5.8	-2	1.0	-1	0.342	0	1.991	-1	5.830	-1	1628	51	1.7
31738.4	10000	41.9782	92.2840	-543	QK	1.8	-1	5.9	-2	1.0	-1	0.308	0	1.825	-1	5.927	-1	1615	49	1.7
31738.3	10000	41.9782	92.2832	-547	QK	1.8	-1	6.1	-2	1.0	-1	0.303	-1	1.873	-1	6.173	0	1608	53	1.7
31738.2	10000	41.9782	92.2825	-551	QK	1.8	-1	5.8	-2	0.9	-2	0.317	0	1.946	-1	6.148	0	1618	48	1.7
31738.1	10000	41.9782	92.2817	-554	QK	2.0	-1	6.1	-1	0.9	-2	0.322	0	2.109	0	6.558	0	1630	30	1.7
31738.0	10000	41.9782	92.2810	-557	QK	1.7	-2	6.5	-1	1.0	-1	0.264	-1	1.792	-1	6.787	0	1635	53	1.7
31737.9	10000	41.9782	92.2802	-560	QK	1.9	-1	6.9	-1	1.0	-1	0.279	-1	1.963	-1	7.039	1	1663	45	1.7
31737.8	10000	41.9782	92.2794	-563	QK	2.1	-1	6.8	-1	1.0	-1	0.307	-1	2.083	0	6.794	0	1689	60	1.7
31737.7	10000	41.9782	92.2787	-565	QK	2.3	0	6.9	0	1.0	-1	0.337	0	2.332	0	6.927	1	1695	49	1.7
31737.6	10000	41.9782	92.2779	-567	QK	2.4	0	6.8	-1	1.0	-1	0.357	0	2.427	0	6.793	0	1694	40	1.7
31737.5	10000	41.9783	92.2772	-570	QK	2.6	0	6.7	-1	1.0	-1	0.380	0	2.506	0	6.592	0	1696	47	1.7
31737.4	10000	41.9783	92.2764	-574	QK	2.5	0	6.7	-1	1.0	-1	0.374	0	2.459	0	6.570	0	1704	38	1.7
31737.3	10000	41.9783	92.2756	-577	QK	2.8	0	6.4	-1	1.0	-1	0.427	1	2.750	1	6.434	0	1718	48	1.7
31737.2	10000	41.9783	92.2749	-580	QK	2.8	0	6.1	-2	1.0	-1	0.460	1	2.853	1	6.197	0	1691	38	1.7
31737.1	10000	41.9783	92.2741	-582	QK	2.8	0	6.0	-2	1.0	-1	0.462	1	2.857	1	6.187	0	1695	51	1.7
31737.0	10000	41.9783	92.2734	-584	QK	2.7	0	6.1	-2	1.0	-1	0.445	1	2.680	1	6.027	-1	1721	49	1.7
31736.9	10000	41.9783	92.2726	-587	QK	2.8	0	6.3	-1	1.0	-1	0.449	1	2.757	1	6.137	0	1759	46	1.7
31736.8	10000	41.9783	92.2718	-589	QK	2.7	0	6.3	-1	1.0	-1	0.426	1	2.569	1	6.023	-1	1777	38	1.7
31736.7	10000	41.9783	92.2711	-591	QK	2.7	0	6.4	-1	1.1	-1	0.423	1	2.526	1	5.978	-1	1792	55	1.7
31736.6	10000	41.9783	92.2703	-593	QK	2.7	0	7.0	0	1.1	-1	0.388	1	2.394	0	6.163	0	1821	43	1.7
31736.5	10000	41.9783	92.2695	-594	QK	2.6	0	7.4	0	1.1	-1	0.353	0	2.270	0	6.421	0	1858	39	1.7
31736.4	10000	41.9783	92.2688	-595	QK	2.7	0	7.5	0	1.1	-1	0.362	0	2.383	0	6.588	0	1879	41	1.7
31736.3	10000	41.9784	92.2680	-597	QK	2.8	1	7.5	0	1.2	-1	0.378	0	2.426	0	6.411	0	1891	45	1.7
31736.2	10000	41.9784	92.2673	-597	QK	2.8	1	7.8	1	1.2	-1	0.354	0	2.322	0	6.554	0	1908	45	1.7
31736.1	10000	41.9784	92.2665	-599	QK	2.8	1	8.1	1	1.2	0	0.349	0	2.368	0	6.778	0	1928	60	1.7
31736.0	10000	41.9784	92.2657	-599	QK	2.7	0	8.0	1	1.2	1	0.333	0	2.208	0	6.634	0	1931	43	1.7

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31735.9	10000	41.9784	92.2650	-599	QK	2.8	1	7.8	1	1.2	1	0.355	0	2.326	0	6.560	0	1918	43	1.7
31735.8	10000	41.9784	92.2642	-599	QK	2.7	0	7.6	0	1.2	1	0.362	0	2.266	0	6.266	0	1905	52	1.7
31735.7	10000	41.9784	92.2635	-598	QK	2.5	0	7.6	0	1.2	1	0.328	0	2.007	-1	6.117	-1	1891	39	1.7
31735.6	10000	41.9784	92.2627	-598	QK	2.3	0	7.6	1	1.2	1	0.302	-1	1.919	-1	6.346	0	1869	45	1.7
31735.5	10000	41.9784	92.2619	-601	QK	2.3	-1	7.5	0	1.2	0	0.304	-1	1.946	-1	6.406	0	1845	40	1.7
31735.4	10000	41.9785	92.2612	-602	QK	2.3	0	7.3	0	1.2	0	0.323	0	2.020	-1	6.262	0	1818	51	1.7
31735.3	10000	41.9785	92.2604	-603	QK	2.5	0	7.2	0	1.1	0	0.352	0	2.273	0	6.460	0	1808	49	1.7
31735.2	10000	41.9785	92.2597	-603	QK	2.4	0	7.1	0	1.1	0	0.338	0	2.197	0	6.493	0	1803	52	1.7
31735.1	10000	41.9785	92.2589	-603	QK	2.7	0	7.0	0	1.1	0	0.384	0	2.442	0	6.359	0	1810	58	1.7
31735.0	10000	41.9785	92.2581	-603	QK	2.9	1	7.1	0	1.1	0	0.414	1	2.661	1	6.427	0	1815	48	1.7
31734.9	10000	41.9785	92.2574	-603	QK	3.0	1	7.0	0	1.1	0	0.433	1	2.735	1	6.314	0	1825	51	1.7
31734.8	10000	41.9785	92.2566	-603	QK	3.1	1	6.9	0	1.1	0	0.450	1	2.747	1	6.099	-1	1840	54	1.7
31734.7	10000	41.9785	92.2559	-602	QK	3.1	1	6.6	-1	1.2	0	0.475	2	2.722	1	5.732	-1	1858	60	1.7
31734.6	10000	41.9785	92.2551	-602	QK	3.3	2	6.6	-1	1.2	1	0.494	2	2.719	1	5.508	-1	1868	53	1.7
31734.5	10000	41.9785	92.2543	-601	QK	3.2	1	6.5	-1	1.2	1	0.493	2	2.643	1	5.357	-2	1877	58	1.7
31734.4	10000	41.9785	92.2536	-601	QK	3.2	1	6.5	-1	1.2	1	0.487	2	2.585	1	5.303	-2	1889	53	1.7
31734.3	10000	41.9785	92.2528	-600	QK	3.2	1	6.9	0	1.2	1	0.459	1	2.573	1	5.610	-1	1905	48	1.7
31734.2	10000	41.9786	92.2520	-599	QK	3.0	1	6.8	-1	1.2	1	0.434	1	2.449	0	5.638	-1	1920	36	1.7
31734.1	10000	41.9786	92.2513	-598	QK	2.9	1	6.9	0	1.2	1	0.421	1	2.412	0	5.731	-1	1918	39	1.7
31734.0	10000	41.9786	92.2505	-597	QK	2.8	0	7.4	0	1.2	0	0.374	0	2.344	0	6.264	0	1918	39	1.7
31733.9	10000	41.9786	92.2498	-595	QK	2.4	0	7.4	0	1.2	0	0.330	0	2.077	0	6.302	0	1917	40	1.7
31733.8	10000	41.9786	92.2490	-594	QK	2.8	0	7.5	0	1.1	0	0.366	0	2.408	0	6.573	0	1929	46	1.7
31733.7	10000	41.9786	92.2482	-594	QK	2.5	0	7.8	0	1.1	0	0.325	0	2.252	0	6.923	1	1913	40	1.7
31733.6	10000	41.9786	92.2475	-594	QK	2.5	0	7.6	0	1.1	0	0.323	0	2.200	0	6.807	0	1900	40	1.7
31733.5	10000	41.9786	92.2467	-593	QK	2.7	0	7.8	1	1.1	0	0.344	0	2.386	0	6.939	1	1904	58	1.7
31733.4	10000	41.9786	92.2460	-591	QK	2.7	0	7.8	1	1.2	0	0.345	0	2.310	0	6.703	0	1907	45	1.7
31733.3	10000	41.9786	92.2452	-590	QK	2.8	0	7.8	0	1.2	0	0.356	0	2.431	0	6.833	0	1897	50	1.7
31733.2	10000	41.9787	92.2444	-589	QK	3.0	1	7.9	1	1.1	0	0.379	0	2.645	1	6.979	1	1897	43	1.7
31733.1	10000	41.9787	92.2437	-588	QK	2.8	0	7.9	1	1.1	0	0.353	0	2.448	0	6.933	1	1891	48	1.7
31733.0	10000	41.9787	92.2429	-588	QK	2.8	0	7.7	1	1.1	0	0.367	0	2.486	0	6.783	0	1895	44	1.7
31732.9	10000	41.9787	92.2422	-587	QK	2.9	0	7.5	1	1.1	0	0.382	0	2.618	1	6.850	0	1892	48	1.7
31732.8	10000	41.9787	92.2414	-587	QK	2.8	0	7.4	1	1.1	0	0.375	0	2.516	0	6.712	0	1864	40	1.7
31732.7	10000	41.9787	92.2406	-586	QK	2.7	0	7.2	0	1.1	0	0.375	0	2.594	1	6.909	1	1841	51	1.7
31732.6	10000	41.9787	92.2399	-585	QK	2.4	-1	6.9	-1	1.1	0	0.343	-1	2.205	0	6.429	0	1846	43	1.7
31732.5	10000	41.9787	92.2391	-584	QK	2.2	-1	7.2	0	1.1	0	0.315	-1	1.994	-1	6.336	0	1835	46	1.7
31732.4	10000	41.9787	92.2383	-584	QK	2.2	-1	7.2	0	1.1	0	0.324	-1	1.921	-1	5.929	-1	1818	37	1.7
31732.3	10000	41.9788	92.2376	-584	QK	2.1	-1	7.1	0	1.1	0	0.300	-1	1.869	-1	6.226	0	1829	59	1.7
31732.2	10000	41.9788	92.2368	-583	QK	2.3	-1	7.2	0	1.2	0	0.320	-1	1.866	-1	5.829	-1	1840	39	1.7
31732.1	10000	41.9788	92.2361	-582	QK	2.3	-1	7.3	0	1.2	0	0.308	-1	1.842	-1	5.984	-1	1855	39	1.7
31732.0	10000	41.9788	92.2353	-582	QK	2.4	-1	7.4	0	1.3	0	0.308	-1	1.809	-1	5.866	-1	1880	41	1.7
31731.9	10000	41.9788	92.2345	-581	QK	2.6	0	7.8	0	1.2	0	0.307	-1	1.890	-1	6.149	0	1889	41	1.7
31731.8	10000	41.9788	92.2338	-581	QK	2.7	0	7.9	0	1.2	0	0.336	0	2.143	0	6.377	0	1899	69	1.7
31731.7	10000	41.9788	92.2330	-580	QK	2.6	0	7.8	0	1.2	0	0.325	0	2.129	0	6.557	0	1897	39	1.7
31731.6	10000	41.9788	92.2323	-579	QK	2.6	0	7.7	0	1.2	0	0.347	0	2.220	0	6.405	0	1887	37	1.7
31731.5	10000	41.9788	92.2315	-579	QK	2.6	0	7.9	0	1.2	0	0.329	0	2.167	0	6.584	0	1875	41	1.7
31731.4	10000	41.9788	92.2307	-578	QK	2.6	0	7.7	0	1.2	0	0.335	0	2.139	0	6.391	0	1868	56	1.7
31731.3	10000	41.9788	92.2300	-576	QK	2.7	0	7.5	0	1.2	0	0.357	0	2.261	0	6.339	0	1855	41	1.7
31731.2	10000	41.9788	92.2292	-576	QK	2.8	0	7.7	0	1.2	0	0.397	0	2.342	0	5.893	-1	1845	44	1.7
31731.1	10000	41.9789	92.2285	-574	QK	2.6	0	7.5	0	1.2	0	0.357	0	2.182	0	6.104	-1	1838	44	1.7
31731.0	10000	41.9789	92.2277	-573	QK	2.5	0	7.4	0	1.2	0	0.334	0	2.116	0	6.328	0	1845	47	1.7
31730.9	10000	41.9789	92.2269	-572	QK	2.4	0	7.0	-1	1.2	0	0.337	0	2.018	-1	5.995	-1	1835	53	1.7
31730.8	10000	41.9789	92.2262	-571	QK	2.3	0	6.7	-1	1.1	0	0.345	0	2.028	-1	5.883	-1	1819	50	1.8

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31730.7	10000	41.9789	92.2254	-569	QK	2.2	-1	6.8	-1	1.1	0	0.329	0	1.962	-1	5.962	-1	1821	36	1.8
31730.6	10000	41.9789	92.2247	-568	QK	2.0	-1	6.9	0	1.1	0	0.294	-1	1.772	-1	6.024	-1	1814	56	1.8
31730.5	10000	41.9789	92.2239	-566	QK	2.1	-1	7.1	0	1.1	0	0.291	-1	1.819	-1	6.259	0	1810	51	1.8
31730.4	10000	41.9789	92.2231	-564	QK	2.4	0	6.6	-1	1.1	0	0.360	0	2.127	0	5.913	-1	1793	56	1.8
31730.3	10000	41.9789	92.2224	-561	QK	2.6	0	6.2	-1	1.1	0	0.409	1	2.260	0	5.521	-1	1782	36	1.8
31730.2	10000	41.9790	92.2216	-558	QK	2.4	0	6.4	-1	1.1	0	0.374	0	2.151	0	5.745	-1	1770	47	1.8
31730.1	10000	41.9790	92.2208	-555	QK	2.4	0	6.3	-1	1.1	0	0.381	0	2.130	0	5.585	-1	1778	47	1.8
31730.0	10000	41.9790	92.2201	-554	QK	2.6	0	6.0	-2	1.1	0	0.43	1	2.279	0	5.287	-2	1775	41	1.8
31729.9	10000	41.9790	92.2193	-553	QK	2.8	1	6.1	-2	1.1	0	0.460	2	2.563	1	5.567	-1	1786	43	1.8
31729.8	10000	41.9790	92.2186	-552	QK	2.8	1	6.3	-1	1.1	0	0.445	1	2.555	1	5.741	-1	1791	36	1.8
31729.7	10000	41.9790	92.2178	-551	QK	2.5	0	6.6	-1	1.1	0	0.381	0	2.235	0	5.867	-1	1805	58	1.8
31729.6	10000	41.9790	92.2170	-549	QK	2.2	-1	7.2	0	1.1	0	0.311	-1	2.024	-1	6.511	0	1830	38	1.8
31729.5	10000	41.9790	92.2163	-547	QK	2.2	-1	7.4	0	1.1	0	0.300	-1	2.050	0	6.828	0	1857	51	1.8
31729.4	10000	41.9790	92.2156	-545	QK	2.3	0	7.8	1	1.1	0	0.297	-1	2.084	0	7.006	1	1864	56	1.8
31729.3	10000	41.9790	92.2149	-543	QK	2.2	-1	7.9	1	1.1	0	0.282	-1	2.008	-1	7.121	1	1865	26	1.8
31729.2	10000	41.9790	92.2142	-541	QK	2.1	-1	7.6	1	1.1	0	0.281	-1	1.882	-1	6.696	0	1867	47	1.8
31729.1	10000	41.9790	92.2135	-539	QK	2.2	-1	7.3	0	1.1	0	0.299	-1	1.969	-1	6.589	0	1863	39	1.8
31729.0	10000	41.9790	92.2128	-538	QK	2.2	-1	7.5	0	1.1	0	0.294	-1	1.929	-1	6.565	0	1876	49	1.8
31728.9	10000	41.9790	92.2121	-536	QK	2.6	0	7.3	0	1.1	0	0.353	0	2.253	0	6.382	0	1874	47	1.8
31728.8	10000	41.9790	92.2114	-534	QK	2.8	1	7.4	0	1.1	0	0.385	0	2.478	0	6.442	0	1881	60	1.8
31728.7	10000	41.9790	92.2107	-533	QK	2.8	1	7.1	0	1.1	0	0.394	1	2.511	1	6.376	0	1891	43	1.8
31728.6	10000	41.9790	92.2100	-531	QK	2.8	1	7.3	0	1.1	0	0.382	0	2.432	0	6.358	0	1904	39	1.8
31728.5	10000	41.9789	92.2093	-529	QK	2.7	0	7.5	0	1.2	0	0.360	0	2.332	0	6.484	0	1910	43	1.8
31728.4	10000	41.9789	92.2085	-528	QK	2.7	0	7.4	0	1.2	1	0.368	0	2.313	0	6.283	0	1932	56	1.8
31728.3	10000	41.9789	92.2078	-526	QK	2.7	0	7.5	0	1.2	0	0.361	0	2.360	0	6.535	0	1942	50	1.8
31728.2	10000	41.9789	92.2071	-525	QK	2.9	1	7.3	0	1.1	0	0.395	1	2.509	1	6.354	0	1933	46	1.9
31728.1	10000	41.9789	92.2064	-523	QK	2.9	1	7.3	0	1.1	0	0.395	1	2.536	1	6.425	0	1929	27	1.9
31728.0	10000	41.9789	92.2057	-523	QK	2.9	1	7.5	0	1.2	0	0.386	1	2.504	1	6.483	0	1934	54	1.9
31727.9	10000	41.9789	92.2050	-521	QK	3.1	1	7.3	0	1.0	-1	0.416	1	2.905	1	6.985	0	1939	36	1.9
31727.8	10000	41.9789	92.2043	-520	QK	3.2	1	7.4	0	1.0	-1	0.427	1	3.097	1	7.260	0	1932	43	1.9
31727.7	10000	41.9789	92.2036	-519	QK	3.4	1	7.4	0	1.1	-1	0.456	1	3.250	1	7.131	0	1926	46	1.9
31727.6	10000	41.9789	92.2029	-518	QK	3.4	2	7.0	0	1.1	-1	0.480	1	3.184	1	6.627	0	1930	41	1.9
31727.5	10000	41.9789	92.2022	-517	QK	3.0	1	7.1	0	1.1	-1	0.421	1	2.835	1	6.727	0	1927	26	1.9
31727.4	10000	41.9789	92.2015	-516	QK	3.2	1	6.7	0	1.0	-1	0.473	1	3.005	1	6.350	0	1914	43	1.9
31727.3	10000	41.9789	92.2008	-514	QK	3.1	1	6.6	-1	1.0	-1	0.468	1	3.062	1	6.547	0	1893	36	1.9
31727.2	10000	41.9789	92.2001	-513	QK	3.1	1	6.7	-1	1.1	0	0.467	1	2.925	1	6.267	0	1873	39	1.9
31727.1	10000	41.9789	92.1993	-513	QK	3.2	1	6.7	-1	1.1	0	0.484	1	3.049	1	6.302	0	1874	52	1.9
31727.0	10000	41.9789	92.1986	-512	QK	3.0	1	6.7	-1	1.0	-1	0.432	1	2.829	1	6.556	0	1870	63	1.9
31726.9	10000	41.9789	92.1979	-511	QK	3.0	1	6.5	-1	1.0	-1	0.442	1	2.795	1	6.319	0	1852	43	1.9
31726.8	10000	41.9789	92.1972	-510	QK	3.0	0	6.4	-1	1.0	-1	0.463	1	2.870	1	6.205	0	1863	54	1.9
31726.7	10000	41.9788	92.1965	-508	QK	2.8	0	6.8	-1	1.1	-1	0.407	1	2.579	1	6.331	0	1887	55	1.9
31726.6	10000	41.9788	92.1958	-507	QK	2.7	0	7.3	0	1.1	0	0.363	0	2.378	0	6.548	0	1901	43	1.9
31726.5	10000	41.9788	92.1951	-506	QK	2.7	0	7.2	0	1.1	0	0.380	0	2.393	0	6.299	0	1919	43	1.9
31726.4	10000	41.9788	92.1944	-506	QK	2.7	0	7.1	0	1.2	0	0.385	0	2.383	0	6.192	0	1922	28	1.9
31726.3	10000	41.9788	92.1937	-506	QK	2.6	0	7.2	0	1.2	0	0.366	0	2.185	0	5.977	-1	1929	49	1.9
31726.2	10000	41.9788	92.1930	-505	QK	2.7	0	7.4	0	1.2	0	0.362	0	2.240	0	6.190	-1	1927	52	1.9
31726.1	10000	41.9788	92.1923	-504	QK	2.5	0	7.4	0	1.2	0	0.342	0	2.074	0	6.068	-1	1922	49	1.9
31726.0	10000	41.9788	92.1916	-503	QK	2.5	0	7.3	0	1.2	0	0.347	0	2.148	0	6.199	-1	1918	49	1.9
31725.9	10000	41.9788	92.1908	-503	QK	2.7	0	7.1	0	1.2	0	0.386	0	2.292	0	5.933	-1	1919	47	1.9
31725.8	10000	41.9788	92.1901	-501	QK	2.6	0	6.9	0	1.2	0	0.385	0	2.327	0	6.048	-1	1895	42	1.9
31725.7	10000	41.9788	92.1894	-500	QK	2.5	-1	6.8	0	1.1	0	0.359	0	2.184	0	6.077	-1	1895	46	1.9
31725.6	10000	41.9788	92.1887	-500	QK	2.8	1	6.9	0	1.1	0	0.403	1	2.482	0	6.162	0	1883	50	1.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31725.5	10000	41.9788	92.1880	-498	QK	2.7	0	6.8	-1	1.1	0	0.395	1	2.333	0	5.901	-1	1871	46	1.9
31725.4	10000	41.9788	92.1873	-497	QK	2.7	0	7.0	0	1.1	0	0.388	1	2.496	0	6.433	0	1875	36	1.9
31725.3	10000	41.9788	92.1866	-496	QK	2.5	0	7.0	0	1.1	0	0.359	0	2.232	0	6.213	0	1872	48	1.9
31725.2	10000	41.9788	92.1859	-495	QK	2.5	0	6.9	0	1.1	0	0.368	0	2.272	0	6.173	0	1884	41	1.9
31725.1	10000	41.9788	92.1852	-495	QK	2.7	0	7.0	0	1.1	0	0.381	0	2.355	0	6.181	0	1902	45	1.9
31725.0	10000	41.9788	92.1845	-493	QK	3.0	1	7.1	0	1.1	0	0.425	1	2.657	1	6.258	0	1903	44	1.9
31724.9	10000	41.9787	92.1838	-492	QK	2.8	1	7.3	0	1.1	-1	0.379	0	2.627	1	6.939	1	1904	45	1.9
31724.8	10000	41.9787	92.1831	-491	QK	2.9	1	7.5	0	1.0	-1	0.389	1	2.906	1	7.478	1	1917	46	1.8
31724.7	10000	41.9787	92.1824	-490	QK	3.0	1	7.2	0	1.0	-1	0.417	1	2.889	1	6.935	1	1916	51	1.8
31724.6	10000	41.9787	92.1816	-489	QK	3.1	1	7.1	0	1.0	-1	0.436	1	3.092	2	7.085	1	1900	59	1.8
31724.5	10000	41.9787	92.1809	-488	QK	3.1	1	6.9	0	1.0	-1	0.453	1	3.238	2	7.142	1	1862	47	1.8
31724.4	10000	41.9787	92.1802	-487	QK	2.9	1	7.0	0	1.0	-1	0.421	1	2.947	1	7.001	1	1844	44	1.8
31724.3	10000	41.9787	92.1795	-486	QK	2.6	0	6.8	-1	1.0	-1	0.385	0	2.589	1	6.724	0	1823	46	1.8
31724.2	10000	41.9787	92.1788	-485	QK	2.7	0	6.1	-2	1.0	-1	0.443	1	2.692	1	6.072	-1	1787	53	1.8
31724.1	10000	41.9787	92.1781	-484	QK	2.7	0	5.9	-2	1.0	-1	0.457	1	2.676	1	5.854	-1	1761	67	1.8
31724.0	10000	41.9787	92.1774	-482	QK	2.7	0	6.4	-1	1.0	-1	0.417	1	2.727	1	6.536	0	1728	38	1.8
31723.9	10000	41.9787	92.1767	-481	QK	2.5	0	6.0	-2	0.9	-2	0.413	1	2.667	1	6.454	0	1697	41	1.8
31723.8	10000	41.9787	92.1760	-479	QK	2.2	-1	6.2	-1	1.0	-1	0.359	0	2.349	0	6.550	0	1699	42	1.8
31723.7	10000	41.9787	92.1753	-478	QK	2.3	0	6.5	-1	0.9	-1	0.355	0	2.456	0	6.916	1	1691	47	1.8
31723.6	10000	41.9787	92.1746	-477	QK	2.4	0	6.7	-1	1.0	-1	0.355	0	2.495	0	7.029	1	1682	52	1.8
31723.5	10000	41.9787	92.1739	-476	QK	2.3	-1	7.1	0	1.0	-1	0.320	0	2.390	0	7.461	1	1701	42	1.8
31723.4	10000	41.9787	92.1732	-475	QK	2.2	-1	7.1	0	0.9	-1	0.311	-1	2.337	0	7.519	1	1704	40	1.8
31723.3	10000	41.9787	92.1724	-473	QK	2.4	0	7.1	0	1.0	-1	0.331	0	2.457	0	7.430	1	1714	47	1.8
31723.2	10000	41.9787	92.1717	-472	QK	2.4	0	7.2	0	1.0	-1	0.329	0	2.398	0	7.284	1	1732	46	1.8
31723.1	10000	41.9786	92.1710	-471	QK	2.3	0	7.2	0	1.1	-1	0.324	0	2.225	0	6.858	1	1746	62	1.8
31723.0	10000	41.9786	92.1703	-470	QK	2.3	0	7.1	0	1.0	-1	0.327	0	2.259	0	6.905	1	1767	46	1.8
31722.9	10000	41.9786	92.1696	-469	QK	2.3	0	7.2	0	1.0	-1	0.318	0	2.193	0	7.204	1	1774	46	1.8
31722.8	10000	41.9786	92.1689	-468	QK	2.3	0	7.4	0	1.1	-1	0.315	0	2.166	0	6.884	1	1792	59	1.8
31722.7	10000	41.9786	92.1682	-468	QK	2.3	0	7.5	0	1.1	-1	0.301	0	2.055	0	6.824	1	1819	58	1.8
31722.6	10000	41.9786	92.1675	-467	QK	2.3	0	7.3	0	1.2	-1	0.317	0	1.983	0	6.250	1	1841	48	1.8
31722.5	10000	41.9786	92.1668	-466	QK	2.7	0	7.3	0	1.1	0	0.371	0	2.378	0	6.412	1	1852	51	1.8
31722.4	10000	41.9786	92.1661	-465	QK	2.9	0	7.5	0	1.1	0	0.386	0	2.584	0	6.702	1	1848	50	1.8
31722.3	10000	41.9786	92.1654	-463	QK	2.6	0	7.5	0	1.2	0	0.349	0	2.235	0	6.407	1	1825	56	1.8
31722.2	10000	41.9786	92.1647	-456	QK	2.6	0	7.0	0	1.2	0	0.370	0	2.182	0	5.895	-1	1810	39	1.8
31722.1	10000	41.9786	92.1640	-430	QK	2.5	0	7.0	0	1.2	0	0.364	0	2.177	0	5.986	-1	1794	51	1.8
31722.0	10000	41.9786	92.1632	-409	QK	2.7	0	6.7	-1	1.1	0	0.399	0	2.343	0	5.873	-1	1777	51	1.8
31721.9	10000	41.9786	92.1625	-440	QK	2.4	0	6.7	-1	1.2	0	0.358	0	2.074	0	5.798	-1	1765	42	1.8
31721.8	10000	41.9786	92.1618	-458	QK	2.0	-1	6.8	-1	1.2	-1	0.286	-1	1.645	-1	5.745	-1	1779	42	1.8
31721.7	10000	41.9786	92.1611	-463	QK	1.8	-1	6.6	-1	1.2	-1	0.273	-1	1.544	-2	5.662	-1	1771	38	1.8
31721.6	10000	41.9786	92.1604	-464	QK	1.9	-1	6.5	-1	1.2	-1	0.290	-1	1.559	-2	5.370	-2	1787	47	1.8
31721.5	10000	41.9786	92.1597	-464	QK	1.8	-2	6.6	-1	1.2	-1	0.267	-1	1.448	-2	5.412	-2	1813	49	1.8
31721.4	10000	41.9786	92.1590	-463	QK	1.9	-1	6.6	-1	1.2	-1	0.285	-1	1.509	-2	5.294	-2	1824	55	1.8
31721.3	10000	41.9786	92.1583	-463	QK	1.8	-1	6.8	-1	1.2	-1	0.273	-1	1.496	-2	5.472	-1	1821	45	1.8
31721.2	10000	41.9786	92.1576	-465	QK	2.2	-1	6.6	-1	1.2	0	0.333	0	1.788	-1	5.371	-2	1826	48	1.9
31721.1	10000	41.9785	92.1569	-466	QK	2.6	0	6.3	-1	1.2	0	0.404	0	2.063	0	5.104	-2	1829	41	1.9
31721.0	10000	41.9785	92.1562	-467	QK	2.8	0	6.0	-2	1.2	1	0.466	2	2.274	1	4.877	-2	1830	55	1.9
31720.9	10000	41.9785	92.1555	-467	QK	2.8	0	5.9	-2	1.2	1	0.486	2	2.455	1	5.054	-2	1833	50	1.9
31720.8	10000	41.9785	92.1547	-467	QK	2.6	0	6.3	-1	1.2	1	0.448	2	2.353	1	5.255	-2	1843	41	1.9
31720.7	10000	41.9785	92.1540	-468	QK	2.6	0	6.4	-1	1.2	1	0.406	2	2.166	1	5.332	-2	1851	60	1.9
31720.6	10000	41.9785	92.1533	-469	QK	2.6	0	6.8	-1	1.2	1	0.400	2	2.144	1	5.358	-2	1873	53	1.9
31720.5	10000	41.9785	92.1526	-471	QK	2.3	0	6.8	-1	1.2	0	0.336	1	1.900	0	5.649	-1	1871	46	1.9
31720.4	10000	41.9785	92.1519	-473	QK	2.0	-1	6.9	0	1.2	1	0.285	-1	1.647	-1	5.780	-1	1869	46	1.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31720.3	10000	41.9785	92.1512	-475	QK	2.0	-1	7.4	0	1.2	1	0.271	-1	1.636	-1	6.031	-1	1878	55	1.9
31720.2	10000	41.9785	92.1505	-475	QK	2.0	-1	7.4	0	1.3	1	0.266	-1	1.547	-1	5.815	-1	1886	46	1.9
31720.1	10000	41.9785	92.1498	-476	QK	2.1	-1	7.4	0	1.2	1	0.282	-1	1.672	-1	5.921	-1	1879	35	1.9
31720.0	10000	41.9785	92.1491	-478	QK	2.3	0	7.2	0	1.2	1	0.318	0	1.879	-1	5.916	-1	1865	42	1.9
31719.9	10000	41.9785	92.1484	-480	QK	2.4	0	7.5	0	1.2	1	0.317	0	1.934	-1	6.094	-1	1856	40	1.9
31719.8	10000	41.9785	92.1477	-482	QK	2.6	0	7.4	0	1.2	1	0.347	0	2.117	0	6.099	-1	1856	42	1.9
31719.7	10000	41.9785	92.1470	-483	QK	2.8	0	7.4	0	1.2	1	0.372	0	2.309	0	6.208	0	1860	49	1.9
31719.6	10000	41.9785	92.1463	-484	QK	2.5	0	7.5	0	1.2	1	0.326	0	1.974	-1	6.049	-1	1872	47	1.9
31719.5	10000	41.9784	92.1455	-485	QK	2.5	0	7.8	1	1.2	1	0.327	0	2.140	0	6.549	0	1867	41	1.9
31719.4	10000	41.9784	92.1448	-486	QK	2.6	0	7.6	1	1.2	1	0.335	0	2.136	0	6.370	0	1857	48	1.9
31719.3	10000	41.9784	92.1441	-487	QK	2.4	0	7.9	1	1.2	1	0.311	-1	2.066	0	6.643	0	1859	52	1.9
31719.2	10000	41.9784	92.1434	-488	QK	2.3	0	7.8	1	1.2	0	0.298	-1	1.980	-1	6.640	0	1863	31	1.9
31719.1	10000	41.9784	92.1427	-489	QK	2.4	0	8.0	1	1.2	0	0.306	-1	2.127	0	6.956	1	1872	35	1.9
31719.0	10000	41.9784	92.1420	-491	QK	2.5	0	7.8	1	1.2	0	0.321	0	2.121	0	6.613	0	1872	33	1.9
31718.9	10000	41.9784	92.1413	-491	QK	2.8	0	7.4	1	1.1	0	0.373	0	2.480	0	6.651	0	1863	46	1.9
31718.8	10000	41.9784	92.1406	-492	QK	2.8	1	7.3	1	1.1	0	0.390	1	2.576	1	6.611	0	1867	61	1.9
31718.7	10000	41.9784	92.1399	-493	QK	3.0	1	7.4	1	1.1	0	0.407	1	2.838	1	6.970	1	1885	44	2.0
31718.6	10000	41.9784	92.1392	-494	QK	3.2	1	7.2	1	1.1	0	0.444	1	2.894	1	6.518	0	1905	37	2.0
31718.5	10000	41.9784	92.1385	-494	QK	3.2	1	7.0	1	1.1	0	0.461	2	2.823	1	6.125	-1	1903	36	2.0
31718.4	10000	41.9784	92.1378	-495	QK	3.0	-1	6.7	-1	1.2	0	0.447	1	2.545	1	5.690	-1	1905	36	2.0
31718.3	10000	41.9784	92.1371	-495	QK	3.0	1	7.2	1	1.2	0	0.415	1	2.548	1	6.145	0	1904	40	2.0
31718.2	10000	41.9784	92.1363	-495	QK	3.0	1	7.3	1	1.1	0	0.403	1	2.600	1	6.452	0	1898	54	2.0
31718.1	10000	41.9784	92.1356	-495	QK	2.7	0	7.1	0	1.2	0	0.382	0	2.350	0	6.147	0	1883	40	2.0
31718.0	10000	41.9784	92.1349	-495	QK	2.5	0	6.8	-1	1.2	1	0.369	0	2.122	0	5.755	-1	1883	38	2.0
31717.9	10000	41.9784	92.1342	-495	QK	2.3	-1	7.1	0	1.2	1	0.319	0	1.908	-1	5.981	-1	1878	52	2.0
31717.8	10000	41.9783	92.1335	-495	QK	2.3	0	7.2	0	1.1	0	0.321	0	2.074	0	6.457	0	1867	49	2.0
31717.7	10000	41.9783	92.1328	-494	QK	2.4	0	7.4	0	1.1	-1	0.309	-1	2.172	0	7.021	1	1853	51	2.0
31717.6	10000	41.9783	92.1321	-493	QK	2.4	0	7.1	0	1.0	-1	0.341	0	2.309	0	6.766	0	1844	35	2.0
31717.5	10000	41.9783	92.1314	-493	QK	2.4	0	7.2	0	1.1	-1	0.337	0	2.291	0	6.792	0	1846	47	2.0
31717.4	10000	41.9783	92.1307	-492	QK	2.5	0	7.8	1	1.1	-1	0.322	0	2.384	0	7.399	1	1855	48	2.0
31717.3	10000	41.9783	92.1300	-491	QK	2.6	0	8.2	1	1.1	-1	0.313	-1	2.419	1	7.721	2	1851	34	2.0
31717.2	10000	41.9783	92.1293	-490	QK	2.8	0	7.9	1	1.0	-1	0.350	0	2.693	1	7.683	2	1845	46	2.0
31717.1	10000	41.9783	92.1286	-488	QK	2.7	0	8.0	1	1.1	-1	0.338	0	2.544	1	7.535	1	1850	55	2.0
31717.0	10000	41.9783	92.1279	-486	QK	2.6	0	8.0	1	1.1	0	0.323	0	2.306	1	7.144	1	1855	48	2.1
31716.9	10000	41.9783	92.1271	-485	QK	2.5	0	8.2	1	1.1	0	0.306	-1	2.205	1	7.203	1	1843	43	2.1
31716.8	10000	41.9783	92.1264	-484	QK	2.4	0	8.2	1	1.1	0	0.295	-1	2.110	1	7.153	1	1840	51	2.1
31716.7	10000	41.9783	92.1257	-484	QK	2.4	0	7.6	1	1.1	0	0.316	0	2.122	1	6.712	0	1840	46	2.1
31716.6	10000	41.9783	92.1250	-484	QK	2.2	-1	7.3	1	1.1	0	0.303	-1	1.959	-1	6.456	0	1836	48	2.1
31716.5	10000	41.9783	92.1243	-483	QK	1.9	-1	7.2	0	1.1	0	0.269	-1	1.685	-1	6.272	0	1825	50	2.1
31716.4	10000	41.9783	92.1236	-482	QK	1.9	-1	7.0	0	1.1	0	0.275	-1	1.718	-1	6.244	0	1814	42	2.1
31716.3	10000	41.9783	92.1229	-480	QK	2.0	-1	6.9	0	1.1	0	0.293	-1	1.872	-1	6.396	0	1816	38	2.1
31716.2	10000	41.9783	92.1222	-478	QK	1.9	-1	6.9	0	1.1	0	0.271	-1	1.699	-1	6.265	0	1812	50	2.1
31716.1	10000	41.9783	92.1215	-477	QK	1.9	-1	6.6	-1	1.1	0	0.292	-1	1.728	-1	5.928	-1	1805	58	2.1
31716.0	10000	41.9782	92.1208	-475	QK	2.0	-1	6.4	-1	1.1	0	0.310	-1	1.793	-1	5.791	-1	1792	48	2.1
31715.9	10000	41.9782	92.1201	-472	QK	1.9	-1	6.6	-1	1.1	0	0.295	-1	1.706	-1	5.780	-1	1788	46	2.1
31715.8	10000	41.9782	92.1194	-467	QK	2.2	-1	6.6	-1	1.2	0	0.334	0	1.903	-1	5.697	-1	1798	45	2.1
31715.7	10000	41.9782	92.1186	-463	QK	2.3	-1	6.6	-1	1.2	0	0.341	0	1.850	-1	5.423	-2	1826	47	2.1
31715.6	10000	41.9782	92.1179	-466	QK	2.4	-1	6.5	-1	1.2	0	0.344	0	1.814	-1	5.266	-2	1829	46	2.1
31715.5	10000	41.9782	92.1172	-467	QK	2.3	0	6.8	-1	1.2	0	0.363	0	1.968	-1	5.427	-2	1861	52	2.1
31715.4	10000	41.9782	92.1165	-467	QK	2.1	0	7.1	0	1.2	0	0.324	0	1.876	-1	5.793	-1	1873	39	2.1
31715.3	10000	41.9782	92.1158	-465	QK	2.1	-1	7.8	0	1.3	1	0.266	-1	1.647	-1	6.182	0	1883	46	2.1
31715.2	10000	41.9782	92.1151	-463	QK	2.4	0	7.5	0	1.2	1	0.314	-1	1.922	-1	6.112	-1	1896	47	2.1

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31715.1	10000	41.9782	92.1144	-461	QK	2.2	-1	7.5	0	1.2	0	0.295	-1	1.903	-1	6.443	0	1896	25	2.1
31715.0	10000	41.9782	92.1137	-459	QK	2.2	-1	7.7	1	1.2	0	0.289	-1	1.888	-1	6.543	0	1897	49	2.1
31714.9	10000	41.9782	92.1130	-458	QK	2.3	0	7.7	1	1.2	0	0.299	-1	1.973	-1	6.594	0	1902	42	2.1
31714.8	10000	41.9782	92.1123	-455	QK	1.9	-1	7.8	1	1.2	0	0.241	-2	1.629	-1	6.770	0	1886	46	2.1
31714.7	10000	41.9782	92.1116	-454	QK	2.0	-1	7.6	1	1.2	0	0.256	-1	1.695	-1	6.618	0	1892	40	2.1
31714.6	10000	41.9782	92.1109	-453	QK	2.0	-1	7.3	0	1.1	0	0.279	-1	1.800	-1	6.464	0	1909	42	2.1
31714.5	10000	41.9782	92.1102	-451	QK	2.0	-1	7.8	1	1.1	0	0.257	-1	1.769	-1	6.886	1	1912	56	2.1
31714.4	10000	41.9782	92.1094	-449	QK	2.0	-1	7.7	1	1.2	0	0.253	-1	1.677	-1	6.642	0	1909	44	2.1
31714.3	10000	41.9782	92.1087	-448	QK	1.8	-1	7.9	1	1.1	0	0.234	-2	1.641	-1	7.005	1	1905	52	2.1
31714.2	10000	41.9781	92.1080	-446	QK	1.9	-1	8.0	1	1.2	1	0.236	-2	1.580	-1	6.705	0	1910	58	2.1
31714.1	10000	41.9781	92.1073	-444	QK	2.0	-1	7.7	1	1.2	1	0.265	-1	1.715	-1	6.483	0	1918	37	2.1
31714.0	10000	41.9781	92.1066	-443	QK	1.9	-1	7.8	1	1.2	1	0.246	-1	1.608	-1	6.547	0	1900	51	2.1
31713.9	10000	41.9781	92.1059	-441	QK	1.8	-1	7.5	0	1.2	1	0.244	-1	1.515	-2	6.210	0	1881	51	2.1
31713.8	10000	41.9781	92.1052	-440	QK	1.9	-1	6.9	0	1.2	0	0.281	-1	1.656	-1	5.888	-1	1864	43	2.1
31713.7	10000	41.9781	92.1045	-439	QK	2.2	-1	6.9	0	1.2	0	0.323	0	1.941	-1	6.012	-1	1862	51	2.1
31713.6	10000	41.9781	92.1038	-437	QK	2.4	0	6.4	-1	1.1	0	0.379	0	2.157	0	5.693	-1	1847	60	2.1
31713.5	10000	41.9781	92.1031	-435	QK	2.5	0	6.2	-1	1.1	0	0.402	1	2.305	0	5.733	-1	1837	46	2.1
31713.4	10000	41.9781	92.1024	-433	QK	2.4	0	6.6	-1	1.1	-1	0.360	0	2.238	0	6.209	0	1827	31	2.1
31713.3	10000	41.9781	92.1016	-430	QK	2.4	0	6.3	-1	1.1	-1	0.375	0	2.253	0	6.010	-1	1840	44	2.1
31713.2	10000	41.9781	92.1009	-431	QK	2.6	0	6.5	-1	1.0	-1	0.400	1	2.517	1	6.295	0	1850	36	2.1
31713.1	10000	41.9781	92.1002	-432	QK	2.4	0	7.1	0	1.1	-1	0.332	0	2.238	0	6.734	0	1849	50	2.1
31713.0	10000	41.9781	92.0995	-431	QK	2.2	-1	7.4	0	1.1	-1	0.298	-1	2.084	0	7.000	1	1855	32	2.1
31712.9	10000	41.9780	92.0988	-429	QK	2.1	-1	7.5	0	1.1	0	0.284	-1	1.982	-1	6.991	1	1860	40	2.1
31712.8	10000	41.9780	92.0981	-428	QK	1.8	-1	7.8	1	1.1	0	0.234	-2	1.730	-1	7.382	1	1843	48	2.1
31712.7	10000	41.9780	92.0973	-427	QK	2.2	-1	7.3	0	1.1	0	0.297	-1	1.989	-1	6.705	0	1832	50	2.1
31712.6	10000	41.9780	92.0966	-426	QK	2.1	-1	7.1	0	1.1	0	0.302	-1	1.945	-1	6.444	0	1825	46	2.1
31712.5	10000	41.9780	92.0959	-424	QK	2.1	-1	7.0	0	1.2	0	0.302	-1	1.829	-1	6.049	-1	1829	46	2.1
31712.4	10000	41.9780	92.0952	-422	QK	2.1	-1	6.9	0	1.2	0	0.313	-1	1.833	-1	5.857	-1	1832	51	2.1
31712.3	10000	41.9780	92.0945	-421	QK	2.0	-1	6.9	0	1.2	0	0.291	-1	1.685	-1	5.783	-1	1846	43	2.1
31712.2	10000	41.9780	92.0938	-422	QK	1.9	-1	7.1	0	1.2	0	0.261	-1	1.538	-2	5.892	-1	1848	42	2.1
31712.1	10000	41.9780	92.0930	-422	QK	1.9	-1	7.1	0	1.2	0	0.265	-1	1.507	-2	5.693	-1	1861	34	2.1
31712.0	10000	41.9779	92.0923	-422	QK	1.7	-2	7.2	0	1.3	0	0.236	-2	1.349	-2	5.715	-1	1873	49	2.1
31711.9	10000	41.9779	92.0916	-421	QK	1.8	-1	7.7	1	1.2	0	0.237	-2	1.500	-2	6.322	0	1863	48	2.1
31711.8	10000	41.9779	92.0909	-420	QK	2.0	-1	7.8	1	1.2	1	0.252	-1	1.571	-1	6.641	0	1852	50	2.1
31711.7	10000	41.9779	92.0902	-420	QK	1.9	-1	7.8	1	1.2	1	0.245	-1	1.591	-1	6.499	0	1854	45	2.1
31711.6	10000	41.9779	92.0895	-419	QK	2.2	-1	7.6	1	1.2	1	0.287	-1	1.841	-1	6.411	0	1835	53	2.1
31711.5	10000	41.9779	92.0887	-419	QK	2.5	0	7.1	0	1.2	1	0.346	0	2.087	0	6.030	-1	1835	56	2.0
31711.4	10000	41.9779	92.0880	-419	QK	2.7	0	6.8	-1	1.1	1	0.404	1	2.411	0	5.964	-1	1825	35	2.0
31711.3	10000	41.9779	92.0873	-419	QK	2.8	1	6.8	-1	1.1	1	0.410	1	2.459	0	5.998	-1	1823	53	2.0
31711.2	10000	41.9779	92.0866	-419	QK	2.7	0	6.4	-1	1.2	1	0.426	1	2.315	0	5.433	-1	1828	56	2.0
31711.1	10000	41.9778	92.0859	-418	QK	2.7	0	6.3	-1	1.2	1	0.421	1	2.274	0	5.397	-2	1819	51	2.0
31711.0	10000	41.9778	92.0852	-418	QK	2.8	1	6.3	-1	1.1	1	0.446	1	2.513	0	5.636	-1	1813	51	2.0
31710.9	10000	41.9778	92.0844	-418	QK	2.7	0	6.3	-1	1.1	1	0.430	1	2.365	0	5.495	-1	1810	50	2.0
31710.8	10000	41.9778	92.0837	-418	QK	2.4	0	6.6	-1	1.2	0	0.368	0	2.084	0	5.660	-1	1813	50	2.0
31710.7	10000	41.9778	92.0830	-419	QK	2.1	-1	6.5	-1	1.2	0	0.328	-1	1.754	-1	5.348	-2	1806	53	2.0
31710.6	10000	41.9778	92.0823	-420	QK	2.1	-1	6.7	-1	1.2	0	0.310	-1	1.720	-1	5.542	-1	1807	55	2.0
31710.5	10000	41.9778	92.0816	-420	QK	2.3	0	6.6	-1	1.2	0	0.349	0	1.944	-1	5.565	-1	1822	60	2.0
31710.4	10000	41.9778	92.0809	-421	QK	2.1	-1	6.7	-1	1.2	0	0.306	-1	1.769	-1	5.779	-1	1824	53	2.0
31710.3	10000	41.9778	92.0801	-422	QK	2.0	-1	6.9	-1	1.2	0	0.295	-1	1.729	-1	5.869	-1	1830	40	2.0
31710.2	10000	41.9777	92.0794	-422	QK	2.0	-1	6.6	-1	1.1	0	0.302	-1	1.805	-1	5.966	-1	1830	49	2.0
31710.1	10000	41.9777	92.0787	-423	QK	2.4	0	6.5	-1	1.1	0	0.372	0	2.193	-1	5.889	-1	1827	38	2.0
31710.0	10000	41.9777	92.0780	-424	QK	2.6	0	6.5	-1	1.1	0	0.395	1	2.377	0	6.021	-1	1831	49	2.0

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31709.9	10000	41.9777	92.0773	-425	QK	2.7	0	5.9	-2	1.1	-1	0.461	2	2.591	1	5.615	-1	1832	41	2.0
31709.8	10000	41.9777	92.0766	-426	QK	2.3	0	6.0	-2	1.1	0	0.390	1	2.203	0	5.644	-1	1831	46	2.0
31709.7	10000	41.9777	92.0758	-427	QK	2.2	-1	5.9	-2	1.1	0	0.376	0	2.009	-1	5.337	-2	1832	53	2.0
31709.6	10000	41.9777	92.0751	-428	QK	2.1	-1	5.7	-2	1.1	0	0.373	0	1.892	-1	5.065	-2	1817	44	2.0
31709.5	10000	41.9777	92.0744	-429	QK	2.1	-1	5.9	-2	1.2	0	0.357	0	1.824	-1	5.111	-2	1818	36	2.0
31709.4	10000	41.9777	92.0737	-430	QK	1.9	-1	5.8	-2	1.2	0	0.322	0	1.629	-1	5.054	-2	1814	47	2.0
31709.3	10000	41.9776	92.0730	-432	QK	1.8	-1	5.7	-2	1.1	0	0.319	0	1.634	-1	5.130	-2	1807	51	2.0
31709.2	10000	41.9776	92.0723	-433	QK	1.8	-1	6.3	-1	1.2	0	0.288	-1	1.561	-1	5.414	-2	1818	44	2.0
31709.1	10000	41.9776	92.0715	-435	QK	2.1	-1	6.4	-1	1.1	0	0.332	0	1.863	-1	5.605	-1	1822	43	2.0
31709.0	10000	41.9776	92.0708	-436	QK	2.4	0	6.5	-1	1.1	0	0.372	0	2.227	0	5.990	-1	1826	43	2.0
31708.9	10000	41.9776	92.0701	-438	QK	2.5	0	6.3	-1	1.1	0	0.403	1	2.322	0	5.756	-1	1848	50	2.0
31708.8	10000	41.9776	92.0694	-439	QK	2.5	0	6.9	0	1.1	0	0.365	0	2.218	0	6.079	-1	1869	38	1.9
31708.7	10000	41.9776	92.0687	-441	QK	2.6	0	7.0	0	1.1	0	0.367	0	2.323	0	6.331	0	1881	34	1.9
31708.6	10000	41.9776	92.0679	-442	QK	2.7	0	7.0	0	1.1	0	0.381	0	2.380	0	6.239	0	1898	44	1.9
31708.5	10000	41.9776	92.0672	-444	QK	2.6	0	6.9	0	1.1	0	0.376	0	2.293	0	6.091	-1	1901	42	1.9
31708.4	10000	41.9775	92.0665	-446	QK	2.4	0	7.0	0	1.1	0	0.341	0	2.091	0	6.124	-1	1888	50	1.9
31708.3	10000	41.9775	92.0658	-447	QK	2.3	0	7.1	0	1.2	1	0.331	0	1.958	-1	5.917	-1	1898	43	1.9
31708.2	10000	41.9775	92.0651	-449	QK	2.3	0	7.3	0	1.2	0	0.319	0	1.980	-1	6.202	0	1896	28	1.9
31708.1	10000	41.9775	92.0644	-450	QK	2.5	0	6.8	-1	1.1	0	0.371	0	2.202	0	5.933	-1	1881	40	1.9
31708.0	10000	41.9775	92.0636	-451	QK	2.5	0	6.9	0	1.2	1	0.359	0	2.063	0	5.756	-1	1885	48	1.9
31707.9	10000	41.9775	92.0629	-452	QK	2.4	0	7.1	0	1.2	1	0.343	0	2.061	0	6.008	-1	1882	36	1.9
31707.8	10000	41.9775	92.0622	-454	QK	2.5	0	7.2	0	1.1	0	0.341	0	2.161	0	6.338	0	1870	56	1.9
31707.7	10000	41.9775	92.0615	-457	QK	2.6	0	7.4	0	1.1	0	0.354	0	2.320	0	6.548	0	1878	39	1.9
31707.6	10000	41.9774	92.0608	-461	QK	2.8	0	7.4	0	1.1	0	0.371	0	2.500	0	6.742	0	1876	39	1.9
31707.5	10000	41.9774	92.0601	-463	QK	2.8	1	7.4	0	1.2	0	0.378	0	2.438	0	6.444	0	1874	40	1.9
31707.4	10000	41.9774	92.0593	-464	QK	2.7	0	7.6	1	1.2	1	0.354	0	2.273	0	6.427	0	1892	51	1.9
31707.3	10000	41.9774	92.0586	-466	QK	2.6	0	7.7	1	1.1	1	0.335	0	2.277	0	6.801	0	1891	48	1.9
31707.2	10000	41.9774	92.0579	-468	QK	2.6	0	7.8	1	1.1	1	0.336	0	2.323	0	6.914	-1	1897	44	1.9
31707.1	10000	41.9774	92.0572	-469	QK	2.9	1	7.6	1	1.2	1	0.383	0	2.509	0	6.555	0	1914	54	1.9
31707.0	10000	41.9774	92.0565	-471	QK	2.8	1	7.4	0	1.1	1	0.384	0	2.505	0	6.525	0	1907	56	1.9
31706.9	10000	41.9774	92.0558	-473	QK	2.6	0	7.5	0	1.1	0	0.344	0	2.264	0	6.573	0	1914	50	1.9
31706.8	10000	41.9773	92.0550	-474	QK	2.6	0	7.4	0	1.1	0	0.347	0	2.287	0	6.588	0	1913	42	1.9
31706.7	10000	41.9773	92.0543	-476	QK	2.5	0	7.5	0	1.1	0	0.337	0	2.289	0	6.790	0	1911	49	1.9
31706.6	10000	41.9773	92.0536	-477	QK	2.6	0	7.2	0	1.1	0	0.362	0	2.323	0	6.422	0	1915	48	1.9
31706.5	10000	41.9773	92.0529	-479	QK	2.7	0	7.3	0	1.1	0	0.373	0	2.380	0	6.374	0	1915	53	1.9
31706.4	10000	41.9773	92.0522	-480	QK	2.4	0	7.5	0	1.1	-1	0.313	0	2.074	0	6.630	0	1905	43	1.9
31706.3	10000	41.9773	92.0515	-481	QK	2.3	0	7.4	0	1.2	0	0.315	0	2.004	-1	6.361	0	1909	33	1.9
31706.2	10000	41.9773	92.0507	-483	QK	2.6	0	7.0	0	1.1	0	0.375	0	2.305	0	6.156	0	1893	43	1.9
31706.1	10000	41.9773	92.0500	-484	QK	2.9	1	7.3	0	1.2	1	0.393	0	2.494	0	6.345	0	1901	62	1.9
31706.0	10000	41.9773	92.0493	-485	QK	2.7	0	6.9	0	1.1	1	0.398	0	2.409	0	6.051	-1	1884	55	1.9
31705.9	10000	41.9773	92.0486	-486	QK	3.1	1	7.2	0	1.1	1	0.429	0	2.697	0	6.288	0	1868	34	1.9
31705.8	10000	41.9772	92.0479	-487	QK	3.0	1	7.2	0	1.1	1	0.417	0	2.634	0	6.320	0	1868	40	1.9
31705.7	10000	41.9772	92.0471	-488	QK	3.1	1	7.1	0	1.1	1	0.431	0	2.719	0	6.313	0	1856	42	1.9
31705.6	10000	41.9772	92.0464	-488	QK	3.2	1	7.2	0	1.2	1	0.440	0	2.709	0	6.157	0	1863	52	1.9
31705.5	10000	41.9772	92.0457	-489	QK	3.1	1	7.1	0	1.2	1	0.434	0	2.504	-1	5.768	-1	1866	50	1.9
31705.4	10000	41.9772	92.0450	-490	QK	2.7	0	6.8	-1	1.2	1	0.403	0	2.286	-1	5.677	-1	1843	48	1.9
31705.3	10000	41.9772	92.0443	-490	QK	2.9	1	6.8	0	1.2	1	0.427	0	2.431	-1	5.692	-1	1839	39	1.9
31705.2	10000	41.9772	92.0436	-491	QK	2.4	0	6.8	0	1.2	1	0.351	0	1.994	-1	5.684	-1	1846	51	1.9
31705.1	10000	41.9772	92.0428	-491	QK	2.4	0	6.8	0	1.2	1	0.358	0	1.952	-1	5.447	-1	1853	49	1.9
31705.0	10000	41.9772	92.0421	-491	QK	2.4	0	6.9	0	1.2	1	0.351	0	1.954	-1	5.562	-1	1869	38	1.9
31704.9	10000	41.9771	92.0414	-490	QK	2.4	0	7.0	0	1.2	1	0.334	0	1.935	-1	5.794	-1	1862	32	1.9
31704.8	10000	41.9771	92.0407	-490	QK	2.2	-1	7.0	0	1.2	1	0.314	-1	1.791	-1	5.711	-1	1854	57	1.9

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31704.7	10000	41.9771	92.0400	-490	QK	2.4	0	7.0	0	1.2	1	0.339	0	1.971	-1	5.821	-1	1867	45	1.9
31704.6	10000	41.9771	92.0393	-488	QK	2.4	0	7.1	0	1.2	1	0.330	0	1.985	-1	6.020	-1	1874	47	1.9
31704.5	10000	41.9771	92.0385	-487	QK	2.4	0	7.0	0	1.2	1	0.347	0	2.025	-1	5.841	-1	1867	51	1.9
31704.4	10000	41.9771	92.0378	-486	QK	2.1	-1	6.8	-1	1.1	0	0.313	-1	1.851	-1	5.919	-1	1857	45	1.9
31704.3	10000	41.9771	92.0371	-485	QK	2.4	0	6.8	-1	1.1	0	0.352	0	2.143	0	6.094	-1	1845	53	1.9
31704.2	10000	41.9771	92.0364	-484	QK	2.4	0	7.0	0	1.2	0	0.342	0	2.065	0	6.039	-1	1857	48	1.9
31704.1	10000	41.9771	92.0357	-481	QK	2.6	0	7.3	0	1.1	0	0.354	0	2.334	0	6.587	0	1864	34	1.9
31704.0	10000	41.9770	92.0350	-478	QK	2.6	0	7.6	0	1.1	0	0.347	0	2.410	0	6.938	1	1862	42	1.9
31703.9	10000	41.9770	92.0342	-475	QK	2.7	0	7.4	0	1.1	0	0.363	0	2.426	0	6.690	0	1839	38	1.9
31703.8	10000	41.9770	92.0335	-471	QK	2.7	0	7.0	0	1.1	0	0.385	0	2.504	1	6.511	0	1818	49	1.9
31703.7	10000	41.9770	92.0328	-467	QK	2.7	0	7.3	0	1.1	0	0.368	0	2.486	0	6.761	0	1804	53	1.9
31703.6	10000	41.9770	92.0321	-462	QK	2.5	0	7.0	0	1.1	0	0.358	0	2.223	0	6.203	0	1811	47	1.9
31703.5	10000	41.9770	92.0314	-458	QK	2.5	0	6.7	-1	1.1	0	0.374	0	2.252	0	6.025	-1	1798	43	1.9
31703.4	10000	41.9770	92.0307	-462	QK	2.5	0	6.8	-1	1.1	0	0.366	0	2.223	0	6.074	-1	1800	45	1.9
31703.3	10000	41.9770	92.0299	-460	QK	2.5	0	6.7	-1	1.1	0	0.371	0	2.233	0	6.016	-1	1807	42	1.9
31703.2	10000	41.9770	92.0292	-455	QK	2.5	0	6.8	-1	1.1	0	0.367	0	2.326	0	6.340	0	1822	49	1.9
31703.1	10000	41.9769	92.0285	-451	QK	2.8	1	7.1	0	1.1	0	0.397	1	2.629	1	6.616	0	1841	45	1.9
31703.0	10000	41.9769	92.0278	-446	QK	2.2	1	7.0	0	1.1	-1	0.460	2	3.040	2	6.604	0	1845	44	1.9
31702.9	10000	41.9769	92.0271	-441	QK	2.1	1	7.3	0	1.0	-1	0.433	2	3.124	2	7.212	1	1837	36	1.9
31702.8	10000	41.9769	92.0264	-436	QK	2.6	2	7.3	0	1.0	-1	0.497	2	3.660	3	7.362	1	1848	36	1.9
31702.7	10000	41.9769	92.0256	-430	QK	2.5	2	7.3	0	1.0	-1	0.479	2	3.531	3	7.372	1	1857	39	1.9
31702.6	10000	41.9769	92.0249	-425	QK	2.4	2	6.9	0	1.0	-1	0.493	2	3.406	2	6.902	1	1856	52	1.9
31702.5	10000	41.9769	92.0242	-419	QK	2.5	2	6.8	-1	1.0	-1	0.509	2	3.372	2	6.621	0	1871	46	1.9
31702.4	10000	41.9769	92.0235	-414	QK	2.3	2	7.1	0	1.0	-1	0.466	2	3.239	2	6.951	1	1882	45	1.9
31702.3	10000	41.9768	92.0228	-408	QK	2.1	2	7.0	0	1.0	-1	0.442	2	3.068	2	6.946	1	1889	48	1.9
31702.2	10000	41.9768	92.0220	-402	QK	2.3	2	6.8	-1	1.0	-1	0.483	2	3.280	2	6.789	0	1897	52	1.9
31702.1	10000	41.9768	92.0213	-396	QK	2.7	2	6.8	-1	1.0	-1	0.398	1	2.730	1	6.858	1	1884	45	1.9
31702.0	10000	41.9768	92.0206	-390	QK	2.7	1	7.0	0	1.0	-1	0.393	1	2.727	1	6.939	1	1872	49	1.9
31701.9	10000	41.9768	92.0199	-383	QK	2.8	1	7.6	1	1.0	-1	0.366	0	2.805	1	7.660	2	1861	52	1.9
31701.8	10000	41.9768	92.0192	-377	QK	2.8	1	7.4	0	1.0	-1	0.375	0	2.691	1	7.185	1	1856	42	1.9
31701.7	10000	41.9768	92.0185	-371	QK	2.9	1	7.2	0	1.0	-1	0.398	1	2.751	1	6.918	1	1852	50	1.9
31701.6	10000	41.9768	92.0178	-365	QK	3.1	1	7.2	0	1.1	0	0.430	1	2.881	1	6.704	0	1867	51	1.9
31701.5	10000	41.9768	92.0170	-359	QK	3.0	1	7.2	0	1.0	-1	0.411	1	2.857	1	6.945	1	1855	36	1.9
31701.4	10000	41.9767	92.0163	-353	QK	3.2	1	7.4	0	1.0	-1	0.436	1	3.176	2	7.288	1	1856	48	1.9
31701.3	10000	41.9767	92.0156	-347	QK	3.3	2	7.2	0	1.0	-1	0.455	1	3.133	2	6.892	1	1855	32	1.9
31701.2	10000	41.9767	92.0149	-342	QK	3.2	1	6.7	-1	1.1	0	0.472	2	2.989	2	6.328	0	1858	52	1.9
31701.1	10000	41.9767	92.0142	-336	QK	3.0	1	6.8	-1	1.0	-1	0.435	1	2.984	2	6.855	1	1838	39	1.9
31701.0	10000	41.9767	92.0135	-328	QK	2.8	1	6.9	0	1.0	-1	0.410	1	2.904	1	7.084	1	1830	51	1.9
31700.9	10000	41.9767	92.0127	-323	QK	2.4	0	6.7	-1	1.0	-1	0.362	0	2.420	0	6.693	0	1806	39	1.9
31700.8	10000	41.9767	92.0120	-319	QK	2.2	-1	6.6	-1	1.1	0	0.341	0	2.058	0	6.028	-1	1797	48	1.9
31700.7	10000	41.9767	92.0113	-315	QK	2.1	-1	6.3	-1	1.1	0	0.328	0	1.891	-1	5.770	-1	1793	46	1.9
31700.6	10000	41.9766	92.0106	-312	QK	2.1	-1	6.3	-1	1.0	-1	0.328	0	1.957	-1	5.966	-1	1794	52	1.9
31700.5	10000	41.9766	92.0099	-308	QK	2.1	-1	6.3	-1	1.1	0	0.342	0	2.002	-1	5.858	-1	1797	42	1.9
31700.4	10000	41.9766	92.0092	-304	QK	2.3	0	6.5	-1	1.1	0	0.353	0	2.006	-1	5.681	-1	1821	53	1.9
31700.3	10000	41.9766	92.0084	-300	QK	2.2	-1	6.3	-1	1.2	0	0.345	0	1.870	-1	5.426	-2	1812	34	1.9
31700.2	10000	41.9766	92.0077	-297	QK	2.4	0	6.4	-1	1.1	0	0.373	0	2.086	0	5.591	-1	1806	45	1.8
31700.1	10000	41.9766	92.0070	-294	QK	2.5	0	6.7	-1	1.1	0	0.370	0	2.194	0	5.924	-1	1815	42	1.8
31700.0	10000	41.9766	92.0063	-291	QK	2.5	0	6.4	-1	1.1	0	0.384	0	2.155	0	5.611	-1	1811	47	1.8
31699.9	10000	41.9766	92.0056	-289	QK	2.4	0	6.2	-1	1.2	0	0.393	1	2.113	0	5.381	-2	1793	51	1.8
31699.8	10000	41.9765	92.0049	-287	QK	2.4	0	6.5	-1	1.1	0	0.365	0	2.131	0	5.832	-1	1784	54	1.8
31699.7	10000	41.9765	92.0041	-285	QK	2.4	0	6.4	-1	1.1	0	0.378	0	2.265	0	6.000	-1	1776	47	1.8
31699.6	10000	41.9765	92.0034	-284	QK	2.6	0	6.5	-1	1.1	0	0.396	1	2.409	0	6.085	-1	1781	44	1.8

LINE 250 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
31699.5	10000	41.9765	92.0027	-282	QK	2.7	0	6.7	-1	1.0	-1	0.398	1	2.578	1	6.470	0	1808	53	1.8
31699.4	10000	41.9765	92.0020	-281	QK	2.9	1	6.9	-1	1.0	-1	0.423	1	2.806	1	6.631	0	1827	58	1.8
31699.3	10000	41.9765	92.0013	-280	QK	3.1	1	7.4	0	1.0	-1	0.422	1	3.050	2	7.229	1	1848	38	1.8
31699.2	10000	41.9765	92.0005	-278	QK	3.3	2	7.8	1	1.0	-1	0.421	1	3.213	2	7.640	2	1880	39	1.8

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30234.6	10000	41.8916	93.9998	-700	QW	2.3	1	5.9	1	1.1	1	0.394	0	2.062	0	5.229	0	1694	47	2.3
30234.7	10000	41.8916	93.9989	-703	QW	2.2	1	6.1	1	1.1	1	0.359	0	1.983	0	5.519	1	1703	41	2.3
30234.8	10000	41.8915	93.9980	-703	QW	2.2	1	6.2	1	1.1	0	0.361	0	2.029	0	5.613	1	1700	49	2.3
30234.9	10000	41.8915	93.9972	-703	QW	2.3	1	6.1	1	1.1	1	0.372	0	2.037	0	5.475	0	1703	45	2.3
30235.0	10000	41.8915	93.9963	-703	QW	2.0	0	6.2	1	1.1	1	0.316	-1	1.758	0	5.559	1	1701	52	2.3
30235.1	10000	41.8915	93.9954	-703	QW	1.6	-1	6.1	1	1.1	0	0.262	-1	1.460	-1	5.570	1	1693	60	2.3
30235.2	10000	41.8915	93.9946	-702	QW	1.5	-1	6.3	1	1.1	0	0.234	-1	1.385	-1	5.911	1	1685	46	2.3
30235.3	10000	41.8914	93.9937	-701	QW	1.7	-1	6.7	2	1.1	0	0.259	-1	1.591	-1	6.135	2	1682	45	2.3
30235.4	10000	41.8914	93.9928	-699	QW	1.8	-1	6.2	1	1.1	0	0.282	-1	1.632	-1	5.778	1	1676	41	2.3
30235.5	10000	41.8914	93.9919	-698	QW	1.7	-1	6.0	1	1.1	0	0.286	-1	1.570	-1	5.497	0	1672	45	2.3
30235.6	10000	41.8914	93.9911	-696	QW	1.6	-1	6.1	1	1.1	0	0.264	-1	1.524	-1	5.766	1	1669	56	2.3
30235.7	10000	41.8914	93.9902	-693	QW	1.8	0	6.2	1	1.1	0	0.297	-1	1.739	0	5.855	1	1675	40	2.3
30235.8	10000	41.8913	93.9893	-690	QW	2.0	0	6.0	1	1.1	0	0.330	0	1.823	0	5.526	1	1672	39	2.3
30235.9	10000	41.8913	93.9884	-687	QW	2.1	0	5.7	0	1.1	0	0.364	0	1.930	0	5.299	0	1673	54	2.3
30236.0	10000	41.8913	93.9876	-685	QW	1.9	0	5.6	0	1.1	0	0.335	0	1.720	0	5.128	0	1663	36	2.3
30236.1	10000	41.8913	93.9867	-683	QW	1.8	0	5.7	0	1.1	1	0.320	-1	1.620	-1	5.071	0	1658	39	2.3
30236.2	10000	41.8913	93.9858	-680	QW	1.7	-1	5.7	0	1.1	1	0.290	-1	1.480	-1	5.096	0	1655	53	2.3
30236.3	10000	41.8912	93.9850	-676	QW	1.7	-1	5.4	0	1.1	1	0.309	-1	1.507	-1	4.871	-1	1658	34	2.3
30236.4	10000	41.8912	93.9841	-672	QW	1.6	-1	5.3	0	1.1	1	0.308	-1	1.464	-1	4.756	-1	1662	35	2.3
30236.5	10000	41.8912	93.9832	-668	QW	1.6	-1	5.3	0	1.1	0	0.292	-1	1.405	-1	4.821	-1	1659	37	2.3
30236.6	10000	41.8912	93.9823	-662	QW	1.4	-1	5.1	0	1.1	1	0.279	-1	1.246	-1	4.470	-1	1657	55	2.3
30236.7	10000	41.8912	93.9815	-654	QW	1.7	-1	5.0	-1	1.1	1	0.340	0	1.493	-1	4.398	-1	1661	44	2.3
30236.8	10000	41.8912	93.9806	-651	QW	1.6	-1	4.8	-1	1.1	1	0.337	0	1.432	-1	4.246	-2	1656	46	2.3
30236.9	10000	41.8911	93.9797	-650	QW	2.0	0	4.8	-1	1.1	1	0.411	0	1.724	0	4.191	-2	1667	53	2.3
30237.0	10000	41.8911	93.9789	-647	QW	1.9	0	4.9	-1	1.2	1	0.394	0	1.622	-1	4.122	-2	1658	66	2.3
30237.1	10000	41.8911	93.9780	-644	QW	1.9	0	5.0	-1	1.1	1	0.379	0	1.676	0	4.426	-1	1669	44	2.3
30237.2	10000	41.8911	93.9771	-638	QW	2.1	0	5.1	0	1.1	1	0.413	0	1.950	0	4.722	-1	1672	46	2.3
30237.3	10000	41.8911	93.9762	-631	QW	2.2	0	5.0	-1	1.1	1	0.441	0	2.030	0	4.601	-1	1679	39	2.3
30237.4	10000	41.8910	93.9754	-627	QW	2.0	0	5.1	-1	1.1	1	0.391	0	1.815	0	4.635	-1	1693	60	2.3
30237.5	10000	41.8910	93.9745	-624	QW	2.1	0	5.3	0	1.1	1	0.402	0	1.946	0	4.837	-1	1700	55	2.3
30237.6	10000	41.8910	93.9736	-618	QW	1.9	0	5.6	0	1.1	1	0.341	0	1.783	0	5.225	0	1702	48	2.3
30237.7	10000	41.8910	93.9727	-611	QW	1.9	0	5.7	0	1.1	0	0.331	0	1.818	0	5.500	0	1707	50	2.3
30237.8	10000	41.8910	93.9719	-605	QW	2.1	0	5.4	0	1.1	1	0.394	0	1.988	0	5.041	0	1684	45	2.3
30237.9	10000	41.8909	93.9710	-598	QW	2.1	0	5.6	0	1.1	1	0.365	0	1.876	0	5.137	0	1701	59	2.3
30238.0	10000	41.8909	93.9701	-593	QW	1.8	0	6.1	0	1.1	1	0.293	-1	1.677	0	5.730	1	1708	40	2.3
30238.1	10000	41.8909	93.9693	-589	QW	1.9	0	6.4	0	1.1	1	0.290	-1	1.698	0	5.855	1	1708	50	2.3
30238.2	10000	41.8909	93.9684	-586	QW	2.1	0	6.5	0	1.1	1	0.321	-1	1.929	0	6.011	1	1712	49	2.3
30238.3	10000	41.8909	93.9675	-582	QW	2.2	0	6.4	0	1.1	1	0.344	0	2.021	0	5.877	1	1714	36	2.3
30238.4	10000	41.8908	93.9666	-578	QW	2.2	0	6.4	0	1.1	1	0.348	0	2.022	0	5.809	1	1715	60	2.3
30238.5	10000	41.8908	93.9658	-575	QW	1.9	0	6.3	0	1.1	1	0.307	-1	1.746	0	5.684	1	1737	56	2.3
30238.6	10000	41.8908	93.9649	-572	QW	2.1	0	6.0	0	1.1	1	0.351	0	1.826	0	5.199	0	1732	52	2.3
30238.7	10000	41.8908	93.9640	-570	QW	2.4	1	6.3	0	1.1	1	0.413	0	2.136	0	5.177	0	1715	55	2.3
30238.8	10000	41.8907	93.9632	-569	QW	2.6	1	6.8	0	1.1	1	0.443	0	2.355	0	5.314	0	1721	47	2.3
30238.9	10000	41.8907	93.9623	-569	QW	2.5	1	6.6	0	1.1	1	0.441	0	2.297	0	5.209	0	1716	47	2.3
30239.0	10000	41.8907	93.9614	-570	QW	2.5	1	6.6	0	1.1	1	0.442	0	2.334	0	5.284	0	1718	53	2.3
30239.1	10000	41.8907	93.9605	-571	QW	2.6	1	6.9	0	1.1	1	0.444	0	2.439	0	5.492	0	1734	59	2.3
30239.2	10000	41.8907	93.9597	-572	QW	2.7	1	6.9	0	1.1	1	0.445	0	2.627	0	5.906	1	1729	49	2.3
30239.3	10000	41.8907	93.9588	-574	QW	2.6	1	6.8	0	1.1	1	0.413	0	2.477	0	6.002	1	1738	50	2.3
30239.4	10000	41.8906	93.9579	-576	QW	2.4	1	6.3	0	1.1	1	0.373	0	2.154	0	5.775	1	1765	46	2.3
30239.5	10000	41.8906	93.9570	-579	QW	2.2	1	6.1	0	1.1	1	0.359	0	1.926	0	5.366	0	1767	45	2.3
30239.6	10000	41.8906	93.9562	-582	QW	2.2	1	6.2	0	1.1	1	0.349	0	1.853	0	5.312	0	1770	48	2.3
30239.7	10000	41.8906	93.9553	-585	QW	2.1	0	6.2	1	1.2	1	0.344	0	1.804	0	5.245	0	1780	42	2.3

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30239.8	10000	41.8906	93.9544	-589	QW	2.3	1	6.1	1	1.1	1	0.382	0	2.031	0	5.312	0	1767	37	2.3
30239.9	10000	41.8905	93.9536	-592	QW	2.3	1	5.8	1	1.2	1	0.395	0	1.941	0	4.908	0	1757	67	2.3
30240.0	10000	41.8905	93.9527	-595	QW	2.3	1	5.8	0	1.1	1	0.404	0	2.067	0	5.113	0	1752	59	2.3
30240.1	10000	41.8905	93.9518	-596	QW	2.4	1	5.6	0	1.1	1	0.435	1	2.211	1	5.077	0	1743	49	2.4
30240.2	10000	41.8905	93.9509	-597	QW	2.5	1	5.6	0	1.1	0	0.448	1	2.375	1	5.300	0	1729	65	2.4
30240.3	10000	41.8905	93.9501	-599	QW	2.2	1	5.8	0	1.0	0	0.383	0	2.123	0	5.548	1	1729	42	2.4
30240.4	10000	41.8904	93.9492	-606	QW	2.0	0	5.9	1	1.0	0	0.339	0	1.964	0	5.788	1	1726	39	2.4
30240.5	10000	41.8905	93.9483	-610	QW	1.8	-1	5.6	0	1.1	0	0.314	-1	1.627	-1	5.181	0	1728	44	2.4
30240.6	10000	41.8905	93.9474	-612	QW	1.8	0	5.8	0	1.1	0	0.315	-1	1.720	0	5.461	0	1729	47	2.4
30240.7	10000	41.8905	93.9464	-613	QW	1.8	0	5.7	0	1.1	0	0.322	-1	1.673	0	5.191	0	1715	44	2.4
30240.8	10000	41.8905	93.9455	-615	QW	2.0	0	5.6	0	1.1	0	0.350	0	1.787	0	5.111	0	1715	47	2.4
30240.9	10000	41.8905	93.9446	-616	QW	1.9	0	5.5	0	1.1	1	0.347	0	1.678	0	4.831	-1	1732	54	2.4
30241.0	10000	41.8905	93.9437	-617	QW	2.1	0	5.2	0	1.2	1	0.408	0	1.815	0	4.453	-1	1734	40	2.4
30241.1	10000	41.8905	93.9428	-618	QW	2.2	0	4.9	-1	1.2	1	0.441	1	1.801	0	4.088	-2	1724	44	2.4
30241.2	10000	41.8905	93.9418	-618	QW	2.1	0	4.9	-1	1.2	1	0.426	1	1.789	0	4.198	-2	1713	49	2.4
30241.3	10000	41.8905	93.9409	-619	QW	2.0	0	5.0	-1	1.2	1	0.391	0	1.669	0	4.267	-1	1727	39	2.4
30241.4	10000	41.8906	93.9400	-6[illegible]	QW	1.9	0	5.5	0	1.2	1	0.338	0	1.568	-1	4.636	-1	1732	47	2.4
30241.5	10000	41.8906	93.9391	-6[illegible]	QW	1.6	-1	5.8	1	1.2	1	0.272	-1	1.346	-1	4.942	0	1729	51	2.4
30241.6	10000	41.8906	93.9382	-622	QW	1.6	-1	6.2	1	1.1	1	0.250	-1	1.382	-1	5.521	1	1719	41	2.4
30241.7	10000	41.8906	93.9373	-625	QW	1.5	-1	6.5	1	1.2	1	0.236	-1	1.320	-1	5.589	1	1713	50	2.4
30241.8	10000	41.8906	93.9364	-625	QW	1.6	-1	6.5	2	1.1	1	0.242	-1	1.375	-1	5.681	1	1718	45	2.4
30241.9	10000	41.8906	93.9354	-625	QW	1.6	-1	6.4	1	1.1	1	0.257	-1	1.469	-1	5.719	1	1734	50	2.4
30242.0	10000	41.8906	93.9345	-626	QW	1.9	0	6.2	1	1.1	0	0.316	-1	1.786	0	5.658	1	1713	39	2.4
30242.1	10000	41.8906	93.9336	-626	QW	1.9	0	5.8	0	1.1	0	0.329	0	1.757	0	5.333	0	1718	42	2.5
30242.2	10000	41.8907	93.9327	-626	QW	1.9	0	5.6	0	1.1	0	0.343	0	1.781	0	5.192	0	1719	43	2.5
30242.3	10000	41.8907	93.9318	-626	QW	2.0	0	5.5	0	1.1	1	0.371	0	1.807	0	4.865	-1	1733	37	2.5
30242.4	10000	41.8907	93.9308	-625	QW	2.1	0	5.5	0	1.1	0	0.392	0	2.015	0	5.144	0	1746	40	2.5
30242.5	10000	41.8907	93.9299	-625	QW	2.4	1	5.5	0	1.1	0	0.431	1	2.258	1	5.243	0	1751	38	2.5
30242.6	10000	41.8907	93.9290	-627	QW	2.2	1	5.6	0	1.1	0	0.402	1	2.074	0	5.164	0	1751	50	2.5
30242.7	10000	41.8907	93.9281	-630	QW	2.1	0	5.8	0	1.1	0	0.370	0	1.956	0	5.282	0	1774	55	2.5
30242.8	10000	41.8907	93.9272	-632	QW	2.2	1	5.9	1	1.1	0	0.380	0	2.010	0	5.293	0	1779	36	2.5
30242.9	10000	41.8907	93.9263	-635	QW	2.3	1	5.8	1	1.1	0	0.395	0	2.063	0	5.223	0	1779	47	2.5
30243.0	10000	41.8908	93.9254	-638	QW	2.3	1	5.5	0	1.1	1	0.420	1	2.163	1	5.156	0	1752	49	2.5
30243.1	10000	41.8908	93.9244	-642	QW	2.2	1	5.3	0	1.1	1	0.422	1	2.019	0	4.787	-1	1748	55	2.5
30243.2	10000	41.8908	93.9235	-645	QW	1.9	0	5.4	0	1.1	1	0.351	0	1.708	0	4.868	-1	1735	51	2.5
30243.3	10000	41.8908	93.9226	-648	QW	2.1	1	5.4	0	1.1	1	0.385	1	1.866	0	4.843	-1	1719	47	2.5
30243.4	10000	41.8908	93.9217	-652	QW	2.1	1	5.1	0	1.1	1	0.418	1	1.958	0	4.690	-1	1696	39	2.5
30243.5	10000	41.8908	93.9208	-656	QW	2.2	1	5.0	0	1.1	1	0.439	1	1.988	0	4.524	-1	1680	51	2.5
30243.6	10000	41.8908	93.9199	-660	QW	2.2	1	4.9	0	1.1	1	0.451	1	2.075	0	4.606	-1	1663	38	2.5
30243.7	10000	41.8908	93.9189	-663	QW	2.2	1	5.0	0	1.1	1	0.433	1	2.002	0	4.624	-1	1672	45	2.5
30243.8	10000	41.8909	93.9180	-667	QW	2.1	0	5.3	0	1.0	0	0.388	0	1.996	0	5.148	0	1659	42	2.5
30243.9	10000	41.8909	93.9171	-670	QW	2.0	0	4.9	-1	1.0	0	0.408	0	1.943	0	4.759	-1	1649	50	2.5
30244.0	10000	41.8909	93.9162	-673	QW	1.9	-1	5.1	-1	1.0	-1	0.368	0	1.917	0	5.216	0	1640	58	2.5
30244.1	10000	41.8909	93.9153	-675	QW	1.7	-1	5.2	0	1.0	-1	0.318	-1	1.733	0	5.457	0	1632	60	2.5
30244.2	10000	41.8909	93.9144	-676	QW	1.6	-1	5.6	0	0.9	-1	0.278	-1	1.685	0	6.070	1	1624	50	2.5
30244.3	10000	41.8909	93.9134	-678	QW	1.7	-1	5.6	0	0.9	-1	0.307	-1	1.823	1	5.933	1	1636	49	2.5
30244.4	10000	41.8909	93.9125	-679	QW	1.6	-1	5.2	0	1.0	-1	0.296	-1	1.787	1	6.028	1	1629	44	2.6
30244.5	10000	41.8909	93.9116	-680	QW	1.7	-1	5.2	0	0.9	-1	0.320	-1	1.730	0	5.411	1	1623	40	2.6
30244.6	10000	41.8910	93.9107	-681	QW	1.7	-1	5.4	0	1.0	-1	0.312	-1	1.824	1	5.851	1	1633	46	2.6
30244.7	10000	41.8910	93.9098	-683	QW	1.8	0	5.3	0	1.0	-1	0.338	0	1.893	0	5.606	1	1644	48	2.6
30244.8	10000	41.8910	93.9089	-684	QW	1.7	-1	5.3	0	1.0	0	0.323	-1	1.650	-1	5.108	0	1656	46	2.6
30244.9	10000	41.8910	93.9079	-685	QW	1.7	-1	5.0	-1	1.1	0	0.335	0	1.569	-1	4.688	-1	1682	42	2.6

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30245.0	10000	41.8910	93.9070	-686	QW	1.6	-1	5.3	0	1.1	0	0.308	-1	1.485	-1	4.815	-1	1692	48	2.6
30245.1	10000	41.8910	93.9061	-686	QW	1.7	-1	4.9	-1	1.1	1	0.353	0	1.560	-1	4.425	-1	1712	57	2.6
30245.2	10000	41.8910	93.9052	-686	QW	1.7	-1	5.0	-1	1.1	1	0.350	0	1.562	-1	4.460	-1	1725	59	2.6
30245.3	10000	41.8910	93.9043	-686	QW	1.9	0	5.0	-1	1.2	1	0.369	0	1.571	-1	4.260	-2	1736	43	2.6
30245.4	10000	41.8910	93.9034	-686	QW	1.9	0	4.9	-1	1.2	2	0.392	0	1.581	-1	4.029	-2	1748	41	2.6
30245.5	10000	41.8911	93.9024	-687	QW	2.0	0	4.8	-1	1.2	1	0.428	1	1.731	0	4.050	-2	1762	36	2.6
30245.6	10000	41.8911	93.9015	-688	QW	2.1	0	4.7	-1	1.2	2	0.438	1	1.681	0	3.838	-2	1768	49	2.6
30245.7	10000	41.8911	93.9006	-690	QW	1.9	0	4.4	-2	1.2	2	0.439	1	1.563	-1	3.562	-3	1765	48	2.6
30245.8	10000	41.8911	93.8997	-691	QW	1.8	0	4.6	-1	1.3	2	0.391	0	1.419	-1	3.634	-3	1768	37	2.6
30245.9	10000	41.8911	93.8988	-692	QW	1.8	0	4.9	-1	1.3	2	0.378	0	1.472	-1	3.897	-2	1762	41	2.6
30246.0	10000	41.8911	93.8979	-693	QW	2.0	0	4.8	-1	1.2	1	0.421	1	1.698	0	4.032	-2	1759	43	2.6
30246.1	10000	41.8911	93.8969	-692	QW	1.9	0	5.0	-1	1.2	1	0.385	0	1.629	-1	4.234	-2	1762	50	2.6
30246.2	10000	41.8911	93.8960	-696	QW	1.8	0	5.2	0	1.2	1	0.346	0	1.494	-1	4.315	-1	1756	34	2.6
30246.3	10000	41.8911	93.8951	-702	QW	2.0	0	5.6	0	1.2	1	0.360	0	1.670	0	4.643	-1	1764	48	2.6
30246.4	10000	41.8912	93.8942	-706	QW	1.9	0	5.5	0	1.2	1	0.349	0	1.634	-1	4.678	-1	1756	45	2.6
30246.5	10000	41.8912	93.8933	-709	QW	2.0	0	5.6	0	1.1	1	0.351	0	1.745	0	4.970	0	1737	33	2.6
30246.6	10000	41.8912	93.8923	-713	QW	2.0	0	5.4	0	1.1	1	0.367	0	1.760	0	4.790	-1	1736	47	2.6
30246.7	10000	41.8912	93.8914	-717	QW	1.9	0	5.3	0	1.2	1	0.368	0	1.686	0	4.585	-1	1729	40	2.6
30246.8	10000	41.8912	93.8905	-722	QW	1.9	0	5.3	0	1.1	1	0.363	0	1.715	0	4.728	-1	1721	46	2.6
30246.9	10000	41.8912	93.8896	-726	QW	2.0	0	5.1	0	1.1	0	0.391	0	1.916	0	4.902	0	1715	44	2.6
30247.0	10000	41.8912	93.8887	-730	QW	1.9	0	4.7	-1	1.0	-1	0.404	0	1.920	0	4.757	-1	1681	46	2.6
30247.1	10000	41.8912	93.8878	-732	QW	1.8	0	4.9	-1	1.0	-1	0.372	0	1.859	0	5.002	0	1667	52	2.6
30247.2	10000	41.8913	93.8869	-737	QW	1.6	-1	4.8	-1	0.9	-1	0.335	0	1.700	0	5.074	0	1660	53	2.6
30247.3	10000	41.8913	93.8859	-744	QW	1.7	-1	5.0	-1	1.0	-1	0.351	0	1.771	0	5.049	0	1666	46	2.6
30247.4	10000	41.8913	93.8850	-749	QW	1.7	-1	4.9	-1	1.0	0	0.357	0	1.703	0	4.773	-1	1678	49	2.6
30247.5	10000	41.8913	93.8841	-753	QW	1.8	0	4.8	-1	1.0	0	0.383	0	1.817	0	4.745	-1	1665	57	2.7
30247.6	10000	41.8913	93.8832	-757	QW	1.8	0	4.8	-1	1.1	0	0.380	0	1.730	0	4.552	-1	1658	44	2.7
30247.7	10000	41.8913	93.8823	-762	QW	1.9	0	5.0	-1	1.0	0	0.388	0	1.886	0	4.864	-1	1663	46	2.7
30247.8	10000	41.8913	93.8813	-767	QW	2.2	1	5.2	0	1.1	0	0.425	1	2.067	0	4.861	-1	1686	50	2.7
30247.9	10000	41.8913	93.8804	-771	QW	2.3	1	5.2	0	1.1	0	0.442	1	2.138	0	4.841	-1	1702	47	2.7
30248.0	10000	41.8913	93.8795	-776	QW	2.2	1	5.0	-1	1.1	0	0.437	1	2.061	0	4.712	-1	1695	26	2.7
30248.1	10000	41.8913	93.8786	-781	QW	2.0	0	5.0	-1	1.0	0	0.389	0	1.901	0	4.892	0	1682	53	2.7
30248.2	10000	41.8914	93.8777	-785	QW	1.9	0	4.8	-1	1.1	0	0.393	0	1.800	0	4.575	-1	1693	53	2.7
30248.3	10000	41.8914	93.8768	-789	QW	2.0	0	4.9	-1	1.1	0	0.409	0	1.913	0	4.676	-1	1704	45	2.7
30248.4	10000	41.8914	93.8759	-794	QW	1.7	-1	4.9	-1	1.1	0	0.350	0	1.579	-1	4.508	-1	1703	58	2.7
30248.5	10000	41.8914	93.8749	-798	QW	1.7	-1	4.8	-1	1.1	0	0.343	0	1.507	-1	4.388	-1	1697	43	2.7
30248.6	10000	41.8914	93.8740	-801	QW	1.7	-1	4.8	-1	1.1	0	0.355	0	1.557	-1	4.385	-1	1675	51	2.7
30248.7	10000	41.8914	93.8731	-806	QW	1.6	-1	4.9	-1	1.1	0	0.325	0	1.520	-1	4.675	-1	1674	37	2.7
30248.8	10000	41.8914	93.8722	-810	QW	1.7	-1	5.1	-1	1.0	0	0.328	0	1.606	-1	4.904	0	1671	45	2.7
30248.9	10000	41.8914	93.8713	-814	QW	1.6	-1	5.3	0	1.0	-1	0.301	-1	1.514	-1	5.029	0	1671	42	2.7
30249.0	10000	41.8915	93.8703	-819	QW	1.5	-1	4.9	-1	1.0	-1	0.313	-1	1.477	-1	4.712	-1	1665	38	2.7
30249.1	10000	41.8915	93.8694	-824	QW	1.5	-1	4.9	-1	1.1	-1	0.310	-1	1.405	-1	4.526	-1	1670	58	2.7
30249.2	10000	41.8915	93.8685	-827	QW	1.4	-2	4.9	-1	1.1	-1	0.277	-1	1.246	-1	4.499	-1	1676	49	2.7
30249.3	10000	41.8915	93.8676	-831	QAL	1.3	-2	4.7	-2	1.1	-1	0.271	-1	1.137	-2	4.191	-2	1693	47	2.7
30249.4	10000	41.8915	93.8667	-834	QAL	1.7	-1	4.8	-2	1.1	0	0.346	0	1.462	-2	4.221	-2	1715	46	2.7
30249.5	10000	41.8915	93.8658	-836	QAL	1.9	-1	5.0	-1	1.2	0	0.370	0	1.606	-1	4.346	-2	1741	50	2.7
30249.6	10000	41.8915	93.8649	-839	QAL	2.2	-1	4.9	-2	1.1	1	0.438	1	1.911	-1	4.366	-2	1771	49	2.7
30249.7	10000	41.8915	93.8639	-842	QAL	2.3	0	5.2	-1	1.1	1	0.455	1	2.088	0	4.586	-2	1798	53	2.7
30249.8	10000	41.8915	93.8630	-845	QAL	2.5	1	5.4	-1	1.0	1	0.471	1	2.453	1	5.207	-1	1814	43	2.7
30249.9	10000	41.8916	93.8621	-847	QAL	2.8	1	5.5	-1	1.0	2	0.515	2	2.800	1	5.437	-1	1827	65	2.7
30250.0	10000	41.8916	93.8612	-850	QAL	2.8	1	5.5	-1	1.0	-1	0.518	2	2.895	1	5.585	-1	1834	44	2.7
30250.1	10000	41.8916	93.8603	-853	QAL	2.6	0	5.2	-1	1.0	-1	0.498	1	2.723	1	5.466	-1	1805	60	2.7

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30250.2	10000	41.8916	93.8593	-856	QAL	2.4	0	4.7	-2	0.9	-1	0.524	2	2.762	1	5.270	-1	1773	47	2.7
30250.3	10000	41.8916	93.8584	-858	QAL	2.4	0	4.5	-2	0.9	-2	0.531	2	2.779	1	5.232	-1	1728	52	2.7
30250.4	10000	41.8916	93.8575	-860	QAL	2.3	0	4.4	-2	0.8	-2	0.517	2	2.807	1	5.427	-1	1693	45	2.7
30250.5	10000	41.8916	93.8566	-862	QAL	2.4	0	3.5	-3	0.8	-2	0.698	4	2.950	1	4.229	-2	1662	53	2.7
30250.6	10000	41.8916	93.8557	-864	QAL	2.3	1	3.7	-2	0.8	-3	0.624	3	2.954	2	4.735	-1	1626	51	2.7
30250.7	10000	41.8917	93.8548	-865	QAL	2.6	1	4.5	-1	0.8	-2	0.572	2	3.160	3	5.528	1	1624	48	2.8
30250.8	10000	41.8917	93.8539	-866	QAL	2.5	1	4.7	-1	0.9	-2	0.532	2	2.880	2	5.416	0	1650	57	2.8
30250.9	10000	41.8917	93.8529	-867	QAL	2.4	1	4.8	-1	0.9	-1	0.495	1	2.608	1	5.268	0	1654	49	2.8
30251.0	10000	41.8917	93.8520	-867	QAL	2.3	1	5.1	0	0.9	-1	0.456	1	2.510	1	5.500	0	1666	51	2.8
30251.1	10000	41.8917	93.8511	-869	QAL	2.4	1	5.2	0	1.0	-1	0.460	1	2.462	1	5.353	0	1679	37	2.8
30251.2	10000	41.8917	93.8502	-870	QAL	2.2	1	5.6	0	1.0	-1	0.396	0	2.211	1	5.578	1	1694	55	2.8
30251.3	10000	41.8917	93.8493	-872	QAL	2.3	1	5.3	0	1.0	0	0.436	1	2.246	1	5.149	0	1704	54	2.8
30251.4	10000	41.8917	93.8483	-874	QAL	2.0	0	5.1	-1	1.1	0	0.393	0	1.871	0	4.759	-1	1711	39	2.8
30251.5	10000	41.8917	93.8474	-875	QAL	2.0	0	5.0	-1	1.0	0	0.394	0	1.903	0	4.833	-1	1689	56	2.8
30251.6	10000	41.8918	93.8465	-876	QAL	2.0	0	5.3	0	1.1	0	0.381	0	1.857	0	4.879	-1	1694	55	2.8
30251.7	10000	41.8918	93.8456	-877	QAL	1.9	0	5.3	0	1.1	1	0.351	0	1.678	0	4.782	-1	1697	46	2.8
30251.8	10000	41.8918	93.8447	-878	QAL	1.6	-1	5.5	0	1.1	0	0.299	-1	1.489	-1	4.981	0	1705	58	2.8
30251.9	10000	41.8918	93.8438	-880	QAL	1.6	-1	6.0	1	1.1	0	0.273	-1	1.542	-1	5.657	1	1700	44	2.8
30252.0	10000	41.8918	93.8428	-881	QAL	1.4	-1	5.7	0	1.1	0	0.247	-1	1.327	-1	5.378	0	1695	48	2.8
30252.1	10000	41.8918	93.8419	-882	QAL	1.7	-1	5.5	0	1.0	-1	0.304	-1	1.667	-1	5.480	0	1686	33	2.8
30252.2	10000	41.8918	93.8410	-883	QAL	1.7	-1	5.6	0	1.0	0	0.301	-1	1.671	0	5.544	1	1709	47	2.8
30252.3	10000	41.8918	93.8401	-883	QAL	1.8	-1	5.6	0	1.0	-1	0.312	-1	1.785	0	5.719	1	1724	34	2.8
30252.4	10000	41.8918	93.8392	-883	QAL	1.7	-1	5.5	0	1.0	-1	0.302	-1	1.674	0	5.538	1	1732	60	2.8
30252.6	10000	41.8919	93.8373	-884	QAL	1.5	-1	5.9	1	1.0	0	0.252	-1	1.472	-1	5.834	1	1721	43	2.8
30252.7	10000	41.8919	93.8364	-884	QAL	1.4	-1	5.6	0	1.0	0	0.256	-1	1.381	-1	5.399	0	1723	56	2.8
30252.8	10000	41.8919	93.8355	-885	QAL	1.7	-1	6.0	1	1.0	0	0.286	-1	1.670	0	5.829	1	1731	45	2.8
30252.9	10000	41.8919	93.8346	-885	QAL	1.5	-1	6.1	1	1.1	0	0.244	-1	1.412	-1	5.793	1	1723	46	2.8
30253.0	10000	41.8919	93.8337	-884	QAL	1.7	-1	6.2	1	1.1	0	0.273	-1	1.590	-1	5.823	1	1720	49	2.8
30253.1	10000	41.8919	93.8328	-884	QAL	1.6	-1	5.9	1	1.1	0	0.268	-1	1.444	-1	5.389	0	1699	57	2.9
30253.2	10000	41.8919	93.8318	-884	QAL	1.5	-1	5.8	1	1.0	0	0.263	-1	1.450	-1	5.511	1	1683	54	2.9
30253.3	10000	41.8919	93.8309	-884	QAL	1.6	-1	5.4	0	1.0	0	0.305	-1	1.574	-1	5.164	0	1676	42	2.9
30253.4	10000	41.8920	93.8300	-884	QAL	1.7	-1	5.2	0	1.0	0	0.333	0	1.682	0	5.054	0	1690	50	2.9
30253.5	10000	41.8920	93.8291	-884	QAL	1.8	-1	5.3	0	1.1	0	0.330	0	1.675	0	5.068	0	1700	59	2.9
30253.6	10000	41.8920	93.8282	-882	QAL	1.8	0	5.3	0	1.1	0	0.338	0	1.678	0	4.966	0	1720	44	2.9
30253.7	10000	41.8920	93.8273	-882	QAL	1.6	-1	4.9	-1	1.1	0	0.315	-1	1.419	-1	4.501	-1	1728	53	2.9
30253.8	10000	41.8920	93.8263	-883	QAL	1.5	-1	5.2	0	1.1	0	0.289	-1	1.308	-1	4.527	-1	1742	65	2.9
30253.9	10000	41.8920	93.8254	-884	QAL	1.6	-1	5.4	0	1.2	0	0.291	-1	1.294	-1	4.451	-1	1749	54	2.9
30254.0	10000	41.8920	93.8245	-885	QAL	1.7	-1	5.6	0	1.2	0	0.300	-1	1.366	-1	4.560	-1	1752	56	2.9
30254.1	10000	41.8920	93.8236	-886	QAL	1.6	-1	5.7	0	1.2	0	0.280	-1	1.282	-1	4.586	-1	1746	37	2.9
30254.2	10000	41.8920	93.8227	-886	QAL	1.3	-2	5.5	0	1.2	0	0.240	-1	1.091	-2	4.544	-1	1746	57	2.9
30254.3	10000	41.8921	93.8218	-885	QAL	1.4	-2	5.7	0	1.2	0	0.237	-1	1.085	-2	4.587	-1	1754	38	2.9
30254.4	10000	41.8921	93.8208	-885	QAL	1.3	-2	6.0	1	1.2	0	0.225	-2	1.085	-2	4.829	-1	1738	32	2.9
30254.5	10000	41.8921	93.8199	-886	QAL	1.5	-1	6.1	1	1.2	0	0.244	-1	1.245	-1	5.100	0	1746	45	2.9
30254.6	10000	41.8921	93.8190	-886	QAL	1.5	-1	6.2	1	1.2	0	0.247	-1	1.319	-1	5.333	0	1742	55	2.9
30254.7	10000	41.8921	93.8181	-886	QAL	1.6	-1	6.1	1	1.2	0	0.261	-1	1.362	-1	5.210	0	1753	43	2.9
30254.8	10000	41.8921	93.8172	-887	QAL	1.6	-1	5.7	0	1.2	0	0.275	-1	1.344	-1	4.886	0	1748	45	3.0
30254.9	10000	41.8921	93.8163	-887	QAL	1.7	-1	5.7	0	1.2	0	0.306	-1	1.499	-1	4.893	0	1744	30	3.0
30255.0	10000	41.8921	93.8153	-887	QAL	1.7	-1	5.7	0	1.2	0	0.294	-1	1.441	-1	4.907	0	1734	53	3.0
30255.1	10000	41.8922	93.8144	-887	QAL	1.7	-1	5.7	0	1.2	0	0.297	-1	1.452	-1	4.896	0	1750	49	3.0
30255.2	10000	41.8922	93.8135	-887	QAL	1.7	-1	5.6	0	1.2	0	0.308	-1	1.515	-1	4.921	0	1743	55	3.0
30255.3	10000	41.8922	93.8126	-887	QAL	1.7	-1	5.7	0	1.1	0	0.290	-1	1.487	-1	5.134	0	1751	49	3.0
30255.4	10000	41.8922	93.8117	-887	QAL	1.4	-1	5.7	0	1.1	0	0.247	-1	1.291	-1	5.232	0	1751	47	3.0

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30255.5	10000	41.8922	93.8108	-886	QW	1.5	-1	5.9	1	1.1	0	0.257	-1	1.441	-1	5.610	1	1757	72	3.0
30255.6	10000	41.8922	93.8098	-887	QW	1.4	-1	5.9	1	1.1	0	0.243	-1	1.310	-1	5.384	0	1760	44	3.0
30255.7	10000	41.8922	93.8089	-886	QW	1.6	-1	5.8	1	1.0	0	0.279	-1	1.549	-1	5.545	1	1767	33	3.0
30255.8	10000	41.8922	93.8080	-886	QW	1.8	0	5.6	0	1.0	-1	0.322	-1	1.791	0	5.563	1	1761	47	3.0
30255.9	10000	41.8922	93.8071	-886	QW	1.8	-1	5.3	0	1.0	0	0.330	0	1.739	0	5.273	0	1763	34	3.0
30256.0	10000	41.8923	93.8062	-886	QW	2.0	0	5.1	-1	1.0	0	0.389	0	1.907	0	4.903	0	1772	37	3.0
30256.1	10000	41.8923	93.8053	-887	QW	2.3	1	4.7	-1	1.0	0	0.493	1	2.198	1	4.460	-1	1775	45	3.0
30256.2	10000	41.8923	93.8043	-886	QW	2.5	1	4.6	-1	1.1	0	0.538	2	2.242	1	4.169	-2	1781	40	3.0
30256.3	10000	41.8923	93.8034	-886	QW	2.4	1	4.6	-1	1.1	0	0.531	2	2.293	1	4.321	-1	1781	43	3.0
30256.4	10000	41.8923	93.8025	-885	QW	2.5	1	4.7	-1	1.1	1	0.530	2	2.219	1	4.184	-2	1785	40	3.1
30256.5	10000	41.8923	93.8016	-884	QW	2.3	1	4.9	-1	1.1	1	0.471	1	2.011	0	4.267	-1	1784	44	3.1
30256.6	10000	41.8923	93.8007	-881	QW	2.1	0	5.0	-1	1.1	0	0.408	0	1.870	0	4.578	-1	1768	46	3.1
30256.7	10000	41.8923	93.7998	-880	QW	2.0	0	5.1	0	1.1	1	0.380	0	1.749	0	4.599	-1	1751	54	3.1
30256.8	10000	41.8923	93.7988	-882	QW	1.8	0	5.8	0	1.1	0	0.315	-1	1.666	-1	5.282	0	1739	59	3.1
30256.9	10000	41.8923	93.7979	-883	QW	1.7	-1	5.7	0	1.0	0	0.301	-1	1.678	0	5.578	1	1731	53	3.1
30257.0	10000	41.8924	93.7970	-884	QW	1.8	0	5.8	1	1.0	0	0.306	-1	1.735	0	5.675	1	1741	40	3.1
30257.1	10000	41.8924	93.7961	-884	QW	1.7	-1	5.8	0	1.0	-1	0.302	-1	1.779	0	5.891	1	1729	41	3.1
30257.2	10000	41.8924	93.7952	-884	QW	1.8	-1	5.7	0	1.0	-1	0.309	-1	1.824	0	5.898	1	1732	36	3.1
30257.3	10000	41.8924	93.7943	-883	QW	1.9	0	5.6	0	1.0	-1	0.340	0	1.918	0	5.639	1	1743	51	3.1
30257.4	10000	41.8924	93.7933	-883	QW	2.3	1	5.8	0	1.0	-1	0.392	0	2.360	1	6.017	1	1753	47	3.1
30257.5	10000	41.8924	93.7924	-882	QW	2.1	0	5.6	0	1.0	-1	0.374	0	2.126	0	5.679	1	1766	46	3.1
30257.6	10000	41.8924	93.7915	-882	QW	1.9	0	5.9	1	1.0	-1	0.328	0	1.933	0	5.894	1	1766	52	3.1
30257.7	10000	41.8925	93.7906	-882	QW	2.0	0	5.9	1	1.0	0	0.334	0	1.905	0	5.701	1	1763	37	3.1
30257.8	10000	41.8925	93.7897	-882	QW	1.8	0	5.7	0	1.0	0	0.318	-1	1.747	0	5.496	0	1768	45	3.1
30257.9	10000	41.8925	93.7888	-882	QW	1.9	0	5.7	0	1.0	0	0.326	0	1.809	0	5.545	1	1767	47	3.1
30258.0	10000	41.8925	93.7879	-881	QW	1.8	0	5.9	1	1.0	0	0.312	-1	1.790	0	5.742	1	1771	58	3.1
30258.1	10000	41.8925	93.7870	-881	QW	1.5	-1	5.7	0	1.1	0	0.264	-1	1.419	-1	5.385	0	1766	53	3.1
30258.2	10000	41.8926	93.7861	-881	QW	1.6	-1	5.5	0	1.0	0	0.296	-1	1.571	-1	5.316	0	1758	49	3.1
30258.3	10000	41.8926	93.7852	-880	QW	1.9	0	5.5	0	1.0	0	0.337	0	1.794	0	5.328	0	1760	61	3.1
30258.4	10000	41.8926	93.7843	-880	QW	1.7	-1	5.3	0	1.0	0	0.324	0	1.712	0	5.280	0	1760	44	3.2
30258.5	10000	41.8926	93.7833	-880	QW	1.9	0	5.5	0	1.0	0	0.350	0	1.844	0	5.265	0	1755	48	3.2
30258.6	10000	41.8926	93.7824	-880	QW	2.0	0	5.5	0	1.1	0	0.361	0	1.843	0	5.100	0	1770	51	3.2
30258.7	10000	41.8927	93.7815	-879	QW	1.9	0	5.2	0	1.0	0	0.372	0	1.899	0	5.100	0	1763	52	3.2
30258.8	10000	41.8927	93.7806	-879	QW	2.0	0	5.5	0	1.0	0	0.364	0	1.910	0	5.253	0	1773	47	3.2
30258.9	10000	41.8927	93.7797	-880	QW	1.9	0	5.8	0	1.0	0	0.329	0	1.881	0	5.714	1	1784	46	3.2
30259.0	10000	41.8927	93.7788	-880	QW	1.7	-1	5.6	0	1.0	0	0.300	-1	1.673	0	5.580	1	1774	38	3.2
30259.1	10000	41.8928	93.7779	-881	QW	1.8	-1	5.8	1	1.0	0	0.302	-1	1.724	0	5.703	1	1771	35	3.2
30259.2	10000	41.8928	93.7770	-881	QW	1.7	-1	5.9	1	1.0	0	0.282	-1	1.604	-1	5.685	1	1780	50	3.2
30259.3	10000	41.8928	93.7761	-880	QW	1.5	-1	5.9	1	1.0	-1	0.250	-1	1.491	-1	5.959	1	1750	40	3.2
30259.4	10000	41.8928	93.7752	-880	QW	1.7	-1	5.9	1	1.0	0	0.290	-1	1.652	-1	5.698	1	1747	43	3.2
30259.5	10000	41.8928	93.7743	-880	QW	1.7	-1	5.6	1	1.0	0	0.294	-1	1.643	-1	5.590	1	1735	50	3.2
30259.6	10000	41.8929	93.7734	-880	QW	1.8	-1	5.5	1	1.0	0	0.320	-1	1.703	0	5.329	0	1725	39	3.2
30259.7	10000	41.8929	93.7725	-880	QW	1.7	-1	5.7	1	1.0	0	0.295	-1	1.625	-1	5.514	1	1736	42	3.2
30259.8	10000	41.8929	93.7715	-880	QW	1.6	-1	5.6	1	1.0	0	0.291	-1	1.596	-1	5.485	1	1733	55	3.2
30259.9	10000	41.8929	93.7706	-880	QW	1.6	-1	5.5	1	1.0	0	0.293	-1	1.544	-1	5.278	1	1735	52	3.2
30260.0	10000	41.8930	93.7697	-879	QW	1.5	-1	5.3	1	1.0	0	0.291	-1	1.510	-1	5.198	0	1741	55	3.2
30260.1	10000	41.8930	93.7688	-880	QW	1.6	-1	5.8	1	1.0	0	0.279	-1	1.615	-1	5.792	1	1750	46	3.2
30260.2	10000	41.8930	93.7679	-878	QW	1.6	-1	5.9	1	1.0	0	0.263	-1	1.553	-1	5.902	1	1744	44	3.2
30260.3	10000	41.8930	93.7670	-878	QW	1.6	-1	5.7	1	1.0	0	0.280	-1	1.615	-1	5.759	1	1736	50	3.2
30260.4	10000	41.8930	93.7661	-879	QW	1.8	0	5.5	1	1.0	0	0.335	0	1.865	0	5.572	1	1736	49	3.2
30260.5	10000	41.8931	93.7652	-878	QW	1.7	-1	5.5	0	1.0	0	0.323	-1	1.730	0	5.351	1	1738	39	3.2
30260.6	10000	41.8931	93.7643	-878	QW	1.7	-1	5.5	0	1.0	-1	0.306	-1	1.709	0	5.584	1	1729	41	3.2

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30260.7	10000	41.8931	93.7634	-880	QW	1.9	0	5.7	0	1.0	0	0.324	0	1.819	0	5.615	1	1746	51	3.2
30260.8	10000	41.8931	93.7625	-880	QW	1.7	-1	5.7	0	1.0	0	0.303	-1	1.664	-1	5.496	0	1754	52	3.2
30260.9	10000	41.8932	93.7616	-880	QW	1.7	-1	5.5	0	1.1	0	0.301	-1	1.562	-1	5.194	0	1748	44	3.2
30261.0	10000	41.8932	93.7607	-880	QW	1.6	-1	5.9	1	1.1	0	0.265	-1	1.442	-1	5.440	0	1761	44	3.2
30261.1	10000	41.8932	93.7598	-881	QW	1.3	-2	5.8	1	1.1	1	0.220	-2	1.136	-2	5.154	0	1745	41	3.2
30261.2	10000	41.8932	93.7588	-880	QW	1.3	-2	6.0	1	1.1	0	0.207	-2	1.134	-2	5.466	0	1758	49	3.2
30261.3	10000	41.8932	93.7579	-877	QW	1.5	-1	6.2	1	1.1	1	0.235	-1	1.318	-1	5.610	1	1773	36	3.2
30261.4	10000	41.8933	93.7570	-877	QW	1.8	0	6.2	1	1.1	0	0.288	-1	1.659	-1	5.753	1	1771	42	3.2
30261.5	10000	41.8933	93.7561	-882	QW	1.8	0	5.7	0	1.1	0	0.319	-1	1.726	0	5.406	0	1761	41	3.2
30261.6	10000	41.8933	93.7552	-883	QW	2.1	0	5.6	0	1.0	0	0.368	0	1.971	0	5.355	0	1776	54	3.2
30261.7	10000	41.8933	93.7543	-883	QW	2.2	0	5.4	0	1.0	0	0.402	0	2.079	0	5.166	0	1771	45	3.2
30261.8	10000	41.8933	93.7534	-883	QW	2.5	1	5.4	0	1.0	-1	0.459	1	2.566	1	5.584	1	1772	33	3.2
30261.9	10000	41.8934	93.7525	-883	QW	2.7	2	5.3	0	0.9	-1	0.507	1	2.838	2	5.601	1	1753	55	3.2
30262.0	10000	41.8934	93.7516	-883	QW	2.6	1	5.2	0	1.0	-1	0.497	1	2.670	2	5.368	0	1740	52	3.2
30262.1	10000	41.8934	93.7507	-883	QW	2.3	1	4.9	-1	1.0	-1	0.467	1	2.386	1	5.114	0	1720	50	3.2
30262.2	10000	41.8934	93.7498	-884	QW	2.1	0	4.8	-1	1.0	-1	0.428	1	2.141	0	4.998	0	1700	36	3.2
30262.3	10000	41.8935	93.7489	-883	QW	2.0	0	4.7	-1	0.9	-1	0.423	1	2.133	0	5.046	0	1693	52	3.2
30262.4	10000	41.8935	93.7480	-883	QW	1.8	0	4.6	-1	0.9	-1	0.398	0	1.987	0	4.987	0	1681	58	3.2
30262.5	10000	41.8935	93.7470	-884	QW	1.8	0	4.8	-1	1.0	-1	0.380	0	1.834	0	4.833	-1	1686	59	3.2
30262.6	10000	41.8935	93.7461	-884	QW	1.7	-1	4.8	-1	1.0	0	0.367	0	1.703	0	4.645	-1	1685	57	3.2
30262.7	10000	41.8935	93.7452	-885	QW	1.6	-1	4.9	-1	1.0	0	0.322	-1	1.568	-1	4.866	-1	1673	41	3.2
30262.8	10000	41.8936	93.7443	-886	QW	1.3	-2	4.8	-1	1.1	0	0.271	-1	1.209	-1	4.455	-1	1682	35	3.2
30262.9	10000	41.8936	93.7434	-886	QW	1.4	-1	5.1	-1	1.1	1	0.277	-1	1.237	-1	4.465	-1	1694	34	3.2
30263.0	10000	41.8936	93.7425	-886	QW	1.4	-2	5.4	0	1.1	1	0.254	-1	1.217	-1	4.789	-1	1690	48	3.2
30263.1	10000	41.8936	93.7416	-886	QW	1.4	-1	5.1	0	1.1	1	0.281	-1	1.273	-1	4.527	-1	1705	46	3.2
30263.2	10000	41.8936	93.7407	-886	QW	1.3	-2	4.9	-1	1.2	1	0.257	-1	1.092	-2	4.256	-2	1711	48	3.2
30263.3	10000	41.8937	93.7398	-887	QW	1.2	-2	5.0	-1	1.1	1	0.241	-1	1.061	-2	4.400	-1	1711	63	3.2
30263.4	10000	41.8937	93.7389	-887	QW	1.4	-1	4.8	-1	1.1	1	0.295	-1	1.275	-1	4.327	-1	1713	50	3.2
30263.5	10000	41.8937	93.7380	-887	QW	1.5	-1	5.1	-1	1.1	1	0.306	-1	1.449	-1	4.734	-1	1711	44	3.2
30263.6	10000	41.8937	93.7371	-887	QW	1.4	-1	5.2	-1	1.1	0	0.279	-1	1.377	-1	4.934	0	1718	41	3.2
30263.7	10000	41.8938	93.7361	-887	QW	1.4	-1	5.1	-1	1.1	0	0.274	-1	1.301	-1	4.757	-1	1732	42	3.2
30263.8	10000	41.8938	93.7352	-886	QW	1.4	-1	5.4	-1	1.1	0	0.267	-1	1.375	-1	5.159	0	1727	45	3.2
30263.9	10000	41.8938	93.7343	-886	QW	1.6	-1	5.6	-1	1.1	0	0.279	-1	1.516	-1	5.429	0	1737	46	3.2
30264.0	10000	41.8938	93.7334	-886	QW	1.7	-1	5.4	-1	1.0	0	0.308	-1	1.627	-1	5.288	0	1748	43	3.1
30264.1	10000	41.8938	93.7325	-887	QW	1.7	-1	5.5	-1	1.1	0	0.304	-1	1.650	-1	5.423	0	1758	41	3.1
30264.2	10000	41.8939	93.7316	-887	QW	1.7	-1	5.3	-1	1.1	0	0.312	-1	1.606	-1	5.149	0	1759	51	3.1
30264.3	10000	41.8939	93.7307	-887	QW	1.7	-1	5.3	-1	1.1	0	0.321	-1	1.658	-1	5.161	0	1757	57	3.1
30264.4	10000	41.8939	93.7298	-888	QW	1.7	-1	5.5	-1	1.1	0	0.316	-1	1.728	-1	5.464	0	1745	46	3.1
30264.5	10000	41.8939	93.7289	-888	QW	1.7	-1	5.7	-1	1.1	0	0.291	-1	1.641	-1	5.630	0	1750	35	3.1
30264.6	10000	41.8939	93.7280	-888	QW	1.6	-1	5.9	-1	1.1	0	0.275	-1	1.681	-1	6.122	0	1729	64	3.1
30264.7	10000	41.8940	93.7271	-888	QW	1.8	0	5.8	-1	1.1	0	0.315	-1	1.904	-1	6.041	0	1721	44	3.1
30264.8	10000	41.8940	93.7262	-889	QW	1.8	0	6.0	-1	1.1	0	0.301	-1	1.850	-1	6.143	0	1719	46	3.1
30264.9	10000	41.8940	93.7253	-889	QW	1.8	0	6.4	-1	1.1	0	0.288	-1	1.994	-1	6.927	0	1719	61	3.1
30265.0	10000	41.8940	93.7243	-889	QW	2.1	0	6.2	-1	1.1	0	0.337	0	2.307	0	6.849	0	1724	62	3.1
30265.1	10000	41.8940	93.7234	-889	QW	2.2	0	6.1	-1	1.1	0	0.362	0	2.374	0	6.555	0	1734	34	3.1
30265.2	10000	41.8941	93.7225	-890	QW	2.3	0	6.6	-1	1.1	0	0.415	0	2.503	0	6.038	0	1729	44	3.1
30265.3	10000	41.8941	93.7216	-890	QW	2.1	0	6.5	-1	1.1	0	0.403	0	2.245	0	5.575	0	1728	45	3.1
30265.4	10000	41.8941	93.7207	-890	QW	1.9	0	5.4	-1	1.1	0	0.340	0	1.991	0	5.850	0	1721	52	3.1
30265.5	10000	41.8941	93.7198	-890	QW	2.0	0	5.3	-1	1.1	0	0.365	0	2.198	0	6.019	0	1700	44	3.1
30265.6	10000	41.8941	93.7189	-891	QW	1.8	0	5.5	-1	1.1	0	0.355	0	2.060	0	5.799	0	1693	53	3.1
30265.7	10000	41.8942	93.7180	-891	QW	1.8	0	5.5	-2	1.1	0	0.328	0	2.076	0	6.331	1	1684	61	3.1
30265.8	10000	41.8942	93.7171	-891	QW	1.9	0	5.3	-2	0.8	0	0.350	0	2.207	1	6.305	2	1686	45	3.1

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30265.9	10000	41.8942	93.7162	-891	QW	1.9	0	5.2	0	0.8	-2	0.364	0	2.250	1	6.175	2	1679	41	3.1
30266.0	10000	41.8942	93.7153	-891	QW	2.2	1	5.3	0	0.8	-2	0.419	1	2.650	2	6.327	2	1692	38	3.1
30266.1	10000	41.8943	93.7144	-891	QW	2.5	1	5.4	0	0.9	-2	0.465	1	2.915	2	6.265	2	1703	63	3.1
30266.2	10000	41.8943	93.7135	-891	QW	2.5	1	5.3	0	0.9	-2	0.466	1	2.796	2	6.001	1	1709	48	3.1
30266.3	10000	41.8943	93.7126	-892	QW	2.6	1	5.0	-1	0.9	-2	0.520	2	2.932	2	5.636	1	1721	38	3.1
30266.4	10000	41.8943	93.7116	-892	QW	2.5	1	4.8	-1	0.9	-1	0.513	2	2.657	2	5.182	0	1714	41	3.1
30266.5	10000	41.8943	93.7107	-893	QW	2.4	1	5.0	-1	0.9	-1	0.482	1	2.570	1	5.330	0	1709	50	3.1
30266.6	10000	41.8944	93.7098	-893	QW	2.3	1	5.2	0	0.9	-1	0.440	1	2.435	1	5.534	1	1711	38	3.1
30266.7	10000	41.8944	93.7089	-893	QW	2.1	0	5.1	0	1.0	-1	0.416	0	2.161	1	5.193	0	1715	49	3.1
30266.8	10000	41.8944	93.7080	-894	QW	2.0	0	5.0	-1	0.9	-1	0.391	0	2.081	0	5.324	0	1718	41	3.1
30266.9	10000	41.8944	93.7071	-894	QW	1.8	-1	4.9	-1	0.9	-1	0.361	0	1.878	0	5.210	0	1731	67	3.1
30267.0	10000	41.8944	93.7062	-894	QW	1.8	0	4.9	-1	1.0	-1	0.373	0	1.894	0	5.076	0	1734	44	3.1
30267.1	10000	41.8945	93.7053	-894	QW	1.8	0	5.3	0	1.0	0	0.341	0	1.812	0	5.312	0	1752	49	3.1
30267.2	10000	41.8945	93.7044	-895	QW	1.5	-1	5.2	0	1.0	0	0.286	-1	1.479	-1	5.165	0	1744	40	3.1
30267.3	10000	41.8945	93.7035	-895	QW	1.7	-1	5.5	0	1.0	-1	0.303	-1	1.674	0	5.520	1	1750	37	3.1
30267.4	10000	41.8945	93.7026	-896	QW	1.7	-1	5.5	0	1.0	-1	0.312	-1	1.783	0	5.706	1	1731	38	3.1
30267.5	10000	41.8946	93.7017	-895	QW	1.8	-1	5.6	0	1.0	-1	0.317	-1	1.767	0	5.568	1	1718	47	3.1
30267.6	10000	41.8946	93.7008	-895	QW	1.9	0	5.5	0	1.0	0	0.349	0	1.916	0	5.494	0	1707	44	3.1
30267.7	10000	41.8946	93.6998	-895	QW	1.8	0	5.7	0	1.0	-1	0.318	-1	1.849	0	5.819	1	1692	56	3.1
30267.8	10000	41.8946	93.6989	-895	QW	1.8	0	5.2	0	0.9	-1	0.347	0	1.947	0	5.619	1	1673	44	3.1
30267.9	10000	41.8946	93.6980	-895	QW	2.0	0	5.3	0	0.9	-1	0.388	0	2.212	1	5.706	1	1669	38	3.1
30268.0	10000	41.8947	93.6971	-895	QW	2.0	0	5.0	-1	1.0	-1	0.399	0	2.089	0	5.236	0	1658	43	3.1
30268.1	10000	41.8947	93.6962	-893	QW	2.2	0	5.0	-1	1.0	-1	0.435	1	2.242	1	5.155	0	1672	48	3.1
30268.2	10000	41.8947	93.6953	-892	QW	2.2	0	4.9	-1	1.0	-1	0.449	1	2.260	1	5.029	0	1664	40	3.1
30268.3	10000	41.8947	93.6944	-893	QW	2.1	0	4.9	-1	1.0	-1	0.433	1	2.223	1	5.133	0	1676	45	3.1
30268.4	10000	41.8947	93.6935	-895	QW	2.0	0	5.1	0	1.0	-1	0.390	1	2.006	1	5.146	0	1681	31	3.1
30268.5	10000	41.8948	93.6926	-895	QW	2.2	0	5.1	0	1.0	-1	0.425	1	2.085	1	4.906	0	1701	49	3.1
30268.6	10000	41.8948	93.6917	-895	QW	2.3	1	5.3	0	1.0	-1	0.429	1	2.216	1	5.172	0	1707	45	3.1
30268.7	10000	41.8948	93.6908	-895	QW	2.1	0	5.5	0	1.0	-1	0.386	1	2.136	1	5.536	1	1722	38	3.1
30268.8	10000	41.8948	93.6899	-895	QW	2.0	0	5.6	0	1.0	-1	0.361	1	1.949	1	5.395	0	1739	51	3.1
30268.9	10000	41.8948	93.6889	-895	QW	1.8	-1	6.0	0	1.0	-1	0.294	-1	1.696	1	5.772	1	1765	56	3.1
30269.0	10000	41.8949	93.6880	-895	QW	1.8	-1	5.9	0	1.1	-1	0.314	-1	1.716	1	5.468	0	1757	47	3.1
30269.1	10000	41.8949	93.6871	-896	QW	1.9	0	5.9	0	1.1	-1	0.320	-1	1.772	1	5.541	1	1772	55	3.1
30269.2	10000	41.8949	93.6862	-896	QW	1.8	-1	6.5	1	1.0	-1	0.272	-1	1.694	1	6.224	2	1770	45	3.1
30269.3	10000	41.8949	93.6853	-896	QW	1.6	-1	6.1	1	1.0	-1	0.263	-1	1.568	1	5.965	1	1767	54	3.1
30269.4	10000	41.8950	93.6844	-896	QW	1.7	-1	5.5	0	1.1	-1	0.304	-1	1.599	1	5.267	0	1755	47	3.1
30269.5	10000	41.8950	93.6835	-896	QW	1.8	-1	5.7	0	1.1	-1	0.308	-1	1.699	1	5.509	1	1740	42	3.1
30269.6	10000	41.8950	93.6826	-896	QW	1.9	0	5.3	0	1.0	0	0.358	0	1.886	0	5.274	0	1725	41	3.1
30269.7	10000	41.8950	93.6817	-897	QW	1.8	0	5.4	0	1.0	-1	0.337	0	1.849	0	5.489	1	1731	65	3.1
30269.8	10000	41.8950	93.6808	-896	QW	1.8	0	5.1	0	1.0	-1	0.362	0	1.937	0	5.346	0	1725	52	3.1
30269.9	10000	41.8951	93.6799	-897	QW	1.8	0	4.7	-1	0.9	-1	0.385	0	1.983	0	5.151	0	1707	61	3.1
30270.0	10000	41.8951	93.6790	-896	QW	1.8	0	4.9	-1	0.9	-1	0.371	0	1.979	0	5.341	0	1704	57	3.1
30270.1	10000	41.8951	93.6781	-896	QW	1.8	0	5.2	0	0.9	-1	0.338	0	1.877	0	5.546	1	1714	41	3.1
30270.2	10000	41.8951	93.6772	-895	QW	1.5	-1	5.0	0	0.9	-1	0.309	-1	1.666	-1	5.396	1	1709	54	3.1
30270.3	10000	41.8951	93.6763	-894	QW	1.6	-1	5.1	0	0.9	-1	0.316	-1	1.682	-1	5.327	1	1718	45	3.1
30270.4	10000	41.8952	93.6753	-893	QW	1.6	-1	5.4	0	0.9	-1	0.303	-1	1.650	-1	5.447	1	1714	49	3.1
30270.5	10000	41.8952	93.6744	-894	QW	1.8	-1	5.6	0	1.0	-1	0.329	-1	1.868	-1	5.675	1	1711	51	3.1
30270.6	10000	41.8952	93.6735	-894	QW	1.8	0	5.7	0	1.0	-1	0.318	-1	1.845	-1	5.793	1	1726	40	3.1
30270.7	10000	41.8952	93.6726	-894	QW	2.1	0	5.6	0	1.0	-1	0.362	0	2.090	0	5.772	1	1743	46	3.1
30270.8	10000	41.8952	93.6717	-894	QW	2.2	0	6.0	1	1.0	-1	0.390	0	2.238	1	5.744	1	1744	44	3.1
30270.9	10000	41.8953	93.6708	-894	QW	2.3	1	6.0	1	1.0	-1	0.386	0	2.327	1	6.023	1	1758	51	3.1
30271.0	10000	41.8953	93.6699	-893	QW	2.3	1	6.0	1	1.0	-1	0.376	0	2.271	1	6.045	1	1759	42	3.1

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30271.1	10000	41.8953	93.6690	-893	QW	2.2	1	6.0	1	1.0	0	0.370	0	2.199	1	5.948	1	1764	38	3.1
30271.2	10000	41.8953	93.6681	-893	QW	2.0	0	5.7	0	1.0	0	0.356	0	1.976	0	5.547	1	1770	41	3.1
30271.3	10000	41.8953	93.6672	-893	QW	2.2	0	5.5	0	1.1	0	0.394	0	2.028	0	5.143	0	1751	40	3.1
30271.4	10000	41.8954	93.6663	-893	QW	1.9	0	5.4	0	1.1	0	0.344	0	1.784	0	5.181	0	1739	40	3.1
30271.5	10000	41.8954	93.6654	-892	QW	1.6	-1	5.6	0	1.0	0	0.291	-1	1.585	-1	5.447	0	1731	44	3.1
30271.6	10000	41.8954	93.6644	-892	QW	1.6	-1	5.6	0	1.0	0	0.295	-1	1.638	-1	5.554	1	1709	50	3.1
30271.7	10000	41.8954	93.6635	-892	QW	1.4	-1	5.4	0	1.0	0	0.265	-1	1.377	-1	5.205	0	1701	48	3.1
30271.8	10000	41.8955	93.6626	-892	QW	1.5	-1	5.4	0	1.0	0	0.285	-1	1.496	-1	5.245	0	1704	40	3.1
30271.9	10000	41.8955	93.6617	-892	QW	1.5	-1	5.2	0	1.0	0	0.292	-1	1.472	-1	5.044	0	1690	47	3.2
30272.0	10000	41.8955	93.6608	-892	QW	1.5	-1	5.2	0	1.0	0	0.296	-1	1.531	-1	5.171	0	1712	45	3.2
30272.1	10000	41.8955	93.6599	-892	QW	1.5	-1	5.0	-1	1.0	0	0.302	-1	1.442	-1	4.777	-1	1708	56	3.2
30272.2	10000	41.8955	93.6590	-891	QW	1.5	-1	4.9	-1	1.0	0	0.315	-1	1.484	-1	4.715	-1	1710	53	3.2
30272.3	10000	41.8956	93.6581	-891	QW	1.5	-1	4.5	-1	1.1	0	0.331	0	1.358	-1	4.099	-2	1721	53	3.2
30272.4	10000	41.8956	93.6572	-891	QW	1.8	0	4.4	-1	1.0	0	0.403	0	1.724	0	4.283	-1	1717	45	3.2
30272.5	10000	41.8956	93.6563	-891	QW	1.9	0	4.8	-1	1.0	0	0.394	0	1.861	0	4.727	-1	1710	45	3.2
30272.6	10000	41.8956	93.6554	-891	QW	1.8	0	5.4	0	1.0	0	0.333	0	1.754	0	5.261	0	1724	39	3.2
30272.7	10000	41.8956	93.6544	-891	QW	1.8	0	5.3	0	1.0	0	0.350	0	1.802	0	5.156	0	1737	55	3.2
30272.8	10000	41.8956	93.6535	-891	QW	1.9	0	5.5	0	1.0	0	0.341	0	1.846	0	5.416	0	1751	42	3.2
30272.9	10000	41.8956	93.6526	-890	QW	2.0	0	6.1	1	1.0	0	0.335	0	1.979	0	5.906	1	1757	40	3.2
30273.0	10000	41.8957	93.6517	-890	QW	2.3	1	6.2	1	0.9	-1	0.364	0	2.394	1	6.579	2	1752	50	3.2
30273.1	10000	41.8957	93.6508	-890	QW	2.1	0	6.0	1	1.0	-1	0.341	0	2.167	1	6.353	2	1736	49	3.2
30273.2	10000	41.8957	93.6499	-889	QW	1.9	0	5.5	0	0.9	-1	0.347	0	2.061	0	5.942	1	1718	41	3.2
30273.3	10000	41.8957	93.6489	-888	QW	2.1	0	5.1	0	0.9	-2	0.402	0	2.312	1	5.753	1	1692	39	3.2
30273.4	10000	41.8957	93.6480	-888	QW	1.9	0	5.3	0	0.9	-2	0.351	0	2.168	1	6.184	2	1663	49	3.2
30273.5	10000	41.8957	93.6471	-887	QW	1.9	0	5.3	0	0.9	-2	0.356	0	2.221	1	6.239	2	1652	53	3.2
30273.6	10000	41.8957	93.6462	-887	QW	1.8	0	5.2	0	0.9	-2	0.351	0	2.109	1	6.013	2	1649	52	3.2
30273.7	10000	41.8957	93.6453	-888	QW	1.4	-1	5.5	0	0.9	-1	0.257	-1	1.498	-1	5.823	1	1655	56	3.2
30273.8	10000	41.8957	93.6443	-887	QW	1.6	-1	5.5	0	0.9	-1	0.289	-1	1.719	-1	5.946	1	1679	50	3.2
30273.9	10000	41.8958	93.6434	-887	QW	1.7	-1	5.6	0	0.9	-1	0.303	-1	1.791	-1	5.902	1	1707	44	3.2
30274.0	10000	41.8958	93.6425	-887	QW	1.6	-1	5.9	0	1.0	0	0.276	-1	1.618	-1	5.853	1	1731	49	3.2
30274.1	10000	41.8958	93.6416	-887	QW	1.6	-1	5.9	0	1.1	0	0.271	-1	1.476	-1	5.449	0	1758	40	3.2
30274.2	10000	41.8958	93.6407	-887	QW	1.7	-1	6.1	0	1.1	0	0.280	-1	1.540	-1	5.506	1	1772	56	3.2
30274.3	10000	41.8958	93.6397	-887	QW	1.6	-1	5.7	0	1.1	0	0.277	-1	1.444	-1	5.211	0	1773	50	3.2
30274.4	10000	41.8958	93.6388	-887	QW	1.9	0	5.6	0	1.1	0	0.333	0	1.719	0	5.157	0	1780	44	3.2
30274.5	10000	41.8958	93.6379	-886	QW	1.8	0	5.6	0	1.1	0	0.322	-1	1.621	-1	5.039	0	1778	39	3.2
30274.6	10000	41.8958	93.6370	-886	QW	1.6	-1	5.5	0	1.1	0	0.297	-1	1.446	-1	4.867	-1	1777	59	3.2
30274.7	10000	41.8958	93.6361	-885	QW	1.7	-1	5.2	0	1.1	0	0.324	-1	1.520	-1	4.697	-1	1785	44	3.2
30274.8	10000	41.8959	93.6351	-885	QW	1.8	0	5.2	0	1.1	0	0.347	0	1.684	0	4.848	-1	1768	40	3.2
30274.9	10000	41.8959	93.6342	-885	QW	2.0	0	4.8	0	1.1	0	0.424	1	1.873	1	4.421	-1	1777	60	3.2
30275.0	10000	41.8959	93.6333	-884	QW	2.0	0	4.7	0	1.0	0	0.436	1	1.973	1	4.525	-1	1763	42	3.2
30275.1	10000	41.8959	93.6324	-883	QW	2.1	0	4.7	0	1.0	0	0.471	1	2.059	1	4.374	-1	1743	52	3.2
30275.2	10000	41.8959	93.6315	-882	QW	2.1	0	4.7	0	1.0	0	0.438	1	2.001	1	4.569	-1	1744	33	3.2
30275.3	10000	41.8959	93.6306	-882	QW	2.0	0	4.5	0	1.0	0	0.450	1	2.000	1	4.449	-1	1731	53	3.2
30275.4	10000	41.8959	93.6296	-881	QW	1.8	0	4.6	0	1.0	0	0.402	0	1.853	1	4.609	-1	1720	43	3.2
30275.5	10000	41.8959	93.6287	-880	QW	1.8	0	4.4	0	1.0	0	0.402	0	1.840	1	4.572	-1	1730	48	3.2
30275.6	10000	41.8959	93.6278	-879	QW	1.5	-1	4.3	-1	0.9	-1	0.347	0	1.622	-1	4.671	-1	1715	50	3.2
30275.7	10000	41.8960	93.6269	-879	QW	1.6	-1	4.5	-1	0.9	-1	0.363	0	1.727	-1	4.750	-1	1732	43	3.2
30275.8	10000	41.8960	93.6260	-878	QW	1.7	-1	4.7	-1	0.9	-1	0.364	0	1.838	-1	5.056	0	1762	47	3.2
30275.9	10000	41.8960	93.6250	-878	QW	1.7	-1	4.9	-1	0.9	-1	0.359	0	1.882	-1	5.247	0	1770	46	3.2
30276.0	10000	41.8960	93.6241	-877	QW	1.9	0	5.2	0	0.9	-1	0.371	0	2.081	0	5.610	1	1788	39	3.2
30276.1	10000	41.8960	93.6232	-877	QW	2.3	1	5.1	0	0.9	-1	0.457	1	2.514	1	5.501	1	1797	44	3.3
30276.2	10000	41.8960	93.6223	-876	QW	2.5	1	5.1	0	0.9	-1	0.490	1	2.744	2	5.604	1	1795	40	3.3

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30276.3	10000	41.8960	93.6214	-875	QW	2.7	2	5.2	0	0.9	-1	0.531	2	2.965	2	5.588	1	1811	56	3.3
30276.4	10000	41.8960	93.6205	-875	QW	2.7	2	5.2	0	0.9	-1	0.515	2	2.816	2	5.470	0	1818	33	3.3
30276.5	10000	41.8960	93.6195	-874	QW	2.5	1	5.2	0	0.9	-1	0.485	1	2.637	2	5.439	0	1815	49	3.3
30276.6	10000	41.8961	93.6186	-874	QW	2.4	1	4.8	-1	0.9	-1	0.508	1	2.701	2	5.316	0	1815	50	3.3
30276.7	10000	41.8961	93.6177	-873	QW	2.2	1	4.8	-1	0.9	-2	0.461	1	2.471	1	5.357	0	1810	61	3.3
30276.8	10000	41.8961	93.6168	-872	QW	2.0	0	5.2	0	0.9	-1	0.384	0	2.135	0	5.556	1	1827	58	3.3
30276.9	10000	41.8961	93.6159	-871	QW	2.0	0	5.1	-1	0.9	-1	0.387	0	2.133	0	5.514	1	1851	47	3.3
30277.0	10000	41.8961	93.6149	-870	QW	1.7	-1	5.3	0	0.9	-1	0.328	0	1.864	0	5.689	1	1854	40	3.3
30277.1	10000	41.8961	93.6140	-869	QW	1.8	0	5.2	0	1.0	-1	0.344	0	1.834	0	5.326	0	1866	33	3.3
30277.2	10000	41.8961	93.6131	-868	QW	1.6	-1	5.4	0	1.0	-1	0.289	-1	1.631	-1	5.651	1	1871	42	3.3
30277.3	10000	41.8961	93.6122	-867	QW	1.7	-1	5.6	0	1.0	-1	0.301	-1	1.702	0	5.650	1	1887	37	3.3
30277.4	10000	41.8961	93.6113	-866	CULTRL	1.9	999	5.7	999	1.0	999	0.328	999	1.818	999	5.551	999	1904	59	3.3
30277.5	10000	41.8961	93.6104	-865	CULTRL	2.1	999	5.5	999	1.0	999	0.380	999	2.066	999	5.436	999	1893	58	3.3
30277.6	10000	41.8962	93.6094	-865	CULTRL	1.8	999	5.7	999	1.1	999	0.323	999	1.675	999	5.188	999	1876	41	3.3
30277.7	10000	41.8962	93.6085	-864	CULTRL	1.6	999	5.4	999	1.1	999	0.291	999	1.445	999	4.964	999	1858	43	3.3
30277.8	10000	41.8962	93.6076	-863	CULTRL	1.6	999	5.6	999	1.0	999	0.287	999	1.625	999	5.671	999	1840	45	3.3
30277.9	10000	41.8962	93.6067	-863	CULTRL	2.1	999	5.5	999	1.0	999	0.378	999	2.189	999	5.797	999	1809	44	3.3
30278.0	10000	41.8962	93.6058	-861	CULTRL	2.1	999	5.4	999	0.9	999	0.395	999	2.412	999	6.113	999	1768	44	3.3
30278.1	10000	41.8962	93.6048	-859	CULTRL	2.2	999	5.2	999	0.8	999	0.435	999	2.702	999	6.216	999	1743	47	3.3
30278.2	10000	41.8962	93.6039	-857	CULTRL	1.9	999	5.3	999	0.8	999	0.360	999	2.437	999	6.761	999	1724	61	3.3
30278.3	10000	41.8962	93.6030	-854	CULTRL	2.0	999	4.8	999	0.7	999	0.425	999	2.775	999	6.525	999	1704	48	3.3
30278.4	10000	41.8962	93.6021	-851	CULTRL	2.3	999	4.7	999	0.7	999	0.499	999	3.309	999	6.636	999	1694	62	3.3
30278.5	10000	41.8963	93.6012	-846	CULTRL	2.6	999	4.6	999	0.7	999	0.564	999	3.593	999	6.376	999	1681	49	3.3
30278.6	10000	41.8963	93.6003	-843	CULTRL	2.2	999	4.2	999	0.8	999	0.529	999	2.976	999	5.628	999	1682	47	3.3
30278.7	10000	41.8963	93.5993	-846	CULTRL	2.1	999	3.9	999	0.8	999	0.544	999	2.691	999	4.947	999	1670	53	3.3
30278.8	10000	41.8963	93.5984	-848	CULTRL	2.1	999	4.0	999	0.8	999	0.522	999	2.655	999	5.085	999	1653	47	3.3
30278.9	10000	41.8963	93.5975	-847	CULTRL	2.4	999	3.8	999	0.8	999	0.640	999	3.073	999	4.801	999	1645	42	3.3
30279.0	10000	41.8963	93.5966	-846	CULTRL	2.6	999	4.1	999	0.7	999	0.628	999	3.466	999	5.517	999	1644	48	3.3
30279.1	10000	41.8963	93.5957	-845	QW	2.3	1	4.5	-1	0.8	-3	0.513	2	2.902	2	5.660	1	1641	44	3.3
30279.2	10000	41.8963	93.5947	-844	QW	2.2	1	4.2	-2	0.8	-2	0.523	2	2.674	2	5.116	0	1630	44	3.3
30279.3	10000	41.8963	93.5938	-843	QW	2.1	0	4.2	-2	0.8	-2	0.508	1	2.557	1	5.031	0	1639	48	3.3
30279.4	10000	41.8964	93.5929	-841	QW	2.2	0	4.8	-1	0.9	-2	0.448	1	2.515	1	5.617	0	1675	41	3.3
30279.5	10000	41.8964	93.5920	-838	QW	2.1	0	4.9	-1	0.9	-1	0.427	1	2.297	1	5.376	0	1701	43	3.3
30279.6	10000	41.8964	93.5911	-837	QW	1.8	-1	5.3	0	1.0	-1	0.335	0	1.855	0	5.530	0	1735	54	3.3
30279.7	10000	41.8964	93.5901	-838	QW	1.7	-1	5.3	0	1.0	-1	0.316	-1	1.733	0	5.491	0	1754	58	3.3
30279.8	10000	41.8964	93.5892	-838	QW	1.8	-1	5.1	0	1.0	-1	0.343	0	1.823	0	5.310	0	1775	51	3.3
30279.9	10000	41.8964	93.5883	-837	QW	1.8	-1	5.5	0	1.0	-1	0.320	-1	1.779	0	5.557	1	1806	42	3.3
30280.0	10000	41.8964	93.5874	-835	QW	1.9	0	5.7	0	1.0	0	0.338	0	1.880	0	5.554	1	1823	51	3.3
30280.1	10000	41.8964	93.5865	-833	QW	1.9	0	5.7	0	1.1	0	0.336	0	1.784	0	5.309	1	1822	49	3.3
30280.2	10000	41.8964	93.5856	-831	QW	1.8	0	5.7	0	1.1	0	0.317	-1	1.677	0	5.295	1	1813	32	3.3
30280.3	10000	41.8965	93.5846	-830	QW	1.8	0	5.6	0	1.1	0	0.319	-1	1.657	-1	5.194	0	1785	40	3.3
30280.4	10000	41.8965	93.5837	-828	QW	1.5	-1	5.7	0	1.1	0	0.263	-1	1.343	-1	5.111	0	1778	35	3.3
30280.5	10000	41.8965	93.5828	-827	QW	1.6	-1	6.0	1	1.2	1	0.272	-1	1.418	-1	5.208	0	1789	39	3.3
30280.6	10000	41.8965	93.5819	-825	QW	1.7	-1	5.8	1	1.1	1	0.292	-1	1.523	-1	5.214	0	1793	49	3.3
30280.7	10000	41.8965	93.5810	-824	QW	1.7	-1	5.9	1	1.1	1	0.282	-1	1.446	-1	5.121	0	1796	52	3.3
30280.8	10000	41.8965	93.5800	-822	QW	1.5	-1	5.8	1	1.1	1	0.259	-1	1.334	-1	5.149	0	1804	43	3.3
30280.9	10000	41.8965	93.5791	-821	QW	1.8	0	5.7	1	1.1	1	0.317	-1	1.574	-1	4.971	0	1819	37	3.3
30281.0	10000	41.8965	93.5782	-820	QW	2.2	0	5.8	1	1.2	1	0.374	0	1.870	0	4.997	0	1849	41	3.3
30281.1	10000	41.8965	93.5773	-818	QW	2.3	1	5.6	1	1.1	1	0.412	0	2.047	0	4.964	0	1852	55	3.3
30281.2	10000	41.8965	93.5764	-817	QW	2.3	1	5.5	1	1.1	1	0.438	1	2.019	0	4.611	-1	1841	54	3.3
30281.3	10000	41.8966	93.5755	-815	QW	2.1	0	5.5	1	1.2	1	0.383	0	1.797	0	4.688	-1	1845	53	3.3
30281.4	10000	41.8966	93.5745	-814	QW	2.0	0	5.5	1	1.2	1	0.365	0	1.753	0	4.798	-1	1840	28	3.2

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30281.5	10000	41.8966	93.5736	-812	QW	2.1	0	5.1	-1	1.1	1	0.423	1	1.918	0	4.528	-1	1845	33	3.2
30281.6	10000	41.8966	93.5727	-811	QW	1.8	0	5.4	0	1.1	1	0.342	0	1.655	-1	4.844	-1	1846	41	3.2
30281.7	10000	41.8966	93.5718	-810	QW	1.7	-1	5.5	0	1.1	0	0.311	-1	1.560	-1	5.020	0	1836	49	3.2
30281.8	10000	41.8966	93.5709	-808	QW	1.8	0	5.5	0	1.1	1	0.330	0	1.617	-1	4.893	0	1855	43	3.2
30281.9	10000	41.8966	93.5699	-806	QW	1.7	-1	5.7	0	1.1	0	0.298	-1	1.587	-1	5.335	0	1858	51	3.2
30282.0	10000	41.8966	93.5690	-805	QW	1.8	-1	5.1	0	1.1	0	0.343	0	1.632	-1	4.764	-1	1838	47	3.2
30282.1	10000	41.8966	93.5681	-804	QW	2.0	0	5.2	0	1.0	0	0.383	0	1.903	0	4.975	0	1823	49	3.3
30282.2	10000	41.8967	93.5672	-802	QW	1.8	0	5.5	0	1.1	0	0.322	-1	1.672	0	5.194	0	1804	36	3.3
30282.3	10000	41.8967	93.5663	-800	QW	1.7	-1	5.6	0	1.1	0	0.298	-1	1.544	-1	5.174	0	1796	60	3.3
30282.4	10000	41.8967	93.5653	-797	QW	1.5	-1	5.3	0	1.1	0	0.293	-1	1.441	-1	4.917	0	1788	45	3.3
30282.5	10000	41.8967	93.5644	-795	QW	1.6	-1	5.5	0	1.1	0	0.301	-1	1.549	-1	5.148	0	1774	44	3.3
30282.6	10000	41.8967	93.5635	-793	QW	1.7	-1	5.5	0	1.0	0	0.320	-1	1.692	0	5.284	0	1764	45	3.3
30282.7	10000	41.8967	93.5626	-792	QW	1.8	0	5.7	0	1.0	-1	0.313	-1	1.811	0	5.794	1	1764	61	3.3
30282.8	10000	41.8967	93.5617	-791	QW	1.7	-1	5.4	0	1.0	-1	0.306	-1	1.673	0	5.475	0	1755	52	3.3
30282.9	10000	41.8967	93.5607	-789	QW	1.8	0	5.3	0	0.9	-1	0.340	0	1.897	0	5.586	1	1742	35	3.3
30283.0	10000	41.8967	93.5598	-787	QW	1.9	0	5.2	0	0.9	-1	0.375	0	2.133	0	5.691	1	1733	57	3.3
30283.1	10000	41.8968	93.5589	-786	QW	2.2	0	5.3	0	0.9	-2	0.412	0	2.472	1	6.004	1	1728	56	3.3
30283.2	10000	41.8968	93.5580	-784	QW	1.8	0	5.0	-1	0.9	-1	0.366	0	2.030	0	5.552	1	1719	43	3.3
30283.3	10000	41.8968	93.5571	-783	QW	1.8	-1	4.9	-1	0.9	-1	0.356	0	1.935	0	5.433	0	1714	50	3.3
30283.4	10000	41.8968	93.5562	-781	QW	1.7	-1	5.1	-1	0.9	-1	0.333	0	1.811	0	5.439	0	1711	45	3.3
30283.5	10000	41.8968	93.5552	-780	QW	2.0	0	5.1	-1	1.0	-1	0.396	0	2.085	0	5.263	0	1723	36	3.3
30283.6	10000	41.8968	93.5543	-778	QW	2.0	0	5.1	0	1.0	-1	0.394	0	2.022	0	5.128	0	1745	54	3.3
30283.7	10000	41.8968	93.5534	-777	QW	2.1	0	5.2	0	1.0	0	0.403	0	2.048	0	5.079	0	1750	51	3.3
30283.8	10000	41.8968	93.5525	-776	QW	2.1	0	5.3	0	1.0	0	0.399	0	2.045	0	5.123	0	1740	51	3.3
30283.9	10000	41.8968	93.5516	-775	QW	2.1	0	5.4	0	1.0	0	0.387	0	2.038	0	5.264	0	1734	52	3.3
30284.0	10000	41.8968	93.5506	-775	QW	2.1	0	5.6	0	1.1	0	0.381	0	2.003	0	5.258	0	1727	48	3.3
30284.1	10000	41.8969	93.5497	-773	QW	1.9	0	5.6	0	1.1	0	0.348	0	1.815	0	5.222	0	1729	48	3.3
30284.2	10000	41.8969	93.5488	-772	QW	1.7	-1	5.9	1	1.0	0	0.295	-1	1.726	0	5.850	1	1718	49	3.3
30284.3	10000	41.8969	93.5479	-771	QW	1.9	0	5.8	0	1.0	-1	0.323	-1	1.928	0	5.969	1	1705	38	3.3
30284.4	10000	41.8969	93.5470	-770	QW	1.9	0	5.7	0	1.0	-1	0.341	0	1.942	0	5.686	1	1705	43	3.3
30284.5	10000	41.8969	93.5461	-769	QW	1.6	-1	5.7	0	1.0	-1	0.275	-1	1.589	-1	5.776	1	1722	50	3.3
30284.6	10000	41.8969	93.5451	-768	QW	1.8	-1	5.8	0	1.0	-1	0.305	-1	1.774	0	5.817	1	1729	47	3.3
30284.7	10000	41.8969	93.5442	-767	QW	1.7	-1	5.6	0	1.0	-1	0.300	-1	1.711	0	5.700	1	1738	49	3.3
30284.8	10000	41.8969	93.5433	-766	QW	2.1	0	5.6	0	1.0	-1	0.371	0	2.139	0	5.771	1	1746	68	3.3
30284.9	10000	41.8969	93.5424	-765	QW	2.0	0	5.5	0	1.0	0	0.368	0	1.939	0	5.272	0	1767	38	3.3
30285.0	10000	41.8969	93.5415	-764	QW	2.0	0	5.2	0	1.1	0	0.380	0	1.885	0	4.964	0	1776	51	3.3
30285.1	10000	41.8969	93.5405	-763	QW	1.9	0	5.5	0	1.0	0	0.346	0	1.849	0	5.343	0	1774	41	3.3
30285.2	10000	41.8970	93.5396	-762	QW	2.0	0	5.0	-1	1.1	0	0.406	0	1.892	0	4.662	-1	1768	54	3.3
30285.3	10000	41.8970	93.5387	-761	QW	2.0	0	4.7	-1	1.1	0	0.426	1	1.904	0	4.474	-1	1765	44	3.3
30285.4	10000	41.8970	93.5378	-759	QW	1.9	0	4.9	-1	1.1	0	0.379	0	1.692	0	4.464	-1	1774	54	3.3
30285.5	10000	41.8970	93.5369	-758	QW	1.9	0	4.9	-1	1.1	0	0.389	0	1.720	0	4.423	-1	1776	38	3.3
30285.6	10000	41.8970	93.5359	-758	QW	2.1	0	4.8	-1	1.1	0	0.438	1	1.937	0	4.421	-1	1767	81	3.3
30285.7	10000	41.8970	93.5350	-757	QW	2.3	1	5.1	-1	1.1	0	0.445	1	2.082	0	4.681	-1	1757	52	3.4
30285.8	10000	41.8970	93.5341	-756	CULTRL	2.3	999	4.6	999	1.1	999	0.496	999	2.068	999	4.171	999	1770	40	3.4
30285.9	10000	41.8970	93.5332	-755	CULTRL	2.2	999	4.6	999	1.1	999	0.484	999	2.102	999	4.348	999	1767	35	3.4
30286.0	10000	41.8970	93.5323	-754	CULTRL	2.5	999	4.9	999	1.0	999	0.518	999	2.516	999	4.853	999	1763	60	3.4
30286.1	10000	41.8971	93.5314	-753	CULTRL	3.0	999	4.6	999	1.0	999	0.653	999	3.125	999	4.788	999	1755	52	3.4
30286.2	10000	41.8971	93.5304	-752	CULTRL	2.9	999	4.3	999	1.0	999	0.669	999	3.053	999	4.562	999	1737	63	3.4
30286.3	10000	41.8971	93.5295	-751	CULTRL	2.6	999	4.3	999	1.0	999	0.620	999	2.711	999	4.370	999	1717	48	3.4
30286.4	10000	41.8971	93.5286	-751	QO	2.4	1	3.9	-1	0.9	-1	0.620	2	2.568	1	4.140	-1	1709	44	3.4
30286.5	10000	41.8971	93.5277	-749	QO	2.7	1	4.0	-1	0.9	-1	0.670	2	3.041	1	4.536	-1	1685	51	3.4
30286.6	10000	41.8971	93.5268	-748	QO	2.9	2	4.3	-1	0.9	-1	0.682	2	3.213	2	4.712	-1	1673	41	3.4

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30286.7	10000	41.8971	93.5258	-748	QQ	2.7	1	3.6	-2	0.9	-1	0.746	3	2.949	1	3.954	-1	1664	52	3.4
30286.8	10000	41.8971	93.5249	-750	QQ	2.6	1	3.9	-1	0.9	-1	0.672	2	2.890	1	4.303	-1	1662	42	3.4
30286.9	10000	41.8971	93.5240	-749	QQ	2.6	1	3.9	-1	0.9	-1	0.663	2	2.871	1	4.332	-1	1657	38	3.4
30287.0	10000	41.8971	93.5231	-741	QQ	2.7	1	3.8	-1	0.8	-1	0.725	3	3.304	2	4.560	-1	1669	39	3.4
30287.1	10000	41.8972	93.5222	-739	QQ	3.0	2	3.8	-1	0.8	-1	0.780	3	3.713	2	4.762	-1	1673	40	3.4
30287.2	10000	41.8972	93.5213	-739	QQ	2.9	2	3.8	-1	0.8	-1	0.773	3	3.558	2	4.601	-1	1669	44	3.4
30287.3	10000	41.8972	93.5203	-730	QQ	3.0	2	3.7	-2	0.8	-2	0.819	3	3.886	3	4.745	-1	1661	45	3.4
30287.4	10000	41.8972	93.5194	-728	QQ	2.9	2	3.9	-1	0.7	-2	0.762	3	3.916	3	5.140	0	1638	36	3.4
30287.5	10000	41.8972	93.5185	-738	QQ	2.7	1	4.0	-1	0.7	-2	0.682	2	3.953	3	5.792	1	1619	49	3.4
30287.6	10000	41.8972	93.5176	-743	QQ	2.6	1	3.9	-1	0.7	-2	0.671	2	3.890	3	5.795	1	1600	46	3.4
30287.7	10000	41.8972	93.5167	-743	QQ	2.5	1	4.0	-1	0.7	-2	0.633	2	3.706	2	5.853	1	1584	47	3.4
30287.8	10000	41.8972	93.5157	-741	QQ	2.4	1	3.7	-3	0.7	-4	0.659	3	3.564	3	5.405	0	1557	54	3.4
30287.9	10000	41.8972	93.5148	-737	QQ	2.3	1	3.7	-3	0.6	-4	0.625	3	3.560	3	5.697	1	1557	50	3.4
30288.0	10000	41.8973	93.5139	-726	QQ	2.1	1	4.0	-2	0.7	-4	0.520	2	3.024	2	5.820	1	1584	47	3.4
30288.1	10000	41.8973	93.5130	-720	QQ	2.1	0	4.3	-2	0.7	-4	0.479	1	3.001	2	6.262	2	1626	51	3.4
30288.2	10000	41.8973	93.5121	-736	QQ	2.1	0	4.1	-2	0.8	-3	0.527	2	2.847	2	5.401	0	1658	44	3.4
30288.3	10000	41.8973	93.5112	-745	QQ	2.0	0	4.6	-1	0.8	-3	0.432	1	2.522	1	5.834	1	1701	46	3.4
30288.4	10000	41.8973	93.5103	-743	QQ	2.1	0	5.0	-1	0.8	-2	0.418	1	2.513	1	6.015	1	1749	48	3.4
30288.5	10000	41.8973	93.5094	-740	QQ	1.8	0	5.6	0	0.9	-1	0.324	0	1.968	0	6.074	1	1783	51	3.4
30288.6	10000	41.8973	93.5085	-739	QQ	1.7	-1	5.4	0	1.0	0	0.314	-1	1.697	0	5.410	0	1789	49	3.4
30288.7	10000	41.8973	93.5076	-739	QQ	1.6	-1	5.0	-1	1.0	0	0.308	-1	1.531	-1	4.963	0	1763	50	3.4
30288.8	10000	41.8972	93.5067	-738	QQ	1.6	-1	4.9	-1	1.1	0	0.324	0	1.504	-1	4.634	-1	1729	40	3.4
30288.9	10000	41.8972	93.5058	-738	QQ	1.5	-1	5.0	-1	1.1	0	0.295	-1	1.351	-1	4.587	-1	1713	55	3.4
30289.0	10000	41.8973	93.5050	-738	QQ	1.3	-2	4.8	-1	1.1	0	0.281	-1	1.274	-1	4.529	-1	1692	46	3.4
30289.1	10000	41.8972	93.5041	-737	QQ	1.3	-2	4.6	-1	1.1	0	0.292	-1	1.255	-1	4.294	-1	1667	52	3.4
30289.2	10000	41.8973	93.5032	-737	QQ	1.5	-1	4.5	-1	1.0	0	0.345	0	1.503	-1	4.355	-1	1667	41	3.4
30289.3	10000	41.8972	93.5023	-737	QQ	1.6	-1	5.0	-1	1.0	-1	0.327	0	1.722	0	5.269	0	1676	41	3.4
30289.4	10000	41.8972	93.5014	-737	QQ	1.7	-1	5.0	-1	1.0	-1	0.336	0	1.705	0	5.078	0	1708	44	3.4
30289.5	10000	41.8972	93.5005	-736	QQ	1.7	-1	5.0	-1	1.0	-1	0.333	0	1.642	-1	4.926	0	1748	45	3.4
30289.6	10000	41.8972	93.4996	-736	QQ	1.9	0	5.1	-1	1.0	-1	0.371	0	1.910	0	5.151	0	1764	55	3.4
30289.7	10000	41.8972	93.4987	-735	QQ	2.0	0	5.3	-1	1.1	-1	0.369	0	1.864	0	5.050	0	1774	37	3.4
30289.8	10000	41.8972	93.4978	-734	QQ	1.9	0	5.3	-1	1.1	-1	0.357	0	1.792	0	5.025	0	1759	44	3.4
30289.9	10000	41.8972	93.4969	-733	QQ	1.6	-1	5.6	-1	1.1	-1	0.283	-1	1.488	-1	5.263	0	1742	48	3.4
30290.0	10000	41.8972	93.4960	-733	QQ	1.6	-1	4.9	-1	1.1	-1	0.320	-1	1.472	-1	4.594	-1	1736	49	3.4
30290.1	10000	41.8972	93.4951	-733	QQ	1.7	-1	5.1	-1	1.1	-1	0.323	-1	1.572	-1	4.866	-1	1714	42	3.4
30290.2	10000	41.8972	93.4942	-733	QQ	1.6	-1	5.3	-1	1.0	-1	0.297	-1	1.503	-1	5.063	0	1697	54	3.4
30290.3	10000	41.8972	93.4934	-733	QQ	1.4	-1	5.1	-1	1.0	-1	0.283	-1	1.419	-1	5.018	0	1700	46	3.3
30290.4	10000	41.8972	93.4925	-734	QQ	1.8	0	4.8	-1	1.0	0	0.377	0	1.745	0	4.634	-1	1707	63	3.3
30290.5	10000	41.8972	93.4916	-734	QQ	1.7	-1	4.8	-1	1.0	-1	0.357	0	1.660	-1	4.654	-1	1732	40	3.3
30290.6	10000	41.8972	93.4907	-733	QQ	1.6	-1	4.8	-1	1.0	-1	0.341	0	1.579	-1	4.628	-1	1740	42	3.3
30290.7	10000	41.8972	93.4898	-734	QQ	1.6	-1	5.1	-1	1.1	-1	0.315	-1	1.490	-1	4.727	-1	1750	60	3.3
30290.8	10000	41.8972	93.4889	-735	QQ	1.7	-1	5.2	-1	1.1	-1	0.327	0	1.534	-1	4.688	-1	1772	53	3.3
30290.9	10000	41.8972	93.4880	-735	QQ	1.8	0	5.7	0	1.1	-1	0.318	-1	1.646	-1	5.168	0	1767	43	3.3
30291.0	10000	41.8972	93.4871	-734	QQ	1.7	-1	5.8	-1	1.1	-1	0.303	-1	1.594	-1	5.253	0	1750	40	3.3
30291.1	10000	41.8972	93.4862	-733	QQ	1.6	-1	5.9	-1	1.1	-1	0.269	-1	1.468	-1	5.463	0	1741	49	3.3
30291.2	10000	41.8972	93.4853	-733	QQ	1.6	-1	5.9	-1	1.1	-1	0.267	-1	1.462	-1	5.481	0	1730	41	3.3
30291.3	10000	41.8972	93.4844	-733	QQ	1.9	0	5.7	0	1.0	0	0.332	0	1.807	0	5.440	0	1721	49	3.3
30291.4	10000	41.8972	93.4835	-733	QQ	1.8	0	5.5	-1	1.0	0	0.336	0	1.837	0	5.461	0	1706	43	3.3
30291.5	10000	41.8972	93.4827	-732	QQ	1.7	-1	5.2	-1	1.0	-1	0.331	0	1.746	0	5.277	0	1686	42	3.3
30291.6	10000	41.8972	93.4818	-731	QQ	1.5	-1	4.9	-1	1.0	0	0.310	-1	1.492	-1	4.816	-1	1681	51	3.3
30291.7	10000	41.8972	93.4809	-729	QQ	1.7	-1	4.8	-1	1.0	0	0.355	0	1.633	-1	4.603	-1	1698	44	3.3
30291.8	10000	41.8972	93.4800	-732	QQ	1.5	-1	4.8	-1	1.0	0	0.318	-1	1.490	-1	4.692	-1	1697	48	3.3

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30291.9	10000	41.8972	93.4791	-736	QW	1.8	0	4.8	-1	1.0	0	0.372	0	1.729	0	4.651	-1	1708	52	3.3
30292.0	10000	41.8972	93.4782	-739	QW	1.9	0	4.9	-1	1.1	0	0.386	0	1.751	0	4.540	-1	1730	43	3.3
30292.1	10000	41.8972	93.4773	-737	QW	1.8	-1	5.1	0	1.1	0	0.343	0	1.643	-1	4.787	-1	1734	51	3.3
30292.2	10000	41.8972	93.4764	-736	QW	2.1	0	5.5	0	1.1	0	0.376	0	1.887	0	5.020	0	1750	48	3.3
30292.3	10000	41.8972	93.4755	-735	QW	2.3	1	5.4	0	1.1	0	0.422	1	2.173	1	5.144	0	1768	51	3.3
30292.4	10000	41.8972	93.4746	-734	QW	2.2	1	5.7	0	1.0	0	0.394	0	2.184	1	5.548	1	1763	47	3.3
30292.5	10000	41.8972	93.4737	-733	QW	2.6	1	5.7	0	1.0	0	0.447	1	2.446	1	5.469	0	1778	48	3.3
30292.6	10000	41.8972	93.4728	-732	QW	2.4	1	6.1	1	1.0	0	0.391	0	2.299	1	5.884	1	1773	44	3.3
30292.7	10000	41.8972	93.4719	-732	QW	2.0	0	6.2	1	1.0	-1	0.327	0	2.069	0	6.327	2	1774	50	3.3
30292.8	10000	41.8972	93.4711	-733	QW	2.3	1	6.4	1	1.0	0	0.357	0	2.239	1	6.280	2	1788	41	3.3
30292.9	10000	41.8972	93.4702	-733	QW	2.2	0	6.5	2	1.0	-1	0.330	0	2.214	1	6.717	2	1781	59	3.3
30293.0	10000	41.8972	93.4693	-732	QW	2.2	1	6.5	2	1.0	-1	0.340	0	2.264	1	6.654	2	1784	43	3.2
30293.1	10000	41.8972	93.4684	-732	QW	2.2	0	6.5	2	1.0	-1	0.334	0	2.227	1	6.670	2	1773	29	3.2
30293.2	10000	41.8972	93.4675	-732	QW	2.0	0	6.6	2	1.0	-1	0.297	-1	2.013	0	6.785	3	1768	40	3.2
30293.3	10000	41.8972	93.4666	-732	QW	2.0	0	6.2	1	1.0	-1	0.318	-1	1.966	0	6.190	2	1761	46	3.2
30293.4	10000	41.8972	93.4657	-732	QW	2.2	1	6.0	1	1.0	0	0.367	0	2.177	1	5.928	1	1763	38	3.2
30293.5	10000	41.8972	93.4648	-732	QW	2.1	0	5.5	0	1.0	0	0.381	0	2.040	0	5.353	0	1764	54	3.2
30293.6	10000	41.8972	93.4639	-731	QW	2.0	0	5.0	-1	1.1	1	0.391	0	1.771	0	4.525	-1	1768	41	3.2
30293.7	10000	41.8972	93.4630	-731	QW	2.1	0	5.1	-1	1.1	1	0.417	0	1.857	0	4.452	-1	1763	49	3.2
30293.8	10000	41.8972	93.4621	-730	QW	2.0	0	4.7	-1	1.2	1	0.428	1	1.751	0	4.092	-2	1773	51	3.2
30293.9	10000	41.8972	93.4612	-729	QW	2.1	0	4.6	-1	1.1	1	0.447	1	1.822	0	4.074	-2	1773	45	3.2
30294.0	10000	41.8972	93.4603	-729	QW	2.2	0	4.8	-1	1.1	1	0.458	1	1.929	0	4.213	-2	1777	54	3.2
30294.1	10000	41.8972	93.4594	-728	QW	2.0	0	5.0	-1	1.2	1	0.397	0	1.691	0	4.261	-2	1785	35	3.2
30294.2	10000	41.8972	93.4586	-729	QW	1.8	0	5.3	0	1.1	1	0.347	0	1.630	-1	4.702	-1	1775	35	3.2
30294.3	10000	41.8971	93.4577	-729	QW	1.9	0	5.5	0	1.1	0	0.351	0	1.778	0	5.062	0	1773	47	3.2
30294.4	10000	41.8972	93.4568	-730	QW	1.7	-1	5.2	0	1.1	0	0.332	0	1.616	-1	4.869	-1	1782	40	3.2
30294.5	10000	41.8971	93.4559	-730	QW	1.8	0	5.2	0	1.1	0	0.352	0	1.701	0	4.833	-1	1782	59	3.2
30294.6	10000	41.8972	93.4550	-730	QW	2.0	0	5.2	0	1.1	1	0.377	0	1.767	0	4.689	-1	1777	53	3.2
30294.7	10000	41.8971	93.4541	-730	QW	2.0	0	5.1	0	1.1	0	0.383	0	1.861	0	4.855	-1	1776	41	3.2
30294.8	10000	41.8971	93.4532	-730	QW	2.1	0	4.6	-1	1.0	0	0.444	1	1.991	0	4.489	-1	1770	46	3.2
30294.9	10000	41.8971	93.4523	-730	QW	2.3	1	4.6	-1	1.0	0	0.496	1	2.204	1	4.440	-1	1772	54	3.2
30295.0	10000	41.8971	93.4514	-729	QW	2.3	1	4.6	-1	1.1	0	0.495	1	2.139	0	4.321	-1	1779	43	3.2
30295.1	10000	41.8971	93.4505	-729	QW	2.2	0	4.6	-1	1.0	0	0.475	1	2.101	0	4.428	-1	1770	42	3.2
30295.2	10000	41.8971	93.4496	-729	QW	2.0	0	4.4	-2	1.0	0	0.460	1	1.987	0	4.320	-1	1764	42	3.2
30295.3	10000	41.8971	93.4487	-729	QW	1.8	0	4.5	-1	1.0	0	0.407	0	1.746	0	4.295	-1	1769	35	3.2
30295.4	10000	41.8971	93.4478	-729	QW	1.6	-1	4.8	-1	1.1	0	0.332	0	1.478	-1	4.456	-1	1774	37	3.2
30295.5	10000	41.8971	93.4470	-732	QW	1.7	-1	5.1	-1	1.1	0	0.339	0	1.610	-1	4.753	-1	1775	34	3.2
30295.6	10000	41.8971	93.4461	-729	QW	1.4	-1	5.1	0	1.1	0	0.271	-1	1.292	-1	4.769	-1	1776	53	3.2
30295.7	10000	41.8971	93.4452	-728	QW	1.4	-1	5.4	0	1.1	1	0.257	-1	1.250	-1	4.857	-1	1771	41	3.2
30295.8	10000	41.8971	93.4443	-728	QW	1.4	-1	5.4	0	1.1	0	0.258	-1	1.266	-1	4.913	0	1764	48	3.2
30295.9	10000	41.8971	93.4434	-728	QW	1.5	-1	5.6	0	1.1	0	0.261	-1	1.334	-1	5.103	0	1766	48	3.2
30296.0	10000	41.8971	93.4425	-728	QW	1.5	-1	5.5	0	1.0	0	0.274	-1	1.439	-1	5.244	0	1753	56	3.2
30296.1	10000	41.8971	93.4416	-729	QW	1.9	0	5.3	0	1.1	0	0.354	0	1.780	0	5.027	0	1744	53	3.2
30296.2	10000	41.8971	93.4407	-729	QW	1.6	-1	5.2	0	1.1	0	0.311	-1	1.527	-1	4.918	0	1733	44	3.2
30296.3	10000	41.8971	93.4398	-729	QW	1.7	-1	5.0	-1	1.1	0	0.343	0	1.614	-1	4.704	-1	1738	28	3.2
30296.4	10000	41.8971	93.4389	-728	QW	1.8	0	4.9	-1	1.0	0	0.367	0	1.739	0	4.739	-1	1731	39	3.2
30296.5	10000	41.8971	93.4380	-727	QW	1.9	0	5.0	-1	1.0	0	0.381	0	1.846	0	4.839	-1	1742	46	3.2
30296.6	10000	41.8971	93.4371	-726	QW	1.9	0	5.0	-1	1.0	0	0.372	0	1.783	0	4.791	-1	1733	39	3.2
30296.7	10000	41.8971	93.4362	-726	QW	1.8	-1	5.1	0	1.1	0	0.348	0	1.666	-1	4.792	-1	1748	44	3.2
30296.8	10000	41.8971	93.4353	-726	QW	1.8	0	5.1	-1	1.1	0	0.358	0	1.728	0	4.827	-1	1746	37	3.2
30296.9	10000	41.8971	93.4345	-726	QW	1.8	0	4.7	-1	1.1	0	0.390	0	1.748	0	4.478	-1	1750	37	3.2
30297.0	10000	41.8971	93.4336	-725	QW	2.0	0	5.0	-1	1.0	-1	0.395	0	2.006	0	5.081	0	1746	48	3.2

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30297.1	10000	41.8971	93.4327	-725	QW	2.0	0	5.1	-1	1.0	-1	0.389	0	2.080	0	5.342	0	1743	28	3.2
30297.2	10000	41.8971	93.4318	-725	QW	2.1	0	5.0	-1	1.0	-1	0.413	0	2.119	0	5.132	0	1730	49	3.2
30297.3	10000	41.8971	93.4309	-725	QW	2.0	0	5.1	-1	1.0	-1	0.388	0	2.054	0	5.297	0	1727	51	3.2
30297.4	10000	41.8971	93.4300	-725	QW	2.0	0	4.7	-1	0.9	-1	0.432	1	2.153	1	4.986	0	1704	45	3.2
30297.5	10000	41.8971	93.4291	-725	QW	1.7	-1	4.9	-1	1.0	-1	0.359	0	1.782	0	4.963	0	1701	52	3.2
30297.6	10000	41.8971	93.4282	-725	QW	2.0	0	5.4	0	1.0	-1	0.377	0	2.135	0	5.660	1	1684	49	3.2
30297.7	10000	41.8971	93.4273	-724	QW	1.9	0	5.1	-1	1.0	-1	0.369	0	1.936	0	5.250	0	1663	39	3.2
30297.8	10000	41.8971	93.4264	-725	QW	1.6	-1	5.0	-1	1.0	0	0.322	-1	1.558	-1	4.845	-1	1651	43	3.2
30297.9	10000	41.8971	93.4255	-724	QW	1.6	-1	4.9	-1	1.0	0	0.325	-1	1.542	-1	4.743	-1	1646	49	3.2
30298.0	10000	41.8971	93.4247	-724	QW	1.6	-1	4.9	-1	1.1	0	0.326	-1	1.491	-1	4.576	-1	1646	50	3.2
30298.1	10000	41.8971	93.4238	-723	QW	1.7	-1	5.5	0	1.0	0	0.310	-1	1.618	-1	5.212	0	1665	59	3.2
30298.2	10000	41.8971	93.4229	-722	QW	1.7	-1	5.6	0	1.0	0	0.306	-1	1.682	0	5.496	0	1682	45	3.2
30298.3	10000	41.8971	93.4220	-721	QW	1.5	-1	5.4	0	1.1	0	0.282	-1	1.418	-1	5.030	0	1716	40	3.2
30298.4	10000	41.8971	93.4211	-721	QW	1.8	0	5.6	0	1.1	0	0.322	-1	1.623	-1	5.039	0	1744	42	3.2
30298.5	10000	41.8971	93.4202	-721	QW	2.1	0	5.7	0	1.1	0	0.377	0	2.001	0	5.308	0	1773	45	3.2
30298.6	10000	41.8971	93.4193	-720	QW	2.3	1	5.9	1	1.0	0	0.392	0	2.225	1	5.679	1	1797	50	3.2
30298.7	10000	41.8971	93.4184	-720	QW	2.4	1	5.9	1	1.0	0	0.405	0	2.365	1	5.835	1	1808	36	3.2
30298.8	10000	41.8971	93.4175	-719	QW	2.4	1	5.5	0	1.0	-1	0.438	1	2.448	1	5.589	1	1807	54	3.2
30298.9	10000	41.8971	93.4166	-719	QW	2.4	1	5.4	0	1.0	0	0.439	1	2.305	1	5.252	0	1805	41	3.2
30299.0	10000	41.8971	93.4157	-720	QW	2.4	1	5.6	0	1.0	-1	0.432	1	2.440	1	5.644	1	1791	42	3.2
30299.1	10000	41.8970	93.4148	-720	QW	2.1	0	5.3	0	1.0	-1	0.400	0	2.128	0	5.325	0	1792	48	3.2
30299.2	10000	41.8970	93.4139	-720	QW	2.1	0	5.5	0	1.1	0	0.384	0	1.968	0	5.121	0	1797	45	3.2
30299.3	10000	41.8970	93.4130	-718	QAL	1.8	-1	5.2	-1	1.2	1	0.336	0	1.525	-1	4.534	-2	1796	40	3.2
30299.4	10000	41.8970	93.4122	-717	QAL	1.8	-1	5.2	-1	1.2	1	0.347	0	1.532	-1	4.421	-2	1801	43	3.2
30299.5	10000	41.8970	93.4113	-717	QAL	1.8	-1	5.4	-1	1.2	1	0.332	-1	1.454	-2	4.376	-2	1814	48	3.2
30299.6	10000	41.8970	93.4104	-717	QAL	1.9	-1	5.3	-1	1.2	1	0.361	0	1.555	-1	4.310	-2	1837	44	3.2
30299.7	10000	41.8970	93.4095	-719	QAL	2.1	-1	5.2	-1	1.2	1	0.406	0	1.794	-1	4.418	-2	1849	47	3.2
30299.8	10000	41.8970	93.4086	-721	QW	2.3	1	5.1	0	1.1	1	0.445	1	2.016	0	4.527	-1	1853	35	3.2
30299.9	10000	41.8970	93.4077	-722	QW	2.3	1	4.9	-1	1.1	0	0.473	1	2.190	1	4.632	-1	1843	45	3.2
30300.0	10000	41.8970	93.4068	-721	QW	2.5	1	5.1	0	1.0	-1	0.488	1	2.504	1	5.134	0	1848	39	3.2
30300.1	10000	41.8970	93.4059	-720	QW	2.6	1	4.9	-1	1.0	0	0.529	2	2.567	1	4.849	-1	1854	43	3.2
30300.2	10000	41.8970	93.4050	-720	QW	2.5	1	4.6	-1	1.0	-1	0.545	2	2.570	1	4.718	-1	1825	43	3.2
30300.3	10000	41.8970	93.4041	-720	QW	2.5	1	4.4	-2	1.0	-1	0.579	2	2.663	2	4.603	-1	1779	45	3.2
30300.4	10000	41.8970	93.4032	-720	QW	2.4	1	4.2	-2	1.0	-1	0.570	2	2.434	1	4.270	-1	1754	54	3.2
30300.5	10000	41.8970	93.4023	-720	QW	2.2	0	4.4	-2	1.0	0	0.501	1	2.126	0	4.247	-2	1740	52	3.2
30300.6	10000	41.8970	93.4014	-719	QW	2.0	0	4.1	-2	1.0	0	0.480	1	1.904	0	3.969	-2	1731	55	3.1
30300.7	10000	41.8970	93.4006	-719	QW	1.9	0	3.8	-2	1.0	0	0.510	1	1.856	0	3.642	-3	1705	60	3.1
30300.8	10000	41.8970	93.3997	-719	QW	2.0	0	3.8	-2	1.0	0	0.514	2	1.914	0	3.720	-2	1693	55	3.1
30300.9	10000	41.8970	93.3988	-718	QW	1.9	0	4.1	-2	1.0	0	0.476	1	1.896	0	3.986	-2	1694	46	3.1
30301.0	10000	41.8970	93.3979	-716	QW	2.0	0	4.1	-2	1.0	-1	0.476	1	1.982	0	4.161	-2	1686	43	3.1
30301.1	10000	41.8970	93.3970	-715	QW	2.1	0	3.9	-2	1.0	-1	0.536	2	2.139	0	3.991	-2	1668	47	3.1
30301.2	10000	41.8970	93.3961	-716	QW	2.1	0	3.9	-2	1.0	-1	0.549	2	2.223	1	4.052	-2	1641	41	3.1
30301.3	10000	41.8970	93.3952	-715	QW	2.1	0	3.8	-2	0.9	-1	0.550	2	2.256	1	4.101	-2	1625	47	3.1
30301.4	10000	41.8970	93.3943	-713	QW	2.0	0	4.0	-2	0.9	-1	0.505	1	2.125	0	4.211	-2	1617	47	3.1
30301.5	10000	41.8970	93.3934	-713	QW	1.8	0	4.2	-2	1.0	-1	0.440	1	1.907	0	4.337	-1	1605	39	3.1
30301.6	10000	41.8970	93.3925	-716	QW	2.0	0	3.8	-2	1.0	-1	0.521	2	1.994	0	3.831	-2	1609	46	3.1
30301.7	10000	41.8970	93.3916	-717	QW	2.0	0	3.7	-2	1.0	0	0.540	2	1.992	0	3.687	-2	1635	51	3.1
30301.8	10000	41.8970	93.3907	-718	QW	1.8	0	3.9	-2	1.0	0	0.457	1	1.726	0	3.779	-2	1648	35	3.1
30301.9	10000	41.8970	93.3898	-718	QW	1.7	-1	4.0	-2	1.1	1	0.433	1	1.616	-1	3.733	-2	1667	46	3.1
30302.0	10000	41.8970	93.3889	-718	QW	1.8	0	4.3	-2	1.1	1	0.427	1	1.681	0	3.933	-2	1672	37	3.1
30302.1	10000	41.8970	93.3881	-719	QW	1.7	-1	3.9	-2	1.1	1	0.445	1	1.602	-1	3.598	-3	1666	46	3.1
30302.2	10000	41.8970	93.3872	-719	QW	1.9	0	3.8	-2	1.1	0	0.506	1	1.812	0	3.584	-3	1676	37	3.1

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30302.3	10000	41.8970	93.3863	-718	QW	1.8	-1	3.7	-3	1.1	0	0.480	1	1.626	-1	3.386	-3	1680	44	3.1
30302.4	10000	41.8970	93.3854	-718	QW	1.4	-2	3.9	-2	1.2	1	0.352	0	1.170	-2	3.322	-3	1672	47	3.1
30302.5	10000	41.8970	93.3845	-717	QW	1.3	-2	4.0	-2	1.1	1	0.329	0	1.136	-2	3.452	-3	1669	58	3.1
30302.6	10000	41.8970	93.3836	-716	QW	1.6	-1	3.9	-2	1.1	0	0.423	1	1.505	-1	3.555	-3	1654	53	3.1
30302.7	10000	41.8970	93.3827	-715	QW	1.6	-1	3.7	-3	1.1	0	0.424	1	1.485	-1	3.504	-3	1647	51	3.1
30302.8	10000	41.8970	93.3818	-714	QW	1.7	-1	3.9	-2	1.0	0	0.436	1	1.650	-1	3.783	-2	1657	42	3.1
30302.9	10000	41.8969	93.3809	-713	QW	1.5	-1	4.2	-2	1.0	-1	0.366	0	1.521	-1	4.154	-2	1650	48	3.1
30303.0	10000	41.8969	93.3800	-712	QW	1.7	-1	4.4	-2	1.0	-1	0.377	0	1.744	0	4.631	-1	1633	56	3.1
30303.1	10000	41.8969	93.3791	-712	QW	1.9	0	4.2	-2	0.9	-1	0.456	1	2.086	0	4.578	-1	1633	40	3.1
30303.2	10000	41.8969	93.3782	-713	QW	1.9	0	4.1	-2	0.9	-1	0.461	1	1.993	0	4.325	-1	1636	53	3.1
30303.3	10000	41.8969	93.3773	-714	QW	1.8	0	4.3	-2	1.0	-1	0.423	1	1.828	0	4.323	-1	1648	52	3.1
30303.4	10000	41.8969	93.3764	-715	QW	1.9	0	4.6	-1	1.1	0	0.406	0	1.771	0	4.365	-1	1661	53	3.1
30303.5	10000	41.8969	93.3755	-715	QW	2.1	0	4.7	-1	1.0	0	0.441	1	2.001	0	4.535	-1	1686	59	3.1
30303.6	10000	41.8969	93.3746	-716	QW	2.3	1	4.5	-1	1.1	0	0.509	1	2.104	0	4.135	-2	1703	53	3.1
30303.7	10000	41.8969	93.3737	-716	QW	2.3	1	4.6	-1	1.1	1	0.500	1	2.027	0	4.051	-2	1718	38	3.1
30303.8	10000	41.8969	93.3728	-715	QW	2.2	0	4.8	-1	1.1	0	0.451	1	2.004	0	4.443	-1	1713	49	3.1
30303.9	10000	41.8969	93.3719	-715	QW	2.4	1	4.9	-1	1.1	0	0.496	1	2.223	1	4.484	-1	1727	52	3.1
30304.0	10000	41.8969	93.3710	-715	QW	2.4	1	4.8	-1	1.1	0	0.500	1	2.241	1	4.481	-1	1735	47	3.1
30304.1	10000	41.8969	93.3701	-715	QW	2.7	2	4.7	-1	1.0	0	0.562	2	2.599	1	4.625	-1	1736	46	3.1
30304.2	10000	41.8968	93.3692	-715	QW	2.1	0	4.8	-1	1.0	0	0.432	1	2.009	0	4.651	-1	1716	44	3.1
30304.3	10000	41.8968	93.3683	-715	QW	2.1	0	5.1	-1	1.0	0	0.413	0	2.065	0	5.004	0	1719	50	3.1
30304.4	10000	41.8968	93.3674	-715	QW	2.1	0	5.3	0	1.0	0	0.402	0	2.123	0	5.277	0	1724	49	3.1
30304.5	10000	41.8968	93.3665	-715	QW	2.2	1	5.5	0	1.0	0	0.402	0	2.105	0	5.239	0	1752	48	3.1
30304.6	10000	41.8968	93.3656	-714	QW	2.0	0	5.9	1	1.0	0	0.338	0	1.961	0	5.802	1	1761	45	3.1
30304.7	10000	41.8968	93.3647	-713	QW	2.1	0	6.0	1	1.0	0	0.356	0	2.045	0	5.738	1	1781	54	3.1
30304.8	10000	41.8968	93.3638	-713	QW	1.8	0	6.0	1	1.1	0	0.304	-1	1.722	0	5.663	1	1796	59	3.1
30304.9	10000	41.8968	93.3629	-715	QW	2.1	0	6.4	1	1.1	1	0.328	0	1.857	0	5.667	1	1818	39	3.1
30305.0	10000	41.8968	93.3620	-715	QW	1.9	0	6.5	2	1.2	1	0.299	-1	1.687	0	5.638	1	1813	67	3.1
30305.1	10000	41.8968	93.3611	-715	QW	1.9	0	6.6	2	1.1	1	0.294	-1	1.690	0	5.742	1	1827	39	3.1
30305.2	10000	41.8968	93.3602	-715	QW	2.0	0	6.5	2	1.1	1	0.311	-1	1.802	0	5.803	1	1822	46	3.1
30305.3	10000	41.8968	93.3593	-715	QW	2.3	1	6.0	1	1.1	1	0.381	0	2.070	0	5.435	1	1808	40	3.1
30305.4	10000	41.8967	93.3584	-716	QW	2.1	0	5.9	1	1.1	0	0.356	0	1.955	0	5.488	1	1783	59	3.1
30305.5	10000	41.8967	93.3575	-716	QW	2.2	1	5.8	1	1.1	0	0.378	0	2.045	0	5.414	1	1786	52	3.1
30305.6	10000	41.8967	93.3566	-716	QW	2.4	1	5.4	1	1.0	0	0.440	1	2.343	0	5.329	1	1788	55	3.1
30305.7	10000	41.8967	93.3557	-716	QW	2.5	1	5.3	1	1.0	-1	0.473	1	2.556	0	5.404	1	1801	29	3.1
30305.8	10000	41.8967	93.3548	-716	QW	2.4	1	5.2	1	1.0	0	0.469	1	2.401	0	5.116	1	1798	33	3.1
30305.9	10000	41.8967	93.3539	-717	QW	2.4	1	5.4	1	1.0	-1	0.435	1	2.444	1	5.620	1	1786	37	3.1
30306.0	10000	41.8967	93.3530	-717	QW	2.3	1	5.6	1	0.9	-1	0.410	1	2.400	1	5.851	1	1790	39	3.1
30306.1	10000	41.8967	93.3521	-716	QW	2.4	1	5.7	1	0.9	-1	0.416	1	2.541	1	6.112	1	1792	50	3.1
30306.2	10000	41.8967	93.3512	-716	QW	2.3	1	5.7	1	0.9	-1	0.408	1	2.479	1	6.076	1	1781	49	3.1
30306.3	10000	41.8967	93.3503	-715	QW	2.2	1	5.9	1	0.9	-1	0.368	1	2.300	1	6.249	2	1779	45	3.1
30306.4	10000	41.8967	93.3494	-716	QW	2.2	1	5.5	1	0.9	-1	0.391	1	2.285	1	5.843	1	1757	49	3.1
30306.5	10000	41.8966	93.3485	-717	QW	2.2	1	5.5	1	0.9	-1	0.415	1	2.385	1	5.749	1	1750	53	3.2
30306.6	10000	41.8966	93.3477	-717	QW	2.2	1	5.5	1	1.0	-1	0.443	1	2.315	1	5.225	0	1752	60	3.2
30306.7	10000	41.8966	93.3468	-716	QW	2.2	1	5.5	1	1.0	-1	0.421	1	2.235	1	5.307	0	1741	43	3.2
30306.8	10000	41.8966	93.3459	-716	QW	2.1	1	5.5	0	1.0	-1	0.421	1	2.070	1	4.918	0	1738	52	3.2
30306.9	10000	41.8966	93.3450	-716	QW	2.1	1	5.5	0	1.0	-1	0.411	1	2.125	1	5.167	0	1732	59	3.2
30307.0	10000	41.8966	93.3441	-716	QW	2.2	1	5.5	0	1.0	-1	0.435	1	2.171	1	4.995	0	1719	60	3.2
30307.1	10000	41.8966	93.3432	-716	QW	2.1	1	5.4	0	1.0	-1	0.384	1	2.119	1	5.518	0	1736	42	3.2
30307.2	10000	41.8966	93.3423	-717	QW	1.9	0	5.3	0	1.0	-1	0.350	0	1.920	0	5.489	1	1725	48	3.2
30307.3	10000	41.8966	93.3414	-716	QW	1.9	0	5.5	0	1.0	-1	0.340	0	1.939	0	5.710	1	1723	45	3.2
30307.4	10000	41.8966	93.3405	-716	QW	1.8	0	5.6	0	1.0	-1	0.327	0	1.846	0	5.645	1	1724	43	3.2

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30307.5	10000	41.8966	93.3396	-715	QW	1.7	-1	5.7	0	1.0	-1	0.308	-1	1.785	0	5.793	1	1724	41	3.2
30307.6	10000	41.8966	93.3387	-715	QW	1.9	0	5.5	0	1.0	-1	0.338	0	1.855	0	5.482	0	1726	34	3.2
30307.7	10000	41.8965	93.3378	-715	QW	1.8	0	5.6	0	1.0	-1	0.320	-1	1.780	0	5.556	1	1730	37	3.2
30307.8	10000	41.8965	93.3369	-715	QW	1.9	0	5.4	0	1.0	0	0.356	0	1.876	0	5.275	0	1727	37	3.2
30307.9	10000	41.8965	93.3360	-714	QW	2.1	0	5.7	0	1.0	0	0.369	0	2.065	0	5.596	1	1745	38	3.2
30308.0	10000	41.8965	93.3351	-714	QW	2.2	0	5.5	0	1.0	-1	0.399	0	2.191	1	5.487	0	1751	49	3.2
30308.1	10000	41.8965	93.3342	-715	QW	2.2	1	5.2	0	1.0	-1	0.419	1	2.216	1	5.291	0	1762	49	3.2
30308.2	10000	41.8965	93.3333	-715	QW	2.2	1	5.2	0	1.0	-1	0.428	1	2.314	1	5.408	0	1761	59	3.2
30308.3	10000	41.8965	93.3324	-715	QW	1.9	0	5.4	0	0.9	-1	0.360	0	2.065	0	5.734	1	1764	43	3.2
30308.4	10000	41.8965	93.3315	-715	QW	1.8	-1	5.3	0	0.9	-1	0.331	0	1.903	0	5.753	1	1760	40	3.2
30308.5	10000	41.8965	93.3306	-714	QW	1.7	-1	5.1	-1	0.9	-2	0.333	0	1.882	0	5.653	1	1752	38	3.2
30308.6	10000	41.8965	93.3297	-714	QW	1.7	-1	4.8	-1	0.9	-2	0.359	0	1.950	0	5.429	0	1734	54	3.2
30308.7	10000	41.8965	93.3288	-714	QW	1.8	0	4.7	-1	0.9	-2	0.381	0	2.052	0	5.379	0	1719	47	3.2
30308.8	10000	41.8965	93.3279	-715	QW	1.7	-1	4.8	-1	0.9	-2	0.348	0	1.935	0	5.566	1	1699	37	3.2
30308.9	10000	41.8964	93.3270	-717	QW	1.8	0	5.1	0	0.9	-2	0.359	0	2.092	0	5.827	1	1704	49	3.2
30309.0	10000	41.8964	93.3261	-715	QW	1.9	0	5.0	-1	0.9	-2	0.387	0	2.245	1	5.799	1	1692	50	3.2
30309.1	10000	41.8964	93.3252	-708	QW	2.2	1	5.1	0	0.9	-2	0.427	1	2.532	1	5.933	1	1700	43	3.2
30309.2	10000	41.8964	93.3243	-710	QW	2.3	1	5.2	0	0.9	-2	0.443	1	2.608	1	5.885	1	1704	40	3.2
30309.3	10000	41.8964	93.3234	-714	QW	2.2	0	5.6	0	0.9	-2	0.390	0	2.446	1	6.276	2	1712	50	3.2
30309.4	10000	41.8964	93.3225	-714	QW	1.9	0	5.6	0	0.9	-1	0.342	0	2.051	0	5.998	1	1742	50	3.2
30309.5	10000	41.8964	93.3216	-713	QW	2.3	1	5.7	0	1.0	-1	0.398	0	2.296	1	5.770	1	1766	38	3.2
30309.6	10000	41.8964	93.3207	-712	QW	2.4	1	5.4	0	1.0	-1	0.449	1	2.503	1	5.568	1	1771	55	3.3
30309.7	10000	41.8964	93.3198	-712	QW	2.7	2	5.4	0	1.0	0	0.497	1	2.597	1	5.225	0	1795	38	3.3
30309.8	10000	41.8964	93.3189	-713	QW	2.6	2	5.2	0	1.0	0	0.501	1	2.580	1	5.149	0	1783	48	3.3
30309.9	10000	41.8964	93.3180	-712	QW	2.5	1	5.4	0	1.0	0	0.452	1	2.368	1	5.242	0	1795	50	3.3
30310.0	10000	41.8964	93.3171	-711	QW	2.6	1	5.6	0	1.1	0	0.463	1	2.428	1	5.249	0	1820	51	3.3
30310.1	10000	41.8963	93.3162	-711	QW	2.5	1	5.4	0	1.0	0	0.455	1	2.361	1	5.190	0	1821	50	3.3
30310.2	10000	41.8963	93.3153	-711	QW	2.3	1	5.6	0	1.1	0	0.407	1	2.128	1	5.224	0	1827	59	3.3
30310.3	10000	41.8963	93.3144	-710	QW	1.8	0	5.5	0	1.1	0	0.334	0	1.653	-1	4.945	0	1828	52	3.2
30310.4	10000	41.8963	93.3135	-710	QW	1.7	-1	5.8	0	1.1	-1	0.294	-1	1.586	-1	5.392	0	1837	51	3.2
30310.5	10000	41.8963	93.3126	-709	QW	1.7	-1	5.9	0	1.1	-1	0.296	-1	1.568	-1	5.305	0	1843	47	3.2
30310.6	10000	41.8963	93.3117	-709	QW	1.8	0	6.0	0	1.1	-1	0.302	-1	1.631	-1	5.402	0	1839	50	3.2
30310.7	10000	41.8963	93.3108	-709	QW	1.7	-1	5.9	0	1.1	-1	0.283	-1	1.461	-1	5.168	0	1806	48	3.2
30310.8	10000	41.8963	93.3099	-709	QW	1.6	-1	5.8	0	1.2	-1	0.278	-1	1.392	-1	5.010	0	1777	31	3.2
30310.9	10000	41.8963	93.3090	-708	QW	1.6	-1	5.7	0	1.1	-1	0.287	-1	1.434	-1	4.999	0	1763	53	3.2
30311.0	10000	41.8963	93.3081	-705	QW	1.7	-1	5.8	0	1.1	-1	0.293	-1	1.537	-1	5.240	0	1750	41	3.2
30311.1	10000	41.8963	93.3072	-700	QW	1.5	-1	5.7	0	1.1	-1	0.262	-1	1.323	-1	5.040	0	1740	58	3.2
30311.2	10000	41.8962	93.3063	-702	QW	1.7	-1	5.8	0	1.1	-1	0.293	-1	1.573	-1	5.364	0	1742	48	3.2
30311.3	10000	41.8962	93.3054	-706	QW	1.7	-1	5.5	0	1.1	-1	0.307	-1	1.608	-1	5.234	0	1742	41	3.2
30311.4	10000	41.8962	93.3045	-706	QW	2.0	0	5.4	0	1.1	0	0.372	0	1.934	0	5.197	0	1757	44	3.2
30311.5	10000	41.8962	93.3036	-705	QW	2.0	0	5.4	0	1.1	0	0.377	0	2.005	0	5.316	1	1761	56	3.2
30311.6	10000	41.8962	93.3027	-705	QW	2.2	1	5.2	0	1.1	0	0.417	1	2.191	1	5.249	1	1772	43	3.2
30311.7	10000	41.8962	93.3018	-704	QW	2.2	1	5.3	0	1.1	0	0.429	1	2.319	1	5.405	1	1786	58	3.2
30311.8	10000	41.8962	93.3009	-703	QW	2.6	2	5.4	0	1.1	0	0.486	1	2.707	2	5.565	1	1788	45	3.2
30311.9	10000	41.8962	93.3000	-703	QW	2.4	1	5.4	0	1.1	0	0.442	1	2.398	1	5.422	1	1797	37	3.2
30312.0	10000	41.8962	93.2991	-702	QW	2.4	1	5.7	0	1.1	0	0.425	1	2.329	1	5.475	1	1802	46	3.2
30312.1	10000	41.8962	93.2982	-701	QW	2.2	1	5.6	0	1.1	0	0.378	0	2.188	1	5.781	1	1795	39	3.2
30312.2	10000	41.8962	93.2973	-701	QW	2.5	1	6.0	0	1.1	0	0.414	1	2.588	2	6.243	2	1799	58	3.2
30312.3	10000	41.8961	93.2964	-700	QW	2.2	1	5.8	0	0.9	-1	0.354	0	2.341	2	6.608	2	1794	51	3.2
30312.4	10000	41.8961	93.2955	-700	QW	2.2	1	6.3	0	1.0	-1	0.350	0	2.222	2	6.345	2	1804	51	3.2
30312.5	10000	41.8961	93.2946	-700	QW	2.1	1	6.3	0	1.0	-1	0.340	0	2.085	2	6.129	2	1809	53	3.2
30312.6	10000	41.8961	93.2937	-699	QW	2.1	0	6.1	1	1.0	0	0.345	0	2.095	0	6.066	1	1798	58	3.2

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30312.7	10000	41.8961	93.2928	-698	QW	2.1	0	6.1	1	1.0	-1	0.351	0	2.222	1	6.326	2	1779	51	3.2
30312.8	10000	41.8961	93.2919	-698	QW	2.1	0	6.2	1	1.0	-1	0.335	0	2.121	0	6.339	2	1778	52	3.2
30312.9	10000	41.8961	93.2910	-697	QW	1.9	0	5.9	1	1.0	-1	0.317	-1	1.914	0	6.030	1	1783	58	3.2
30313.0	10000	41.8961	93.2901	-696	QW	2.2	1	5.8	1	1.0	-1	0.383	0	2.246	1	5.860	1	1790	57	3.2
30313.1	10000	41.8961	93.2892	-695	QW	2.3	1	5.6	0	1.0	-1	0.413	0	2.424	1	5.865	1	1777	45	3.2
30313.2	10000	41.8961	93.2883	-695	QW	2.1	0	5.7	0	0.9	-1	0.378	0	2.293	1	6.058	1	1757	50	3.2
30313.3	10000	41.8961	93.2874	-694	QW	2.1	0	5.6	0	1.0	-1	0.370	0	2.168	1	5.857	1	1758	44	3.2
30313.4	10000	41.8961	93.2865	-693	QW	2.0	0	5.5	0	1.0	-1	0.356	0	2.022	0	5.682	1	1763	44	3.2
30313.5	10000	41.8960	93.2856	-689	QW	2.3	1	5.6	0	1.0	-1	0.407	0	2.283	1	5.608	1	1759	42	3.2
30313.6	10000	41.8960	93.2847	-684	QW	2.4	1	5.9	1	1.0	0	0.398	0	2.299	1	5.771	1	1761	46	3.2
30313.7	10000	41.8960	93.2838	-686	QW	2.0	0	6.1	1	1.0	0	0.333	0	1.999	0	5.999	1	1750	48	3.1
30313.8	10000	41.8960	93.2830	-688	QW	1.9	0	6.0	1	1.0	0	0.318	-1	1.857	0	5.830	1	1757	48	3.1
30313.9	10000	41.8960	93.2821	-688	QW	2.1	0	6.3	1	1.1	0	0.336	0	1.965	0	5.850	1	1769	44	3.1
30314.0	10000	41.8960	93.2812	-688	QW	2.1	0	6.5	1	1.1	0	0.330	0	1.988	0	6.030	1	1772	44	3.1
30314.1	10000	41.8960	93.2803	-688	QW	2.1	0	6.4	1	1.1	0	0.322	-1	1.904	0	5.922	1	1783	55	3.1
30314.2	10000	41.8960	93.2794	-688	QW	1.8	0	6.7	2	1.1	0	0.271	-1	1.703	0	6.287	2	1797	61	3.1
30314.3	10000	41.8960	93.2785	-687	QW	1.6	-1	6.8	2	1.1	0	0.235	-1	1.479	-1	6.290	2	1799	44	3.1
30314.4	10000	41.8960	93.2776	-686	QW	1.7	-1	6.9	2	1.1	0	0.253	-1	1.585	-1	6.264	2	1812	37	3.1
30314.5	10000	41.8960	93.2767	-686	QW	1.6	-1	7.0	2	1.1	0	0.232	-1	1.505	-1	6.475	2	1805	33	3.1
30314.6	10000	41.8960	93.2758	-685	QW	1.6	-1	6.7	2	1.1	0	0.241	-1	1.499	-1	6.218	2	1817	40	3.1
30314.7	10000	41.8959	93.2749	-685	QW	1.5	-1	6.6	2	1.0	0	0.236	-1	1.491	-1	6.305	2	1820	43	3.1
30314.8	10000	41.8959	93.2740	-684	QW	1.6	-1	7.1	2	1.1	0	0.232	-1	1.532	-1	6.608	2	1814	45	3.1
30314.9	10000	41.8959	93.2731	-683	QW	1.6	-1	6.7	2	1.1	0	0.243	-1	1.507	-1	6.212	2	1825	33	3.1
30315.0	10000	41.8959	93.2722	-682	QW	2.1	0	6.6	2	1.1	0	0.312	-1	1.936	0	6.209	2	1831	45	3.1
30315.1	10000	41.8959	93.2713	-682	QW	2.1	0	6.3	1	1.1	0	0.327	-1	1.949	0	5.966	1	1830	38	3.1
30315.2	10000	41.8959	93.2704	-682	QW	2.2	1	6.0	1	1.1	0	0.370	0	2.240	1	6.060	1	1830	35	3.1
30315.3	10000	41.8959	93.2695	-681	QW	2.1	0	6.1	1	1.1	0	0.343	0	2.092	1	6.096	1	1817	48	3.1
30315.4	10000	41.8959	93.2686	-680	QW	2.1	0	5.6	1	1.1	0	0.338	0	1.922	1	5.689	1	1832	41	3.1
30315.5	10000	41.8959	93.2677	-680	QW	2.2	0	5.7	1	1.1	0	0.382	0	2.037	1	5.330	0	1849	41	3.1
30315.6	10000	41.8959	93.2668	-680	QW	2.3	1	5.7	1	1.1	0	0.397	0	2.157	1	5.431	0	1834	44	3.1
30315.7	10000	41.8959	93.2659	-680	QW	1.9	0	5.7	1	1.1	0	0.332	0	1.802	1	5.427	0	1818	48	3.1
30315.8	10000	41.8959	93.2650	-680	QW	1.8	-1	5.9	1	1.1	0	0.298	-1	1.679	1	5.636	1	1814	41	3.1
30315.9	10000	41.8958	93.2641	-680	QW	1.7	-1	6.2	1	1.1	0	0.267	-1	1.515	1	5.675	1	1815	51	3.1
30316.0	10000	41.8958	93.2632	-680	QW	1.9	0	6.2	1	1.1	0	0.301	-1	1.728	1	5.745	1	1819	46	3.1
30316.1	10000	41.8958	93.2623	-679	QW	2.2	1	6.1	1	1.1	0	0.358	0	2.180	1	6.092	1	1811	46	3.1
30316.2	10000	41.8958	93.2614	-679	QW	2.2	1	6.0	1	1.1	0	0.369	0	2.245	1	6.084	1	1800	50	3.2
30316.3	10000	41.8958	93.2605	-679	QW	2.3	1	5.8	1	1.1	0	0.393	0	2.248	1	5.726	1	1819	50	3.2
30316.4	10000	41.8958	93.2596	-678	QW	2.4	1	5.5	1	1.1	0	0.439	1	2.307	1	5.248	0	1829	44	3.2
30316.5	10000	41.8958	93.2587	-679	QW	2.7	1	5.7	1	1.1	0	0.469	1	2.547	1	5.430	0	1836	48	3.2
30316.6	10000	41.8958	93.2578	-679	QW	2.8	1	5.3	1	1.1	0	0.520	2	2.499	1	4.804	-1	1847	42	3.2
30316.7	10000	41.8958	93.2569	-679	QD	2.8	1	5.4	1	1.1	0	0.517	2	2.534	1	4.897	-1	1858	40	3.2
30316.8	10000	41.8958	93.2560	-679	QD	2.5	1	5.6	1	1.1	0	0.446	1	2.218	1	4.971	-1	1854	41	3.2
30316.9	10000	41.8958	93.2551	-679	QD	2.3	1	5.5	1	1.1	0	0.416	1	2.063	1	4.959	-1	1869	44	3.2
30317.0	10000	41.8957	93.2542	-680	QD	2.3	1	5.7	1	1.1	0	0.398	1	2.023	1	5.081	0	1870	55	3.2
30317.1	10000	41.8957	93.2533	-680	QD	2.2	1	5.6	1	1.1	0	0.360	1	1.925	1	5.342	0	1883	33	3.2
30317.2	10000	41.8957	93.2524	-680	QD	2.4	1	5.9	1	1.1	0	0.381	1	1.932	1	5.076	0	1869	41	3.2
30317.3	10000	41.8957	93.2515	-681	QD	2.2	1	5.9	1	1.1	0	0.402	1	2.254	1	5.612	1	1877	49	3.2
30317.4	10000	41.8957	93.2506	-681	QD	2.2	1	5.9	1	1.1	0	0.369	1	2.067	1	5.603	1	1880	45	3.2
30317.5	10000	41.8957	93.2497	-681	QD	2.3	1	5.9	1	1.1	0	0.370	1	2.024	1	5.473	1	1877	46	3.2
30317.6	10000	41.8957	93.2488	-681	QD	2.3	1	5.9	1	1.1	0	0.390	1	2.060	1	5.277	0	1873	43	3.2
30317.7	10000	41.8957	93.2479	-681	QD	2.3	1	5.7	1	1.1	0	0.398	1	2.061	1	5.183	0	1852	51	3.2
30317.8	10000	41.8957	93.2470	-682	QD	2.3	0	5.7	1	1.1	0	0.401	0	2.136	0	5.327	0	1838	55	3.3

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30317.9	10000	41.8957	93.2461	-683	QD	2.1	0	5.9	0	1.1	0	0.359	0	1.848	-1	5.145	0	1846	45	3.3
30318.0	10000	41.8957	93.2452	-683	QD	1.9	-1	5.6	0	1.2	1	0.330	-1	1.579	-1	4.784	-1	1826	55	3.3
30318.1	10000	41.8957	93.2444	-683	QD	1.8	-1	5.8	0	1.2	1	0.310	-1	1.532	-1	4.943	-1	1814	45	3.3
30318.2	10000	41.8956	93.2435	-684	QD	2.0	-1	5.7	0	1.1	0	0.345	-1	1.732	-1	5.016	-1	1816	44	3.3
30318.3	10000	41.8956	93.2426	-685	QD	2.1	0	6.0	0	1.1	0	0.349	-1	1.838	-1	5.264	0	1796	49	3.3
30318.4	10000	41.8956	93.2417	-686	QD	2.0	-1	6.1	0	1.1	0	0.335	-1	1.845	-1	5.510	0	1799	53	3.3
30318.5	10000	41.8956	93.2408	-687	QD	2.0	-1	6.1	0	1.2	0	0.328	-1	1.730	-1	5.281	0	1800	42	3.3
30318.6	10000	41.8956	93.2399	-688	QD	2.2	0	6.0	0	1.1	0	0.360	0	1.956	0	5.433	0	1796	51	3.3
30318.7	10000	41.8956	93.2390	-688	QD	2.0	-1	6.1	0	1.1	0	0.326	-1	1.825	-1	5.592	1	1804	46	3.3
30318.8	10000	41.8956	93.2382	-689	QD	2.2	0	5.9	0	1.1	0	0.372	0	1.978	0	5.323	0	1802	38	3.3
30318.9	10000	41.8956	93.2373	-690	QD	2.3	0	5.7	0	1.1	0	0.400	0	2.046	0	5.112	0	1810	35	3.3
30319.0	10000	41.8956	93.2364	-691	QD	2.1	-1	5.5	-1	1.1	-1	0.379	0	1.951	0	5.152	0	1799	46	3.3
30319.1	10000	41.8956	93.2355	-691	QD	2.1	0	5.3	-1	1.1	-1	0.397	0	2.002	0	5.042	0	1780	45	3.3
30319.2	10000	41.8956	93.2346	-693	QD	2.3	0	5.0	-1	1.1	-1	0.450	1	2.153	0	4.788	-1	1774	54	3.4
30319.3	10000	41.8956	93.2337	-694	QD	2.2	0	5.0	-1	1.1	-1	0.429	0	2.058	0	4.799	-1	1766	52	3.4
30319.4	10000	41.8956	93.2328	-696	QD	2.3	0	5.2	-1	1.0	-1	0.446	1	2.258	1	5.061	0	1752	44	3.4
30319.5	10000	41.8956	93.2320	-697	QD	2.2	0	4.9	-2	1.0	-1	0.457	1	2.205	0	4.822	-1	1755	48	3.4
30319.6	10000	41.8956	93.2311	-698	QD	2.1	0	5.0	-2	1.0	-1	0.424	0	2.119	0	4.995	-1	1758	58	3.4
30319.7	10000	41.8956	93.2302	-699	QD	2.3	0	5.1	-1	1.1	0	0.459	1	2.161	0	4.710	-1	1792	38	3.4
30319.8	10000	41.8956	93.2293	-701	QL	2.2	-1	5.1	-3	1.1	-1	0.441	1	1.991	-1	4.514	-3	1827	40	3.4
30319.9	10000	41.8956	93.2284	-703	QL	2.4	0	5.2	-3	1.1	-1	0.465	2	2.169	0	4.665	-3	1869	40	3.4
30320.0	10000	41.8956	93.2275	-704	QL	2.6	0	5.1	-3	1.1	0	0.500	2	2.272	0	4.545	-3	1903	44	3.4
30320.1	10000	41.8956	93.2267	-704	QL	2.5	0	5.1	-3	1.1	0	0.484	2	2.172	0	4.486	-3	1938	42	3.4
30320.2	10000	41.8956	93.2258	-706	QL	2.5	0	5.6	-3	1.1	0	0.442	1	2.186	0	4.943	-2	1957	48	3.4
30320.3	10000	41.8955	93.2249	-707	QL	2.4	0	5.6	-3	1.2	0	0.431	1	2.042	0	4.743	-2	1970	51	3.4
30320.4	10000	41.8955	93.2240	-708	QL	2.3	-1	6.0	-2	1.2	0	0.383	0	1.967	-1	5.138	-2	1983	41	3.4
30320.5	10000	41.8955	93.2231	-710	QL	2.3	-1	6.0	-2	1.2	0	0.385	0	1.960	-1	5.094	-2	1989	53	3.4
30320.6	10000	41.8955	93.2222	-711	QL	2.1	-1	6.4	-1	1.2	0	0.324	-1	1.744	-1	5.385	-1	1977	48	3.4
30320.7	10000	41.8955	93.2213	-712	QL	1.8	-2	6.6	-1	1.2	0	0.272	-1	1.494	-2	5.493	-1	1997	54	3.4
30320.8	10000	41.8955	93.2205	-713	QL	1.8	-2	6.8	-1	1.2	1	0.263	-1	1.457	-2	5.535	-1	2028	51	3.5
30320.9	10000	41.8955	93.2196	-713	QL	1.8	-2	6.6	-1	1.3	1	0.269	-1	1.396	-2	5.192	-2	2054	48	3.5
30321.0	10000	41.8955	93.2187	-716	QL	1.9	-1	6.8	-1	1.3	1	0.280	-1	1.477	-2	5.269	-2	2071	38	3.5
30321.1	10000	41.8955	93.2178	-717	QL	2.0	-1	6.7	-1	1.3	1	0.296	-1	1.546	-2	5.228	-2	2098	45	3.5
30321.2	10000	41.8955	93.2169	-718	QL	2.0	-1	6.9	-1	1.3	1	0.289	-1	1.573	-1	5.449	-1	2130	51	3.5
30321.3	10000	41.8955	93.2160	-719	QL	1.8	-2	7.0	0	1.3	1	0.255	-2	1.386	-2	5.444	-1	2146	47	3.5
30321.4	10000	41.8955	93.2151	-720	QL	2.0	-1	7.1	0	1.2	1	0.285	-1	1.659	-1	5.812	-1	2147	46	3.5
30321.5	10000	41.8955	93.2143	-721	QL	2.1	-1	6.8	-1	1.2	0	0.311	-1	1.808	-1	5.811	-1	2125	49	3.5
30321.6	10000	41.8955	93.2134	-723	QL	2.1	-1	7.1	0	1.1	-1	0.301	-1	1.930	-1	6.402	0	2104	54	3.5
30321.7	10000	41.8955	93.2125	-724	QL	1.8	-2	7.2	0	1.0	-2	0.244	-2	1.776	-1	7.273	2	2072	43	3.5
30321.8	10000	41.8955	93.2116	-725	QL	1.7	-2	7.4	0	1.0	-2	0.232	-2	1.789	-1	7.694	3	2031	63	3.5
30321.9	10000	41.8955	93.2107	-727	QL	1.9	-2	7.3	0	0.9	-3	0.257	-1	2.067	0	8.031	3	1995	46	3.5
30322.0	10000	41.8955	93.2098	-728	QL	2.3	-1	7.5	0	0.8	-4	0.309	-1	2.774	1	8.964	3	1984	48	3.5
30322.1	10000	41.8955	93.2090	-728	QL	2.5	0	7.2	0	0.9	-3	0.351	0	2.879	2	8.202	3	1976	41	3.5
30322.2	10000	41.8955	93.2081	-729	QAL	2.4	0	7.2	0	0.9	-1	0.337	0	2.755	1	8.180	3	1965	54	3.5
30322.3	10000	41.8955	93.2072	-730	QAL	2.6	0	7.1	0	0.9	-1	0.363	0	2.824	1	7.773	2	1964	59	3.5
30322.4	10000	41.8954	93.2063	-731	QAL	2.9	1	6.5	0	0.9	-1	0.446	1	3.092	1	6.940	1	1988	38	3.5
30322.5	10000	41.8954	93.2054	-732	QAL	2.7	1	6.2	0	1.0	-1	0.442	1	2.817	1	6.366	0	2013	37	3.5
30322.6	10000	41.8954	93.2045	-734	QAL	2.7	0	6.4	0	1.1	0	0.422	0	2.549	0	6.040	0	2041	41	3.5
30322.7	10000	41.8954	93.2036	-735	QAL	2.5	-1	6.8	0	1.1	0	0.426	1	2.158	0	5.062	-1	2063	45	3.5
30322.8	10000	41.8954	93.2028	-736	QAL	2.1	-1	6.2	-1	1.1	0	0.336	0	1.818	-1	5.405	-1	2071	48	3.5
30322.9	10000	41.8954	93.2019	-737	QL	2.3	-1	6.4	-1	1.2	0	0.363	0	1.960	-1	5.406	-1	2094	49	3.5
30323.0	10000	41.8954	93.2010	-737	QL	2.1	-1	6.7	-1	1.2	1	0.309	-1	1.678	-1	5.433	-1	2103	46	3.5

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30323.1	10000	41.8954	93.2001	-738	QL	2.0	-1	7.2	0	1.3	1	0.282	-1	1.581	-1	5.599	-1	2119	40	3.5
30323.2	10000	41.8954	93.1992	-739	QL	2.3	-1	7.2	0	1.2	1	0.313	-1	1.812	-1	5.787	-1	2134	41	3.5
30323.3	10000	41.8954	93.1983	-740	QL	2.4	0	7.0	0	1.2	1	0.343	0	1.940	-1	5.653	-1	2147	39	3.5
30323.4	10000	41.8954	93.1975	-740	QL	2.7	0	7.3	0	1.2	1	0.365	0	2.173	0	5.955	0	2143	45	3.5
30323.5	10000	41.8954	93.1966	-741	QL	2.8	1	7.2	0	1.3	1	0.395	1	2.211	0	5.593	-1	2160	46	3.5
30323.6	10000	41.8954	93.1957	-741	QL	2.8	0	7.3	0	1.3	1	0.383	0	2.137	0	5.587	-1	2173	46	3.5
30323.7	10000	41.8954	93.1948	-740	QL	2.8	1	7.5	0	1.3	1	0.378	0	2.195	0	5.801	-1	2195	37	3.5
30323.8	10000	41.8954	93.1939	-741	QL	2.9	1	7.4	0	1.3	1	0.391	0	2.231	0	5.714	-1	2181	51	3.5
30323.9	10000	41.8954	93.1930	-741	QL	2.7	0	7.3	0	1.3	2	0.371	0	2.047	0	5.516	-1	2177	48	3.4
30324.0	10000	41.8954	93.1922	-738	QL	2.4	0	7.6	1	1.2	1	0.312	-1	1.903	-1	6.096	0	2145	50	3.4
30324.1	10000	41.8954	93.1913	-737	QL	2.3	-1	7.8	1	1.2	0	0.295	-1	1.923	-1	6.517	1	2127	45	3.4
30324.2	10000	41.8954	93.1904	-739	QL	2.4	0	7.5	0	1.1	-1	0.322	-1	2.132	0	6.626	1	2093	35	3.4
30324.3	10000	41.8953	93.1895	-741	QL	2.2	-1	7.2	0	1.1	-1	0.312	-1	2.061	0	6.602	1	2054	43	3.4
30324.4	10000	41.8954	93.1886	-742	QL	2.4	0	6.7	-1	1.1	-1	0.353	0	2.231	0	6.316	0	2027	42	3.4
30324.5	10000	41.8953	93.1877	-743	QL	2.3	-1	6.7	-1	1.1	-1	0.346	0	2.175	0	6.294	0	2023	47	3.4
30324.6	10000	41.8953	93.1868	-742	QL	2.4	0	6.6	-1	1.0	-1	0.360	0	2.295	0	6.367	0	2008	44	3.4
30324.7	10000	41.8953	93.1860	-742	QL	2.6	0	6.6	-1	1.1	-1	0.395	1	2.428	1	6.152	0	2012	52	3.4
30324.8	10000	41.8953	93.1851	-742	QL	2.8	1	6.4	-1	1.0	-1	0.441	1	2.696	1	6.117	0	2027	52	3.4
30324.9	10000	41.8953	93.1842	-741	QL	2.7	0	6.9	-1	1.1	-1	0.383	0	2.506	1	6.540	1	2038	41	3.4
30325.0	10000	41.8953	93.1833	-740	QL	2.6	0	7.3	0	1.1	-1	0.351	0	2.414	0	6.881	1	2061	40	3.4
30325.1	10000	41.8953	93.1824	-740	QL	2.5	0	7.6	0	1.1	-1	0.329	0	2.255	0	6.859	1	2088	49	3.4
30325.2	10000	41.8953	93.1815	-739	QL	2.7	0	7.6	0	1.1	-1	0.353	0	2.490	1	7.045	1	2095	47	3.4
30325.3	10000	41.8953	93.1806	-738	QL	2.5	0	7.8	1	1.1	0	0.323	-1	2.183	0	6.753	1	2115	45	3.4
30325.4	10000	41.8953	93.1798	-736	QL	2.4	0	7.7	1	1.2	0	0.310	-1	1.994	-1	6.430	0	2137	47	3.4
30325.5	10000	41.8953	93.1789	-735	QL	2.1	-1	7.9	1	1.3	1	0.268	-1	1.643	-1	6.124	0	2155	37	3.4
30325.6	10000	41.8953	93.1780	-735	QL	2.3	-1	7.8	1	1.3	1	0.292	-1	1.729	-1	5.925	0	2159	55	3.3
30325.7	10000	41.8953	93.1771	-735	QL	2.5	0	7.6	1	1.4	1	0.325	0	1.813	-1	5.587	-1	2169	53	3.3
30325.8	10000	41.8953	93.1762	-734	QL	2.5	0	7.5	1	1.3	1	0.337	0	1.960	-1	5.815	-1	2153	49	3.3
30325.9	10000	41.8953	93.1753	-733	QL	2.4	0	7.6	1	1.3	1	0.319	-1	1.842	-1	5.768	-1	2140	40	3.3
30326.0	10000	41.8953	93.1745	-732	QL	2.7	0	7.9	1	1.2	0	0.346	0	2.203	0	6.359	0	2119	46	3.3
30326.1	10000	41.8953	93.1736	-725	QL	2.8	1	8.1	1	1.2	0	0.345	0	2.322	1	6.738	1	2109	37	3.3
30326.2	10000	41.8953	93.1727	-708	QL	2.8	1	7.9	1	1.2	1	0.361	0	2.443	1	6.766	1	2094	54	3.3
30326.3	10000	41.8952	93.1718	-719	QL	2.7	0	8.1	1	1.1	0	0.332	0	2.353	1	7.086	1	2107	42	3.3
30326.4	10000	41.8952	93.1709	-729	QL	2.6	0	8.2	1	1.1	0	0.316	-1	2.323	2	7.359	1	2106	43	3.3
30326.5	10000	41.8952	93.1700	-729	QL	2.6	0	8.0	1	1.2	0	0.329	0	2.209	1	6.716	1	2109	53	3.3
30326.6	10000	41.8952	93.1691	-728	QL	2.6	0	8.2	1	1.2	-1	0.315	-1	2.179	1	6.917	1	2131	46	3.3
30326.7	10000	41.8952	93.1683	-727	QL	2.5	0	7.9	1	1.2	-1	0.317	-1	2.143	1	6.764	1	2141	46	3.3
30326.8	10000	41.8952	93.1674	-726	QL	2.5	0	7.6	1	1.2	0	0.333	0	2.094	1	6.288	1	2150	47	3.3
30326.9	10000	41.8952	93.1665	-725	QL	2.3	-1	7.5	1	1.2	-1	0.295	-1	1.897	-1	6.430	1	2141	51	3.3
30327.0	10000	41.8952	93.1656	-724	QL	2.3	-1	7.2	1	1.2	-1	0.322	-1	1.992	-1	6.178	1	2122	46	3.3
30327.1	10000	41.8952	93.1647	-724	QL	2.4	0	7.2	1	1.1	0	0.335	0	2.176	1	6.492	1	2099	54	3.3
30327.2	10000	41.8952	93.1638	-723	QL	2.3	-1	7.2	1	1.0	-1	0.312	-1	2.159	1	6.918	1	2071	44	3.2
30327.3	10000	41.8952	93.1629	-723	QL	2.4	0	6.8	-1	1.0	-2	0.355	0	2.513	2	7.080	1	2030	50	3.2
30327.4	10000	41.8952	93.1621	-723	QL	2.5	0	7.0	0	1.0	-2	0.345	0	2.346	1	6.806	1	2024	44	3.2
30327.5	10000	41.8952	93.1612	-723	QL	2.5	0	7.2	0	1.0	-2	0.348	0	2.516	2	7.230	2	2024	50	3.2
30327.6	10000	41.8952	93.1603	-722	QL	2.8	1	7.3	0	1.1	-2	0.384	0	2.752	2	7.175	2	2043	55	3.2
30327.7	10000	41.8952	93.1594	-722	QL	2.8	1	7.6	0	1.1	-2	0.372	0	2.687	2	7.221	2	2071	38	3.2
30327.8	10000	41.8952	93.1585	-721	QL	2.7	1	7.5	0	1.1	-2	0.363	0	2.556	2	6.676	1	2096	49	3.2
30327.9	10000	41.8952	93.1576	-722	QL	2.9	1	7.8	1	1.2	-2	0.396	0	2.627	2	6.640	1	2132	47	3.2
30328.0	10000	41.8952	93.1568	-722	QL	3.0	1	8.0	1	1.2	-2	0.362	0	2.367	2	6.543	1	2179	49	3.2
30328.1	10000	41.8952	93.1559	-722	QL	3.0	1	8.0	1	1.2	-2	0.355	0	2.516	2	6.539	1	2204	55	3.2
30328.2	10000	41.8951	93.1550	-722	QL	2.7	0	7.8	1	1.2	-2	0.353	0	2.286	2	6.471	1	2215	50	3.2

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30328.3	10000	41.8951	93.1541	-721	QL	3.0	1	7.4	0	1.2	1	0.405	1	2.425	0	5.984	0	2213	53	3.2
30328.4	10000	41.8951	93.1532	-720	QL	2.7	0	7.1	0	1.2	1	0.387	0	2.206	0	5.706	-1	2204	41	3.2
30328.5	10000	41.8951	93.1523	-721	QL	2.7	0	7.3	0	1.3	1	0.367	0	2.094	0	5.714	-1	2204	62	3.2
30328.6	10000	41.8951	93.1514	-723	QL	2.8	0	6.9	-1	1.3	1	0.401	1	2.174	0	5.426	-1	2211	49	3.2
30328.7	10000	41.8951	93.1506	-724	QL	2.7	0	7.0	0	1.3	1	0.393	1	2.121	0	5.399	-1	2211	45	3.2
30328.8	10000	41.8951	93.1497	-725	QL	2.5	0	7.1	0	1.4	2	0.356	0	1.870	-1	5.251	-2	2204	55	3.2
30328.9	10000	41.8951	93.1488	-726	QL	2.9	1	6.9	0	1.3	2	0.411	1	2.128	0	5.181	-2	2185	50	3.2
30329.0	10000	41.8951	93.1479	-727	QL	2.5	0	7.4	0	1.3	1	0.336	0	1.953	-1	5.806	-1	2183	35	3.2
30329.1	10000	41.8951	93.1470	-728	QL	2.7	0	7.7	1	1.3	1	0.352	0	2.117	0	6.021	0	2182	41	3.3
30329.2	10000	41.8951	93.1461	-729	QL	2.7	0	7.5	0	1.2	1	0.358	0	2.166	0	6.054	0	2183	45	3.3
30329.3	10000	41.8951	93.1452	-730	QL	2.6	0	7.4	0	1.2	1	0.346	0	2.084	0	6.017	0	2165	55	3.3
30329.4	10000	41.8951	93.1444	-731	QL	2.7	0	7.4	0	1.2	1	0.365	0	2.165	0	5.933	0	2159	52	3.3
30329.5	10000	41.8951	93.1435	-732	QL	2.8	0	6.9	-1	1.2	0	0.401	1	2.407	0	6.002	0	2140	37	3.3
30329.6	10000	41.8951	93.1426	-733	QL	2.9	1	7.0	0	1.1	0	0.419	1	2.577	1	6.153	0	2138	49	3.3
30329.7	10000	41.8951	93.1417	-734	QL	3.0	1	6.7	-1	1.2	0	0.438	1	2.524	1	5.766	-1	2126	41	3.3
30329.8	10000	41.8951	93.1408	-736	QL	3.0	1	6.3	-1	1.1	0	0.481	2	2.687	1	5.583	-1	2119	50	3.3
30329.9	10000	41.8951	93.1399	-737	QL	2.9	1	6.2	-2	1.1	-1	0.511	2	2.890	2	5.652	-1	2112	51	3.3
30330.0	10000	41.8951	93.1391	-739	QL	2.9	1	6.6	-1	1.1	-1	0.445	1	2.718	1	6.112	0	2109	59	3.3
30330.1	10000	41.8951	93.1382	-740	QL	2.9	1	6.2	-2	1.1	-1	0.465	2	2.686	1	5.771	-1	2088	55	3.3
30330.2	10000	41.8950	93.1373	-742	QL	2.8	1	6.5	-1	1.1	-1	0.435	1	2.550	1	5.858	-1	2096	46	3.3
30330.3	10000	41.8950	93.1364	-743	QL	2.5	0	6.6	-1	1.1	0	0.383	0	2.205	0	5.757	-1	2101	52	3.3
30330.4	10000	41.8950	93.1355	-745	QL	2.7	0	6.7	-1	1.1	0	0.403	0	2.355	0	5.849	-1	2121	43	3.3
30330.5	10000	41.8950	93.1346	-745	QL	2.4	0	7.2	0	1.2	0	0.334	0	1.994	-1	5.973	0	2124	41	3.3
30330.6	10000	41.8950	93.1337	-744	QL	2.4	0	7.4	0	1.2	0	0.323	-1	1.969	-1	6.100	0	2144	57	3.3
30330.7	10000	41.8950	93.1329	-749	QL	2.4	0	7.2	0	1.2	1	0.332	0	1.932	-1	5.811	-1	2149	43	3.3
30330.8	10000	41.8950	93.1320	-751	QL	2.5	0	7.6	0	1.3	1	0.326	0	1.952	-1	5.981	0	2173	46	3.3
30330.9	10000	41.8950	93.1311	-754	QL	2.5	0	7.4	0	1.3	1	0.339	0	2.010	-1	5.919	-1	2173	57	3.3
30331.0	10000	41.8950	93.1302	-756	QL	2.7	0	7.3	0	1.3	2	0.367	0	2.160	-1	5.888	-1	2175	36	3.3
30331.1	10000	41.8950	93.1293	-758	QL	2.7	0	7.1	0	1.3	2	0.388	0	2.226	-1	5.732	-1	2164	59	3.3
30331.2	10000	41.8950	93.1284	-760	QL	2.7	0	6.8	0	1.3	2	0.477	0	2.709	-1	5.685	-1	2175	43	3.3
30331.3	10000	41.8950	93.1275	-762	QL	2.5	0	6.8	0	1.3	2	0.508	0	2.867	-1	5.650	-1	2174	57	3.3
30331.4	10000	41.8950	93.1267	-764	QL	2.7	0	7.2	0	1.3	2	0.512	0	3.114	-1	6.086	0	2180	29	3.3
30331.5	10000	41.8950	93.1258	-766	QL	2.5	0	7.6	0	1.3	2	0.463	0	3.066	-1	6.615	1	2187	46	3.3
30331.6	10000	41.8950	93.1249	-768	QL	2.3	0	8.0	0	1.3	2	0.415	0	2.964	-1	7.138	2	2190	43	3.3
30331.7	10000	41.8950	93.1240	-770	QL	2.7	0	7.9	1	1.3	2	0.460	0	3.148	-1	6.840	1	2207	48	3.4
30331.8	10000	41.8950	93.1231	-772	QL	2.4	0	8.2	1	1.3	2	0.411	0	2.847	-1	6.924	1	2218	59	3.4
30331.9	10000	41.8950	93.1222	-774	QL	2.1	0	8.1	1	1.3	2	0.377	0	2.576	-1	6.832	1	2209	40	3.4
30332.0	10000	41.8949	93.1214	-776	QL	2.5	0	7.9	1	1.3	2	0.321	0	2.098	-1	6.543	1	2193	56	3.4
30332.1	10000	41.8949	93.1205	-777	QL	2.4	0	7.6	0	1.3	2	0.322	0	2.007	-1	6.229	0	2188	45	3.4
30332.2	10000	41.8949	93.1196	-780	QL	2.5	0	7.0	0	1.3	2	0.353	0	2.012	-1	5.696	-1	2168	36	3.4
30332.3	10000	41.8949	93.1187	-782	QL	2.7	0	6.4	-1	1.3	2	0.418	0	2.143	-1	5.132	-2	2164	47	3.4
30332.4	10000	41.8949	93.1178	-784	QL	2.2	0	6.6	-1	1.2	2	0.332	0	1.812	-1	5.461	-1	2126	45	3.4
30332.5	10000	41.8949	93.1169	-786	QL	2.4	0	6.6	-1	1.2	2	0.377	0	1.967	-1	5.211	-2	2108	43	3.4
30332.6	10000	41.8949	93.1160	-788	QL	2.5	0	6.6	-1	1.2	2	0.377	0	2.135	-1	5.667	-1	2096	56	3.4
30332.7	10000	41.8949	93.1152	-790	QL	2.8	0	6.4	-2	1.2	1	0.430	0	2.428	-1	5.653	-1	2108	50	3.4
30332.8	10000	41.8949	93.1143	-792	QL	2.9	0	6.3	-2	1.2	1	0.447	0	2.424	-1	5.423	-1	2109	40	3.4
30332.9	10000	41.8949	93.1134	-793	QL	3.0	0	6.4	-2	1.2	1	0.462	0	2.535	-1	5.489	-1	2119	56	3.4
30333.0	10000	41.8949	93.1125	-795	QL	3.1	1	6.5	-1	1.2	1	0.459	0	2.569	-1	5.597	-1	2124	40	3.4
30333.1	10000	41.8949	93.1116	-797	QL	3.1	1	6.7	-1	1.2	1	0.477	0	2.607	-1	5.464	-1	2156	57	3.4
30333.2	10000	41.8949	93.1107	-798	QL	3.0	1	6.6	-1	1.2	1	0.464	0	2.666	-1	5.748	-1	2174	46	3.4
30333.3	10000	41.8949	93.1098	-799	QL	2.8	1	6.6	-1	1.2	1	0.428	0	2.312	-1	5.400	-1	2168	59	3.4
30333.4	10000	41.8949	93.1090	-801	QL	3.1	1	6.6	-1	1.2	2	0.465	2	2.526	-1	5.431	-1	2166	42	3.4

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30333.5	10000	41.8949	93.1081	-802	QL	3.0	1	6.6	-1	1.2	0	0.450	1	2.480	1	5.511	-1	2160	54	3.4
30333.6	10000	41.8949	93.1072	-804	QL	2.8	0	7.2	0	1.2	0	0.380	0	2.341	0	6.156	0	2164	55	3.4
30333.7	10000	41.8949	93.1063	-805	QL	3.0	1	7.3	0	1.2	0	0.407	1	2.566	1	6.310	0	2170	44	3.4
30333.8	10000	41.8948	93.1054	-806	QL	3.0	1	7.3	0	1.1	-1	0.410	1	2.680	1	6.536	1	2172	43	3.4
30333.9	10000	41.8948	93.1045	-807	QL	3.3	1	7.0	0	1.1	-1	0.463	2	2.897	2	6.253	0	2184	41	3.4
30334.0	10000	41.8948	93.1037	-809	QL	3.4	2	7.2	0	1.1	-1	0.469	2	3.056	2	6.514	1	2222	52	3.4
30334.1	10000	41.8948	93.1028	-810	QL	3.3	2	7.4	0	1.1	0	0.442	1	2.913	2	6.591	1	2241	46	3.5
30334.2	10000	41.8948	93.1019	-810	QL	3.5	2	7.6	0	1.2	0	0.458	1	2.940	2	6.422	0	2257	42	3.5
30334.3	10000	41.8948	93.1010	-811	QL	3.7	3	6.9	-1	1.2	0	0.539	3	3.062	2	5.686	-1	2247	35	3.5
30334.4	10000	41.8948	93.1001	-812	QL	3.3	2	6.7	-1	1.2	1	0.496	2	2.702	1	5.445	-1	2252	48	3.5
30334.5	10000	41.8948	93.0992	-813	QL	3.3	2	6.7	-1	1.2	1	0.493	2	2.636	1	5.347	-1	2231	53	3.5
30334.6	10000	41.8948	93.0984	-813	QL	3.1	1	6.9	-1	1.3	1	0.443	1	2.391	0	5.398	-1	2209	50	3.5
30334.7	10000	41.8948	93.0975	-814	QL	3.1	1	6.3	-1	1.3	1	0.496	2	2.419	0	4.879	-2	2179	44	3.5
30334.8	10000	41.8948	93.0966	-815	QL	2.9	1	6.3	-2	1.3	1	0.466	2	2.290	0	4.910	-2	2154	45	3.5
30334.9	10000	41.8948	93.0957	-814	QL	3.1	1	6.5	-1	1.2	0	0.469	2	2.590	1	5.520	-1	2148	45	3.5
30335.0	10000	41.8948	93.0948	-810	QL	2.9	1	7.0	0	1.2	0	0.420	1	2.517	1	5.998	0	2157	57	3.5
30335.1	10000	41.8948	93.0939	-810	QL	3.1	1	7.5	0	1.2	0	0.413	1	2.669	1	6.468	0	2149	54	3.5
30335.2	10000	41.8949	93.0930	-816	QL	2.9	1	7.6	1	1.2	0	0.374	0	2.358	1	6.314	0	2157	43	3.5
30335.3	10000	41.8949	93.0921	-818	QL	2.7	0	7.7	1	1.1	0	0.353	0	2.377	0	6.735	1	2160	51	3.5
30335.4	10000	41.8949	93.0912	-818	QL	2.7	0	8.2	1	1.1	0	0.329	0	2.384	0	7.237	2	2173	60	3.5
30335.5	10000	41.8949	93.0903	-819	QL	2.6	0	8.4	2	1.1	-1	0.315	-1	2.378	0	7.558	2	2170	52	3.5
30335.6	10000	41.8949	93.0894	-819	QL	2.2	-1	8.2	1	1.2	0	0.268	-1	1.833	-1	6.844	1	2171	44	3.5
30335.7	10000	41.8949	93.0885	-820	QL	2.1	-1	8.2	1	1.3	1	0.258	-1	1.688	-1	6.549	1	2174	53	3.5
30335.8	10000	41.8949	93.0876	-821	QL	1.9	-2	7.9	1	1.2	0	0.236	-2	1.535	-2	6.507	1	2165	44	3.5
30335.9	10000	41.8949	93.0867	-821	QL	2.2	-1	7.8	1	1.2	0	0.283	-1	1.811	-1	6.410	0	2177	42	3.5
30336.0	10000	41.8949	93.0858	-822	QL	2.1	-1	7.7	1	1.2	0	0.275	-1	1.748	-1	6.346	0	2177	34	3.5
30336.1	10000	41.8949	93.0849	-822	QL	2.3	-1	7.8	1	1.2	0	0.307	-1	1.899	-1	6.192	0	2179	55	3.5
30336.2	10000	41.8950	93.0840	-822	QL	2.5	-1	7.7	1	1.3	0	0.337	0	1.944	-1	5.761	-1	2197	51	3.5
30336.3	10000	41.8950	93.0831	-822	QL	2.8	-1	7.6	1	1.2	0	0.383	0	2.250	-1	5.868	-1	2201	53	3.5
30336.4	10000	41.8950	93.0823	-823	QL	2.2	-1	6.8	1	1.2	0	0.469	2	2.679	-1	5.713	-1	2201	49	3.5
30336.5	10000	41.8950	93.0814	-823	QL	2.4	-1	7.0	1	1.2	0	0.502	2	2.797	-1	5.577	-1	2212	42	3.5
30336.6	10000	41.8950	93.0805	-823	QL	2.1	-1	6.9	1	1.2	0	0.451	2	2.606	-1	5.781	-1	2188	39	3.5
30336.7	10000	41.8950	93.0796	-823	QL	2.2	-1	6.6	1	1.2	0	0.483	2	2.665	-1	5.517	-1	2187	34	3.5
30336.8	10000	41.8950	93.0787	-823	QL	2.0	-1	6.3	1	1.2	0	0.451	2	2.396	-1	5.308	-1	2156	42	3.5
30336.9	10000	41.8950	93.0778	-822	QL	2.2	-1	6.6	1	1.2	0	0.453	2	2.443	-1	5.398	-1	2150	37	3.5
30337.0	10000	41.8950	93.0769	-817	QL	2.0	-1	6.3	1	1.2	0	0.464	2	2.404	-1	5.187	-2	2166	45	3.5
30337.1	10000	41.8950	93.0760	-814	QL	1.8	-1	6.6	1	1.2	0	0.365	1	1.955	-1	5.363	-1	2159	45	3.5
30337.2	10000	41.8950	93.0751	-820	QL	2.0	-1	6.9	1	1.2	0	0.325	1	1.819	-1	5.594	-1	2157	49	3.5
30337.3	10000	41.8951	93.0742	-824	QL	2.0	-1	6.7	1	1.3	0	0.341	1	1.872	-1	5.486	-1	2156	37	3.5
30337.4	10000	41.8951	93.0733	-825	QL	1.9	-1	6.9	1	1.3	0	0.331	1	1.810	-1	5.468	-1	2151	51	3.5
30337.5	10000	41.8951	93.0724	-825	QL	2.1	-1	7.5	1	1.3	0	0.359	1	2.154	0	6.001	0	2187	49	3.5
30337.6	10000	41.8951	93.0715	-825	QL	2.1	-1	7.7	1	1.2	0	0.356	1	2.176	0	6.107	0	2194	49	3.5
30337.7	10000	41.8951	93.0706	-825	QL	2.3	-1	7.9	1	1.2	0	0.348	1	2.347	1	6.744	1	2183	41	3.5
30337.8	10000	41.8951	93.0697	-826	QL	2.4	-1	7.4	1	1.1	0	0.393	1	2.603	1	6.622	1	2181	52	3.5
30337.9	10000	41.8951	93.0688	-826	QL	2.2	-1	6.9	1	1.2	0	0.414	1	2.534	1	6.117	0	2180	54	3.6
30338.0	10000	41.8951	93.0679	-826	QL	2.1	-1	7.0	1	1.2	0	0.392	1	2.316	0	5.906	0	2193	56	3.6
30338.1	10000	41.8951	93.0671	-826	QL	1.9	-1	6.8	1	1.2	0	0.383	1	2.214	-1	5.785	-1	2202	49	3.6
30338.2	10000	41.8951	93.0662	-827	QL	1.7	-1	6.6	1	1.2	0	0.396	1	2.229	-1	5.633	-1	2181	52	3.6
30338.3	10000	41.8952	93.0653	-827	QL	1.5	-1	6.5	1	1.2	0	0.373	1	2.057	-1	5.518	-1	2144	55	3.6
30338.4	10000	41.8952	93.0644	-827	QL	1.4	-1	6.6	1	1.2	0	0.346	1	1.931	-1	5.578	-1	2112	56	3.6
30338.5	10000	41.8952	93.0635	-828	QL	1.3	-1	6.6	1	1.2	0	0.361	1	2.020	-1	5.589	-1	2092	47	3.6
30338.6	10000	41.8952	93.0626	-828	QL	2.5	0	6.8	1	1.1	0	0.366	1	2.179	0	5.956	0	2072	60	3.6

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30338.7	10000	41.8952	93.0617	-828	QL	2.6	0	6.7	-1	1.0	-1	0.384	0	2.472	1	6.438	0	2060	58	3.6
30338.8	10000	41.8952	93.0608	-828	QL	2.5	0	6.4	-1	1.0	-2	0.390	0	2.552	1	6.549	1	2038	45	3.6
30338.9	10000	41.8952	93.0599	-829	QL	2.3	-1	6.4	-1	0.9	-2	0.366	0	2.447	1	6.694	1	2016	41	3.6
30339.0	10000	41.8952	93.0590	-829	QL	2.6	0	6.1	-2	0.9	-3	0.425	1	2.790	1	6.568	1	2006	49	3.6
30339.1	10000	41.8952	93.0581	-829	QL	2.7	0	6.2	-2	1.0	-2	0.442	1	2.845	1	6.436	0	2016	46	3.6
30339.2	10000	41.8952	93.0572	-830	QL	2.6	0	6.2	-2	0.9	-2	0.422	1	2.768	1	6.552	1	2017	57	3.6
30339.3	10000	41.8952	93.0563	-830	QL	2.5	0	6.0	-2	1.0	-2	0.415	1	2.504	1	6.033	0	2038	44	3.6
30339.4	10000	41.8953	93.0554	-830	QL	2.4	0	6.4	-1	1.1	-1	0.371	0	2.188	0	5.903	0	2044	52	3.6
30339.5	10000	41.8953	93.0546	-830	QL	2.5	0	6.8	-1	1.1	-1	0.368	0	2.306	0	6.267	0	2056	51	3.6
30339.6	10000	41.8953	93.0536	-831	QL	2.5	0	7.1	0	1.2	0	0.349	0	2.134	0	6.121	0	2107	54	3.6
30339.7	10000	41.8953	93.0527	-831	QL	2.1	-1	7.5	0	1.2	0	0.286	-1	1.804	-1	6.298	0	2148	49	3.6
30339.8	10000	41.8953	93.0519	-832	QL	2.0	-1	7.5	0	1.2	1	0.270	-1	1.635	-1	6.054	0	2164	48	3.6
30339.9	10000	41.8953	93.0510	-832	QL	2.1	-1	7.7	1	1.3	1	0.271	-1	1.601	-1	5.908	0	2201	45	3.5
30340.0	10000	41.8953	93.0501	-832	QL	2.1	-1	7.8	1	1.3	2	0.267	-1	1.577	-1	5.913	0	2207	61	3.5
30340.1	10000	41.8953	93.0492	-833	QL	2.1	-1	7.2	0	1.3	2	0.296	-1	1.613	-1	5.457	-1	2216	56	3.5
30340.2	10000	41.8953	93.0483	-833	QL	2.0	-1	7.3	0	1.4	2	0.280	-1	1.483	-2	5.303	-1	2233	49	3.5
30340.3	10000	41.8953	93.0474	-833	QL	2.0	-1	7.2	0	1.4	2	0.281	-1	1.477	-2	5.261	-2	2224	52	3.5
30340.4	10000	41.8954	93.0465	-833	QL	2.2	-1	7.5	0	1.4	2	0.296	-1	1.641	-1	5.544	-1	2225	53	3.5
30340.5	10000	41.8954	93.0456	-833	QL	2.0	-1	7.4	0	1.4	2	0.267	-1	1.457	-2	5.459	-1	2221	50	3.5
30340.6	10000	41.8954	93.0447	-834	QL	1.7	-2	7.2	0	1.3	2	0.242	-2	1.288	-2	5.313	-1	2216	51	3.5
30340.7	10000	41.8954	93.0438	-834	QL	2.0	-1	7.0	0	1.3	1	0.280	-1	1.529	-2	5.465	-1	2223	68	3.5
30340.8	10000	41.8954	93.0429	-834	QL	2.3	-1	7.5	0	1.2	1	0.301	-1	1.845	-1	6.136	0	2230	48	3.5
30340.9	10000	41.8954	93.0420	-835	QL	2.4	0	7.2	0	1.2	0	0.337	0	2.025	0	6.014	0	2231	44	3.5
30341.0	10000	41.8954	93.0411	-835	QL	2.2	-1	7.3	0	1.2	0	0.299	-1	1.833	-1	6.141	0	2225	54	3.5
30341.1	10000	41.8954	93.0402	-836	QL	2.0	-1	7.0	0	1.2	0	0.283	-1	1.688	-1	5.958	0	2220	53	3.5
30341.2	10000	41.8954	93.0393	-836	QL	2.4	-1	7.2	0	1.1	0	0.326	0	2.062	0	6.317	0	2220	54	3.5
30341.3	10000	41.8954	93.0385	-837	QL	2.5	-1	7.5	0	1.1	0	0.346	0	2.288	0	6.607	1	2205	62	3.5
30341.4	10000	41.8954	93.0376	-838	QL	2.5	-1	7.6	0	1.2	0	0.332	0	2.173	0	6.544	1	2196	41	3.5
30341.5	10000	41.8955	93.0367	-838	QL	2.4	-1	7.3	0	1.2	0	0.326	0	2.089	0	6.401	1	2199	50	3.5
30341.6	10000	41.8955	93.0358	-839	QL	2.3	-1	7.6	0	1.2	0	0.308	0	2.017	0	6.552	1	2182	46	3.5
30341.7	10000	41.8955	93.0349	-840	QL	2.6	-1	7.5	0	1.2	0	0.347	0	2.300	0	6.626	1	2174	39	3.5
30341.8	10000	41.8955	93.0340	-841	QL	2.9	-1	7.7	0	1.2	0	0.379	0	2.488	0	6.560	1	2176	49	3.5
30341.9	10000	41.8955	93.0331	-841	QL	2.5	-1	7.9	0	1.2	0	0.327	0	2.146	0	6.556	1	2173	38	3.5
30342.0	10000	41.8955	93.0322	-841	QL	2.4	-1	7.8	0	1.2	0	0.311	-1	2.017	0	6.483	0	2182	48	3.5
30342.1	10000	41.8955	93.0313	-842	QL	2.4	-1	8.3	0	1.2	0	0.292	-1	2.014	0	6.899	1	2188	50	3.5
30342.2	10000	41.8955	93.0304	-843	QL	2.5	-1	8.3	0	1.2	0	0.293	-1	2.004	0	6.837	1	2191	45	3.5
30342.3	10000	41.8955	93.0295	-844	QL	2.4	-1	8.3	0	1.2	0	0.294	-1	2.150	0	7.309	1	2213	48	3.5
30342.4	10000	41.8955	93.0286	-845	QL	2.4	-1	8.1	0	1.2	0	0.288	-1	2.046	0	7.106	1	2203	43	3.5
30342.5	10000	41.8955	93.0277	-846	QL	2.1	-1	8.1	0	1.2	0	0.258	-1	1.836	-1	7.104	1	2196	37	3.5
30342.6	10000	41.8956	93.0268	-846	QL	2.4	-1	7.7	0	1.2	0	0.310	-1	2.093	0	6.744	1	2201	45	3.5
30342.7	10000	41.8956	93.0259	-847	QL	2.4	-1	7.7	0	1.2	0	0.306	-1	2.003	0	6.538	1	2188	39	3.5
30342.8	10000	41.8956	93.0250	-848	QL	2.5	-1	7.7	0	1.2	0	0.340	-1	2.120	0	6.228	1	2171	46	3.5
30342.9	10000	41.8956	93.0241	-848	QL	2.4	-1	7.7	0	1.2	0	0.319	-1	2.043	0	6.412	1	2156	46	3.4
30343.0	10000	41.8956	93.0233	-849	QL	2.2	-1	7.4	0	1.2	0	0.296	-1	1.852	-1	6.257	0	2133	58	3.4
30343.1	10000	41.8956	93.0224	-850	QL	2.5	-1	7.4	0	1.2	0	0.324	-1	1.923	-1	5.936	0	2142	46	3.4
30343.2	10000	41.8956	93.0215	-851	QL	2.5	-1	7.0	0	1.3	0	0.352	-1	1.971	-1	5.591	0	2139	36	3.4
30343.3	10000	41.8956	93.0206	-852	QL	2.7	-1	7.5	0	1.3	1	0.361	-1	2.102	-1	5.982	0	2136	46	3.4
30343.4	10000	41.8956	93.0197	-853	QL	2.6	-1	7.7	0	1.2	1	0.334	-1	2.276	-1	6.308	0	2135	41	3.4
30343.5	10000	41.8956	93.0188	-855	QL	2.4	-1	7.7	0	1.2	1	0.319	-1	2.088	-1	6.342	0	2135	60	3.4
30343.6	10000	41.8956	93.0179	-855	QL	2.4	-1	7.5	0	1.2	1	0.318	-1	2.085	-1	6.365	0	2122	47	3.4
30343.7	10000	41.8957	93.0170	-857	QL	2.4	-1	7.9	0	1.1	1	0.301	-1	2.089	-1	6.944	1	2125	45	3.4
30343.8	10000	41.8957	93.0161	-858	QL	2.4	-1	7.9	0	1.1	1	0.301	-1	2.089	-1	6.944	1	2116	40	3.4

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30343.9	10000	41.8957	93.0152	-859	QL	2.5	0	8.2	1	1.1	-1	0.301	-1	2.228	0	7.411	2	2118	43	3.4
30344.0	10000	41.8957	93.0143	-860	QL	2.3	-1	8.7	2	1.2	0	0.269	-1	2.008	0	7.469	2	2127	52	3.4
30344.1	10000	41.8957	93.0134	-861	QL	2.3	-1	9.2	3	1.2	0	0.245	-2	1.937	-1	7.892	3	2135	50	3.4
30344.2	10000	41.8957	93.0125	-862	QL	2.3	-1	9.1	3	1.2	0	0.248	-2	1.963	-1	7.926	3	2137	63	3.4
30344.3	10000	41.8957	93.0116	-863	QL	2.7	0	9.0	3	1.1	0	0.299	-1	2.378	0	7.956	3	2155	49	3.4
30344.4	10000	41.8957	93.0107	-864	QL	3.0	1	8.8	2	1.1	-1	0.344	0	2.690	1	7.810	3	2152	51	3.4
30344.5	10000	41.8957	93.0098	-866	QL	3.0	1	8.8	2	1.2	0	0.335	0	2.570	1	7.669	2	2170	44	3.3
30344.6	10000	41.8957	93.0089	-866	QL	2.9	1	8.6	2	1.2	0	0.338	0	2.474	1	7.326	2	2172	44	3.3
30344.7	10000	41.8958	93.0081	-867	QL	2.9	1	7.7	1	1.3	0	0.378	0	2.506	1	6.623	1	2160	44	3.3
30344.8	10000	41.8958	93.0072	-869	QL	3.1	1	7.2	0	1.2	0	0.427	1	2.610	1	6.107	0	2169	39	3.3
30344.9	10000	41.8958	93.0063	-870	QL	3.2	1	7.2	0	1.2	0	0.448	1	2.675	1	5.972	0	2180	59	3.3
30345.0	10000	41.8958	93.0054	-871	QL	2.9	1	7.1	1	1.2	1	0.405	1	2.288	0	5.652	-1	2184	47	3.3
30345.1	10000	41.8958	93.0045	-872	QL	2.6	0	7.4	0	1.2	1	0.351	0	2.093	0	5.969	0	2198	55	3.3
30345.2	10000	41.8958	93.0036	-874	QL	2.4	0	7.2	0	1.3	2	0.332	0	1.790	-1	5.392	-1	2202	41	3.3
30345.3	10000	41.8958	93.0027	-875	QL	2.4	0	7.3	0	1.3	2	0.328	0	1.799	-1	5.491	-1	2201	45	3.3
30345.4	10000	41.8958	93.0018	-875	QL	2.3	-1	7.7	1	1.3	1	0.305	-1	1.773	-1	5.817	-1	2204	52	3.3
30345.5	10000	41.8958	93.0009	-877	QL	2.2	-1	7.9	1	1.3	1	0.275	-1	1.660	-1	6.043	0	2188	38	3.3
30345.6	10000	41.8958	93.0000	-878	QL	2.2	-1	7.9	1	1.3	1	0.276	-1	1.717	-1	6.226	0	2181	54	3.3
30345.7	10000	41.8958	92.9991	-879	QL	2.3	-1	7.6	1	1.3	1	0.301	-1	1.797	-1	5.961	0	2168	46	3.3
30345.8	10000	41.8959	92.9982	-879	QL	2.4	-1	7.1	0	1.3	1	0.332	0	1.807	-1	5.435	-1	2170	46	3.3
30345.9	10000	41.8959	92.9973	-876	QL	2.5	0	7.3	0	1.3	1	0.336	0	1.947	-1	5.792	-1	2161	50	3.3
30346.0	10000	41.8959	92.9964	-871	QL	2.5	0	7.3	0	1.2	1	0.348	0	2.039	0	5.855	-1	2150	32	3.3
30346.1	10000	41.8959	92.9955	-877	QL	2.8	0	7.2	0	1.2	1	0.384	0	2.266	0	5.894	-1	2151	36	3.3
30346.2	10000	41.8959	92.9946	-884	QL	3.1	1	6.7	-1	1.3	1	0.458	1	2.454	1	5.356	-1	2166	44	3.3
30346.3	10000	41.8959	92.9937	-885	QL	3.0	1	6.7	0	1.3	1	0.449	1	2.328	1	5.180	-2	2160	59	3.3
30346.4	10000	41.8959	92.9929	-886	QL	3.0	1	6.8	0	1.3	1	0.451	1	2.428	1	5.389	-1	2166	55	3.3
30346.5	10000	41.8959	92.9920	-887	QL	3.0	1	7.0	0	1.3	1	0.428	1	2.332	1	5.443	-1	2162	47	3.3
30346.6	10000	41.8959	92.9911	-888	QL	3.0	1	6.8	0	1.3	1	0.455	1	2.456	1	5.398	-1	2168	55	3.3
30346.7	10000	41.8959	92.9902	-888	QL	2.9	1	6.8	0	1.3	1	0.441	1	2.356	1	5.340	-1	2182	46	3.3
30346.8	10000	41.8959	92.9893	-889	QL	2.9	1	6.9	0	1.3	1	0.439	1	2.330	1	5.304	-1	2174	48	3.3
30346.9	10000	41.8960	92.9884	-890	QL	2.8	1	7.1	0	1.3	1	0.411	1	2.308	1	5.612	-1	2154	41	3.3
30347.0	10000	41.8960	92.9875	-891	QL	2.8	1	7.0	0	1.3	1	0.413	1	2.304	1	5.582	-1	2160	39	3.3
30347.1	10000	41.8960	92.9866	-892	QL	2.8	1	7.0	0	1.3	1	0.413	1	2.322	1	5.622	-1	2146	35	3.3
30347.2	10000	41.8960	92.9857	-893	QL	2.8	1	7.8	1	1.3	1	0.353	0	2.265	1	6.410	0	2138	61	3.3
30347.3	10000	41.8960	92.9848	-894	QL	2.7	1	7.5	0	1.3	1	0.361	0	2.294	1	6.356	0	2131	39	3.3
30347.4	10000	41.8960	92.9839	-894	QL	2.6	1	7.5	0	1.3	1	0.371	0	2.274	1	6.124	0	2138	47	3.3
30347.5	10000	41.8960	92.9830	-895	QL	2.7	1	7.3	0	1.3	1	0.363	0	2.200	1	6.052	0	2139	45	3.3
30347.6	10000	41.8960	92.9821	-896	QL	2.8	1	7.2	0	1.3	1	0.370	0	2.241	1	6.058	0	2136	35	3.3
30347.7	10000	41.8960	92.9812	-896	QL	2.8	1	7.1	0	1.3	1	0.391	0	2.330	1	5.962	0	2127	46	3.3
30347.8	10000	41.8960	92.9803	-896	QL	2.6	1	6.9	0	1.3	1	0.370	0	2.164	1	5.843	-1	2126	52	3.3
30347.9	10000	41.8960	92.9794	-896	QL	2.6	1	6.6	0	1.3	1	0.464	1	2.356	1	5.071	-2	2128	38	3.3
30348.0	10000	41.8960	92.9785	-893	QL	2.6	1	6.5	0	1.3	1	0.465	1	2.364	1	5.089	-2	2117	67	3.3
30348.1	10000	41.8961	92.9777	-895	QL	2.6	1	6.6	0	1.3	1	0.454	1	2.481	1	5.459	-1	2121	49	3.3
30348.2	10000	41.8961	92.9768	-898	QL	2.6	1	6.6	0	1.3	1	0.443	1	2.504	1	5.648	-1	2116	44	3.3
30348.3	10000	41.8961	92.9759	-899	QL	2.7	1	6.7	0	1.3	1	0.426	1	2.387	1	5.597	-1	2128	44	3.3
30348.4	10000	41.8961	92.9750	-900	QL	2.7	1	6.8	0	1.3	1	0.387	1	2.305	1	5.955	-1	2139	52	3.3
30348.5	10000	41.8961	92.9741	-900	QL	2.7	1	7.0	0	1.3	1	0.402	1	2.493	1	6.203	-1	2142	49	3.3
30348.6	10000	41.8961	92.9732	-900	QL	2.7	1	7.3	0	1.3	1	0.392	1	2.530	1	6.454	-1	2139	38	3.3
30348.7	10000	41.8961	92.9723	-900	QL	2.7	1	7.3	0	1.3	1	0.387	1	2.551	1	6.590	-1	2141	41	3.3
30348.8	10000	41.8961	92.9714	-900	QL	2.7	1	7.5	0	1.3	1	0.374	1	2.528	1	6.761	-1	2111	47	3.4
30348.9	10000	41.8961	92.9705	-900	QL	2.6	1	7.7	0	1.3	1	0.353	1	2.349	1	6.662	-1	2105	51	3.4
30349.0	10000	41.8961	92.9696	-901	QL	2.8	1	7.7	0	1.3	1	0.363	1	2.507	1	6.913	-1	2100	36	3.4

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30349.1	10000	41.8961	92.9687	-902	QL	2.8	1	7.4	0	1.1	0	0.382	0	2.475	1	6.481	0	2103	60	3.4
30349.2	10000	41.8961	92.9678	-902	QL	2.9	1	7.7	1	1.2	0	0.372	0	2.396	0	6.436	0	2112	43	3.4
30349.3	10000	41.8962	92.9669	-902	QL	2.6	0	7.6	1	1.2	0	0.342	0	2.153	0	6.291	0	2114	45	3.4
30349.4	10000	41.8962	92.9660	-902	QL	2.6	0	7.3	0	1.2	0	0.353	0	2.118	0	6.003	0	2130	48	3.4
30349.5	10000	41.8962	92.9651	-903	QL	2.5	0	7.1	0	1.3	1	0.358	0	2.005	0	5.602	-1	2146	47	3.4
30349.6	10000	41.8962	92.9642	-903	QL	2.7	0	7.0	0	1.3	1	0.386	0	2.166	0	5.608	-1	2161	45	3.4
30349.7	10000	41.8962	92.9633	-903	QL	2.9	1	7.0	0	1.3	1	0.411	1	2.270	0	5.517	-1	2180	45	3.4
30349.8	10000	41.8962	92.9624	-903	QL	2.9	1	7.2	0	1.2	0	0.398	1	2.388	0	6.005	0	2175	40	3.4
30349.9	10000	41.8962	92.9616	-903	QL	2.9	1	7.0	0	1.2	0	0.418	1	2.442	1	5.837	-1	2181	38	3.4
30350.0	10000	41.8962	92.9607	-903	QL	3.1	1	7.1	0	1.2	0	0.434	1	2.695	1	6.202	0	2196	40	3.4
30350.1	10000	41.8962	92.9598	-903	QL	3.1	1	7.3	0	1.1	0	0.431	1	2.763	1	6.509	0	2200	50	3.4
30350.2	10000	41.8962	92.9589	-902	QL	3.6	2	7.4	0	1.2	0	0.484	2	3.117	2	6.439	0	2213	46	3.4
30350.3	10000	41.8962	92.9580	-902	QL	3.8	2	7.5	0	1.1	0	0.505	2	3.292	3	6.522	1	2222	47	3.4
30350.4	10000	41.8963	92.9571	-902	QL	3.8	2	7.2	0	1.1	-1	0.522	2	3.386	3	6.490	0	2222	47	3.4
30350.5	10000	41.8963	92.9562	-902	QL	3.9	2	7.2	0	1.2	0	0.546	3	3.419	3	6.268	0	2220	52	3.4
30350.6	10000	41.8963	92.9552	-901	QL	3.7	2	7.4	0	1.1	-1	0.508	2	3.339	3	6.574	1	2212	36	3.4
30350.7	10000	41.8963	92.9543	-901	QL	4.1	2	7.5	0	1.1	-1	0.545	3	3.685	3	6.756	1	2204	46	3.4
30350.8	10000	41.8963	92.9534	-902	QL	4.1	2	7.4	0	1.1	-1	0.557	3	3.675	3	6.594	1	2179	40	3.4
30350.9	10000	41.8963	92.9525	-902	QL	3.7	2	7.3	0	1.1	-1	0.506	2	3.430	3	6.782	1	2161	55	3.4
30351.0	10000	41.8963	92.9516	-904	QL	3.6	2	7.3	0	1.1	-1	0.488	2	3.297	3	6.750	1	2154	51	3.4
30351.1	10000	41.8963	92.9507	-903	QL	3.4	2	7.6	1	1.1	-1	0.448	1	3.129	2	6.978	1	2144	50	3.4
30351.2	10000	41.8964	92.9498	-903	QL	3.2	1	7.5	0	1.1	-1	0.423	1	2.968	2	7.019	1	2159	43	3.4
30351.3	10000	41.8964	92.9489	-902	QL	3.1	1	7.4	0	1.1	-1	0.420	1	2.870	2	6.834	1	2162	47	3.4
30351.4	10000	41.8964	92.9480	-901	QL	2.7	1	7.2	0	1.2	0	0.374	0	2.321	2	6.213	0	2160	46	3.4
30351.5	10000	41.8964	92.9471	-901	QL	2.6	1	7.3	0	1.2	0	0.362	0	2.231	2	6.155	0	2164	47	3.4
30351.6	10000	41.8964	92.9462	-900	QL	2.7	1	7.4	0	1.2	0	0.362	0	2.252	2	6.229	0	2169	59	3.4
30351.7	10000	41.8964	92.9453	-900	QL	2.5	1	7.5	0	1.2	1	0.329	0	1.992	-1	6.062	0	2180	46	3.4
30351.8	10000	41.8964	92.9444	-901	QL	2.4	0	7.5	0	1.3	1	0.315	-1	1.883	-1	5.969	0	2186	48	3.4
30351.9	10000	41.8964	92.9435	-901	QL	2.4	0	7.5	0	1.3	1	0.322	-1	1.866	-1	5.792	-1	2179	48	3.4
30352.0	10000	41.8965	92.9426	-901	QL	2.4	0	7.4	0	1.3	1	0.320	-1	1.767	-1	5.520	-1	2185	51	3.4
30352.1	10000	41.8965	92.9417	-901	QL	2.5	0	7.7	1	1.4	1	0.324	-1	1.815	-1	5.608	-1	2184	30	3.4
30352.2	10000	41.8965	92.9407	-900	QL	2.4	0	7.6	1	1.4	1	0.310	-1	1.726	-1	5.571	-1	2199	44	3.4
30352.3	10000	41.8965	92.9398	-899	QL	2.4	0	7.5	0	1.3	1	0.326	0	1.816	-1	5.578	-1	2187	55	3.4
30352.4	10000	41.8965	92.9389	-899	QL	2.5	0	7.5	0	1.3	1	0.334	0	1.899	-1	5.681	-1	2170	48	3.4
30352.5	10000	41.8965	92.9380	-898	QL	2.5	0	7.2	0	1.3	1	0.353	0	1.919	-1	5.440	-1	2167	48	3.4
30352.6	10000	41.8965	92.9371	-894	QL	2.7	1	6.7	-1	1.3	1	0.407	1	2.126	0	5.228	-2	2158	42	3.4
30352.7	10000	41.8965	92.9362	-891	QL	2.7	1	6.9	-1	1.3	1	0.398	1	2.178	0	5.474	-1	2153	56	3.4
30352.8	10000	41.8966	92.9353	-892	QL	2.7	1	6.9	-1	1.2	1	0.391	0	2.198	0	5.620	-1	2162	35	3.4
30352.9	10000	41.8966	92.9344	-895	QL	2.9	1	7.3	0	1.2	1	0.394	1	2.359	0	5.980	0	2183	49	3.4
30353.0	10000	41.8966	92.9335	-895	QL	2.7	1	7.2	0	1.3	1	0.371	0	2.115	0	5.697	-1	2196	59	3.4
30353.1	10000	41.8966	92.9326	-895	QL	2.7	1	7.2	0	1.2	1	0.376	0	2.207	0	5.876	-1	2200	51	3.4
30353.2	10000	41.8966	92.9317	-894	QL	2.6	1	7.0	0	1.2	1	0.372	0	2.138	0	5.742	-1	2190	45	3.4
30353.3	10000	41.8966	92.9308	-893	QL	2.7	1	7.2	0	1.2	1	0.371	0	2.169	0	5.839	-1	2194	51	3.4
30353.4	10000	41.8966	92.9299	-892	QL	3.0	2	7.3	0	1.2	1	0.414	1	2.429	1	5.871	-1	2214	41	3.4
30353.5	10000	41.8966	92.9290	-892	QL	3.2	1	7.2	0	1.2	1	0.447	1	2.740	1	6.133	0	2199	49	3.4
30353.6	10000	41.8967	92.9280	-891	QL	3.1	1	7.0	0	1.2	1	0.446	1	2.614	1	5.863	-1	2179	44	3.4
30353.7	10000	41.8967	92.9271	-889	QL	3.2	1	6.9	-1	1.2	1	0.443	1	2.645	1	5.972	0	2186	41	3.4
30353.8	10000	41.8967	92.9262	-886	QL	3.5	2	7.3	0	1.2	1	0.472	2	2.672	1	5.666	-1	2193	49	3.4
30353.9	10000	41.8967	92.9253	-882	QL	3.2	1	7.7	0	1.2	1	0.480	2	2.974	2	6.193	0	2198	40	3.4
30354.0	10000	41.8967	92.9244	-885	QL	2.9	1	7.6	0	1.2	1	0.415	1	2.712	1	6.533	1	2209	42	3.4
30354.1	10000	41.8967	92.9235	-886	QL	2.6	0	7.5	0	1.3	1	0.388	1	2.444	1	6.301	0	2182	55	3.4
30354.2	10000	41.8967	92.9226	-886	QL	2.6	0	7.5	0	1.3	1	0.351	0	2.044	0	5.819	-1	2188	43	3.4

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30354.3	10000	41.8968	92.9217	-885	QL	2.5	0	7.4	0	1.3	1	0.341	0	1.986	-1	5.816	-1	2170	41	3.4
30354.4	10000	41.8968	92.9208	-884	QL	2.7	0	7.5	0	1.3	1	0.363	0	2.152	0	5.934	0	2150	52	3.4
30354.5	10000	41.8968	92.9199	-882	QL	2.6	0	7.5	0	1.2	1	0.350	0	2.107	0	6.013	0	2136	41	3.4
30354.6	10000	41.8968	92.9190	-881	QL	2.6	0	7.5	0	1.3	1	0.350	0	2.083	0	5.955	0	2133	58	3.4
30354.7	10000	41.8968	92.9181	-879	QL	2.7	0	7.2	0	1.3	1	0.369	0	2.125	0	5.764	-1	2132	49	3.4
30354.8	10000	41.8968	92.9172	-878	QL	2.7	0	7.3	0	1.2	1	0.377	0	2.227	0	5.914	0	2140	55	3.4
30354.9	10000	41.8968	92.9163	-877	QL	2.8	1	7.4	0	1.2	0	0.381	0	2.303	0	6.038	0	2141	55	3.4
30355.0	10000	41.8968	92.9153	-875	QL	2.9	1	7.6	0	1.2	0	0.378	0	2.400	0	6.342	0	2157	48	3.4
30355.1	10000	41.8968	92.9144	-873	QL	3.0	1	7.5	0	1.2	0	0.395	1	2.524	1	6.393	0	2171	38	3.4
30355.2	10000	41.8969	92.9135	-873	QL	3.1	1	7.4	0	1.2	0	0.412	1	2.582	1	6.266	0	2194	45	3.4
30355.3	10000	41.8969	92.9126	-873	QL	3.2	1	7.4	0	1.2	0	0.427	1	2.683	1	6.281	0	2192	30	3.4
30355.4	10000	41.8969	92.9117	-872	QL	3.0	1	7.2	0	1.1	-1	0.414	1	2.666	1	6.442	0	2169	40	3.4
30355.5	10000	41.8969	92.9108	-871	QL	3.1	1	7.2	0	1.1	-1	0.425	1	2.736	1	6.434	0	2170	41	3.4
30355.6	10000	41.8969	92.9099	-870	QL	3.1	1	6.9	0	1.1	-1	0.452	1	2.825	1	6.248	0	2161	41	3.4
30355.7	10000	41.8969	92.9090	-869	QL	3.0	1	6.3	-2	1.1	-1	0.480	2	2.714	1	5.658	-1	2152	50	3.4
30355.8	10000	41.8969	92.9081	-869	QL	2.6	0	6.3	-2	1.2	0	0.417	1	2.239	0	5.366	-1	2154	38	3.4
30355.9	10000	41.8969	92.9072	-868	QL	2.7	0	6.5	-1	1.1	0	0.411	1	2.382	0	5.789	-1	2148	43	3.4
30356.0	10000	41.8969	92.9063	-868	QL	2.5	0	6.3	-1	1.2	0	0.401	1	2.164	0	5.397	-1	2149	60	3.4
30356.1	10000	41.8970	92.9054	-867	QL	2.9	1	6.5	-1	1.2	0	0.442	1	2.339	0	5.288	-2	2171	65	3.4
30356.2	10000	41.8970	92.9045	-867	QL	2.6	0	6.7	-1	1.2	0	0.397	1	2.211	0	5.569	-1	2158	51	3.4
30356.3	10000	41.8970	92.9036	-867	QL	2.5	0	6.9	-1	1.2	0	0.365	0	2.150	0	5.886	-1	2164	46	3.4
30356.4	10000	41.8970	92.9026	-867	QL	2.5	0	7.5	0	1.2	0	0.328	0	2.034	0	6.203	0	2159	50	3.4
30356.5	10000	41.8970	92.9017	-865	QL	2.6	0	7.5	0	1.2	0	0.353	0	2.256	0	6.388	0	2155	51	3.4
30356.6	10000	41.8970	92.9008	-862	QL	2.4	0	7.2	0	1.2	0	0.339	0	2.014	0	5.936	0	2142	48	3.4
30356.7	10000	41.8970	92.8999	-862	QL	2.2	-1	7.4	0	1.2	0	0.293	-1	1.802	-1	6.141	0	2136	40	3.4
30356.8	10000	41.8970	92.8990	-866	QL	1.8	-2	7.4	0	1.2	0	0.242	-2	1.466	-2	6.063	0	2132	42	3.4
30356.9	10000	41.8971	92.8981	-868	QL	1.9	-1	7.4	0	1.2	0	0.285	-1	1.690	-1	5.922	0	2151	43	3.4
30357.0	10000	41.8971	92.8972	-869	QL	2.0	0	7.3	0	1.2	0	0.330	-1	1.912	-1	5.795	-1	2174	49	3.4
30357.1	10000	41.8971	92.8963	-870	QL	2.2	1	6.8	0	1.2	0	0.430	0	2.497	1	5.803	-1	2201	53	3.4
30357.2	10000	41.8971	92.8954	-871	QL	2.5	1	7.3	0	1.2	0	0.408	0	2.529	1	6.199	0	2222	39	3.4
30357.3	10000	41.8971	92.8945	-872	QL	2.4	1	7.4	0	1.2	0	0.428	0	2.653	1	6.194	0	2231	48	3.4
30357.4	10000	41.8971	92.8936	-873	QL	2.5	1	7.3	0	1.2	0	0.488	0	3.005	1	6.164	0	2250	45	3.4
30357.5	10000	41.8971	92.8927	-874	QL	2.7	1	7.1	0	1.2	0	0.521	0	3.193	1	6.132	0	2251	36	3.4
30357.6	10000	41.8971	92.8918	-875	QL	2.4	1	7.3	0	1.2	0	0.466	0	2.946	1	6.323	0	2255	45	3.4
30357.7	10000	41.8972	92.8909	-876	QL	2.4	1	7.3	0	1.1	0	0.468	0	3.037	1	6.484	0	2244	40	3.4
30357.8	10000	41.8972	92.8900	-878	QL	2.1	1	7.2	0	1.2	0	0.383	0	2.417	1	6.302	0	2237	41	3.4
30357.9	10000	41.8972	92.8891	-878	QL	2.8	1	6.9	0	1.1	-1	0.434	1	2.660	1	6.135	0	2225	49	3.4
30358.0	10000	41.8972	92.8881	-879	QL	2.7	1	7.1	0	1.2	0	0.398	1	2.457	1	6.175	0	2207	52	3.4
30358.1	10000	41.8972	92.8872	-880	QL	2.7	1	7.7	0	1.2	0	0.379	1	2.319	1	6.111	0	2189	57	3.4
30358.2	10000	41.8972	92.8863	-881	QL	2.7	1	7.7	0	1.2	0	0.356	1	2.374	1	6.666	0	2190	53	3.4
30358.3	10000	41.8972	92.8854	-882	QL	2.7	1	7.7	0	1.2	0	0.347	1	2.288	1	6.596	0	2175	53	3.4
30358.4	10000	41.8972	92.8845	-883	QL	2.4	1	7.4	0	1.2	0	0.320	1	2.003	1	6.254	0	2185	49	3.4
30358.5	10000	41.8973	92.8836	-883	QL	2.8	1	7.5	0	1.2	0	0.379	1	2.382	1	6.290	0	2189	44	3.4
30358.6	10000	41.8973	92.8827	-884	QL	2.8	1	7.2	0	1.2	0	0.387	1	2.311	1	5.973	0	2185	48	3.4
30358.7	10000	41.8973	92.8818	-884	QL	2.9	1	7.1	0	1.2	0	0.410	1	2.390	1	5.824	-1	2205	66	3.4
30358.8	10000	41.8973	92.8809	-884	QL	2.7	1	6.9	0	1.2	0	0.392	1	2.252	1	5.748	-1	2229	55	3.4
30358.9	10000	41.8973	92.8800	-886	QL	2.7	1	7.0	0	1.2	0	0.390	1	2.298	1	5.892	0	2237	36	3.5
30359.0	10000	41.8973	92.8791	-887	QL	2.8	1	6.8	0	1.2	0	0.415	1	2.377	1	5.730	-1	2255	46	3.5
30359.1	10000	41.8973	92.8782	-887	QL	2.7	1	7.1	0	1.2	0	0.413	1	2.524	1	6.112	-1	2247	57	3.5
30359.2	10000	41.8973	92.8773	-889	QL	2.7	1	7.4	0	1.1	0	0.370	1	2.379	1	6.427	-1	2254	51	3.5
30359.3	10000	41.8974	92.8764	-889	QL	2.5	1	7.5	0	1.2	0	0.335	1	2.172	1	6.482	-1	2284	42	3.5
30359.4	10000	41.8974	92.8754	-890	QL	2.7	0	7.4	0	1.2	0	0.359	0	2.272	0	6.336	0	2292	50	3.5

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30359.5	10000	41.8974	92.8745	-891	QL	2.8	1	8.0	1	1.2	0	0.350	0	2.359	0	6.743	1	2303	53	3.5
30359.6	10000	41.8974	92.8736	-891	QL	2.6	0	7.9	1	1.2	1	0.325	0	2.092	0	6.435	0	2310	40	3.5
30359.7	10000	41.8974	92.8727	-892	QL	2.8	0	7.8	1	1.2	1	0.362	0	2.265	0	6.253	0	2324	48	3.5
30359.8	10000	41.8974	92.8718	-893	QL	2.8	0	8.0	1	1.3	1	0.347	0	2.139	0	6.167	0	2337	41	3.5
30359.9	10000	41.8974	92.8709	-893	QL	2.8	0	7.6	1	1.3	1	0.365	0	2.180	0	5.970	0	2335	36	3.6
30360.0	10000	41.8974	92.8700	-894	QL	2.8	0	8.0	1	1.3	1	0.346	0	2.144	0	6.202	0	2319	47	3.6
30360.1	10000	41.8974	92.8691	-895	QL	2.9	1	8.3	2	1.2	0	0.348	0	2.367	0	6.800	1	2317	46	3.6
30360.2	10000	41.8975	92.8682	-895	QL	2.9	1	7.6	1	1.2	1	0.381	0	2.364	0	6.203	0	2303	49	3.6
30360.3	10000	41.8975	92.8673	-896	QL	3.0	1	7.1	0	1.2	0	0.424	1	2.492	1	5.873	-1	2291	51	3.6
30360.4	10000	41.8975	92.8664	-896	QL	3.1	1	7.2	0	1.2	0	0.424	1	2.548	1	6.004	0	2257	43	3.6
30360.5	10000	41.8975	92.8655	-897	QL	3.3	2	6.9	-1	1.1	-1	0.474	2	3.034	2	6.407	0	2229	56	3.6
30360.6	10000	41.8975	92.8646	-897	QL	3.3	2	7.1	0	1.1	-1	0.463	2	2.998	2	6.480	0	2212	36	3.6
30360.7	10000	41.8975	92.8637	-897	QL	3.5	2	6.8	-1	1.0	-2	0.517	2	3.602	3	6.973	1	2197	54	3.6
30360.8	10000	41.8975	92.8627	-897	QL	3.3	2	7.0	0	1.1	-1	0.469	2	3.103	2	6.616	1	2189	50	3.7
30360.9	10000	41.8975	92.8618	-897	QL	3.2	1	7.1	0	1.0	-2	0.454	1	3.219	2	7.095	2	2192	52	3.7
30361.0	10000	41.8975	92.8609	-897	QL	3.3	2	7.6	0	1.0	-2	0.435	1	3.373	3	7.759	3	2198	53	3.7
30361.1	10000	41.8976	92.8600	-898	QL	3.0	1	7.5	0	1.0	-2	0.402	1	3.109	2	7.737	3	2209	46	3.7
30361.2	10000	41.8976	92.8591	-897	QL	2.9	1	7.4	0	1.0	-1	0.395	1	2.819	1	7.142	2	2224	64	3.7
30361.3	10000	41.8976	92.8582	-897	QL	2.8	1	7.2	0	1.1	-1	0.394	1	2.568	1	6.521	1	2245	47	3.7
30361.4	10000	41.8976	92.8573	-896	QL	2.3	-1	7.5	0	1.2	0	0.312	-1	1.919	-1	6.152	0	2261	24	3.7
30361.5	10000	41.8976	92.8564	-895	QL	2.4	0	7.8	1	1.2	0	0.307	-1	1.981	-1	6.455	0	2288	38	3.7
30361.6	10000	41.8976	92.8555	-895	QL	2.1	-1	7.8	1	1.3	1	0.275	-1	1.643	-1	5.971	0	2279	51	3.7
30361.7	10000	41.8976	92.8546	-894	QL	2.1	-1	7.8	1	1.4	2	0.270	-1	1.533	-2	5.688	-1	2300	45	3.8
30361.8	10000	41.8976	92.8537	-894	QL	2.1	-1	7.9	1	1.4	3	0.265	-1	1.467	-2	5.536	-1	2316	43	3.8
30361.9	10000	41.8977	92.8528	-893	QL	2.2	-1	8.0	1	1.4	3	0.276	-1	1.531	-2	5.540	-1	2332	65	3.8
30362.0	10000	41.8977	92.8519	-892	QL	2.3	-1	8.3	2	1.4	2	0.282	-1	1.658	-1	5.869	-1	2323	48	3.8
30362.1	10000	41.8977	92.8510	-891	QL	2.6	0	7.8	1	1.4	2	0.332	0	1.835	-1	5.535	-1	2310	60	3.8
30362.2	10000	41.8977	92.8501	-890	QL	2.4	0	7.5	0	1.4	2	0.323	-1	1.735	-1	5.377	-1	2280	59	3.8
30362.3	10000	41.8977	92.8492	-888	QL	2.5	0	7.7	1	1.4	2	0.326	0	1.853	-1	5.686	-1	2281	47	3.8
30362.4	10000	41.8977	92.8482	-886	QL	2.4	0	7.5	0	1.3	2	0.316	-1	1.764	-1	5.578	-1	2257	41	3.8
30362.5	10000	41.8977	92.8473	-883	QL	2.4	-1	7.7	1	1.3	2	0.308	-1	1.749	-1	5.680	-1	2263	43	3.9
30362.6	10000	41.8977	92.8464	-882	QL	2.2	-1	7.6	1	1.3	2	0.286	-1	1.624	-1	5.676	-1	2254	45	3.9
30362.7	10000	41.8978	92.8455	-881	QL	2.0	-1	7.8	1	1.3	2	0.258	-1	1.513	-2	5.857	-1	2250	41	3.9
30362.8	10000	41.8978	92.8446	-880	QL	2.2	-1	7.9	1	1.4	2	0.274	-1	1.603	-1	5.855	-1	2271	59	3.9
30362.9	10000	41.8978	92.8437	-878	QL	2.1	-1	8.2	1	1.3	2	0.262	-1	1.638	-1	6.254	0	2267	49	3.9
30363.0	10000	41.8978	92.8428	-876	QL	2.4	-1	8.2	1	1.3	1	0.287	-1	1.808	-1	6.299	0	2269	59	3.9
30363.1	10000	41.8978	92.8419	-873	QL	2.6	0	8.0	1	1.3	1	0.323	-1	1.977	-1	6.112	0	2281	37	3.9
30363.2	10000	41.8978	92.8410	-871	QL	2.8	0	7.8	1	1.3	1	0.353	0	2.205	0	6.246	0	2261	38	3.9
30363.3	10000	41.8978	92.8401	-868	QL	3.0	1	7.9	1	1.2	1	0.377	0	2.421	0	6.430	0	2255	30	3.9
30363.4	10000	41.8978	92.8392	-866	QL	3.0	1	7.7	1	1.2	0	0.392	0	2.475	1	6.320	0	2250	50	3.9
30363.5	10000	41.8978	92.8383	-863	QL	2.8	1	7.8	1	1.2	0	0.363	0	2.381	0	6.555	1	2223	41	4.0
30363.6	10000	41.8979	92.8374	-861	QL	3.1	1	7.5	0	1.2	1	0.418	1	2.596	1	6.218	0	2223	40	4.0
30363.7	10000	41.8979	92.8365	-858	QL	3.0	1	7.3	0	1.2	1	0.407	1	2.518	1	6.185	0	2202	44	4.0
30363.8	10000	41.8979	92.8355	-856	QL	2.8	1	7.5	0	1.1	0	0.367	0	2.460	1	6.696	1	2180	41	4.0
30363.9	10000	41.8979	92.8346	-853	QL	2.7	0	7.6	0	1.1	-1	0.360	0	2.384	1	6.627	1	2174	40	4.0
30364.0	10000	41.8979	92.8337	-850	QL	2.4	0	7.4	0	1.2	0	0.328	0	2.056	0	6.258	0	2190	43	4.0
30364.1	10000	41.8979	92.8328	-847	QL	2.5	0	7.4	0	1.2	0	0.341	0	2.051	0	6.014	0	2212	52	4.0
30364.2	10000	41.8979	92.8319	-844	QL	2.6	0	7.4	0	1.2	0	0.358	0	2.179	0	6.081	0	2233	53	4.0
30364.3	10000	41.8979	92.8310	-842	QL	2.1	-1	7.4	0	1.3	-1	0.291	-1	1.689	-1	5.796	-1	2238	47	4.0
30364.4	10000	41.8979	92.8301	-839	QL	2.4	-1	7.6	1	1.3	-1	0.309	-1	1.792	-1	5.793	-1	2274	45	4.0
30364.5	10000	41.8980	92.8292	-836	QL	2.6	0	7.8	1	1.3	0	0.330	0	1.911	-1	5.801	-1	2284	47	4.0
30364.6	10000	41.8980	92.8283	-834	QL	2.7	0	7.5	0	1.3	2	0.363	0	2.062	0	5.681	-1	2295	45	4.0

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30364.7	10000	41.8980	92.8274	-831	QL	3.0	1	7.3	0	1.3	1	0.413	1	2.387	0	5.783	-1	2277	49	4.0
30364.8	10000	41.8980	92.8265	-829	QL	2.8	0	7.2	0	1.2	1	0.385	0	2.241	0	5.821	-1	2257	36	4.0
30364.9	10000	41.8980	92.8256	-826	QL	2.6	0	7.1	0	1.3	1	0.368	0	2.080	0	5.651	-1	2237	44	4.0
30365.0	10000	41.8980	92.8247	-824	QL	2.7	0	7.5	0	1.2	1	0.357	0	2.172	0	6.090	0	2247	51	4.0
30365.1	10000	41.8980	92.8238	-822	QL	2.5	0	7.2	0	1.2	0	0.351	0	2.109	0	6.014	0	2249	56	4.0
30365.2	10000	41.8980	92.8228	-820	QL	2.4	0	7.1	0	1.2	0	0.344	0	2.089	0	6.070	0	2259	67	4.0
30365.3	10000	41.8980	92.8219	-818	QL	2.3	-1	7.5	0	1.1	0	0.305	-1	1.988	-1	6.528	1	2274	45	4.0
30365.4	10000	41.8980	92.8210	-816	QL	1.9	-2	8.1	1	1.2	0	0.231	-2	1.560	-2	6.754	1	2289	46	4.0
30365.5	10000	41.8980	92.8201	-814	QL	2.2	-1	8.4	2	1.2	0	0.268	-1	1.915	-1	7.155	2	2303	48	4.0
30365.6	10000	41.8980	92.8192	-812	QL	2.5	0	8.4	2	1.2	0	0.298	-1	2.175	0	7.290	2	2326	47	4.0
30365.7	10000	41.8980	92.8183	-811	QL	2.7	0	8.0	1	1.2	0	0.340	0	2.353	0	6.925	1	2319	58	4.0
30365.8	10000	41.8980	92.8174	-810	QL	2.6	0	8.2	1	1.2	0	0.314	-1	2.217	0	7.065	1	2313	41	4.0
30365.9	10000	41.8980	92.8165	-809	QL	2.7	0	8.0	1	1.1	0	0.341	0	2.391	0	7.001	1	2315	50	4.0
30366.0	10000	41.8980	92.8156	-809	QL	3.0	1	8.0	1	1.2	0	0.377	0	2.555	1	6.780	1	2308	36	4.0
30366.1	10000	41.8980	92.8147	-809	QL	3.2	1	8.1	1	1.2	0	0.402	1	2.680	1	6.661	1	2314	37	4.0
30366.2	10000	41.8980	92.8138	-808	QL	3.0	1	7.9	1	1.2	0	0.387	0	2.508	1	6.479	0	2312	64	4.0
30366.3	10000	41.8980	92.8129	-807	QL	2.8	1	8.0	1	1.2	1	0.350	0	2.296	0	6.552	1	2317	35	4.0
30366.4	10000	41.8980	92.8120	-807	QL	2.7	0	8.0	1	1.3	1	0.343	0	2.184	0	6.367	0	2336	56	4.0
30366.5	10000	41.8980	92.8110	-807	QL	2.8	0	7.7	1	1.3	1	0.359	0	2.176	0	6.065	0	2322	60	4.0
30366.6	10000	41.8980	92.8101	-807	QL	2.5	0	7.7	1	1.3	1	0.327	0	1.929	-1	5.903	0	2318	49	4.0
30366.7	10000	41.8980	92.8092	-808	QL	2.2	-1	7.7	1	1.3	2	0.288	-1	1.636	-1	5.681	-1	2322	46	4.0
30366.8	10000	41.8980	92.8083	-808	QL	2.2	-1	7.0	0	1.3	1	0.314	-1	1.664	-1	5.297	-2	2293	42	4.0
30366.9	10000	41.8980	92.8074	-809	QL	2.1	-1	7.0	0	1.3	1	0.305	-1	1.625	-1	5.327	-1	2278	41	4.0
30367.0	10000	41.8980	92.8065	-810	QL	2.4	-1	7.3	0	1.3	1	0.335	0	1.844	-1	5.498	-1	2241	50	4.0
30367.1	10000	41.8980	92.8056	-810	QL	2.1	-1	7.3	0	1.3	1	0.290	-1	1.656	-1	5.703	-1	2216	41	4.0
30367.2	10000	41.8980	92.8047	-811	QL	2.3	-1	7.3	0	1.3	1	0.318	-1	1.818	-1	5.709	-1	2205	44	4.0
30367.3	10000	41.8980	92.8038	-811	QL	2.6	0	7.1	0	1.2	1	0.364	0	2.080	0	5.707	-1	2195	50	3.9
30367.4	10000	41.8980	92.8029	-812	QL	2.6	0	7.0	0	1.2	1	0.376	0	2.166	0	5.766	-1	2175	50	3.9
30367.5	10000	41.8980	92.8020	-813	QL	2.7	0	7.1	0	1.2	1	0.380	0	2.249	0	5.914	0	2177	46	3.9
30367.6	10000	41.8980	92.8010	-814	QL	2.9	1	7.2	0	1.2	1	0.401	1	2.346	0	5.848	-1	2190	44	3.9
30367.7	10000	41.8980	92.8001	-814	QL	2.9	1	7.0	0	1.2	1	0.418	1	2.356	0	5.633	-1	2211	46	3.9
30367.8	10000	41.8980	92.7992	-815	QL	3.3	2	7.2	0	1.2	1	0.455	1	2.662	1	5.854	-1	2232	56	3.9
30367.9	10000	41.8980	92.7983	-816	QL	3.0	1	7.7	0	1.3	1	0.398	1	2.420	0	6.088	0	2262	43	3.9
30368.0	10000	41.8980	92.7974	-816	QL	2.8	1	7.8	0	1.3	1	0.360	0	2.206	0	6.122	0	2272	62	3.9
30368.1	10000	41.8980	92.7965	-817	QL	2.9	1	8.1	1	1.3	1	0.364	0	2.269	0	6.241	0	2290	48	3.9
30368.2	10000	41.8980	92.7956	-817	QL	2.9	1	8.1	1	1.3	1	0.364	0	2.286	0	6.281	0	2312	65	3.9
30368.3	10000	41.8980	92.7947	-818	QL	3.0	1	7.8	1	1.3	1	0.388	0	2.437	0	6.274	0	2319	58	3.9
30368.4	10000	41.8980	92.7938	-818	QL	2.7	0	7.8	1	1.3	1	0.348	0	2.096	0	6.025	0	2324	38	3.9
30368.5	10000	41.8980	92.7929	-818	QL	2.6	0	7.8	1	1.3	1	0.331	0	2.058	0	6.211	0	2315	45	3.9
30368.6	10000	41.8980	92.7920	-818	QL	2.7	0	7.8	1	1.2	1	0.346	0	2.233	0	6.457	0	2299	50	3.8
30368.7	10000	41.8980	92.7910	-818	QL	2.7	0	7.9	1	1.2	1	0.341	0	2.249	0	6.593	1	2289	52	3.8
30368.8	10000	41.8980	92.7901	-818	QL	2.7	0	7.4	1	1.2	1	0.358	0	2.230	0	6.231	0	2251	51	3.8
30368.9	10000	41.8980	92.7892	-818	QL	2.5	0	7.3	1	1.2	1	0.347	0	2.121	0	6.103	0	2200	39	3.8
30369.0	10000	41.8980	92.7883	-818	QL	2.2	-1	7.2	1	1.2	1	0.310	-1	1.891	-1	6.104	0	2162	65	3.8
30369.1	10000	41.8980	92.7874	-817	QL	2.3	-1	7.3	1	1.2	1	0.318	-1	2.006	-1	6.304	0	2144	62	3.8
30369.2	10000	41.8979	92.7865	-817	QL	2.4	-1	6.9	1	1.2	1	0.345	0	2.044	0	5.929	0	2140	42	3.8
30369.3	10000	41.8979	92.7856	-816	QL	2.4	-1	6.9	1	1.2	1	0.343	0	1.983	-1	5.774	-1	2142	49	3.8
30369.4	10000	41.8979	92.7847	-814	QL	2.6	-1	6.9	1	1.2	1	0.391	0	2.151	-1	5.506	-1	2160	53	3.8
30369.5	10000	41.8979	92.7838	-814	QL	2.7	-1	6.7	1	1.2	1	0.390	0	2.289	-1	5.867	-1	2181	47	3.8
30369.6	10000	41.8979	92.7829	-814	QL	2.6	-1	6.7	1	1.2	1	0.382	0	2.160	-1	5.649	-1	2205	40	3.8
30369.7	10000	41.8979	92.7820	-812	QL	2.8	-1	6.7	1	1.2	1	0.420	1	2.296	-1	5.470	-1	2226	46	3.8
30369.8	10000	41.8979	92.7811	-811	QL	3.0	1	7.0	0	1.2	0	0.425	1	2.435	1	5.731	-1	2244	55	3.8

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30369.9	10000	41.8979	92.7802	-810	QL	2.9	1	7.1	0	1.3	1	0.406	1	2.232	0	5.502	-1	2259	48	3.7
30370.0	10000	41.8979	92.7792	-809	QL	2.0	1	6.8	-1	1.3	1	0.442	1	2.386	0	5.400	-1	2266	51	3.7
30370.1	10000	41.8979	92.7783	-808	QL	2.7	0	7.2	0	1.2	1	0.376	0	2.185	0	5.806	-1	2249	43	3.7
30370.2	10000	41.8979	92.7774	-807	QL	2.7	0	7.3	0	1.3	1	0.367	0	2.091	0	5.703	-1	2249	41	3.7
30370.3	10000	41.8979	92.7765	-805	QL	3.0	1	7.5	0	1.3	1	0.394	1	2.351	0	5.971	0	2251	48	3.7
30370.4	10000	41.8979	92.7756	-805	QL	2.9	1	7.5	0	1.2	0	0.385	0	2.394	0	6.225	0	2251	45	3.7
30370.5	10000	41.8979	92.7747	-802	QL	3.0	1	7.4	0	1.2	0	0.395	1	2.496	1	6.268	0	2245	43	3.7
30370.6	10000	41.8979	92.7738	-801	QL	3.1	1	7.4	0	1.1	-1	0.410	1	2.807	1	6.844	1	2200	58	3.7
30370.7	10000	41.8979	92.7729	-800	QL	3.2	1	7.1	0	1.1	-1	0.444	1	2.978	2	6.701	1	2162	38	3.7
30370.8	10000	41.8979	92.7720	-799	QL	3.3	2	6.4	-1	1.1	-1	0.511	2	3.124	2	6.119	0	2148	48	3.7
30370.9	10000	41.8979	92.7711	-798	QL	3.0	1	6.6	-1	1.0	-2	0.463	2	3.003	2	6.480	0	2136	51	3.7
30371.0	10000	41.8979	92.7702	-797	QL	3.1	1	6.7	-1	1.0	-2	0.460	1	3.160	2	6.877	1	2140	50	3.7
30371.1	10000	41.8979	92.7692	-796	QL	3.0	1	6.8	-1	1.0	-2	0.447	1	3.098	2	6.934	1	2134	56	3.7
30371.2	10000	41.8979	92.7683	-795	QL	3.0	1	6.4	-1	1.0	-2	0.477	2	2.977	2	6.243	0	2127	50	3.7
30371.3	10000	41.8979	92.7674	-794	QL	3.0	1	6.3	-1	1.1	-1	0.472	2	2.658	1	5.631	-1	2150	68	3.7
30371.4	10000	41.8979	92.7665	-794	QL	2.9	1	6.5	-1	1.1	0	0.439	1	2.512	1	5.721	-1	2156	60	3.7
30371.5	10000	41.8979	92.7656	-794	QL	2.8	1	6.8	-1	1.1	0	0.422	1	2.491	1	5.901	0	2175	49	3.7
30371.6	10000	41.8979	92.7647	-793	QL	3.1	1	6.5	-1	1.2	0	0.480	2	2.697	1	5.618	-1	2184	45	3.7
30371.7	10000	41.8979	92.7638	-793	QL	3.1	1	6.5	-1	1.2	0	0.472	2	2.623	1	5.559	-1	2187	54	3.6
30371.8	10000	41.8979	92.7629	-793	QL	3.1	1	6.9	-1	1.2	0	0.449	1	2.616	1	5.822	-1	2209	44	3.6
30371.9	10000	41.8979	92.7620	-793	QL	3.1	1	7.4	0	1.2	0	0.422	1	2.583	1	6.118	0	2232	53	3.6
30372.0	10000	41.8979	92.7611	-793	QL	3.3	2	7.3	0	1.1	0	0.449	1	2.866	2	6.390	0	2243	64	3.6
30372.1	10000	41.8979	92.7602	-793	QL	3.3	2	7.4	0	1.2	0	0.449	1	2.835	1	6.309	0	2282	39	3.6
30372.2	10000	41.8979	92.7592	-793	QL	3.3	2	7.4	0	1.2	0	0.449	1	2.853	1	6.359	0	2290	52	3.6
30372.3	10000	41.8979	92.7583	-793	QL	3.4	2	7.8	1	1.2	0	0.427	1	2.873	2	6.725	1	2305	46	3.6
30372.4	10000	41.8979	92.7574	-794	QL	3.2	1	8.0	1	1.2	0	0.400	1	2.634	1	6.588	1	2308	51	3.6
30372.5	10000	41.8979	92.7565	-795	QL	3.1	1	7.7	1	1.2	1	0.410	1	2.530	1	6.171	0	2310	39	3.6
30372.6	10000	41.8979	92.7556	-796	QL	2.9	1	7.6	0	1.3	1	0.382	0	2.293	0	6.003	0	2314	42	3.6
30372.7	10000	41.8979	92.7547	-796	QL	3.2	1	7.4	0	1.3	1	0.425	1	2.513	1	5.910	0	2306	36	3.6
30372.8	10000	41.8979	92.7538	-798	QL	3.0	1	7.4	0	1.2	1	0.413	1	2.472	1	5.987	0	2288	45	3.6
30372.9	10000	41.8979	92.7529	-799	QL	3.2	1	7.4	0	1.3	1	0.425	1	2.350	1	5.533	-1	2299	58	3.6
30373.0	10000	41.8979	92.7520	-800	QL	3.1	1	7.1	0	1.4	1	0.443	1	2.306	0	5.203	-2	2300	50	3.6
30373.1	10000	41.8979	92.7511	-801	QL	3.4	2	6.6	-1	1.3	1	0.517	2	2.540	1	4.911	-2	2305	52	3.6
30373.2	10000	41.8979	92.7502	-802	QL	3.5	2	6.5	-1	1.3	1	0.539	2	2.657	1	4.931	-2	2297	52	3.6
30373.3	10000	41.8979	92.7493	-804	QL	3.7	2	6.7	-1	1.3	1	0.552	2	2.725	1	4.940	-2	2288	47	3.6
30373.4	10000	41.8979	92.7484	-804	QL	3.5	2	7.2	0	1.4	1	0.490	2	2.578	1	5.259	-2	2303	44	3.6
30373.5	10000	41.8979	92.7474	-805	QL	3.3	2	7.2	0	1.3	1	0.465	2	2.502	1	5.381	-1	2299	54	3.7
30373.6	10000	41.8978	92.7465	-807	QL	3.2	1	7.2	0	1.3	1	0.451	1	2.546	1	5.652	-1	2303	53	3.7
30373.7	10000	41.8978	92.7456	-810	QL	3.3	1	7.2	0	1.2	1	0.450	1	2.627	1	5.837	-1	2295	45	3.7
30373.8	10000	41.8978	92.7447	-813	QL	3.1	1	7.6	1	1.2	1	0.410	1	2.654	1	6.477	0	2301	52	3.7
30373.9	10000	41.8978	92.7438	-814	QL	3.3	2	7.8	1	1.2	1	0.423	1	2.776	1	6.563	1	2303	57	3.7
30374.0	10000	41.8978	92.7429	-815	QL	3.1	1	7.7	1	1.1	1	0.408	1	2.724	1	6.677	1	2309	45	3.7
30374.1	10000	41.8978	92.7420	-817	QL	2.9	1	7.2	1	1.2	1	0.397	1	2.446	1	6.161	0	2308	50	3.7
30374.2	10000	41.8978	92.7411	-818	QL	3.0	2	7.3	1	1.2	1	0.416	1	2.460	1	5.917	-1	2321	50	3.7
30374.3	10000	41.8978	92.7402	-819	QL	3.2	2	7.2	1	1.2	1	0.438	1	2.646	1	6.047	0	2318	52	3.7
30374.4	10000	41.8978	92.7393	-821	QL	3.1	1	7.4	1	1.2	1	0.415	1	2.506	1	6.040	0	2339	61	3.7
30374.5	10000	41.8978	92.7384	-822	QL	3.0	1	8.0	1	1.3	1	0.376	0	2.318	1	6.158	0	2344	50	3.7
30374.6	10000	41.8978	92.7374	-823	QL	3.0	1	7.9	1	1.3	1	0.378	0	2.370	1	6.277	0	2345	60	3.7
30374.7	10000	41.8978	92.7365	-824	QL	3.1	1	8.0	1	1.2	1	0.389	0	2.502	1	6.430	0	2328	53	3.7
30374.8	10000	41.8978	92.7356	-825	QL	3.2	1	7.9	1	1.2	1	0.407	1	2.707	1	6.654	1	2318	56	3.7
30374.9	10000	41.8978	92.7347	-825	QL	3.2	1	8.2	1	1.2	1	0.386	0	2.675	1	6.934	1	2323	43	3.7
30375.0	10000	41.8978	92.7338	-826	QL	3.2	1	8.2	1	1.2	0	0.387	0	2.742	1	7.093	1	2301	55	3.7

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30375.1	10000	41.8978	92.7329	-827	QL	3.3	2	8.3	2	1.1	0	0.399	1	2.886	2	7.238	2	2276	56	3.7
30375.2	10000	41.8978	92.7320	-828	QL	3.3	1	7.4	0	1.1	-1	0.442	1	2.977	2	6.733	1	2248	47	3.7
30375.3	10000	41.8978	92.7311	-829	QL	3.2	1	7.2	0	1.1	-1	0.442	1	2.902	2	6.568	1	2223	40	3.7
30375.4	10000	41.8978	92.7302	-831	QL	3.4	2	7.2	0	1.2	0	0.465	2	2.915	2	6.269	0	2204	35	3.7
30375.5	10000	41.8978	92.7293	-833	QL	3.3	2	7.2	0	1.1	0	0.462	2	2.909	2	6.296	0	2189	50	3.7
30375.6	10000	41.8978	92.7284	-834	QL	3.5	2	7.2	0	1.1	-1	0.489	2	3.231	3	6.610	1	2155	41	3.7
30375.7	10000	41.8978	92.7274	-835	QL	3.6	2	7.4	0	1.1	-1	0.478	2	3.211	2	6.723	1	2148	47	3.8
30375.8	10000	41.8978	92.7265	-835	QL	3.3	2	7.3	0	1.1	-1	0.456	1	2.982	2	6.540	1	2133	50	3.8
30375.9	10000	41.8978	92.7256	-836	QL	3.6	2	7.5	0	1.1	-1	0.483	2	3.358	3	6.956	1	2140	49	3.8
30376.0	10000	41.8978	92.7247	-837	QL	3.3	2	7.5	0	1.1	-1	0.440	1	3.107	2	7.068	1	2142	39	3.8
30376.1	10000	41.8978	92.7238	-837	QL	3.2	1	7.5	0	1.0	-2	0.432	1	3.144	2	7.275	2	2160	41	3.8
30376.2	10000	41.8978	92.7229	-838	QL	3.3	2	7.6	0	1.0	-2	0.437	1	3.219	2	7.367	2	2146	35	3.8
30376.3	10000	41.8978	92.7220	-838	QL	3.5	2	7.3	0	1.0	-2	0.481	2	3.418	3	7.108	2	2153	44	3.8
30376.4	10000	41.8978	92.7211	-838	QL	3.6	2	6.7	-1	1.0	-2	0.541	3	3.531	3	6.522	1	2130	56	3.8
30376.5	10000	41.8978	92.7202	-838	QL	4.0	3	6.9	-1	1.0	-2	0.578	3	4.063	4	7.035	1	2130	38	3.8
30376.6	10000	41.8978	92.7193	-838	QL	3.9	3	6.7	-1	1.0	-2	0.576	3	3.815	4	6.619	1	2133	42	3.8
30376.7	10000	41.8978	92.7184	-838	QL	4.0	3	6.6	-1	1.0	-1	0.604	4	3.809	4	6.308	0	2151	62	3.8
30376.8	10000	41.8978	92.7175	-838	QL	3.9	3	7.0	0	1.1	-1	0.557	3	3.592	3	6.444	0	2167	52	3.8
30376.9	10000	41.8978	92.7166	-837	QL	3.7	2	7.1	0	1.1	-1	0.518	2	3.277	2	6.325	0	2194	47	3.8
30377.0	10000	41.8978	92.7156	-837	QL	3.2	1	7.0	0	1.2	0	0.462	2	2.787	1	6.030	0	2209	45	3.8
30377.1	10000	41.8978	92.7147	-835	QL	3.0	1	7.5	0	1.2	0	0.399	1	2.585	1	6.476	0	2248	52	3.8
30377.2	10000	41.8977	92.7138	-835	QL	3.0	1	7.1	0	1.1	-1	0.424	1	2.669	1	6.292	0	2261	57	3.9
30377.3	10000	41.8977	92.7129	-834	QL	2.8	0	7.3	0	1.1	0	0.377	0	2.423	0	6.435	0	2257	38	3.9
30377.4	10000	41.8977	92.7120	-833	QL	2.9	1	7.4	0	1.1	-1	0.394	1	2.607	1	6.611	1	2260	48	3.9
30377.5	10000	41.8977	92.7111	-833	QL	3.1	1	7.1	0	1.1	-1	0.431	1	2.902	2	6.737	1	2231	40	3.9
30377.6	10000	41.8977	92.7102	-832	QL	3.4	2	7.1	0	1.1	-2	0.474	2	3.353	3	7.079	1	2236	62	3.9
30377.7	10000	41.8977	92.7093	-831	QL	3.6	2	7.4	0	1.1	-2	0.478	2	3.734	3	7.817	1	2237	45	3.9
30377.8	10000	41.8977	92.7084	-830	QL	3.4	2	7.7	0	1.1	-2	0.450	2	3.465	3	7.698	2	2230	43	3.9
30377.9	10000	41.8977	92.7075	-829	QL	3.3	2	7.8	0	1.1	-1	0.419	2	3.050	3	7.275	2	2231	54	3.9
30378.0	10000	41.8977	92.7066	-827	QL	3.1	1	7.9	0	1.1	-1	0.415	2	2.983	2	7.188	2	2229	46	3.9
30378.1	10000	41.8977	92.7056	-826	QL	3.1	1	8.1	0	1.1	-1	0.385	2	2.768	2	7.198	2	2223	46	3.9
30378.2	10000	41.8977	92.7047	-825	QL	3.1	1	8.2	0	1.1	-1	0.380	2	2.715	2	7.140	2	2242	50	3.9
30378.3	10000	41.8977	92.7038	-822	QL	3.0	1	8.2	0	1.1	-1	0.361	2	2.508	2	6.946	2	2246	42	3.9
30378.4	10000	41.8977	92.7029	-820	QL	2.9	1	8.0	0	1.1	-1	0.364	2	2.312	2	6.353	2	2247	51	3.9
30378.5	10000	41.8977	92.7020	-818	QL	3.0	1	8.2	0	1.1	-1	0.366	2	2.429	2	6.630	2	2259	38	3.9
30378.6	10000	41.8977	92.7011	-817	QL	2.6	1	8.1	0	1.1	-1	0.321	-1	2.093	2	6.511	2	2272	62	3.9
30378.7	10000	41.8977	92.7002	-815	QL	2.9	1	8.1	0	1.1	-1	0.354	0	2.329	2	6.569	2	2297	47	3.9
30378.8	10000	41.8977	92.6993	-813	QL	2.7	1	8.0	0	1.1	-1	0.339	0	2.217	2	6.548	2	2299	47	3.9
30378.9	10000	41.8977	92.6984	-811	QL	2.6	1	7.9	0	1.1	-1	0.319	-1	2.129	2	6.670	2	2315	55	3.9
30379.0	10000	41.8977	92.6975	-808	QL	2.5	1	7.9	0	1.1	-1	0.309	-1	2.064	2	6.688	2	2308	46	4.0
30379.1	10000	41.8977	92.6966	-806	QL	2.6	1	7.9	0	1.1	-1	0.307	-1	2.197	2	7.168	2	2316	37	4.0
30379.2	10000	41.8977	92.6956	-802	QL	2.6	1	8.0	0	1.1	-1	0.336	0	2.191	2	6.518	2	2306	38	4.0
30379.3	10000	41.8977	92.6947	-799	QL	2.8	1	8.0	0	1.1	-1	0.356	0	2.408	2	6.769	2	2304	54	4.0
30379.4	10000	41.8977	92.6938	-796	QL	2.7	1	7.8	0	1.1	-1	0.340	0	2.348	2	6.895	2	2288	49	4.0
30379.5	10000	41.8977	92.6929	-792	QL	2.7	1	7.8	0	1.1	-1	0.348	0	2.362	2	6.782	2	2283	46	4.0
30379.6	10000	41.8977	92.6920	-788	QL	2.9	1	7.5	0	1.1	-1	0.394	1	2.600	2	6.594	2	2267	52	4.0
30379.7	10000	41.8977	92.6911	-785	QL	2.8	1	7.5	0	1.1	-1	0.378	0	2.494	2	6.602	2	2252	45	4.0
30379.8	10000	41.8977	92.6902	-780	QL	2.6	1	7.1	0	1.1	-1	0.392	0	2.432	2	6.200	2	2238	60	4.0
30379.9	10000	41.8977	92.6893	-775	QL	2.7	1	7.5	0	1.1	-1	0.348	0	2.325	2	6.665	2	2214	50	4.0
30380.0	10000	41.8977	92.6884	-770	QL	2.6	1	7.0	0	1.1	-1	0.389	0	2.440	2	6.279	2	2195	54	4.0
30380.1	10000	41.8977	92.6875	-766	QL	2.6	1	6.9	-1	1.1	-1	0.374	0	2.379	2	6.367	2	2184	40	4.0
30380.2	10000	41.8977	92.6866	-761	QL	2.7	1	6.9	-1	1.1	-1	0.386	0	2.443	2	6.335	2	2183	38	4.0

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30380.3	10000	41.8977	92.6857	-755	QL	2.3	-1	7.0	0	1.1	-1	0.332	0	2.066	0	6.226	0	2185	51	4.0
30380.4	10000	41.8977	92.6848	-748	QL	2.3	-1	7.5	0	1.1	0	0.306	-1	2.001	0	6.534	1	2212	51	4.0
30380.5	10000	41.8976	92.6838	-742	QL	2.4	0	7.6	1	1.1	0	0.315	-1	2.112	0	6.696	1	2230	40	4.0
30380.6	10000	41.8976	92.6829	-735	QL	2.3	-1	7.9	1	1.2	0	0.295	-1	1.934	-1	6.555	1	2254	43	4.0
30380.7	10000	41.8976	92.6820	-728	QL	2.4	0	8.3	2	1.2	0	0.286	-1	1.945	-1	6.795	1	2261	41	4.0
30380.8	10000	41.8976	92.6811	-721	QL	2.3	-1	8.2	1	1.3	1	0.279	-1	1.789	-1	6.413	0	2267	56	4.0
30380.9	10000	41.8976	92.6802	-713	QL	2.1	-1	8.1	1	1.3	1	0.256	-1	1.616	-1	6.302	0	2276	52	4.0
30381.0	10000	41.8976	92.6793	-704	QL	2.2	-1	8.3	2	1.3	1	0.262	-1	1.660	-1	6.333	0	2280	37	4.0
30381.1	10000	41.8976	92.6784	-696	QL	2.3	-1	7.9	1	1.2	1	0.292	-1	1.846	-1	6.326	0	2277	46	4.0
30381.2	10000	41.8976	92.6775	-687	QL	2.2	-1	7.7	1	1.2	0	0.290	-1	1.838	-1	6.332	0	2257	40	4.0
30381.3	10000	41.8976	92.6766	-678	QL	2.5	0	7.5	0	1.2	0	0.338	0	2.182	0	6.449	0	2242	54	4.0
30381.4	10000	41.8976	92.6757	-669	QL	2.4	0	7.7	1	1.1	-1	0.306	-1	2.109	0	6.886	1	2243	43	4.0
30381.5	10000	41.8976	92.6748	-659	QL	2.2	-1	7.6	1	1.1	-1	0.292	-1	2.017	0	6.898	1	2248	41	4.0
30381.6	10000	41.8976	92.6739	-650	QL	2.5	0	8.1	1	1.1	-1	0.309	-1	2.285	0	7.384	2	2245	40	4.0
30381.7	10000	41.8976	92.6729	-641	QL	2.4	0	7.7	1	1.0	-2	0.308	-1	2.328	0	7.568	2	2228	57	4.0
30381.8	10000	41.8976	92.6720	-631	QL	2.6	0	7.4	0	1.1	-1	0.348	0	2.402	0	6.910	1	2203	47	4.0
30381.9	10000	41.8976	92.6711	-621	QL	2.6	0	7.4	0	1.1	-1	0.350	0	2.453	1	7.011	1	2197	52	4.0
30382.0	10000	41.8976	92.6702	-609	QL	2.6	0	7.0	0	1.0	-2	0.370	0	2.537	1	6.853	1	2202	43	4.0
30382.1	10000	41.8976	92.6693	-599	QL	2.7	0	7.0	0	1.1	-1	0.390	0	2.549	1	6.531	1	2217	60	4.0
30382.2	10000	41.8976	92.6684	-594	QL	2.8	1	6.9	0	1.1	-1	0.410	1	2.703	1	6.598	1	2207	49	4.0
30382.3	10000	41.8976	92.6675	-588	QL	2.8	0	6.8	-1	1.1	-1	0.413	1	2.605	1	6.303	0	2199	50	4.0
30382.4	10000	41.8976	92.6666	-580	QL	3.0	1	7.1	0	1.1	-1	0.427	1	2.747	1	6.431	0	2223	37	4.0
30382.5	10000	41.8975	92.6657	-573	QL	2.8	0	7.4	0	1.1	-1	0.379	0	2.607	1	6.879	1	2252	36	4.0
30382.6	10000	41.8975	92.6648	-566	QL	2.7	0	7.5	0	1.0	-1	0.363	0	2.594	1	7.148	2	2267	55	4.0
30382.7	10000	41.8975	92.6639	-559	QL	2.9	1	7.4	0	1.1	-1	0.393	0	2.635	1	6.699	1	2282	42	4.0
30382.8	10000	41.8975	92.6630	-553	QL	2.9	1	7.0	0	1.1	-1	0.408	0	2.620	1	6.417	1	2270	50	3.9
30382.9	10000	41.8975	92.6621	-547	QL	3.0	1	6.9	0	1.1	-1	0.433	0	2.722	1	6.280	1	2282	39	3.9
30383.0	10000	41.8975	92.6611	-540	QL	3.0	1	6.6	-1	1.1	-1	0.455	0	2.732	1	6.010	1	2294	50	3.9
30383.1	10000	41.8975	92.6602	-534	QL	3.0	1	6.1	-2	1.1	-1	0.484	0	2.589	1	5.346	0	2292	57	3.9
30383.2	10000	41.8975	92.6593	-528	QL	3.0	0	5.8	-2	1.2	0	0.521	0	2.572	1	4.932	-1	2276	37	3.9
30383.3	10000	41.8975	92.6584	-521	QL	2.8	0	5.8	-2	1.2	0	0.479	0	2.237	1	4.665	-1	2270	37	3.9
30383.4	10000	41.8975	92.6575	-515	QL	2.5	0	6.0	-2	1.3	1	0.414	0	1.975	1	4.774	-2	2252	57	3.9
30383.5	10000	41.8975	92.6566	-510	QL	2.6	0	6.0	-2	1.2	1	0.434	0	2.185	1	5.036	-2	2246	50	3.9
30383.6	10000	41.8975	92.6557	-504	QL	2.8	0	6.5	-1	1.2	1	0.425	0	2.357	1	5.549	-1	2235	36	3.9
30383.7	10000	41.8975	92.6548	-498	QL	3.0	1	6.6	-1	1.1	0	0.459	0	2.685	1	5.850	-1	2206	54	3.9
30383.8	10000	41.8975	92.6539	-492	QL	3.0	1	6.4	-1	1.1	-1	0.467	0	2.833	2	6.061	0	2171	42	3.9
30383.9	10000	41.8975	92.6530	-485	QL	3.0	1	6.4	-1	1.0	-1	0.473	0	2.987	2	6.316	0	2145	49	3.9
30384.0	10000	41.8975	92.6521	-476	QL	3.0	1	6.4	-1	1.0	-2	0.550	0	3.417	2	6.213	0	2125	40	3.9
30384.1	10000	41.8974	92.6512	-468	QL	3.0	1	6.4	-1	1.0	-2	0.531	0	3.467	2	6.528	0	2115	47	3.9
30384.2	10000	41.8974	92.6503	-467	QL	3.0	1	6.2	-2	1.0	-2	0.529	0	3.255	2	6.149	0	2102	48	3.9
30384.3	10000	41.8974	92.6494	-469	QL	3.0	1	6.1	-2	1.0	-2	0.485	0	2.873	2	5.929	0	2100	48	3.9
30384.4	10000	41.8974	92.6484	-468	QL	2.9	1	6.5	-1	1.1	-2	0.456	0	2.904	2	6.362	0	2117	40	3.9
30384.5	10000	41.8974	92.6475	-466	QL	3.0	1	6.9	-1	1.1	-1	0.423	0	2.767	2	6.539	0	2118	54	3.9
30384.6	10000	41.8974	92.6466	-465	QL	3.0	1	7.1	0	1.1	-1	0.424	0	2.716	2	6.411	0	2141	33	3.9
30384.7	10000	41.8974	92.6457	-465	QL	2.6	0	7.0	0	1.1	-1	0.375	0	2.404	1	6.411	0	2149	44	3.9
30384.8	10000	41.8974	92.6448	-466	QL	2.7	0	7.1	0	1.1	-1	0.388	0	2.437	1	6.275	0	2162	49	3.9
30384.9	10000	41.8974	92.6439	-466	QL	2.8	0	7.5	0	1.1	-2	0.380	0	2.455	1	6.459	0	2173	39	3.9
30385.0	10000	41.8974	92.6430	-468	QL	2.8	0	7.4	0	1.1	-2	0.383	0	2.480	1	6.480	0	2167	39	3.9
30385.1	10000	41.8974	92.6421	-470	QL	2.8	0	7.3	0	1.1	-2	0.378	0	2.289	1	6.063	0	2165	37	3.9
30385.2	10000	41.8974	92.6412	-472	QL	2.7	0	7.6	0	1.1	-2	0.360	0	2.218	1	6.161	0	2172	39	3.9
30385.3	10000	41.8974	92.6403	-475	QL	2.4	0	7.5	0	1.1	-2	0.326	0	2.072	1	6.360	0	2163	44	3.9
30385.4	10000	41.8974	92.6394	-481	QL	2.5	0	7.4	0	1.1	-2	0.345	0	2.228	1	6.459	0	2165	50	3.9

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30385.5	10000	41.8974	92.6385	-487	QL	2.8	0	7.5	0	1.1	-1	0.366	0	2.480	1	6.766	1	2166	45	3.9
30385.6	10000	41.8974	92.6376	-493	QL	2.7	0	7.7	1	1.1	-1	0.346	0	2.361	0	6.824	1	2177	36	3.9
30385.7	10000	41.8973	92.6366	-497	QL	2.8	0	7.7	1	1.1	0	0.364	0	2.448	1	6.729	1	2205	38	3.9
30385.8	10000	41.8973	92.6357	-502	QL	2.8	0	7.8	1	1.1	-1	0.355	0	2.463	1	6.929	1	2231	50	3.9
30385.9	10000	41.8973	92.6348	-507	QL	2.9	1	7.8	1	1.1	-1	0.365	0	2.539	1	6.955	1	2264	46	3.9
30386.0	10000	41.8973	92.6339	-512	QL	3.1	1	8.2	2	1.2	0	0.381	0	2.712	1	7.126	2	2285	38	3.9
30386.1	10000	41.8973	92.6330	-518	QL	3.0	1	8.6	2	1.1	0	0.352	0	2.651	1	7.535	2	2289	41	3.9
30386.2	10000	41.8973	92.6321	-522	QL	2.8	1	8.3	2	1.2	0	0.340	0	2.424	0	7.127	2	2276	46	3.9
30386.3	10000	41.8973	92.6312	-526	QL	2.8	0	8.0	1	1.1	-1	0.347	0	2.470	1	7.128	2	2260	58	3.9
30386.4	10000	41.8973	92.6303	-527	QL	2.7	0	7.6	0	1.1	0	0.358	0	2.399	0	6.704	1	2241	54	3.9
30386.5	10000	41.8973	92.6294	-529	QL	2.8	0	7.2	0	1.1	0	0.383	0	2.445	1	6.390	0	2225	62	3.9
30386.6	10000	41.8973	92.6285	-533	QL	2.9	1	6.8	-1	1.1	-1	0.429	1	2.719	1	6.339	0	2197	42	3.9
30386.7	10000	41.8973	92.6276	-537	QL	3.1	1	6.5	-1	1.1	-1	0.468	2	2.769	1	5.917	0	2198	52	3.9
30386.8	10000	41.8973	92.6267	-548	QL	3.1	1	6.4	-1	1.1	0	0.487	2	2.726	1	5.600	-1	2199	44	3.9
30386.9	10000	41.8973	92.6257	-555	QL	3.2	1	6.7	-1	1.1	0	0.474	2	2.777	1	5.865	-1	2223	51	3.9
30387.0	10000	41.8973	92.6248	-560	QL	3.1	1	6.6	-1	1.2	0	0.463	2	2.548	1	5.498	-1	2245	54	3.9
30387.1	10000	41.8973	92.6239	-564	QL	2.9	1	7.0	0	1.2	0	0.414	1	2.436	1	5.891	-1	2260	39	3.9
30387.2	10000	41.8973	92.6230	-568	QL	2.8	1	7.2	0	1.2	1	0.390	1	2.276	0	5.830	-1	2285	60	3.9
30387.3	10000	41.8972	92.6221	-572	QL	2.7	0	7.3	0	1.3	1	0.368	0	2.090	0	5.678	-1	2297	47	3.9
30387.4	10000	41.8972	92.6212	-576	QL	2.6	0	7.5	0	1.3	1	0.345	0	2.047	0	5.938	0	2314	51	3.9
30387.5	10000	41.8972	92.6203	-580	QL	2.7	0	7.6	1	1.3	1	0.355	0	2.150	0	6.063	0	2331	42	4.0
30387.6	10000	41.8972	92.6194	-583	QL	2.6	0	7.6	1	1.3	1	0.334	0	2.011	0	6.028	0	2331	41	4.0
30387.7	10000	41.8972	92.6185	-586	QL	2.9	1	7.7	1	1.2	1	0.369	0	2.290	0	6.197	0	2317	45	4.0
30387.8	10000	41.8972	92.6176	-590	QL	3.0	1	7.8	1	1.3	1	0.388	0	2.351	0	6.067	0	2319	48	4.0
30387.9	10000	41.8972	92.6167	-593	QL	3.0	1	7.7	1	1.2	1	0.384	0	2.496	1	6.505	1	2299	51	4.0
30388.0	10000	41.8972	92.6158	-597	QL	2.8	0	8.1	1	1.2	0	0.342	0	2.328	0	6.801	1	2302	39	4.0
30388.1	10000	41.8972	92.6149	-601	QL	2.9	1	7.8	1	1.2	0	0.372	0	2.481	1	6.672	1	2293	57	4.0
30388.2	10000	41.8972	92.6140	-604	QL	2.9	1	7.9	1	1.2	0	0.367	0	2.479	1	6.747	1	2292	49	4.0
30388.3	10000	41.8972	92.6131	-607	QAL	3.1	1	7.5	1	1.1	1	0.418	1	2.753	1	6.582	1	2306	41	4.0
30388.4	10000	41.8972	92.6121	-610	QAL	2.9	1	7.6	1	1.2	1	0.385	0	2.536	1	6.595	1	2312	47	4.0
30388.5	10000	41.8972	92.6112	-614	QAL	2.9	1	7.3	1	1.2	1	0.401	1	2.480	1	6.179	1	2300	48	4.0
30388.6	10000	41.8972	92.6103	-617	QAL	2.7	0	7.3	1	1.3	0	0.370	0	2.170	0	5.865	0	2301	32	4.0
30388.7	10000	41.8972	92.6094	-620	QAL	2.8	1	7.2	1	1.3	0	0.395	0	2.254	-1	5.708	-1	2301	38	4.0
30388.8	10000	41.8972	92.6085	-624	QAL	2.2	0	7.4	1	1.3	-1	0.295	-1	1.707	-1	5.794	-1	2293	58	4.0
30388.9	10000	41.8971	92.6076	-627	QAL	2.1	-1	7.4	1	1.3	-1	0.290	-1	1.649	-1	5.688	-1	2277	45	4.0
30389.0	10000	41.8971	92.6067	-631	QAL	2.2	0	7.5	1	1.3	-1	0.295	-1	1.735	-1	5.880	-1	2279	52	4.0
30389.1	10000	41.8971	92.6058	-634	QAL	2.5	0	7.5	1	1.3	0	0.339	0	1.999	0	5.906	0	2283	43	4.1
30389.2	10000	41.8971	92.6049	-638	QAL	2.6	0	7.6	1	1.2	0	0.348	0	2.125	0	6.103	0	2283	49	4.1
30389.3	10000	41.8971	92.6040	-642	QAL	2.6	0	7.6	1	1.2	0	0.338	0	2.172	0	6.420	0	2260	33	4.1
30389.4	10000	41.8971	92.6031	-646	QAL	2.6	0	7.6	1	1.2	0	0.337	0	2.161	0	6.415	0	2247	44	4.1
30389.5	10000	41.8971	92.6022	-650	QAL	2.6	0	7.4	1	1.2	0	0.356	0	2.214	0	6.228	0	2220	43	4.1
30389.6	10000	41.8971	92.6013	-653	QAL	2.6	0	7.1	1	1.2	0	0.367	0	2.223	0	6.066	0	2229	61	4.1
30389.7	10000	41.8971	92.6003	-659	QAL	2.5	0	6.8	1	1.2	0	0.361	0	2.088	0	5.779	0	2211	43	4.1
30389.8	10000	41.8971	92.5994	-663	QAL	2.4	0	7.1	1	1.2	0	0.339	0	2.066	0	6.100	0	2218	51	4.1
30389.9	10000	41.8971	92.5985	-669	QAL	2.4	0	7.7	1	1.1	0	0.306	-1	2.092	0	6.834	0	2232	42	4.1
30390.0	10000	41.8971	92.5976	-675	QL	2.6	0	7.6	1	1.2	0	0.342	0	2.172	0	6.348	0	2260	49	4.1
30390.1	10000	41.8971	92.5967	-681	QL	2.6	0	7.6	1	1.2	0	0.345	0	2.219	0	6.440	0	2264	60	4.1
30390.2	10000	41.8971	92.5958	-687	QL	3.0	1	7.8	1	1.2	0	0.402	0	2.617	0	6.517	0	2297	53	4.1
30390.3	10000	41.8971	92.5949	-694	QL	2.9	1	8.1	1	1.2	0	0.378	0	2.544	0	6.724	0	2328	49	4.1
30390.4	10000	41.8970	92.5940	-697	QL	2.7	1	8.2	1	1.2	0	0.354	0	2.492	0	7.031	0	2337	47	4.2
30390.5	10000	41.8970	92.5931	-703	QL	2.7	1	7.9	1	1.2	0	0.332	0	2.344	0	7.066	0	2351	41	4.2
30390.6	10000	41.8970	92.5922	-709	QL	2.8	0	7.9	1	1.2	0	0.353	0	2.310	0	6.539	1	2350	50	4.2

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30390.7	10000	41.8970	92.5913	-715	QL	2.9	1	8.0	1	1.2	0	0.366	0	2.523	1	6.888	1	2340	45	4.2
30390.8	10000	41.8970	92.5904	-721	QL	2.8	1	7.6	1	1.1	-1	0.369	0	2.553	1	6.920	1	2325	45	4.2
30390.9	10000	41.8970	92.5894	-727	QL	2.4	-1	7.7	1	1.1	-1	0.305	-1	2.180	0	7.156	2	2302	38	4.2
30391.0	10000	41.8970	92.5885	-732	QL	2.4	0	7.8	1	1.1	0	0.313	-1	2.139	0	6.826	1	2267	49	4.2
30391.1	10000	41.8970	92.5876	-737	QL	2.5	0	7.8	1	1.2	0	0.321	-1	2.092	0	6.514	1	2257	47	4.2
30391.2	10000	41.8970	92.5867	-742	QL	2.3	-1	7.5	0	1.2	0	0.305	-1	1.919	-1	6.289	0	2228	55	4.2
30391.3	10000	41.8970	92.5858	-747	QL	2.2	-1	7.7	1	1.2	0	0.286	-1	1.894	-1	6.632	1	2224	58	4.2
30391.4	10000	41.8970	92.5849	-752	QL	2.1	-1	7.7	1	1.2	1	0.274	-1	1.725	-1	6.300	0	2228	44	4.2
30391.5	10000	41.8970	92.5840	-756	QL	2.0	-1	8.0	1	1.2	1	0.250	-2	1.613	-1	6.459	0	2235	42	4.2
30391.6	10000	41.8970	92.5831	-760	QL	2.4	0	8.0	1	1.2	1	0.294	-1	1.902	-1	6.469	0	2226	41	4.2
30391.7	10000	41.8970	92.5822	-764	QL	2.5	0	7.5	0	1.2	0	0.329	0	2.133	0	6.478	0	2216	48	4.3
30391.8	10000	41.8970	92.5813	-769	QL	2.5	0	7.3	0	1.1	0	0.345	0	2.240	0	6.495	0	2234	59	4.3
30391.9	10000	41.8969	92.5804	-774	QL	2.8	0	7.2	0	1.1	0	0.385	0	2.406	0	6.252	0	2266	43	4.3
30392.0	10000	41.8969	92.5795	-778	QL	2.6	0	7.5	0	1.1	0	0.354	0	2.307	0	6.516	1	2268	52	4.3
30392.1	10000	41.8969	92.5786	-781	QL	2.7	0	7.5	1	1.1	-1	0.355	0	2.413	0	6.795	1	2270	47	4.3
30392.2	10000	41.8969	92.5777	-785	QL	3.0	1	7.4	0	1.1	0	0.405	1	2.632	1	6.494	0	2290	42	4.3
30392.3	10000	41.8969	92.5768	-788	QL	2.9	1	7.3	0	1.2	0	0.396	1	2.429	1	6.132	0	2321	45	4.3
30392.4	10000	41.8969	92.5758	-791	QL	2.6	0	7.9	1	1.2	0	0.328	0	2.171	0	6.624	1	2334	44	4.3
30392.5	10000	41.8969	92.5749	-793	QL	2.2	-1	8.1	1	1.2	0	0.275	-1	1.854	-1	6.747	1	2304	39	4.3
30392.6	10000	41.8969	92.5740	-796	QL	2.2	-1	8.5	2	1.2	0	0.254	-2	1.858	-1	7.302	2	2276	49	4.3
30392.7	10000	41.8969	92.5731	-797	QL	2.3	-1	7.8	1	1.1	0	0.300	-1	2.045	0	6.808	1	2261	44	4.3
30392.8	10000	41.8969	92.5722	-798	QL	2.3	-1	8.0	1	1.1	-1	0.285	-1	2.054	0	7.212	2	2261	34	4.3
30392.9	10000	41.8969	92.5713	-799	QL	2.2	-1	7.5	1	1.1	-1	0.292	-1	1.995	-1	6.833	1	2259	53	4.3
30393.0	10000	41.8969	92.5704	-801	QL	2.2	-1	7.7	1	1.1	-1	0.291	-1	2.062	0	7.087	1	2269	44	4.3
30393.1	10000	41.8969	92.5695	-803	QL	2.4	0	7.5	1	1.1	-1	0.317	-1	2.166	0	6.833	1	2278	46	4.3
30393.2	10000	41.8969	92.5686	-805	QL	2.7	0	7.6	1	1.1	-1	0.357	0	2.530	1	7.080	1	2289	45	4.3
30393.3	10000	41.8969	92.5677	-807	QL	2.7	0	7.4	1	1.1	-1	0.368	0	2.535	1	6.898	1	2294	46	4.3
30393.4	10000	41.8969	92.5668	-809	QL	2.9	1	7.2	1	1.1	-1	0.395	1	2.613	1	6.607	1	2317	43	4.3
30393.5	10000	41.8969	92.5659	-810	QL	3.0	1	7.2	1	1.1	-1	0.420	1	2.714	1	6.469	0	2321	44	4.3
30393.6	10000	41.8969	92.5650	-811	QL	3.0	1	7.3	1	1.1	-1	0.404	1	2.704	1	6.698	1	2320	56	4.3
30393.7	10000	41.8968	92.5640	-811	QL	2.8	0	7.5	1	1.1	-1	0.385	1	2.627	1	6.829	1	2306	44	4.4
30393.8	10000	41.8968	92.5631	-812	QL	2.8	0	7.7	1	1.1	-1	0.358	0	2.546	1	7.115	2	2308	52	4.4
30393.9	10000	41.8968	92.5622	-813	QL	2.6	0	7.9	1	1.1	-1	0.362	1	2.491	1	6.875	1	2324	43	4.4
30394.0	10000	41.8968	92.5613	-814	QL	2.6	0	7.7	1	1.1	-1	0.359	1	2.465	1	6.866	1	2334	53	4.4
30394.1	10000	41.8968	92.5604	-816	QL	2.4	0	7.2	1	1.1	-1	0.323	0	2.322	1	7.187	2	2340	28	4.4
30394.2	10000	41.8968	92.5595	-818	QL	2.1	-1	7.4	1	1.1	-1	0.290	0	2.060	1	7.095	2	2343	55	4.4
30394.3	10000	41.8968	92.5586	-819	QL	1.9	-1	7.4	1	1.1	-2	0.246	-1	1.734	0	7.037	2	2340	45	4.4
30394.4	10000	41.8968	92.5577	-821	QL	2.0	-1	7.3	1	1.1	-2	0.245	-1	1.638	-1	6.673	1	2340	42	4.4
30394.5	10000	41.8968	92.5568	-822	QL	2.1	-1	7.5	1	1.1	-2	0.258	-1	1.668	-1	6.479	1	2353	66	4.4
30394.6	10000	41.8967	92.5559	-822	QL	1.9	-1	7.5	1	1.1	-2	0.226	-1	1.487	-1	6.586	1	2365	51	4.4
30394.7	10000	41.8967	92.5550	-824	QL	2.0	-1	7.5	1	1.1	-2	0.236	-1	1.488	-1	6.304	1	2381	49	4.4
30394.8	10000	41.8967	92.5541	-827	QL	2.0	-1	7.5	1	1.1	-2	0.225	-1	1.413	-1	6.282	1	2389	52	4.4
30394.9	10000	41.8967	92.5532	-829	QL	2.0	-1	7.5	1	1.1	-2	0.246	-1	1.522	-1	6.191	1	2409	43	4.4
30395.0	10000	41.8967	92.5523	-831	QL	2.0	-1	7.5	1	1.1	-2	0.312	-1	1.959	-1	6.278	1	2451	43	4.4
30395.1	10000	41.8967	92.5514	-833	QL	2.0	-1	7.5	1	1.1	-2	0.361	-1	2.368	0	6.555	1	2484	47	4.4
30395.2	10000	41.8966	92.5505	-835	QL	2.0	-1	7.5	1	1.1	-2	0.382	-1	2.456	0	6.437	1	2505	40	4.4
30395.3	10000	41.8966	92.5496	-837	QL	2.0	-1	7.6	1	1.1	-2	0.384	-1	2.399	0	6.245	1	2487	45	4.3
30395.4	10000	41.8966	92.5487	-839	QL	2.1	-1	7.7	1	1.1	-2	0.394	-1	2.592	0	6.577	1	2496	59	4.3
30395.5	10000	41.8966	92.5478	-842	QL	2.2	0	7.6	1	1.2	-1	0.440	0	2.897	1	6.587	1	2488	38	4.3
30395.6	10000	41.8966	92.5469	-844	QL	2.2	0	7.8	1	1.2	-1	0.457	0	3.034	1	6.639	1	2464	46	4.3
30395.7	10000	41.8966	92.5460	-845	QL	2.2	0	7.9	1	1.2	-1	0.408	0	2.750	1	6.736	1	2450	45	4.3
30395.8	10000	41.8966	92.5451	-847	QL	2.2	0	7.9	1	1.2	0	0.357	0	2.261	0	6.332	0	2443	45	4.3

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30395.9	10000	41.8965	92.5442	-850	QL	2.9	1	7.9	1	1.2	1	0.367	0	2.350	0	6.398	0	2418	43	4.3
30396.0	10000	41.8965	92.5433	-851	QL	3.0	1	8.2	1	1.3	1	0.364	0	2.354	0	6.476	0	2423	50	4.3
30396.1	10000	41.8965	92.5424	-852	QL	2.6	0	8.1	1	1.3	1	0.315	-1	1.958	-1	6.211	0	2409	49	4.3
30396.2	10000	41.8965	92.5415	-853	QL	2.3	-1	7.9	1	1.4	2	0.294	-1	1.696	-1	5.764	-1	2413	60	4.3
30396.3	10000	41.8965	92.5406	-854	QL	2.0	-1	8.1	1	1.5	3	0.242	-2	1.355	-2	5.597	-1	2429	48	4.3
30396.4	10000	41.8965	92.5397	-855	QL	2.2	-1	8.6	2	1.4	2	0.252	-2	1.552	-2	6.149	0	2435	50	4.3
30396.5	10000	41.8965	92.5388	-855	QL	2.1	-1	8.1	1	1.3	1	0.264	-1	1.716	-1	6.494	0	2417	51	4.3
30396.6	10000	41.8964	92.5378	-856	QL	2.0	-1	7.7	1	1.2	1	0.264	-1	1.649	-1	6.249	0	2403	40	4.3
30396.7	10000	41.8964	92.5369	-857	QL	2.4	0	7.6	1	1.2	1	0.317	-1	1.935	-1	6.102	0	2417	39	4.3
30396.8	10000	41.8964	92.5360	-858	QL	3.2	1	7.4	0	1.2	0	0.442	1	2.710	1	6.136	0	2400	51	4.3
30396.9	10000	41.8964	92.5351	-858	QAL	3.1	1	7.3	1	1.1	0	0.422	0	2.823	1	6.695	1	2362	44	4.3
30397.0	10000	41.8964	92.5342	-859	QAL	3.5	2	7.1	1	1.1	0	0.486	1	3.280	2	6.742	1	2332	45	4.3
30397.1	10000	41.8964	92.5333	-859	QAL	3.3	2	6.6	1	1.1	0	0.501	1	2.964	1	5.913	0	2294	48	4.3
30397.2	10000	41.8964	92.5324	-860	QAL	3.4	2	6.8	1	1.2	1	0.500	1	2.867	1	5.728	-1	2268	52	4.3
30397.3	10000	41.8964	92.5315	-861	QAL	3.3	2	6.9	1	1.2	1	0.481	1	2.713	1	5.641	-1	2270	44	4.3
30397.4	10000	41.8963	92.5306	-863	QAL	3.2	1	6.4	1	1.2	1	0.506	1	2.774	1	5.487	-1	2231	48	4.2
30397.5	10000	41.8963	92.5297	-866	QAL	2.8	1	6.6	1	1.2	1	0.429	1	2.401	0	5.590	-1	2214	42	4.2
30397.6	10000	41.8963	92.5288	-867	QAL	3.1	1	6.9	1	1.2	1	0.450	1	2.500	0	5.560	-1	2231	61	4.2
30397.7	10000	41.8963	92.5279	-869	QAL	2.8	1	6.7	1	1.2	1	0.413	0	2.255	0	5.462	-1	2222	40	4.2
30397.8	10000	41.8963	92.5270	-871	QAL	2.8	1	6.6	1	1.2	1	0.429	1	2.347	0	5.475	-1	2209	58	4.2
30397.9	10000	41.8963	92.5261	-872	QAL	2.8	1	6.5	1	1.2	1	0.435	1	2.401	0	5.518	-1	2209	50	4.2
30398.0	10000	41.8963	92.5252	-873	QAL	2.6	0	6.7	1	1.2	1	0.379	0	2.205	0	5.814	0	2188	55	4.2
30398.1	10000	41.8962	92.5243	-874	QAL	2.3	-1	7.0	1	1.2	1	0.336	-1	1.958	-1	5.834	0	2181	42	4.2
30398.2	10000	41.8962	92.5234	-876	QAL	2.2	-1	6.7	1	1.2	1	0.326	-1	1.868	-1	5.732	-1	2180	50	4.2
30398.3	10000	41.8962	92.5225	-876	QAL	2.1	-1	6.8	1	1.1	1	0.307	-1	1.835	-1	5.975	0	2159	38	4.2
30398.4	10000	41.8962	92.5216	-878	QAL	2.3	-1	7.0	1	1.2	1	0.342	-1	1.995	-1	5.838	0	2156	42	4.2
30398.5	10000	41.8962	92.5207	-879	QAL	2.2	-1	6.7	1	1.1	1	0.328	-1	2.036	-1	6.200	0	2145	47	4.2
30398.6	10000	41.8962	92.5198	-880	QAL	2.0	-1	6.8	1	1.1	1	0.306	-1	1.906	-1	6.221	0	2144	50	4.2
30398.7	10000	41.8961	92.5189	-882	QAL	2.3	-1	6.7	1	1.1	1	0.337	-1	2.034	-1	6.044	0	2156	48	4.1
30398.8	10000	41.8961	92.5180	-884	QAL	2.5	-1	6.5	1	1.1	1	0.375	-1	2.272	-1	6.067	0	2183	39	4.1
30398.9	10000	41.8961	92.5171	-885	QAL	2.6	-1	6.4	1	1.1	1	0.402	-1	2.520	-1	6.272	0	2196	51	4.1
30399.0	10000	41.8961	92.5162	-887	QAL	2.4	-1	6.5	1	1.1	1	0.417	-1	2.432	-1	5.833	0	2223	39	4.1
30399.1	10000	41.8961	92.5153	-889	QAL	2.7	-1	6.6	1	1.1	1	0.421	-1	2.591	-1	6.156	0	2249	55	4.1
30399.2	10000	41.8961	92.5144	-891	QAL	2.9	-1	6.6	1	1.2	1	0.446	-1	2.562	-1	5.743	0	2277	46	4.1
30399.3	10000	41.8961	92.5135	-893	QAL	3.0	-1	6.9	1	1.2	1	0.433	-1	2.509	-1	5.794	0	2296	42	4.1
30399.4	10000	41.8961	92.5126	-896	QAL	3.4	-1	6.9	1	1.2	1	0.490	-1	2.839	-1	5.788	0	2318	52	4.1
30399.5	10000	41.8960	92.5117	-899	QAL	3.4	-1	7.0	1	1.2	1	0.489	-1	2.845	-1	5.818	0	2320	46	4.1
30399.6	10000	41.8960	92.5108	-903	QAL	3.2	-1	7.0	1	1.2	1	0.469	-1	2.618	-1	5.578	-1	2334	53	4.1
30399.7	10000	41.8960	92.5099	-906	QAL	3.2	-1	7.0	1	1.2	1	0.473	-1	2.590	-1	5.475	-1	2360	37	4.1
30399.8	10000	41.8960	92.5090	-909	QAL	3.3	-1	7.0	1	1.2	1	0.476	-1	2.730	-1	5.738	0	2388	54	4.1
30399.9	10000	41.8960	92.5081	-912	QAL	3.1	-1	7.2	1	1.2	1	0.433	-1	2.528	-1	5.836	0	2421	43	4.1
30400.0	10000	41.8960	92.5072	-916	QAL	3.3	-1	7.0	1	1.2	1	0.488	-1	2.857	-1	5.859	0	2443	56	4.0
30400.1	10000	41.8960	92.5063	-919	QAL	3.4	-1	8.0	1	1.2	1	0.485	-1	2.609	-1	5.407	-1	2452	62	4.0
30400.2	10000	41.8959	92.5054	-922	QAL	3.5	-1	8.0	1	1.2	1	0.504	-1	2.712	-1	5.378	-1	2455	54	4.0
30400.3	10000	41.8959	92.5044	-925	QAL	3.4	-1	8.0	1	1.2	1	0.503	-1	2.627	-1	5.252	-1	2463	46	4.0
30400.4	10000	41.8959	92.5035	-928	QAL	3.5	-1	8.0	1	1.2	1	0.513	-1	2.833	-1	5.519	-1	2434	50	4.0
30400.5	10000	41.8959	92.5026	-931	QAL	3.5	-1	8.0	1	1.2	1	0.511	-1	2.616	-1	5.118	-1	2421	56	4.0
30400.6	10000	41.8959	92.5017	-935	QAL	3.5	-1	8.0	1	1.2	1	0.571	-1	2.934	-1	5.139	-1	2417	54	4.0
30400.7	10000	41.8959	92.5008	-938	QAL	3.5	-1	8.0	1	1.2	1	0.546	-1	2.856	-1	5.236	-1	2413	40	4.0
30400.8	10000	41.8959	92.4999	-941	QAL	3.5	-1	8.0	1	1.2	1	0.503	-1	2.829	-1	5.625	-1	2415	31	4.0
30400.9	10000	41.8958	92.4990	-944	QAL	3.5	-1	8.0	1	1.2	1	0.460	-1	2.665	-1	5.793	-1	2433	55	4.0
30401.0	10000	41.8958	92.4981	-947	QAL	3.4	-1	7.3	1	1.2	1	0.465	-1	2.796	-1	6.010	0	2422	34	4.0

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30401.1	10000	41.8958	92.4972	-950	QAL	3.6	2	7.3	1	1.3	1	0.497	1	2.805	1	5.649	-1	2441	43	4.0
30401.2	10000	41.8958	92.4963	-953	QK	3.4	2	7.5	1	1.3	1	0.453	1	2.673	1	5.905	-1	2424	40	4.0
30401.3	10000	41.8958	92.4954	-956	QK	3.3	2	7.4	2	1.3	1	0.448	1	2.534	1	5.662	-1	2417	45	4.0
30401.4	10000	41.8958	92.4945	-959	QK	3.3	2	7.3	2	1.3	1	0.458	1	2.490	0	5.432	-1	2413	49	3.9
30401.5	10000	41.8958	92.4936	-962	QK	3.4	2	7.2	1	1.3	1	0.456	1	2.563	1	5.625	-1	2382	46	3.9
30401.6	10000	41.8957	92.4927	-964	QK	3.4	2	7.4	1	1.3	1	0.456	1	2.620	1	5.741	-1	2362	43	3.9
30401.7	10000	41.8957	92.4918	-967	QK	3.3	2	7.3	1	1.3	2	0.468	1	2.686	1	5.734	-1	2357	43	3.9
30401.8	10000	41.8957	92.4909	-969	QK	3.4	2	7.1	1	1.2	1	0.433	1	2.569	1	5.939	-1	2341	38	3.9
30401.9	10000	41.8957	92.4900	-972	QK	3.4	2	6.9	1	1.2	2	0.496	2	2.968	1	5.983	-1	2340	62	3.9
30402.0	10000	41.8957	92.4891	-975	QK	3.6	2	7.2	0	1.1	2	0.509	2	3.183	2	6.258	0	2328	37	3.9
30402.1	10000	41.8957	92.4882	-977	QK	3.5	2	7.2	0	1.1	2	0.484	2	3.244	2	6.704	0	2321	59	3.9
30402.2	10000	41.8957	92.4873	-979	QK	3.5	2	7.1	0	1.1	2	0.489	2	3.177	2	6.493	0	2322	50	3.9
30402.3	10000	41.8956	92.4864	-981	QK	3.5	2	6.9	-1	1.1	2	0.510	2	3.335	2	6.544	0	2319	40	3.9
30402.4	10000	41.8956	92.4855	-983	QK	3.4	2	6.6	0	1.1	2	0.515	2	3.173	2	6.164	0	2310	46	3.9
30402.5	10000	41.8956	92.4846	-986	QK	3.7	2	6.9	0	1.1	3	0.532	2	3.381	2	6.355	0	2303	37	3.9
30402.6	10000	41.8956	92.4837	-988	QK	3.6	2	6.9	0	1.1	2	0.525	2	3.294	2	6.270	0	2284	48	3.9
30402.7	10000	41.8956	92.4828	-990	QK	3.4	2	6.6	0	1.1	2	0.519	2	3.196	2	6.164	0	2275	37	3.9
30402.8	10000	41.8956	92.4819	-993	QK	3.5	2	6.0	-1	1.1	3	0.586	3	3.126	2	5.331	-2	2252	57	3.9
30402.9	10000	41.8956	92.4810	-994	QK	3.5	2	5.9	0	1.1	3	0.596	3	3.197	2	5.364	-2	2226	41	3.9
30403.0	10000	41.8955	92.4801	-995	QK	3.2	2	5.8	0	1.1	3	0.556	3	3.358	1	5.138	-2	2204	45	3.9
30403.1	10000	41.8955	92.4792	-998	QK	3.3	2	5.8	-1	1.0	3	0.577	3	3.231	2	5.600	-1	2181	34	3.9
30403.2	10000	41.8955	92.4783	-1000	QK	3.1	1	5.5	-1	1.0	3	0.580	3	3.122	2	5.383	-2	2151	54	3.9
30403.3	10000	41.8955	92.4774	-1001	QK	2.9	1	5.5	-1	1.0	3	0.601	3	3.040	2	5.060	-2	2133	61	3.8
30403.4	10000	41.8955	92.4765	-1003	QK	3.0	1	5.2	-1	1.0	3	0.576	3	2.894	1	5.021	-2	2090	56	3.8
30403.5	10000	41.8955	92.4756	-1004	QK	3.1	1	5.5	-1	1.0	2	0.493	2	2.842	1	5.770	-1	2068	44	3.8
30403.6	10000	41.8955	92.4747	-1005	QK	3.1	1	5.8	-1	1.0	2	0.464	2	2.727	1	5.875	-1	2084	45	3.8
30403.7	10000	41.8954	92.4738	-1005	QK	3.1	1	6.0	-1	1.0	2	0.518	2	3.020	2	5.829	-1	2121	33	3.8
30403.8	10000	41.8954	92.4729	-1006	QK	3.0	1	6.1	0	1.1	2	0.502	2	2.724	1	5.430	-1	2153	41	3.8
30403.9	10000	41.8954	92.4720	-1006	QK	3.1	1	6.6	0	1.1	2	0.489	2	2.575	1	5.272	-2	2176	50	3.8
30404.0	10000	41.8954	92.4710	-1006	QK	3.1	1	6.6	0	1.1	2	0.443	2	2.415	1	5.452	-1	2200	37	3.8
30404.1	10000	41.8954	92.4701	-1006	QK	3.1	1	6.6	0	1.1	2	0.446	2	2.484	1	5.566	-1	2227	53	3.8
30404.2	10000	41.8954	92.4692	-1006	QK	3.1	1	6.8	0	1.1	2	0.425	2	2.353	1	5.541	-1	2262	48	3.8
30404.3	10000	41.8954	92.4683	-1006	QK	3.1	1	7.0	0	1.1	2	0.435	2	2.357	1	5.413	-2	2273	49	3.8
30404.4	10000	41.8953	92.4674	-1006	QK	3.1	1	7.2	0	1.1	2	0.448	2	2.389	1	5.332	-2	2269	47	3.8
30404.5	10000	41.8953	92.4665	-1007	QK	3.1	1	7.2	0	1.1	2	0.434	2	2.346	1	5.633	-1	2262	55	3.8
30404.6	10000	41.8953	92.4656	-1007	QK	3.1	1	7.7	0	1.1	2	0.396	2	2.375	1	5.995	-1	2264	53	3.8
30404.7	10000	41.8953	92.4647	-1007	QK	3.1	1	7.8	0	1.1	2	0.359	2	2.206	1	6.151	-1	2271	32	3.8
30404.8	10000	41.8953	92.4638	-1007	QK	3.1	1	7.7	0	1.1	2	0.356	2	2.136	1	6.001	-1	2286	50	3.8
30404.9	10000	41.8953	92.4629	-1007	QK	3.1	1	7.7	0	1.1	2	0.368	2	2.283	1	6.210	-1	2282	53	3.8
30405.0	10000	41.8952	92.4620	-1007	QK	3.1	1	7.8	0	1.1	2	0.360	2	2.279	1	6.322	-1	2280	55	3.8
30405.1	10000	41.8952	92.4611	-1007	QK	3.1	1	7.8	0	1.1	2	0.324	2	2.190	1	6.755	-1	2265	38	3.8
30405.2	10000	41.8952	92.4602	-1007	QK	3.1	1	7.8	0	1.1	2	0.326	2	2.203	1	6.767	-1	2257	38	3.8
30405.3	10000	41.8952	92.4593	-1007	QK	3.1	1	7.8	0	1.1	2	0.388	2	2.513	1	6.554	-1	2246	37	3.8
30405.4	10000	41.8952	92.4584	-1007	QK	3.1	1	7.8	0	1.1	2	0.435	2	2.832	1	6.509	-1	2243	54	3.8
30405.5	10000	41.8952	92.4575	-1004	QK	3.1	1	7.8	0	1.1	2	0.442	2	2.894	1	6.553	-1	2225	48	3.8
30405.6	10000	41.8952	92.4566	-999	QK	3.1	1	7.8	0	1.1	2	0.480	2	3.093	2	6.438	-1	2207	25	3.8
30405.7	10000	41.8951	92.4557	-1002	QK	3.1	1	7.8	0	1.1	2	0.476	2	3.088	2	6.482	-1	2161	52	3.8
30405.8	10000	41.8951	92.4548	-1005	QK	3.1	1	7.8	0	1.1	2	0.522	2	3.384	2	6.027	-1	2111	44	3.8
30405.9	10000	41.8951	92.4539	-1005	QK	3.1	1	7.8	0	1.1	2	0.501	2	3.012	2	6.005	-1	2042	45	3.8
30406.0	10000	41.8951	92.4530	-1005	QK	3.1	1	7.8	0	1.1	2	0.465	2	2.737	1	5.890	-1	1979	44	3.8
30406.1	10000	41.8951	92.4521	-1005	QK	3.1	1	7.8	0	1.1	2	0.459	2	2.644	1	5.755	-1	1908	49	3.8
30406.2	10000	41.8951	92.4512	-1006	QK	2.4	1	5.3	-1	0.9	2	0.459	2	2.644	1	5.755	-1	1847	41	3.9

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30406.3	10000	41.8951	92.4503	-1007	QK	2.0	-1	5.2	-3	0.9	-2	0.389	1	2.190	0	5.626	-1	1789	47	3.9
30406.4	10000	41.8951	92.4494	-1006	QK	2.2	-1	5.1	-3	0.9	-2	0.430	1	2.382	0	5.534	-1	1779	49	3.9
30406.5	10000	41.8950	92.4485	-1007	QK	2.1	-1	5.5	-2	1.0	-1	0.374	0	2.152	0	5.753	-1	1792	44	3.9
30406.6	10000	41.8950	92.4476	-1007	QK	1.8	-1	5.7	-2	1.0	-1	0.320	-1	1.808	-1	5.653	-1	1822	65	3.9
30406.7	10000	41.8950	92.4467	-1006	QK	1.9	-1	5.6	-2	1.1	-1	0.332	-1	1.780	-1	5.363	-2	1850	43	3.9
30406.8	10000	41.8950	92.4458	-1003	QK	2.0	-1	5.6	-2	1.1	-1	0.352	-1	1.850	-1	5.252	-2	1883	52	3.9
30406.9	10000	41.8950	92.4449	-1004	QK	2.0	-1	5.7	-2	1.0	-1	0.358	-1	1.951	-1	5.456	-1	1903	24	4.0
30407.0	10000	41.8950	92.4440	-1006	QK	2.3	0	5.7	-2	1.1	0	0.398	0	2.131	0	5.353	-2	1944	41	4.0
30407.1	10000	41.8949	92.4431	-1006	QK	2.2	-1	6.2	-1	1.1	0	0.358	0	2.050	0	5.725	-1	1968	49	4.0
30407.2	10000	41.8949	92.4422	-1007	QK	2.4	0	6.0	-2	1.1	0	0.397	0	2.219	0	5.586	-1	1988	37	4.0
30407.3	10000	41.8949	92.4413	-1007	QK	2.9	-1	5.8	-2	1.1	0	0.492	1	2.682	0	5.454	-1	2033	49	4.0
30407.4	10000	41.8949	92.4404	-1007	QK	3.1	-1	6.3	-1	1.0	-1	0.488	0	3.008	-2	6.167	0	2080	46	4.0
30407.5	10000	41.8949	92.4395	-1006	QK	3.3	-2	6.5	-1	1.1	0	0.507	0	3.033	-2	5.979	-1	2122	46	4.0
30407.6	10000	41.8949	92.4386	-1005	QK	3.6	-2	6.4	-1	1.1	0	0.555	1	3.190	-2	5.749	-1	2191	43	4.0
30407.7	10000	41.8949	92.4376	-1004	QK	3.9	-2	6.5	-1	1.1	0	0.606	1	3.488	-2	5.755	-1	2260	46	4.0
30407.8	10000	41.8948	92.4367	-1003	QK	4.0	-1	6.2	-1	1.1	0	0.650	1	3.521	-2	5.414	-2	2305	52	4.0
30407.9	10000	41.8948	92.4358	-1001	QK	4.1	-1	6.5	-1	1.2	0	0.628	1	3.504	-2	5.579	-1	2330	42	4.1
30408.0	10000	41.8948	92.4349	-1001	QK	3.9	0	6.9	-1	1.2	0	0.563	1	3.328	-1	5.912	-1	2351	54	4.1
30408.1	10000	41.8948	92.4340	-1000	QK	4.4	-1	6.8	-1	1.2	0	0.518	1	2.725	-1	5.263	-2	2365	46	4.1
30408.2	10000	41.8948	92.4331	-999	QK	4.5	-1	6.8	-1	1.2	0	0.508	1	2.904	-1	5.719	-1	2342	46	4.1
30408.3	10000	41.8948	92.4322	-999	QK	4.1	-1	6.8	-1	1.2	0	0.465	1	2.658	-1	5.719	-1	2295	45	4.1
30408.4	10000	41.8948	92.4313	-999	QK	3.9	-1	6.5	-1	1.1	0	0.445	1	2.592	-1	5.821	-1	2218	45	4.1
30408.5	10000	41.8947	92.4304	-998	QK	3.9	-1	6.3	-1	1.1	0	0.452	1	2.764	-1	6.122	-1	2153	39	4.1
30408.6	10000	41.8947	92.4295	-998	QK	3.8	-1	6.3	-1	1.0	-1	0.446	1	2.718	-1	6.098	-1	2120	56	4.1
30408.7	10000	41.8947	92.4286	-997	QK	3.9	-1	6.2	-1	1.0	-1	0.466	2	2.937	-1	6.303	0	2078	52	4.1
30408.8	10000	41.8947	92.4277	-996	QK	3.8	-1	6.2	-1	0.9	-2	0.493	2	3.362	-2	6.824	0	2059	51	4.2
30408.9	10000	41.8947	92.4268	-994	QK	3.8	-1	6.3	-2	0.9	-2	0.490	2	3.269	-2	6.669	0	2082	53	4.2
30409.0	10000	41.8947	92.4259	-994	QL	3.8	-1	6.3	-2	0.9	-2	0.477	2	3.160	-2	6.626	1	2111	50	4.2
30409.1	10000	41.8947	92.4250	-993	QL	3.8	-1	6.7	-1	1.0	-2	0.412	2	2.714	-2	6.584	1	2159	45	4.2
30409.2	10000	41.8946	92.4241	-992	QL	3.8	-1	6.8	-1	1.1	-2	0.378	2	2.402	-2	6.351	1	2217	51	4.2
30409.3	10000	41.8946	92.4232	-991	QL	3.8	-1	7.1	-1	1.1	-2	0.349	2	2.191	-2	6.275	1	2253	47	4.2
30409.4	10000	41.8946	92.4223	-990	QL	3.8	-1	6.7	-1	1.2	-2	0.390	2	2.211	-2	5.671	-1	2274	54	4.2
30409.5	10000	41.8946	92.4214	-989	QL	3.8	-1	6.7	-1	1.2	-2	0.380	2	2.196	-1	5.783	-1	2272	36	4.3
30409.6	10000	41.8946	92.4205	-989	QL	3.8	-1	6.7	-1	1.2	-2	0.374	2	2.104	-1	5.621	-1	2276	46	4.3
30409.7	10000	41.8946	92.4196	-988	QL	3.8	-1	7.0	-1	1.2	-2	0.419	2	2.431	-1	5.799	0	2294	34	4.3
30409.8	10000	41.8945	92.4187	-987	QL	3.8	-1	7.0	-1	1.2	-2	0.458	2	2.731	-1	5.957	0	2281	47	4.3
30409.9	10000	41.8945	92.4178	-986	QL	3.8	-1	6.7	-1	1.1	-2	0.444	2	2.647	-1	5.959	0	2268	55	4.3
30410.0	10000	41.8945	92.4169	-984	QL	3.8	-1	6.7	-1	1.1	-2	0.451	2	2.690	-1	5.965	0	2257	58	4.3
30410.1	10000	41.8945	92.4160	-983	QL	3.8	-1	7.1	-1	1.1	-2	0.410	2	2.534	-1	6.180	0	2259	41	4.3
30410.2	10000	41.8945	92.4151	-982	QL	3.8	-1	7.2	-1	1.2	-2	0.422	2	2.577	-1	6.101	0	2273	43	4.3
30410.3	10000	41.8945	92.4142	-981	QL	3.8	-1	7.3	-1	1.2	-2	0.413	2	2.568	-1	6.214	0	2273	57	4.3
30410.4	10000	41.8945	92.4133	-980	QL	3.8	-1	7.3	-1	1.2	-2	0.376	2	2.345	-1	6.228	0	2277	54	4.4
30410.5	10000	41.8944	92.4124	-977	QL	3.8	-1	7.3	-1	1.2	-2	0.359	2	2.144	-1	5.978	0	2303	52	4.4
30410.6	10000	41.8944	92.4115	-973	QL	3.8	-1	7.4	-1	1.2	-2	0.404	2	2.415	-1	5.974	0	2302	52	4.4
30410.7	10000	41.8944	92.4106	-970	QL	3.8	-1	7.0	-1	1.1	-2	0.452	2	2.883	-1	6.376	0	2297	51	4.4
30410.8	10000	41.8944	92.4097	-970	QL	3.8	-1	7.0	-1	1.1	-2	0.469	2	2.975	-1	6.345	0	2291	48	4.4
30410.9	10000	41.8944	92.4088	-971	QL	3.8	-1	7.0	-1	1.1	-2	0.461	2	2.962	-1	6.442	0	2277	40	4.4
30411.0	10000	41.8944	92.4079	-969	QL	3.8	-1	6.7	-1	1.1	-2	0.455	2	2.977	-1	6.535	0	2285	52	4.4
30411.1	10000	41.8943	92.4070	-967	QL	3.8	-1	6.9	-1	1.1	-2	0.462	2	3.018	-1	6.538	0	2291	38	4.4
30411.2	10000	41.8943	92.4061	-964	QL	3.8	-1	7.3	-1	1.1	-2	0.496	2	3.412	-1	6.878	0	2302	44	4.4
30411.3	10000	41.8943	92.4052	-961	QL	3.8	-1	7.1	-1	1.0	-2	0.477	2	3.644	-1	7.636	1	2320	41	4.5
30411.4	10000	41.8943	92.4043	-958	QL	3.8	-1	7.1	-2	1.0	-2	0.467	2	3.395	-1	7.265	2	2346	56	4.5

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30411.5	10000	41.8943	92.4034	-956	QL	3.4	2	7.8	1	1.0	-2	0.438	1	3.369	3	7.699	3	2355	42	4.5
30411.6	10000	41.8943	92.4025	-954	QL	3.4	2	7.7	1	1.0	-2	0.436	1	3.351	3	7.677	2	2368	48	4.5
30411.7	10000	41.8944	92.4016	-951	QL	3.1	1	7.5	0	1.0	-2	0.419	1	3.129	2	7.470	2	2360	46	4.5
30411.8	10000	41.8944	92.4007	-948	QL	3.2	1	7.5	0	1.0	-2	0.426	1	3.101	2	7.285	2	2346	48	4.5
30411.9	10000	41.8944	92.3998	-945	QL	3.1	1	7.3	0	1.1	-1	0.418	1	2.800	1	6.705	1	2329	53	4.5
30412.0	10000	41.8944	92.3989	-941	QL	2.9	1	6.7	-1	1.1	-1	0.435	1	2.596	1	5.975	0	2308	55	4.5
30412.1	10000	41.8944	92.3980	-938	QL	2.7	0	6.7	-1	1.1	-1	0.399	1	2.401	0	6.013	0	2293	51	4.5
30412.2	10000	41.8945	92.3971	-934	QL	2.7	0	6.3	-1	1.1	0	0.423	1	2.363	0	5.589	-1	2288	39	4.5
30412.3	10000	41.8945	92.3962	-932	QL	2.5	0	6.2	-2	1.2	0	0.406	1	2.131	0	5.249	-2	2277	42	4.6
30412.4	10000	41.8945	92.3953	-928	QL	2.5	0	6.1	-2	1.2	0	0.410	1	2.153	0	5.250	-2	2271	46	4.6
30412.5	10000	41.8945	92.3944	-925	QL	2.4	0	6.4	-1	1.2	0	0.373	0	2.036	0	5.[illegible]	-1	2271	50	4.6
30412.6	10000	41.8945	92.3935	-920	QL	2.2	-1	6.1	-2	1.1	-1	0.356	0	1.961	-1	5.305	-1	2262	55	4.6
30412.7	10000	41.8945	92.3926	-917	QL	2.1	-1	6.4	-1	1.1	0	0.325	0	1.808	-1	5.561	-1	2269	46	4.6
30412.8	10000	41.8946	92.3917	-913	QL	2.0	-1	6.5	-1	1.2	0	0.314	-1	1.745	-1	5.564	-1	2257	39	4.6
30412.9	10000	41.8946	92.3908	-910	QL	2.2	-1	6.1	-2	1.2	0	0.355	0	1.869	-1	5.261	-2	2247	51	4.6
30413.0	10000	41.8946	92.3899	-907	QL	2.3	-1	6.3	-2	1.2	0	0.366	0	1.935	-1	5.292	-2	2251	41	4.6
30413.1	10000	41.8946	92.3891	-904	QL	2.3	-1	6.5	-1	1.2	0	0.355	0	1.880	-1	5.299	-2	2246	36	4.6
30413.2	10000	41.8946	92.3882	-902	QL	2.4	0	6.4	-1	1.2	0	0.380	0	1.972	-1	5.193	-2	2244	41	4.6
30413.3	10000	41.8947	92.3873	-899	QL	2.4	0	6.7	-1	1.2	0	0.360	0	1.979	-1	5.492	-1	2239	46	4.6
30413.4	10000	41.8947	92.3864	-897	QL	2.4	0	6.8	-1	1.2	0	0.354	0	1.997	-1	5.635	-1	2231	44	4.6
30413.5	10000	41.8947	92.3855	-895	QL	2.5	0	6.9	-1	1.2	0	0.359	0	2.049	0	5.706	-1	2229	50	4.6
30413.6	10000	41.8947	92.3846	-893	QL	2.2	-1	7.0	0	1.2	0	0.315	-1	1.880	-1	5.970	0	2223	47	4.6
30413.7	10000	41.8947	92.3837	-891	QL	2.4	0	6.7	-1	1.1	0	0.365	0	2.151	0	5.888	-1	2223	43	4.6
30413.8	10000	41.8947	92.3828	-890	QL	2.8	0	7.0	0	1.2	0	0.399	1	2.421	0	6.067	0	2236	53	4.6
30413.9	10000	41.8948	92.3819	-889	QL	2.9	1	6.7	-1	1.2	0	0.425	1	2.449	1	5.763	-1	2238	49	4.6
30414.0	10000	41.8948	92.3810	-889	QL	2.8	0	6.8	-1	1.2	0	0.409	1	2.347	0	5.743	-1	2240	43	4.6
30414.1	10000	41.8948	92.3801	-889	QL	2.9	1	6.7	-1	1.2	0	0.436	1	2.438	1	5.593	-1	2243	49	4.6
30414.2	10000	41.8948	92.3792	-888	QL	3.0	1	6.5	-1	1.2	0	0.454	1	2.475	1	5.452	-1	2241	44	4.6
30414.3	10000	41.8948	92.3783	-889	QL	2.9	1	6.6	-1	1.2	0	0.435	1	2.307	1	5.299	-2	2237	42	4.6
30414.4	10000	41.8949	92.3774	-889	QL	2.5	0	6.8	-1	1.2	0	0.368	0	2.019	0	5.491	-1	2212	59	4.6
30414.5	10000	41.8949	92.3765	-891	QL	2.3	-1	6.4	-1	1.2	0	0.361	0	1.940	-1	5.368	-1	2156	55	4.6
30414.6	10000	41.8949	92.3756	-891	QL	2.2	-1	6.3	-1	1.1	0	0.342	0	2.023	0	5.912	0	2104	43	4.6
30414.7	10000	41.8949	92.3748	-892	QL	2.1	-1	6.2	-2	1.0	-2	0.361	0	2.198	0	6.096	0	2050	50	4.6
30414.8	10000	41.8949	92.3739	-893	QL	2.0	-1	5.8	-2	1.0	-2	0.359	0	2.090	-1	5.818	-1	2021	42	4.6
30414.9	10000	41.8949	92.3730	-894	QAL	2.0	-1	6.0	-1	1.0	-1	0.342	0	2.092	0	6.118	0	2005	39	4.6
30415.0	10000	41.8950	92.3721	-896	QAL	2.0	-1	5.8	-1	0.9	-1	0.354	0	2.182	0	6.172	0	1995	39	4.6
30415.1	10000	41.8950	92.3712	-897	QAL	2.1	-1	5.8	-1	0.9	-1	0.366	0	2.312	0	6.308	0	1976	47	4.6
30415.2	10000	41.8950	92.3703	-899	QAL	2.0	-1	5.6	-1	0.9	-1	0.353	0	2.242	0	6.351	0	1964	52	4.6
30415.3	10000	41.8950	92.3694	-900	QAL	2.0	-1	5.7	-1	0.9	-1	0.344	0	2.149	0	6.252	0	1949	47	4.6
30415.4	10000	41.8950	92.3685	-901	QAL	1.9	-1	5.4	-1	0.9	-1	0.346	0	2.012	-1	5.820	0	1949	43	4.6
30415.5	10000	41.8951	92.3676	-903	QAL	1.8	-1	5.8	-1	0.9	-1	0.314	-1	1.964	-1	6.248	0	1940	36	4.6
30415.6	10000	41.8951	92.3667	-905	QAL	1.6	-2	5.4	-1	0.9	-1	0.298	-1	1.707	-1	5.731	-1	1931	50	4.6
30415.7	10000	41.8951	92.3658	-907	QAL	1.7	-1	5.6	-1	0.9	-1	0.307	-1	1.835	-1	5.968	0	1930	42	4.6
30415.8	10000	41.8951	92.3649	-910	QAL	1.7	-1	5.8	-1	0.9	-1	0.296	-1	1.844	-1	6.238	0	1947	47	4.6
30415.9	10000	41.8951	92.3640	-913	QAL	2.1	0	6.1	0	1.0	-1	0.335	-1	2.098	0	6.272	0	2005	43	4.6
30416.0	10000	41.8951	92.3631	-916	QAL	1.9	-1	6.4	0	1.1	0	0.300	-1	1.879	-1	6.266	0	2052	51	4.6
30416.1	10000	41.8952	92.3622	-919	QAL	1.9	-1	6.4	0	1.1	0	0.290	-1	1.745	-1	6.017	0	2103	47	4.6
30416.2	10000	41.8952	92.3613	-923	QAL	2.0	-1	6.5	0	1.1	0	0.295	-1	1.696	-1	5.747	0	2148	45	4.6
30416.3	10000	41.8952	92.3604	-927	QAL	2.1	-1	6.6	0	1.1	0	0.308	-1	1.884	-1	6.115	0	2168	47	4.6
30416.4	10000	41.8952	92.3596	-932	QAL	2.0	-1	6.6	0	1.1	0	0.290	-1	1.795	-1	6.184	0	2175	38	4.6
30416.5	10000	41.8952	92.3587	-936	QAL	2.1	-1	6.5	0	1.1	0	0.319	-1	1.940	-1	6.081	0	2164	45	4.6
30416.6	10000	41.8953	92.3578	-940	QAL	2.0	-1	6.4	0	1.0	0	0.318	-1	2.026	-1	6.380	0	2138	43	4.6

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30416.7	10000	41.8953	92.3569	-944	QAL	2.3	0	6.2	0	1.0	-1	0.371	0	2.338	0	6.305	0	2123	49	4.6
30416.8	10000	41.8953	92.3560	-948	QAL	2.3	0	6.1	0	1.0	-1	0.373	0	2.322	0	6.225	0	2111	49	4.6
30416.9	10000	41.8953	92.3551	-952	QAL	2.1	-1	6.4	0	0.9	-1	0.331	-1	2.288	0	6.921	1	2089	38	4.6
30417.0	10000	41.8953	92.3542	-956	QAL	2.1	-1	6.7	0	1.0	0	0.318	-1	2.137	0	6.716	1	2084	52	4.6
30417.1	10000	41.8954	92.3533	-960	QAL	2.2	0	6.8	0	1.0	-1	0.330	-1	2.309	0	7.005	1	2080	50	4.6
30417.2	10000	41.8954	92.3524	-963	QAL	2.4	0	6.8	0	1.0	-1	0.348	0	2.482	0	7.132	1	2100	45	4.6
30417.3	10000	41.8954	92.3515	-966	QAL	2.4	0	6.7	0	1.0	-1	0.357	0	2.506	0	7.013	1	2107	48	4.6
30417.4	10000	41.8954	92.3506	-968	QAL	2.5	0	6.8	0	1.0	-1	0.366	0	2.558	0	6.991	1	2107	37	4.6
30417.5	10000	41.8954	92.3497	-971	QAL	2.6	0	6.9	0	0.9	-1	0.382	0	2.876	1	7.529	2	2110	32	4.6
30417.6	10000	41.8954	92.3488	-974	QAL	2.9	1	6.5	0	0.9	-1	0.454	1	3.244	2	7.150	1	2104	40	4.6
30417.7	10000	41.8955	92.3479	-976	QAL	2.5	0	6.3	0	0.9	-1	0.407	0	2.928	1	7.197	1	2100	45	4.6
30417.8	10000	41.8955	92.3470	-978	QAL	2.7	0	6.6	0	0.9	-1	0.409	0	2.970	1	7.255	1	2100	60	4.6
30417.9	10000	41.8955	92.3461	-979	QAL	2.6	0	6.6	0	0.9	-1	0.387	0	2.907	1	7.518	2	2085	37	4.6
30418.0	10000	41.8955	92.3453	-980	QAL	2.7	0	6.7	0	0.9	-1	0.403	0	2.935	1	7.281	1	2089	44	4.6
30418.1	10000	41.8955	92.3444	-981	QAL	2.7	1	6.6	0	0.9	-1	0.416	0	2.958	1	7.104	1	2089	42	4.6
30418.2	10000	41.8955	92.3435	-982	QAL	2.7	1	6.6	0	1.0	-1	0.411	0	2.794	1	6.801	1	2088	38	4.6
30418.3	10000	41.8956	92.3426	-983	QAL	2.5	0	6.9	0	1.0	-1	0.368	0	2.585	1	7.021	1	2102	46	4.6
30418.4	10000	41.8956	92.3417	-983	QAL	2.7	1	6.9	0	1.0	-1	0.400	0	2.805	1	7.018	1	2094	46	4.6
30418.5	10000	41.8956	92.3408	-983	QAL	2.6	0	6.6	0	0.9	-1	0.399	0	2.768	1	6.936	1	2097	42	4.6
30418.6	10000	41.8956	92.3399	-984	QAL	2.6	0	6.3	0	1.0	-1	0.414	0	2.596	1	6.278	0	2107	54	4.6
30418.7	10000	41.8956	92.3390	-983	QAL	2.3	0	6.4	0	1.0	0	0.357	0	2.272	0	6.368	0	2097	56	4.6
30418.8	10000	41.8957	92.3381	-983	QAL	2.1	-1	6.7	0	1.0	0	0.308	-1	1.992	-1	6.474	0	2114	46	4.6
30418.9	10000	41.8957	92.3372	-983	QAL	1.9	-1	6.6	0	1.0	0	0.286	-1	1.861	-1	6.519	1	2105	44	4.6
30419.0	10000	41.8957	92.3363	-982	QAL	1.9	-1	6.4	0	1.0	0	0.297	-1	1.907	-1	6.424	0	2087	51	4.6
30419.1	10000	41.8957	92.3354	-981	QAL	2.0	-1	6.3	0	1.0	-1	0.316	-1	2.027	-1	6.425	0	2092	48	4.6
30419.2	10000	41.8957	92.3345	-980	QAL	2.1	-1	6.2	0	1.0	-1	0.345	0	2.196	0	6.365	0	2092	41	4.6
30419.3	10000	41.8957	92.3336	-978	QAL	2.3	0	6.2	0	1.0	-1	0.372	0	2.358	0	6.334	0	2094	51	4.6
30419.4	10000	41.8958	92.3327	-976	QAL	2.3	0	5.8	-1	1.0	0	0.390	0	2.236	0	5.736	0	2100	39	4.6
30419.5	10000	41.8958	92.3318	-974	QAL	2.4	0	5.6	-1	1.0	-1	0.435	1	2.474	0	5.688	-1	2095	46	4.7
30419.6	10000	41.8958	92.3309	-972	QAL	2.8	1	5.8	-1	1.0	-1	0.479	1	2.774	1	5.794	-1	2123	49	4.7
30419.7	10000	41.8958	92.3301	-970	QAL	2.8	1	5.7	-1	1.0	0	0.500	1	2.822	1	5.647	-1	2147	52	4.7
30419.8	10000	41.8958	92.3292	-968	QAL	2.7	0	6.0	-1	1.0	-1	0.445	1	2.728	1	6.135	-1	2170	39	4.7
30419.9	10000	41.8959	92.3283	-966	QAL	2.5	0	5.9	-1	1.0	0	0.422	0	2.401	1	5.686	-1	2178	39	4.7
30420.0	10000	41.8959	92.3274	-964	QAL	2.0	-1	6.4	0	1.0	0	0.319	-1	1.997	-1	6.263	0	2175	59	4.7
30420.1	10000	41.8959	92.3265	-963	QAL	2.1	-1	6.7	0	1.0	0	0.314	-1	2.080	-1	6.621	0	2177	48	4.7
30420.2	10000	41.8959	92.3256	-961	QAL	1.8	-1	6.6	0	1.0	0	0.277	-1	1.792	-1	6.473	0	2175	71	4.7
30420.3	10000	41.8959	92.3247	-959	QAL	1.7	-1	6.7	0	1.0	0	0.255	-1	1.646	-1	6.451	0	2154	52	4.7
30420.4	10000	41.8959	92.3238	-958	QAL	1.6	-2	6.5	0	1.0	0	0.247	-2	1.550	-1	6.269	0	2126	51	4.7
30420.5	10000	41.8960	92.3229	-956	QAL	1.7	-1	6.4	0	1.1	0	0.268	-1	1.570	-1	5.856	0	2116	49	4.7
30420.6	10000	41.8960	92.3220	-954	QAL	1.6	-2	6.8	0	1.1	0	0.231	-2	1.483	-2	6.407	0	2112	43	4.7
30420.7	10000	41.8960	92.3211	-953	QAL	1.8	-1	6.2	0	1.1	0	0.292	-1	1.713	-1	5.869	0	2110	46	4.7
30420.8	10000	41.8960	92.3202	-950	QAL	1.9	-1	6.1	0	1.1	0	0.310	-1	1.769	-1	5.704	0	2114	54	4.7
30420.9	10000	41.8960	92.3193	-948	QAL	2.2	0	6.6	0	1.0	0	0.332	-1	2.103	0	6.325	1	2141	43	4.7
30421.0	10000	41.8960	92.3184	-945	QAL	1.9	-1	6.5	0	1.0	0	0.298	-1	1.929	-1	6.478	0	2147	41	4.7
30421.1	10000	41.8961	92.3176	-943	QAL	2.0	-1	6.7	0	1.0	0	0.303	-1	1.957	-1	6.458	0	2170	46	4.7
30421.2	10000	41.8961	92.3167	-940	QAL	2.3	0	6.4	0	1.0	0	0.356	0	2.227	0	6.246	0	2187	41	4.8
30421.3	10000	41.8961	92.3158	-937	QAL	2.4	0	6.4	0	1.0	0	0.383	0	2.358	0	6.151	0	2215	61	4.8
30421.4	10000	41.8961	92.3149	-934	QAL	2.4	0	6.9	0	1.0	0	0.351	0	2.222	0	6.330	0	2232	42	4.8
30421.5	10000	41.8961	92.3140	-931	QAL	2.4	0	7.1	0	1.0	1	0.335	0	2.264	0	6.757	0	2245	60	4.8
30421.6	10000	41.8961	92.3131	-928	QAL	2.3	0	6.8	0	1.1	0	0.333	-1	2.153	0	6.473	0	2238	50	4.8
30421.7	10000	41.8962	92.3122	-924	QAL	2.4	0	6.8	0	1.1	0	0.358	-1	2.259	0	6.307	0	2243	53	4.8
30421.8	10000	41.8962	92.3113	-921	QAL	2.5	0	6.9	0	1.0	0	0.357	0	2.357	0	6.597	1	2249	50	4.8

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30421.9	10000	41.8962	92.3104	-917	QAL	2.3	0	7.1	1	1.0	0	0.331	-1	2.242	0	6.764	1	2234	57	4.8
30422.0	10000	41.8962	92.3095	-913	QAL	2.3	0	6.7	0	1.0	0	0.351	0	2.336	0	6.658	1	2218	56	4.8
30422.1	10000	41.8962	92.3086	-908	QAL	2.2	0	6.8	0	1.0	-1	0.332	-1	2.315	0	6.982	1	2213	56	4.8
30422.2	10000	41.8963	92.3077	-903	QAL	2.0	-1	6.7	0	1.0	-1	0.303	-1	2.067	0	6.830	1	2199	33	4.8
30422.3	10000	41.8963	92.3068	-898	QAL	2.0	-1	6.2	0	1.0	0	0.324	-1	1.995	-1	6.155	0	2192	60	4.8
30422.4	10000	41.8963	92.3059	-893	QAL	2.2	0	6.2	0	1.1	0	0.363	0	2.140	0	5.898	0	2211	35	4.8
30422.5	10000	41.8963	92.3050	-887	QAL	2.3	0	6.0	-1	1.1	0	0.378	0	2.084	0	5.507	-1	2226	39	4.8
30422.6	10000	41.8963	92.3041	-880	QAL	2.2	0	5.5	-1	1.1	0	0.400	0	2.106	0	5.264	-1	2219	49	4.9
30422.7	10000	41.8964	92.3032	-874	QAL	2.2	-1	5.7	-1	1.1	0	0.378	0	1.944	-1	5.141	-1	2206	50	4.9
30422.8	10000	41.8964	92.3024	-867	QAL	2.1	-1	5.5	-1	1.1	0	0.391	0	2.015	-1	5.158	-1	2178	43	4.9
30422.9	10000	41.8964	92.3015	-859	QAL	2.6	0	5.2	-1	1.1	0	0.493	1	2.460	0	4.990	-1	2176	49	4.9
30423.0	10000	41.8964	92.3006	-850	QAL	2.7	0	5.7	-1	1.0	-1	0.473	1	2.765	1	5.846	0	2175	45	4.9
30423.1	10000	41.8964	92.2997	-842	QAL	2.4	0	5.7	-1	0.9	-1	0.415	0	2.605	1	6.274	0	2152	49	4.9
30423.2	10000	41.8964	92.2988	-833	QAL	2.3	0	5.9	-1	0.9	-2	0.388	0	2.690	1	6.929	1	2106	52	4.9
30423.3	10000	41.8965	92.2979	-825	QAL	2.5	0	5.9	-1	0.8	-2	0.422	0	3.029	1	7.183	1	2063	48	4.9
30423.4	10000	41.8965	92.2970	-817	QAL	2.4	0	5.4	-1	0.7	-2	0.450	1	3.454	2	7.676	2	1989	48	4.9
30423.5	10000	41.8965	92.2961	-808	QAL	2.4	0	4.7	-2	0.7	-3	0.503	1	3.495	2	6.944	1	1930	56	4.9
30423.6	10000	41.8965	92.2952	-801	QAL	2.0	-1	4.7	-2	0.6	-3	0.424	1	3.340	2	7.880	2	1871	32	4.9
30423.7	10000	41.8965	92.2943	-793	QAL	1.8	-1	4.3	-2	0.6	-3	0.414	0	3.194	2	7.711	2	1827	64	4.9
30423.8	10000	41.8966	92.2934	-784	QAL	1.9	-1	3.8	-3	0.5	-4	0.509	1	3.659	2	7.184	1	1818	49	4.9
30423.9	10000	41.8966	92.2925	-775	QAL	2.0	-1	3.4	-3	0.5	-4	0.591	2	3.654	2	6.185	0	1835	48	4.9
30424.0	10000	41.8966	92.2916	-763	QAL	1.7	-1	3.6	-3	0.5	-4	0.457	1	3.039	1	6.651	1	1876	48	4.9
30424.1	10000	41.8966	92.2907	-751	QAL	1.5	-2	3.9	-3	0.6	-3	0.398	0	2.458	0	6.173	0	1962	39	4.9
30424.2	10000	41.8966	92.2898	-744	QAL	1.9	-1	4.5	-2	0.7	-3	0.413	0	2.702	1	6.550	1	2051	46	4.9
30424.3	10000	41.8966	92.2889	-733	CULTRL	2.1	999	4.8	999	0.8	999	0.432	999	2.703	999	6.264	999	2118	44	4.9
30424.4	10000	41.8967	92.2881	-723	CULTRL	2.3	999	4.8	999	0.8	999	0.486	999	2.908	999	5.987	999	2155	49	4.9
30424.5	10000	41.8967	92.2872	-718	CULTRL	2.7	999	4.9	999	0.8	999	0.549	999	3.343	999	6.091	999	2161	57	4.9
30424.6	10000	41.8967	92.2863	-718	CULTRL	2.8	999	5.0	999	0.8	999	0.560	999	3.703	999	6.614	999	2177	56	4.9
30424.7	10000	41.8967	92.2854	-722	CULTRL	3.0	999	4.7	999	0.7	999	0.638	999	4.200	999	6.587	999	2180	40	4.9
30424.8	10000	41.8967	92.2845	-723	CULTRL	3.4	999	4.6	999	0.7	999	0.742	999	4.921	999	6.634	999	2154	55	4.9
30424.9	10000	41.8967	92.2836	-713	CULTRL	3.3	999	4.0	999	0.7	999	0.846	999	4.862	999	5.750	999	2124	39	4.9
30425.0	10000	41.8968	92.2827	-705	CULTRL	3.4	999	3.7	999	0.7	999	0.910	999	4.896	999	5.381	999	2102	45	4.9
30425.1	10000	41.8968	92.2818	-704	CULTRL	3.2	999	3.7	999	0.7	999	0.853	999	4.578	999	5.365	999	2088	34	4.9
30425.2	10000	41.8968	92.2809	-708	CULTRL	3.1	999	3.7	999	0.6	999	0.828	999	4.805	999	5.803	999	2058	51	4.9
30425.3	10000	41.8968	92.2800	-708	CULTRL	3.2	999	3.4	999	0.6	999	0.959	999	5.174	999	5.394	999	2009	37	4.9
30425.4	10000	41.8968	92.2791	-708	CULTRL	3.0	999	3.4	999	0.7	999	0.880	999	4.585	999	5.212	999	1974	42	4.9
30425.5	10000	41.8968	92.2782	-709	CULTRL	2.9	999	3.2	999	0.7	999	0.907	999	4.387	999	4.835	999	1961	47	4.9
30425.6	10000	41.8969	92.2773	-708	CULTRL	2.8	999	3.6	999	0.6	999	0.769	999	4.472	999	5.814	999	1940	53	4.9
30425.7	10000	41.8969	92.2764	-705	CULTRL	2.5	999	3.4	999	0.5	999	0.727	999	4.674	999	5.432	999	1912	49	4.9
30425.8	10000	41.8969	92.2755	-704	CULTRL	2.6	999	3.5	999	0.6	999	0.751	999	4.561	999	6.075	999	1910	30	4.9
30425.9	10000	41.8969	92.2746	-704	CULTRL	2.4	999	3.9	999	0.6	999	0.633	999	3.873	999	6.117	999	1937	42	4.9
30426.0	10000	41.8969	92.2737	-707	CULTRL	2.0	999	4.4	999	0.7	999	0.448	999	3.214	999	6.505	999	1957	44	4.9
30426.1	10000	41.8969	92.2729	-708	CULTRL	2.1	999	4.4	999	0.7	999	0.481	999	3.008	999	6.257	999	1985	57	4.9
30426.2	10000	41.8970	92.2720	-708	CULTRL	2.0	999	4.8	999	0.7	999	0.416	999	2.926	999	7.032	999	1993	41	4.9
30426.3	10000	41.8970	92.2711	-709	CULTRL	2.1	999	5.0	999	0.7	999	0.420	999	2.925	999	6.957	999	2022	48	4.9
30426.4	10000	41.8970	92.2702	-710	CULTRL	2.2	999	5.2	999	0.7	999	0.422	999	2.949	999	6.986	999	2037	39	4.9
30426.5	10000	41.8970	92.2693	-711	CULTRL	2.1	999	5.1	999	0.7	999	0.417	999	2.933	999	7.041	999	2035	36	4.9
30426.6	10000	41.8970	92.2684	-709	CULTRL	2.3	999	4.7	999	0.7	999	0.489	999	3.192	999	6.532	999	2022	45	4.9
30426.7	10000	41.8970	92.2675	-707	CULTRL	2.3	999	4.6	999	0.7	999	0.506	999	3.134	999	6.193	999	2023	57	4.9
30426.8	10000	41.8970	92.2666	-709	QL	2.4	0	5.0	-3	0.8	-4	0.479	2	3.110	2	6.485	0	2005	46	4.8
30426.9	10000	41.8970	92.2657	-712	QL	2.4	0	4.9	-4	0.8	-4	0.490	2	2.987	2	6.094	0	2011	50	4.8
30427.0	10000	41.8970	92.2648	-712	QL	2.6	0	4.6	-4	0.8	-3	0.567	3	3.068	2	5.407	-1	2014	42	4.8

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30427.1	10000	41.8970	92.2639	-713	QL	2.6	0	4.7	-4	0.9	-3	0.556	3	2.874	2	5.170	-2	2031	55	4.8
30427.2	10000	41.8969	92.2630	-717	QL	2.6	0	4.7	-4	0.9	-2	0.558	3	2.780	1	4.984	-2	2027	57	4.8
30427.3	10000	41.8969	92.2621	-722	QL	2.3	-1	5.2	-3	1.0	-2	0.449	1	2.449	1	5.455	-1	2025	51	4.8
30427.4	10000	41.8969	92.2612	-724	QL	2.9	1	5.5	-3	0.9	-3	0.524	2	3.186	2	6.075	0	2053	45	4.8
30427.5	10000	41.8969	92.2603	-725	QL	2.8	1	5.7	-2	0.9	-2	0.496	2	2.991	2	6.026	0	2109	54	4.8
30427.6	10000	41.8969	92.2594	-725	QL	2.8	1	5.9	-2	1.0	-2	0.480	2	2.876	2	5.995	0	2157	49	4.8
30427.7	10000	41.8968	92.2585	-725	QL	2.7	0	6.5	-1	1.0	-2	0.413	1	2.683	1	6.502	1	2192	47	4.8
30427.8	10000	41.8968	92.2576	-726	QL	2.8	0	6.8	-1	1.1	-1	0.412	1	2.620	1	6.360	0	2234	64	4.8
30427.9	10000	41.8968	92.2567	-727	QL	2.6	0	7.3	0	1.1	-1	0.360	0	2.369	0	6.575	1	2281	45	4.8
30428.0	10000	41.8968	92.2558	-728	QL	2.8	1	7.3	0	1.2	0	0.386	0	2.410	0	6.246	0	2334	51	4.8
30428.1	10000	41.8968	92.2549	-729	QL	2.5	0	7.3	0	1.3	1	0.350	0	2.017	0	5.766	-1	2380	45	4.8
30428.2	10000	41.8967	92.2540	-729	QL	2.5	0	7.3	0	1.3	1	0.338	0	1.929	-1	5.714	-1	2386	49	4.8
30428.3	10000	41.8967	92.2531	-729	QL	2.6	0	7.4	0	1.3	2	0.355	0	1.986	-1	5.587	-1	2404	40	4.8
30428.4	10000	41.8967	92.2522	-729	QL	2.7	0	6.9	0	1.4	2	0.386	0	1.961	-1	5.082	-2	2434	41	4.8
30428.5	10000	41.8967	92.2513	-730	QL	2.9	1	7.0	0	1.4	2	0.410	1	2.101	0	5.121	-2	2445	66	4.8
30428.6	10000	41.8966	92.2504	-730	QL	3.1	1	7.0	0	1.4	2	0.448	1	2.249	0	5.023	-2	2471	44	4.8
30428.7	10000	41.8966	92.2495	-730	QL	3.1	1	7.2	0	1.4	2	0.427	1	2.231	0	5.226	-2	2480	50	4.8
30428.8	10000	41.8966	92.2486	-730	QL	3.0	1	7.3	0	1.4	2	0.406	1	2.138	0	5.261	-2	2462	48	4.8
30428.9	10000	41.8966	92.2477	-729	QL	3.0	1	7.2	0	1.4	2	0.409	1	2.144	0	5.239	-2	2467	54	4.8
30429.0	10000	41.8966	92.2468	-729	QL	2.8	0	7.3	0	1.4	2	0.377	0	1.976	-1	5.247	-2	2473	57	4.8
30429.1	10000	41.8965	92.2459	-728	QL	2.9	1	7.5	0	1.4	2	0.386	0	2.114	0	5.471	-1	2454	45	4.8
30429.2	10000	41.8965	92.2450	-727	QL	2.7	0	7.1	0	1.3	1	0.383	0	2.056	0	5.364	-1	2426	44	4.8
30429.3	10000	41.8965	92.2441	-726	QL	2.7	0	6.7	-1	1.2	1	0.402	1	2.199	0	5.476	-1	2381	37	4.8
30429.4	10000	41.8965	92.2432	-726	QL	2.6	0	6.2	-2	1.2	0	0.424	1	2.191	0	5.164	-2	2342	55	4.8
30429.5	10000	41.8964	92.2423	-726	QL	2.7	0	6.1	-2	1.2	0	0.441	1	2.305	0	5.222	-2	2300	65	4.8
30429.6	10000	41.8964	92.2414	-725	QL	2.6	0	5.9	-2	1.1	-1	0.443	1	2.305	0	5.208	-2	2256	38	4.8
30429.7	10000	41.8964	92.2405	-724	QL	2.6	0	5.7	-2	1.1	-1	0.463	2	2.421	0	5.231	-2	2207	57	4.8
30429.8	10000	41.8964	92.2396	-723	QL	2.6	0	5.7	-2	1.0	-1	0.457	2	2.507	1	5.482	-1	2199	59	4.7
30429.9	10000	41.8964	92.2387	-721	QL	2.7	0	6.1	-2	1.0	-2	0.446	2	2.705	1	6.060	0	2204	35	4.7
30430.0	10000	41.8963	92.2378	-720	QL	2.5	0	6.2	-2	1.1	-1	0.405	1	2.362	0	5.834	-1	2216	63	4.7
30430.1	10000	41.8963	92.2369	-719	QL	2.5	0	6.4	-1	1.0	-1	0.395	1	2.441	1	6.184	0	2233	37	4.8
30430.2	10000	41.8963	92.2360	-718	QL	2.5	0	6.5	-1	1.0	-2	0.391	1	2.468	1	6.318	0	2271	62	4.8
30430.3	10000	41.8963	92.2351	-717	QL	2.9	1	6.7	-1	1.1	-1	0.436	1	2.748	1	6.308	0	2311	57	4.8
30430.4	10000	41.8963	92.2342	-715	QL	2.9	1	6.9	-1	1.1	-1	0.421	1	2.764	1	6.568	1	2337	38	4.8
30430.5	10000	41.8962	92.2333	-715	QL	2.8	1	7.0	0	1.1	-1	0.393	0	2.490	0	6.329	0	2350	55	4.8
30430.6	10000	41.8962	92.2324	-713	QL	2.6	0	7.0	0	1.2	0	0.367	0	2.217	0	6.034	0	2358	61	4.8
30430.7	10000	41.8962	92.2315	-712	QL	2.7	0	7.4	0	1.2	0	0.363	0	2.281	0	6.277	0	2389	35	4.8
30430.8	10000	41.8962	92.2306	-711	QL	2.7	0	7.6	1	1.2	1	0.359	0	2.211	0	6.154	0	2411	47	4.8
30430.9	10000	41.8961	92.2297	-710	QL	2.6	0	7.4	0	1.2	1	0.359	0	2.134	0	5.948	0	2408	57	4.8
30431.0	10000	41.8961	92.2288	-710	QL	2.4	0	7.4	0	1.3	1	0.321	-1	1.884	-1	5.860	-1	2416	53	4.8
30431.1	10000	41.8961	92.2279	-709	QL	2.5	0	7.6	1	1.3	1	0.322	-1	1.918	-1	5.950	-1	2446	60	4.8
30431.2	10000	41.8961	92.2270	-708	QL	2.7	1	7.7	1	1.2	1	0.350	0	2.176	0	6.211	0	2458	48	4.8
30431.3	10000	41.8961	92.2261	-707	QL	3.0	1	7.7	1	1.2	0	0.387	0	2.494	0	6.444	0	2476	52	4.8
30431.4	10000	41.8960	92.2252	-706	QL	3.2	1	7.4	0	1.2	0	0.434	1	2.771	1	6.387	0	2445	42	4.8
30431.5	10000	41.8960	92.2243	-705	QL	3.3	2	7.0	0	1.1	-1	0.503	1	3.182	2	6.328	0	2432	45	4.8
30431.6	10000	41.8960	92.2234	-704	QL	3.8	3	7.2	0	1.1	-1	0.535	2	3.493	3	6.530	1	2456	51	4.8
30431.7	10000	41.8960	92.2225	-702	QL	4.1	3	7.2	0	1.1	-1	0.566	2	3.773	4	6.662	1	2472	49	4.8
30431.8	10000	41.8959	92.2216	-701	QL	4.1	3	7.0	0	1.1	-1	0.587	2	3.815	4	6.501	1	2477	54	4.8
30431.9	10000	41.8959	92.2207	-700	QL	3.6	2	7.2	0	1.1	-1	0.504	2	3.287	3	6.518	1	2481	44	4.8
30432.0	10000	41.8959	92.2198	-698	QL	3.2	1	7.0	0	1.1	-1	0.465	2	2.930	2	6.302	1	2467	47	4.8
30432.1	10000	41.8959	92.2189	-697	QL	3.0	1	7.2	0	1.1	-1	0.425	1	2.834	2	6.662	1	2486	45	4.8
30432.2	10000	41.8959	92.2180	-695	QL	3.1	1	6.8	-1	1.1	-1	0.458	1	2.901	2	6.331	0	2497	55	4.8

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30432.3	10000	41.8958	92.2171	-693	QL	3.2	1	6.8	-1	1.1	-1	0.477	2	2.995	2	6.278	0	2493	45	4.8
30432.4	10000	41.8958	92.2162	-691	QL	3.0	1	6.8	-1	1.1	-1	0.441	1	2.833	1	6.417	0	2489	58	4.8
30432.5	10000	41.8958	92.2153	-689	QL	3.0	1	6.6	-1	1.1	-1	0.453	1	2.824	1	6.227	0	2455	37	4.8
30432.6	10000	41.8958	92.2144	-688	QL	3.3	2	6.6	-1	1.0	-1	0.497	2	3.180	2	6.403	0	2433	47	4.8
30432.7	10000	41.8957	92.2135	-685	QL	3.3	2	6.5	-1	1.1	-1	0.512	2	3.145	2	6.143	0	2423	45	4.9
30432.8	10000	41.8957	92.2126	-683	QL	3.1	1	6.4	-1	1.1	-1	0.488	2	2.893	2	5.928	0	2414	51	4.9
30432.9	10000	41.8957	92.2117	-681	QL	2.9	1	6.9	-1	1.1	-1	0.424	1	2.735	1	6.453	0	2401	36	4.9
30433.0	10000	41.8957	92.2108	-679	QL	2.5	0	6.7	-1	1.1	-1	0.378	0	2.368	0	6.259	0	2359	32	4.9
30433.1	10000	41.8957	92.2099	-677	QL	2.4	-1	6.6	-1	1.1	-1	0.359	0	2.186	0	6.087	0	2290	47	4.9
30433.2	10000	41.8956	92.2090	-674	QL	2.4	-1	6.5	-1	1.1	-1	0.364	0	2.174	0	5.968	0	2274	44	4.9
30433.3	10000	41.8956	92.2081	-671	QL	2.6	0	5.9	-2	1.1	-1	0.432	1	2.357	0	5.454	-1	2252	54	4.9
30433.4	10000	41.8956	92.2072	-668	QL	2.7	0	6.1	-2	1.1	-1	0.437	1	2.469	1	5.651	-1	2243	40	4.9
30433.5	10000	41.8956	92.2063	-666	QL	2.5	0	6.0	-2	1.1	-1	0.419	1	2.366	0	5.653	-1	2226	44	4.9
30433.6	10000	41.8955	92.2054	-664	QL	2.4	0	6.5	-1	1.1	0	0.369	0	2.103	0	5.698	-1	2238	37	4.9
30433.7	10000	41.8955	92.2045	-661	QL	2.3	-1	6.7	-1	1.1	0	0.340	0	1.990	-1	5.860	-1	2273	41	4.9
30433.8	10000	41.8955	92.2036	-659	QL	2.7	0	6.8	-1	1.1	-1	0.398	1	2.422	0	6.091	0	2328	47	4.9
30433.9	10000	41.8955	92.2027	-657	QL	2.8	0	7.2	0	1.1	-1	0.389	0	2.596	1	6.668	1	2341	42	4.9
30434.0	10000	41.8955	92.2018	-654	QL	2.6	0	8.1	1	1.1	-1	0.326	0	2.416	0	7.408	2	2369	43	4.9
30434.1	10000	41.8954	92.2009	-652	QL	2.7	0	8.3	2	1.1	0	0.324	-1	2.360	0	7.292	2	2381	57	4.9
30434.2	10000	41.8954	92.2000	-650	QL	3.1	1	8.4	2	1.1	0	0.373	0	2.733	1	7.333	2	2398	48	4.9
30434.3	10000	41.8954	92.1991	-648	QL	3.1	1	8.0	1	1.1	-1	0.385	0	2.801	1	7.284	2	2392	46	4.9
30434.4	10000	41.8954	92.1982	-646	QL	3.4	2	7.7	1	1.1	-1	0.445	1	3.131	2	7.040	1	2381	50	4.9
30434.5	10000	41.8953	92.1973	-644	QL	3.5	2	7.7	1	1.1	-1	0.449	1	3.199	2	7.121	2	2370	50	4.9
30434.6	10000	41.8953	92.1964	-642	QL	3.3	2	7.5	1	1.1	-1	0.444	1	3.040	2	6.849	1	2383	41	5.0
30434.7	10000	41.8953	92.1954	-640	QL	3.4	2	7.2	1	1.1	0	0.466	1	2.971	2	6.373	1	2375	45	5.0
30434.8	10000	41.8953	92.1945	-638	QL	3.0	1	7.2	1	1.1	-1	0.413	1	2.665	2	6.445	0	2376	43	5.0
30434.9	10000	41.8952	92.1936	-636	QL	2.6	1	7.2	1	1.2	0	0.367	0	2.271	2	6.182	0	2371	41	5.0
30435.0	10000	41.8952	92.1927	-635	QL	2.7	0	7.2	1	1.2	0	0.379	0	2.321	2	6.127	0	2364	39	5.0
30435.1	10000	41.8952	92.1918	-632	QL	2.6	0	7.2	1	1.2	0	0.364	0	2.293	2	6.305	0	2349	43	5.0
30435.2	10000	41.8952	92.1909	-630	QL	2.5	0	7.1	1	1.2	0	0.350	0	2.108	2	6.015	0	2331	48	5.0
30435.3	10000	41.8952	92.1900	-627	QL	2.4	-1	7.3	1	1.2	-1	0.323	0	1.971	-1	6.095	0	2306	43	5.0
30435.4	10000	41.8951	92.1891	-626	QL	2.2	-1	7.3	1	1.2	-1	0.299	0	1.842	-1	6.165	0	2302	57	5.0
30435.5	10000	41.8951	92.1882	-625	QL	2.4	0	7.0	1	1.2	0	0.344	0	2.059	0	5.988	0	2288	42	5.0
30435.6	10000	41.8951	92.1873	-624	QL	2.4	0	7.1	1	1.2	0	0.344	0	2.146	0	6.241	0	2291	48	5.0
30435.7	10000	41.8951	92.1864	-623	QL	2.3	-1	7.1	1	1.2	-1	0.332	0	2.028	0	6.102	0	2278	51	5.0
30435.8	10000	41.8951	92.1855	-622	QL	2.2	-1	7.1	1	1.2	-1	0.309	-1	1.880	-1	6.079	0	2252	43	5.0
30435.9	10000	41.8950	92.1846	-621	QL	2.2	-1	6.9	-1	1.2	-1	0.321	-1	1.917	-1	5.976	0	2242	57	5.0
30436.0	10000	41.8950	92.1837	-620	QL	2.3	-1	6.5	-1	1.1	-1	0.339	0	1.981	-1	5.838	-1	2232	37	5.0
30436.1	10000	41.8950	92.1828	-620	QL	2.2	-1	6.2	-2	1.1	-1	0.368	0	2.097	-1	5.701	-1	2215	54	5.0
30436.2	10000	41.8950	92.1819	-619	QL	2.2	-1	6.0	-2	1.1	-1	0.376	0	2.098	-1	5.579	-1	2202	57	5.0
30436.3	10000	41.8949	92.1810	-619	QL	2.5	0	5.5	-3	1.1	-1	0.450	1	2.303	0	5.118	-2	2180	48	5.0
30436.4	10000	41.8949	92.1801	-618	QL	2.4	0	5.3	-3	1.0	-1	0.454	1	2.326	0	5.121	-2	2164	49	5.0
30436.5	10000	41.8949	92.1792	-618	QL	2.1	-1	5.4	-3	1.1	-1	0.389	0	2.002	-1	5.148	-2	2169	50	5.0
30436.6	10000	41.8949	92.1783	-618	QL	1.9	-2	6.0	-2	1.1	-1	0.316	-1	1.777	-1	5.629	-1	2180	46	5.0
30436.7	10000	41.8949	92.1774	-618	QL	1.9	-1	5.9	-2	1.1	-1	0.322	-1	1.815	-1	5.636	-1	2193	40	5.0
30436.8	10000	41.8948	92.1765	-618	QL	2.1	-1	6.5	-1	1.1	-1	0.317	-1	1.910	-1	6.027	0	2237	54	5.0
30436.9	10000	41.8948	92.1756	-618	QL	2.2	-1	6.9	-1	1.1	-1	0.320	-1	2.025	-1	6.332	0	2296	49	5.0
30437.0	10000	41.8948	92.1747	-619	QL	2.3	-1	7.2	0	1.1	-1	0.313	-1	2.034	-1	6.492	0	2342	44	5.0
30437.1	10000	41.8948	92.1738	-619	QL	2.4	-1	7.7	1	1.1	-1	0.305	-1	2.136	-1	6.993	1	2401	44	5.0
30437.2	10000	41.8947	92.1729	-619	QL	2.0	1	8.0	1	1.2	-1	0.367	1	2.517	1	6.856	1	2464	58	5.0
30437.3	10000	41.8947	92.1720	-620	QL	1.9	1	8.0	1	1.2	-1	0.369	1	2.483	1	6.737	1	2505	65	5.0
30437.4	10000	41.8947	92.1711	-620	QL	3.3	2	8.2	1	1.2	0	0.403	1	2.749	1	6.828	1	2542	47	5.0

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30437.5	10000	41.8947	92.1702	-620	QL	3.3	2	7.9	1	1.2	0	0.422	1	2.768	1	6.567	1	2534	56	5.0
30437.6	10000	41.8946	92.1693	-620	QL	3.1	1	7.8	1	1.2	0	0.398	1	2.595	1	6.522	1	2507	47	5.0
30437.7	10000	41.8946	92.1684	-621	QL	2.8	1	7.7	1	1.2	0	0.370	0	2.349	0	6.341	0	2495	49	5.0
30437.8	10000	41.8946	92.1675	-622	QL	2.7	0	7.4	0	1.2	1	0.362	0	2.174	0	6.001	0	2474	48	5.0
30437.9	10000	41.8946	92.1666	-622	QL	2.5	0	7.0	0	1.2	1	0.355	0	2.035	0	5.738	-1	2472	48	5.0
30438.0	10000	41.8946	92.1657	-623	QL	2.9	1	7.0	0	1.3	1	0.421	1	2.340	0	5.557	-1	2475	44	5.0
30438.1	10000	41.8945	92.1648	-623	QL	2.8	0	7.1	0	1.2	1	0.394	1	2.245	0	5.696	-1	2468	44	5.0
30438.2	10000	41.8945	92.1639	-623	QL	2.7	0	6.7	-1	1.3	1	0.402	1	2.125	0	5.286	-2	2463	43	4.9
30438.3	10000	41.8945	92.1630	-623	QL	2.7	0	6.7	-1	1.3	1	0.404	1	2.127	0	5.261	-2	2461	52	4.9
30438.4	10000	41.8945	92.1621	-624	QL	2.8	1	6.9	-1	1.2	1	0.410	1	2.282	0	5.564	-1	2457	41	4.9
30438.5	10000	41.8944	92.1612	-624	QL	3.1	1	6.9	-1	1.3	1	0.447	1	2.423	0	5.418	-1	2455	41	4.9
30438.6	10000	41.8944	92.1603	-624	QL	3.0	1	6.7	-1	1.2	0	0.452	1	2.495	1	5.519	-1	2406	47	4.9
30438.7	10000	41.8944	92.1594	-624	QL	2.8	0	6.4	-1	1.2	0	0.427	1	2.354	0	5.510	-1	2362	46	4.9
30438.8	10000	41.8944	92.1585	-624	QL	2.6	0	6.3	-1	1.2	0	0.414	1	2.178	0	5.258	-2	2334	57	4.9
30438.9	10000	41.8944	92.1576	-624	QL	2.6	0	6.8	-1	1.2	0	0.387	0	2.276	0	5.882	-1	2332	47	4.9
30439.0	10000	41.8943	92.1567	-624	QL	2.9	1	6.7	-1	1.2	0	0.430	1	2.456	1	5.718	-1	2336	50	4.9
30439.1	10000	41.8943	92.1558	-625	QL	2.8	1	6.7	-1	1.1	0	0.426	1	2.478	1	5.816	-1	2322	43	4.9
30439.2	10000	41.8943	92.1549	-625	QL	3.1	1	7.2	0	1.1	-1	0.430	1	2.787	1	6.475	0	2338	40	4.9
30439.3	10000	41.8943	92.1540	-625	QL	3.1	1	7.2	0	1.1	-1	0.428	1	2.780	1	6.496	0	2370	41	4.9
30439.4	10000	41.8942	92.1531	-625	QL	3.1	1	7.5	0	1.1	-1	0.409	1	2.724	1	6.656	1	2398	32	4.9
30439.5	10000	41.8942	92.1522	-625	QL	3.2	1	7.3	0	1.1	-1	0.438	1	2.998	2	6.851	1	2420	53	4.9
30439.6	10000	41.8942	92.1513	-625	QL	3.3	2	7.3	0	1.1	-1	0.453	1	2.943	2	6.502	1	2424	45	4.9
30439.7	10000	41.8942	92.1504	-625	QL	3.4	2	7.3	0	1.1	-1	0.466	2	3.056	2	6.561	1	2431	39	4.9
30439.8	10000	41.8941	92.1495	-625	QL	3.2	1	7.1	0	1.2	0	0.454	1	2.803	1	6.173	0	2435	46	4.9
30439.9	10000	41.8941	92.1486	-625	QL	3.0	1	6.7	-1	1.2	0	0.443	1	2.500	1	5.648	-1	2413	51	4.9
30440.0	10000	41.8941	92.1477	-624	QL	2.7	0	7.1	0	1.2	0	0.382	0	2.323	1	6.076	0	2409	52	4.9
30440.1	10000	41.8941	92.1468	-623	QL	2.8	0	6.9	-1	1.2	0	0.409	1	2.434	1	5.955	0	2389	47	4.9
30440.2	10000	41.8941	92.1459	-622	QL	2.6	0	7.3	0	1.2	0	0.352	0	2.149	0	6.106	0	2378	52	4.9
30440.3	10000	41.8940	92.1450	-624	QL	2.6	0	7.0	0	1.2	0	0.380	0	2.291	0	6.033	0	2370	49	4.9
30440.4	10000	41.8940	92.1441	-625	QL	2.6	1	7.1	0	1.1	0	0.360	0	2.261	0	6.276	0	2359	47	4.9
30440.5	10000	41.8940	92.1432	-626	QL	2.9	1	7.3	1	1.1	-1	0.399	1	2.683	0	6.726	0	2363	50	4.9
30440.6	10000	41.8940	92.1423	-626	QL	2.9	1	7.5	1	1.1	-1	0.394	1	2.739	0	6.955	0	2363	42	4.9
30440.7	10000	41.8939	92.1414	-627	QL	3.1	1	7.3	1	1.1	-1	0.421	1	2.781	0	6.602	0	2351	58	4.9
30440.8	10000	41.8939	92.1405	-628	QL	3.0	1	7.5	1	1.1	-1	0.396	1	2.704	0	6.837	0	2362	47	4.9
30440.9	10000	41.8939	92.1396	-628	QL	3.2	1	7.4	1	1.1	-1	0.433	1	2.993	1	6.919	0	2365	47	4.9
30441.0	10000	41.8939	92.1387	-628	QL	2.8	1	7.9	1	1.1	-1	0.357	0	2.583	1	7.238	0	2354	43	4.9
30441.1	10000	41.8939	92.1378	-628	QL	2.8	0	7.9	1	1.1	-1	0.352	0	2.472	1	7.019	0	2354	50	4.9
30441.2	10000	41.8938	92.1370	-628	QL	2.5	1	8.0	1	1.2	0	0.310	-1	2.143	1	6.917	0	2341	42	4.9
30441.3	10000	41.8938	92.1362	-629	QL	2.5	1	7.9	1	1.2	0	0.320	-1	2.175	1	6.802	0	2332	42	4.9
30441.4	10000	41.8938	92.1353	-629	QL	2.6	0	8.1	1	1.1	0	0.317	-1	2.274	1	7.165	0	2333	41	4.9
30441.5	10000	41.8938	92.1345	-629	QL	2.6	0	8.3	1	1.2	0	0.309	-1	2.208	1	7.149	0	2341	47	4.9
30441.6	10000	41.8937	92.1337	-628	QL	2.5	0	8.2	1	1.1	0	0.308	-1	2.231	1	7.253	0	2341	50	4.9
30441.7	10000	41.8937	92.1328	-629	QL	2.8	1	8.1	1	1.1	-1	0.353	0	2.528	1	7.170	0	2358	52	4.9
30441.8	10000	41.8937	92.1320	-629	QL	2.7	0	7.9	1	1.1	-1	0.348	0	2.585	1	7.437	0	2367	57	4.9
30441.9	10000	41.8937	92.1312	-629	QL	3.0	1	7.6	1	1.1	-1	0.390	0	2.726	1	6.994	0	2403	56	4.9
30442.0	10000	41.8937	92.1303	-628	QL	2.9	1	7.9	1	1.1	-1	0.362	0	2.659	1	7.354	0	2423	53	4.9
30442.1	10000	41.8936	92.1295	-626	QL	2.8	1	7.7	1	1.1	-1	0.365	0	2.562	1	7.018	0	2449	48	4.9
30442.2	10000	41.8936	92.1287	-626	QL	2.9	1	7.5	1	1.1	-1	0.383	0	2.676	1	6.990	0	2460	56	4.9
30442.3	10000	41.8936	92.1279	-627	QL	3.2	1	7.5	1	1.1	-1	0.426	1	2.883	2	6.766	1	2495	44	4.9
30442.4	10000	41.8936	92.1270	-627	QL	3.1	1	7.3	1	1.2	0	0.429	1	2.706	1	6.308	1	2525	45	4.9
30442.5	10000	41.8936	92.1262	-627	QL	3.3	1	7.4	1	1.2	0	0.441	1	2.772	1	6.284	0	2553	55	5.0
30442.6	10000	41.8935	92.1254	-627	QL	3.4	2	7.2	0	1.1	-1	0.464	2	3.070	2	6.610	1	2544	43	5.0

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30442.7	10000	41.8935	92.1245	-626	QL	3.4	2	6.9	-1	1.1	-1	0.485	2	3.022	2	6.238	0	2556	39	5.0
30442.8	10000	41.8935	92.1237	-626	QL	3.4	2	6.8	-1	1.1	-1	0.504	2	3.204	2	6.351	0	2548	52	5.0
30442.9	10000	41.8935	92.1229	-625	QL	3.6	2	6.8	-1	1.1	-1	0.534	2	3.258	2	6.099	0	2558	43	5.0
30443.0	10000	41.8935	92.1220	-624	QL	3.4	2	6.6	-1	1.2	0	0.513	2	2.945	2	5.740	-1	2551	39	5.0
30443.1	10000	41.8934	92.1212	-622	QL	3.3	1	7.4	0	1.1	-1	0.442	1	2.890	2	6.531	1	2546	54	5.0
30443.2	10000	41.8934	92.1204	-622	QL	3.1	1	7.5	0	1.1	0	0.417	1	2.724	1	6.528	1	2555	51	5.0
30443.3	10000	41.8934	92.1196	-623	QL	3.3	2	7.6	0	1.2	0	0.434	1	2.773	2	6.392	0	2583	42	5.0
30443.4	10000	41.8934	92.1187	-623	QL	3.6	2	7.5	0	1.1	-1	0.480	1	3.220	2	6.703	1	2597	55	5.0
30443.5	10000	41.8933	92.1179	-623	QL	3.9	3	7.5	0	1.2	0	0.525	2	3.394	3	6.459	0	2629	34	5.0
30443.6	10000	41.8933	92.1171	-623	QL	4.0	3	7.2	0	1.1	0	0.562	2	3.539	3	6.293	0	2626	72	5.1
30443.7	10000	41.8933	92.1162	-623	QL	3.8	3	7.6	1	1.1	-1	0.503	2	3.409	3	6.772	1	2645	49	5.1
30443.8	10000	41.8933	92.1154	-622	QL	4.2	4	7.1	0	1.1	-1	0.595	3	3.804	4	6.388	0	2654	59	5.1
30443.9	10000	41.8933	92.1146	-622	QL	4.4	4	7.2	0	1.1	-1	0.605	4	3.963	4	6.553	1	2633	45	5.1
30444.0	10000	41.8932	92.1137	-622	QL	4.2	3	7.1	0	1.1	-1	0.585	3	3.810	4	6.513	1	2634	49	5.1
30444.1	10000	41.8932	92.1129	-621	QL	4.1	3	6.9	-1	1.1	0	0.592	3	3.611	3	6.099	0	2609	44	5.1
30444.2	10000	41.8932	92.1121	-621	QL	3.8	3	7.0	0	1.1	-1	0.544	3	3.450	3	6.346	0	2572	44	5.1
30444.3	10000	41.8932	92.1113	-618	QL	3.4	2	7.2	0	1.1	-1	0.477	2	3.090	2	6.484	0	2560	50	5.1
30444.4	10000	41.8932	92.1104	-615	QL	3.4	2	7.0	0	1.1	0	0.491	2	2.992	2	6.092	0	2553	50	5.1
30444.5	10000	41.8931	92.1096	-616	QL	3.1	2	6.9	0	1.2	0	0.450	2	2.682	2	5.962	0	2551	44	5.1
30444.6	10000	41.8931	92.1088	-619	QL	3.5	2	6.6	-1	1.1	0	0.537	3	3.087	2	5.746	-1	2539	58	5.1
30444.7	10000	41.8931	92.1079	-622	QL	3.5	2	7.2	0	1.2	0	0.490	2	3.020	2	6.168	0	2519	51	5.2
30444.8	10000	41.8931	92.1071	-623	QL	3.2	1	7.3	1	1.2	0	0.444	1	2.648	1	5.967	0	2520	59	5.2
30444.9	10000	41.8931	92.1063	-627	QL	3.0	1	7.1	1	1.2	0	0.429	1	2.461	1	5.733	-1	2530	46	5.2
30445.0	10000	41.8930	92.1055	-634	QL	3.5	2	7.0	1	1.3	1	0.493	2	2.746	2	5.569	-1	2510	51	5.2
30445.1	10000	41.8930	92.1046	-645	QL	3.5	2	6.9	-1	1.2	0	0.509	2	2.869	2	5.638	-1	2486	45	5.2
30445.2	10000	41.8930	92.1038	-653	QL	3.5	2	7.1	0	1.2	0	0.496	2	2.899	2	5.841	-1	2456	44	5.2
30445.3	10000	41.8930	92.1030	-650	QL	2.7	1	7.3	1	1.2	0	0.375	1	2.226	1	5.935	0	2448	48	5.2
30445.4	10000	41.8929	92.1021	-639	QL	2.5	1	7.2	1	1.2	0	0.347	1	2.071	1	5.976	0	2425	58	5.2
30445.5	10000	41.8929	92.1013	-629	QL	2.5	1	7.1	1	1.2	0	0.357	1	2.124	1	5.947	0	2427	39	5.2
30445.6	10000	41.8929	92.1005	-622	QL	2.7	1	7.3	1	1.2	0	0.368	1	2.264	1	6.152	0	2420	49	5.3
30445.7	10000	41.8929	92.0996	-617	QL	2.5	1	7.5	1	1.1	0	0.341	1	2.220	1	6.518	1	2432	45	5.3
30445.8	10000	41.8929	92.0988	-614	QL	2.6	1	7.7	1	1.2	0	0.338	1	2.237	1	6.616	1	2427	51	5.3
30445.9	10000	41.8928	92.0980	-610	QL	2.8	1	7.1	0	1.1	-1	0.393	1	2.491	1	6.345	0	2433	48	5.3
30446.0	10000	41.8928	92.0972	-608	QL	2.9	1	7.0	0	1.2	0	0.417	1	2.531	1	6.074	0	2438	43	5.3
30446.1	10000	41.8928	92.0963	-608	QL	2.9	1	6.8	-1	1.2	0	0.430	1	2.528	1	5.877	-1	2445	47	5.3
30446.2	10000	41.8928	92.0955	-607	QL	3.2	1	7.1	0	1.1	0	0.451	1	2.804	2	6.213	0	2444	51	5.3
30446.3	10000	41.8928	92.0947	-604	QL	3.3	1	6.8	-1	1.1	0	0.477	2	2.859	2	5.996	0	2451	50	5.3
30446.4	10000	41.8927	92.0938	-601	QL	3.1	1	6.9	-1	1.2	0	0.449	1	2.648	1	5.900	0	2458	42	5.3
30446.5	10000	41.8927	92.0930	-603	QL	3.1	1	6.8	-1	1.2	0	0.456	1	2.600	1	5.698	-1	2463	47	5.3
30446.6	10000	41.8927	92.0922	-604	QL	2.9	1	7.0	0	1.2	0	0.416	1	2.377	1	5.710	-1	2475	37	5.3
30446.7	10000	41.8927	92.0913	-605	QL	3.0	1	7.0	0	1.2	0	0.426	1	2.494	1	5.853	-1	2475	47	5.3
30446.8	10000	41.8926	92.0905	-604	QL	3.1	1	6.8	-1	1.2	0	0.457	1	2.520	1	5.509	-1	2493	51	5.4
30446.9	10000	41.8926	92.0897	-603	QL	2.8	1	6.8	-1	1.2	0	0.418	1	2.296	1	5.496	-1	2484	58	5.4
30447.0	10000	41.8926	92.0889	-603	QL	2.8	1	7.1	0	1.3	1	0.388	0	2.186	1	5.634	-1	2478	47	5.4
30447.1	10000	41.8926	92.0880	-602	QL	2.9	1	6.7	-1	1.2	0	0.429	1	2.354	1	5.490	-1	2467	50	5.4
30447.2	10000	41.8926	92.0872	-601	QL	2.6	1	6.9	-1	1.2	0	0.383	0	2.236	1	5.831	-1	2452	45	5.4
30447.3	10000	41.8925	92.0864	-600	QL	2.7	1	6.7	-1	1.2	0	0.404	1	2.299	1	5.687	-1	2440	38	5.4
30447.4	10000	41.8925	92.0855	-600	QL	2.8	1	6.8	-1	1.2	0	0.412	1	2.354	1	5.712	-1	2437	31	5.4
30447.5	10000	41.8925	92.0847	-599	QL	3.0	1	6.9	-1	1.2	0	0.437	1	2.574	1	5.887	-1	2436	53	5.4
30447.6	10000	41.8925	92.0839	-599	QL	3.2	1	6.8	-1	1.2	0	0.467	2	2.747	1	5.887	-1	2448	43	5.4
30447.7	10000	41.8925	92.0830	-598	QL	3.0	1	6.4	-1	1.1	-1	0.468	2	2.713	1	5.792	-1	2460	40	5.4
30447.8	10000	41.8924	92.0822	-597	QL	3.1	1	6.6	-1	1.1	-1	0.474	2	2.773	1	5.855	-1	2469	56	5.4

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30447.9	10000	41.8924	92.0814	-594	QK	3.0	1	6.6	-1	1.1	0	0.465	2	2.747	1	5.910	-1	2476	47	5.4
30448.0	10000	41.8924	92.0806	-592	QK	3.0	1	6.4	-1	1.1	0	0.470	2	2.708	1	5.767	-1	2472	55	5.4
30448.1	10000	41.8924	92.0797	-594	QK	2.9	1	6.3	-1	1.1	0	0.464	2	2.613	1	5.633	-1	2466	57	5.4
30448.2	10000	41.8923	92.0789	-597	QK	2.5	0	6.4	-1	1.2	1	0.381	0	2.081	0	5.460	-1	2461	46	5.4
30448.3	10000	41.8923	92.0781	-596	QK	2.3	-1	6.9	0	1.2	1	0.330	0	1.851	-1	5.602	-1	2456	50	5.4
30448.4	10000	41.8923	92.0772	-596	QK	2.3	-1	7.0	0	1.3	1	0.325	0	1.811	-1	5.575	-1	2449	47	5.4
30448.5	10000	41.8923	92.0764	-597	QK	2.2	-1	7.1	0	1.2	1	0.304	-1	1.743	-1	5.732	-1	2449	56	5.4
30448.6	10000	41.8923	92.0756	-598	QK	2.5	0	7.4	0	1.3	2	0.340	0	1.923	-1	5.661	-1	2461	43	5.4
30448.7	10000	41.8922	92.0747	-599	QK	2.5	0	8.0	1	1.3	1	0.314	-1	2.007	-1	6.386	0	2466	50	5.4
30448.8	10000	41.8922	92.0739	-600	QK	2.7	0	8.3	1	1.2	1	0.325	0	2.182	0	6.708	0	2481	39	5.4
30448.9	10000	41.8922	92.0731	-602	QK	2.7	0	8.4	2	1.2	1	0.323	0	2.244	0	6.936	1	2495	52	5.4
30449.0	10000	41.8922	92.0723	-604	QK	3.0	1	8.4	2	1.2	1	0.357	0	2.457	0	6.889	1	2500	48	5.4
30449.1	10000	41.8922	92.0714	-607	QK	3.0	1	8.6	2	1.2	1	0.349	0	2.489	0	7.131	1	2505	41	5.4
30449.2	10000	41.8921	92.0706	-610	QK	2.7	0	8.5	2	1.2	1	0.319	0	2.177	0	6.835	0	2498	58	5.5
30449.3	10000	41.8921	92.0698	-613	QK	2.5	0	7.9	1	1.2	1	0.313	-1	1.993	-1	6.358	0	2494	44	5.5
30449.4	10000	41.8921	92.0689	-614	QK	2.4	0	7.6	1	1.2	1	0.317	0	2.001	-1	6.314	0	2488	54	5.5
30449.5	10000	41.8921	92.0681	-614	QK	2.3	0	7.6	1	1.2	1	0.301	-1	1.866	-1	6.202	0	2499	43	5.5
30449.6	10000	41.8921	92.0673	-618	QK	2.4	0	7.3	0	1.2	0	0.332	0	2.090	0	6.293	0	2468	29	5.5
30449.7	10000	41.8920	92.0664	-625	QK	2.3	0	6.9	0	1.1	0	0.331	0	2.062	0	6.233	0	2465	44	5.5
30449.8	10000	41.8920	92.0656	-630	QK	2.7	0	6.8	-1	1.1	0	0.399	1	2.404	0	6.028	-1	2473	56	5.5
30449.9	10000	41.8920	92.0648	-633	QK	3.4	2	6.9	-1	1.1	0	0.495	2	3.124	2	6.316	0	2492	51	5.5
30450.0	10000	41.8920	92.0639	-636	QK	3.5	2	7.2	0	1.1	0	0.484	2	3.260	2	6.740	0	2503	46	5.5
30450.1	10000	41.8919	92.0631	-639	QK	3.7	3	7.0	0	1.1	0	0.533	3	3.466	3	6.503	0	2505	50	5.5
30450.2	10000	41.8919	92.0623	-643	QK	4.0	3	6.9	0	1.1	-1	0.577	3	3.785	3	6.558	0	2513	45	5.5
30450.3	10000	41.8919	92.0615	-646	QK	4.0	3	7.0	0	1.1	0	0.574	3	3.676	3	6.404	0	2531	46	5.4
30450.4	10000	41.8919	92.0606	-650	QK	4.0	3	7.0	0	1.1	0	0.567	3	3.593	3	6.342	0	2528	57	5.4
30450.5	10000	41.8919	92.0598	-653	QK	3.6	2	7.2	0	1.1	0	0.502	2	3.348	2	6.666	0	2510	45	5.4
30450.6	10000	41.8918	92.0590	-655	QK	3.2	2	7.0	0	1.2	0	0.465	2	2.798	1	6.014	-1	2505	39	5.4
30450.7	10000	41.8918	92.0581	-657	QK	3.4	2	6.9	0	1.2	0	0.498	2	3.068	2	6.163	-1	2495	61	5.4
30450.8	10000	41.8918	92.0573	-660	QK	3.1	1	6.7	-1	1.2	0	0.466	2	2.635	1	5.653	-1	2503	43	5.4
30450.9	10000	41.8918	92.0565	-662	QK	3.0	1	6.7	-1	1.2	0	0.453	2	2.551	1	5.635	-1	2486	52	5.4
30451.0	10000	41.8917	92.0556	-663	QK	2.9	1	7.1	0	1.2	0	0.405	1	2.387	1	5.900	-1	2478	56	5.4
30451.1	10000	41.8917	92.0548	-665	QK	3.0	1	7.1	0	1.2	0	0.420	1	2.509	1	5.979	-1	2487	63	5.4
30451.2	10000	41.8917	92.0540	-667	QK	3.3	1	7.8	1	1.2	1	0.481	2	2.614	1	5.431	-1	2509	44	5.4
30451.3	10000	41.8917	92.0532	-667	QK	3.0	1	7.4	0	1.2	0	0.406	1	2.574	1	6.337	0	2513	36	5.4
30451.4	10000	41.8917	92.0523	-669	QK	3.1	1	7.6	0	1.2	0	0.406	1	2.482	1	6.117	-1	2532	52	5.4
30451.5	10000	41.8916	92.0515	-671	QK	3.2	1	7.6	0	1.2	0	0.426	1	2.693	1	6.326	0	2532	56	5.4
30451.6	10000	41.8916	92.0507	-672	QK	3.0	1	7.5	0	1.2	0	0.399	1	2.549	1	6.394	0	2535	59	5.4
30451.7	10000	41.8916	92.0498	-674	QK	3.2	1	7.7	0	1.1	0	0.490	2	3.075	2	6.280	0	2537	54	5.4
30451.8	10000	41.8916	92.0490	-675	QK	3.1	1	7.9	0	1.1	0	0.466	2	2.843	1	6.102	-1	2544	45	5.4
30451.9	10000	41.8915	92.0482	-676	QK	3.2	1	7.1	0	1.1	0	0.450	2	2.907	1	6.458	0	2528	44	5.4
30452.0	10000	41.8915	92.0473	-677	QK	3.2	1	6.4	-1	1.1	0	0.522	2	3.138	2	6.009	-1	2510	37	5.4
30452.1	10000	41.8915	92.0465	-680	QK	3.3	1	6.3	-1	1.0	-1	0.529	2	3.199	2	6.043	-1	2480	61	5.4
30452.2	10000	41.8915	92.0457	-683	QK	3.4	2	6.1	-2	1.1	-1	0.522	2	3.310	2	6.345	0	2472	45	5.4
30452.3	10000	41.8915	92.0449	-686	QK	3.4	2	5.8	-2	1.1	-1	0.556	2	3.162	2	6.688	-1	2462	41	5.4
30452.4	10000	41.8914	92.0440	-688	QK	3.2	2	5.6	-2	1.1	-1	0.522	2	2.750	1	6.270	-2	2438	51	5.4
30452.5	10000	41.8914	92.0432	-690	QK	3.2	2	5.6	-2	1.1	-1	0.571	2	2.954	2	6.177	-2	2429	56	5.4
30452.6	10000	41.8914	92.0424	-693	QK	3.2	2	5.6	-2	1.1	-1	0.552	2	2.912	2	6.273	-2	2417	41	5.4
30452.7	10000	41.8914	92.0415	-694	QK	3.0	2	5.9	-2	1.1	-1	0.511	2	2.807	1	5.954	-1	2409	42	5.4
30452.8	10000	41.8914	92.0407	-694	QK	3.0	2	5.9	-2	1.1	-1	0.550	2	2.987	2	5.427	-2	2432	43	5.4
30452.9	10000	41.8913	92.0399	-695	QK	3.1	2	6.1	-2	1.1	-1	0.513	2	2.766	1	5.396	-2	2436	58	5.4
30453.0	10000	41.8913	92.0390	-700	QK	3.5	2	6.3	-1	1.1	0	0.564	3	3.295	2	5.838	-1	2443	32	5.4

LINE 260 DATA ACQUIRED 80325 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
30453.1	10000	41.8913	92.0382	-705	QK	3.7	2	6.4	-1	1.1	0	0.572	3	3.368	2	5.892	-1	2472	42	5.4
30453.2	10000	41.8913	92.0374	-707	QK	3.8	3	6.6	-1	1.1	0	0.571	3	3.463	3	6.063	-1	2478	62	5.3
30453.3	10000	41.8912	92.0366	-709	QK	4.1	3	6.9	0	1.1	0	0.590	3	3.735	3	6.331	0	2502	41	5.3
30453.4	10000	41.8912	92.0357	-711	QK	4.0	3	7.1	0	1.1	0	0.567	3	3.636	3	6.410	0	2519	40	5.3
30453.5	10000	41.8912	92.0349	-714	QK	3.9	3	7.4	0	1.1	0	0.529	2	3.443	2	6.502	1	2527	45	5.3
30453.6	10000	41.8912	92.0341	-716	QK	3.6	2	7.6	0	1.1	0	0.481	2	3.307	2	6.881	1	2531	37	5.3
30453.7	10000	41.8912	92.0332	-718	QK	3.2	1	7.7	1	1.1	0	0.416	1	2.821	1	6.786	0	2525	47	5.3
30453.8	10000	41.8911	92.0324	-719	QK	3.1	1	8.2	1	1.2	0	0.382	1	2.710	1	7.087	1	2540	52	5.3
30453.9	10000	41.8911	92.0316	-722	QK	2.9	1	8.7	2	1.2	0	0.335	1	2.485	0	7.417	1	2551	34	5.3
30454.0	10000	41.8911	92.0308	-724	QK	2.7	0	8.6	2	1.2	1	0.317	0	2.209	0	6.964	1	2556	42	5.3
30454.1	10000	41.8911	92.0299	-726	QK	3.0	1	8.2	1	1.2	1	0.367	1	2.404	0	6.556	0	2547	35	5.3
30454.2	10000	41.8910	92.0291	-727	QK	2.8	1	8.1	1	1.2	1	0.340	0	2.275	0	6.694	0	2527	53	5.3
30454.3	10000	41.8910	92.0283	-728	QK	3.2	1	7.9	1	1.3	1	0.410	1	2.545	1	6.209	0	2557	46	5.3
30454.4	10000	41.8910	92.0274	-730	QK	3.4	2	7.9	1	1.3	1	0.425	1	2.697	1	6.347	0	2562	30	5.3
30454.5	10000	41.8910	92.0266	-731	QK	3.5	2	7.7	1	1.2	1	0.460	2	2.944	1	6.395	0	2543	53	5.3
30454.6	10000	41.8910	92.0258	-732	QK	3.5	2	7.1	0	1.2	0	0.498	2	3.028	2	6.082	-1	2525	35	5.3
30454.7	10000	41.8909	92.0249	-734	QK	3.5	2	6.9	0	1.1	0	0.509	2	3.176	2	6.247	0	2532	51	5.3
30454.8	10000	41.8909	92.0241	-735	QK	3.5	2	7.3	0	1.1	0	0.473	2	3.147	2	6.648	0	2558	53	5.3
30454.9	10000	41.8909	92.0233	-736	QK	3.6	2	7.1	0	1.1	0	0.501	2	3.118	2	6.224	0	2569	36	5.3
30455.0	10000	41.8909	92.0225	-737	QK	3.5	2	6.9	0	1.1	0	0.505	2	3.096	2	6.131	-1	2544	54	5.3
30455.1	10000	41.8908	92.0216	-739	QK	3.4	2	7.3	1	1.2	1	0.463	2	2.831	1	6.115	-1	2551	55	5.3
30455.2	10000	41.8908	92.0208	-740	QK	3.2	1	7.3	1	1.2	1	0.443	1	2.656	1	5.999	-1	2554	60	5.3
30455.3	10000	41.8908	92.0200	-741	QK	3.1	1	7.5	1	1.3	1	0.418	1	2.497	0	5.969	-1	2557	54	5.3
30455.4	10000	41.8908	92.0191	-742	QK	3.1	1	7.3	1	1.3	1	0.416	1	2.429	0	5.840	-1	2542	52	5.3
30455.5	10000	41.8908	92.0183	-743	QK	3.2	1	7.0	1	1.2	1	0.458	1	2.560	1	5.587	-1	2530	45	5.3
30455.6	10000	41.8907	92.0175	-744	QK	3.5	2	7.2	1	1.2	1	0.487	2	2.940	1	6.038	-1	2532	47	5.3
30455.7	10000	41.8907	92.0166	-744	QK	3.3	2	7.6	1	1.1	0	0.438	1	2.908	1	6.634	0	2522	55	5.3
30455.8	10000	41.8907	92.0158	-745	QK	3.3	2	7.0	0	1.1	0	0.471	2	3.006	2	6.388	0	2521	44	5.3
30455.9	10000	41.8907	92.0150	-746	QK	3.1	1	6.9	0	1.1	0	0.441	1	2.846	1	6.451	0	2504	45	5.3
30456.0	10000	41.8907	92.0142	-747	QK	3.1	1	6.8	-1	1.1	0	0.457	1	2.940	1	6.435	0	2473	46	5.3
30456.1	10000	41.8906	92.0133	-747	QK	3.0	1	7.2	0	1.1	0	0.420	1	2.853	1	6.793	0	2439	46	5.4
30456.2	10000	41.8906	92.0125	-747	QK	2.5	0	7.2	0	1.1	0	0.348	0	2.364	0	6.784	0	2384	55	5.4
30456.3	10000	41.8906	92.0117	-748	QK	2.3	-1	6.9	0	1.1	-1	0.327	0	2.146	0	6.565	0	2352	60	5.4
30456.4	10000	41.8906	92.0108	-748	QK	2.2	-1	6.5	-1	1.0	-1	0.345	0	2.194	0	6.358	0	2326	46	5.4
30456.5	10000	41.8905	92.0100	-749	QK	2.5	0	6.5	-1	1.0	-1	0.384	0	2.509	1	6.539	0	2291	33	5.4
30456.6	10000	41.8905	92.0092	-749	QK	2.9	1	6.4	-1	1.0	-1	0.452	1	2.969	1	6.565	0	2311	48	5.4
30456.7	10000	41.8905	92.0083	-749	QK	3.2	1	6.5	-1	1.0	-1	0.486	2	3.249	2	6.685	0	2328	49	5.4
30456.8	10000	41.8905	92.0075	-749	QK	3.1	1	6.1	-2	1.0	-1	0.504	2	3.165	2	6.283	0	2331	41	5.4
30456.9	10000	41.8905	92.0067	-749	QK	3.3	2	6.2	-1	1.0	-1	0.536	3	3.480	3	6.490	0	2366	37	5.4
30457.0	10000	41.8904	92.0059	-749	QK	3.3	2	6.2	-1	1.0	-1	0.527	2	3.354	2	6.360	0	2360	48	5.4
30457.1	10000	41.8904	92.0050	-748	QK	3.5	2	6.1	-1	1.0	-1	0.570	3	3.485	3	6.114	-1	2356	55	5.4
30457.2	10000	41.8904	92.0041	-747	QK	3.4	2	6.2	-1	1.0	-1	0.550	3	3.414	2	6.203	0	2336	55	5.4
30457.3	10000	41.8905	92.0033	-746	QK	3.3	2	6.3	-1	1.0	-1	0.520	2	3.239	2	6.223	0	2313	51	5.4
30457.4	10000	41.8905	92.0024	-747	QK	3.1	1	6.1	-2	1.0	-1	0.513	2	3.142	2	6.120	-1	2304	55	5.4
30457.5	10000	41.8905	92.0015	-747	QK	3.4	2	6.3	-1	1.0	-1	0.533	3	3.384	2	6.345	0	2305	48	5.4
30457.6	10000	41.8905	92.0006	-749	QK	3.4	2	6.3	-1	1.0	-1	0.546	3	3.425	2	6.267	0	2298	42	5.4

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41948.9	10000	41.8080	93.9995	-769	QW	2.4	1	4.6	-1	1.3	2	0.525	2	1.866	0	3.556	-3	1555	46	0.9
41948.8	10000	41.8080	93.9987	-771	QW	2.5	1	4.8	-1	1.3	2	0.519	2	1.949	0	3.754	-2	1551	38	0.9
41948.7	10000	41.8080	93.9978	-773	QW	2.5	1	4.6	-1	1.3	2	0.541	2	1.950	0	3.606	-3	1532	50	0.9
41948.6	10000	41.8080	93.9970	-775	QW	2.4	1	4.7	-1	1.3	2	0.510	1	1.897	0	3.716	-2	1522	46	0.9
41948.5	10000	41.8080	93.9962	-778	QW	2.3	1	4.8	-1	1.2	2	0.472	1	1.852	0	3.926	-2	1509	45	0.9
41948.4	10000	41.8080	93.9953	-782	QW	2.1	0	4.6	-1	1.2	1	0.460	1	1.773	0	3.858	-2	1493	45	0.9
41948.3	10000	41.8080	93.9945	-785	QW	2.2	1	4.6	-1	1.1	1	0.473	1	1.980	0	4.190	-2	1488	49	0.9
41948.2	10000	41.8080	93.9937	-788	QW	2.2	1	5.2	0	1.1	1	0.421	1	1.966	0	4.673	-1	1500	45	0.9
41948.1	10000	41.8080	93.9929	-790	QW	2.0	0	5.2	0	1.2	1	0.396	0	1.703	0	4.297	-1	1528	37	0.9
41948.0	10000	41.8080	93.9920	-793	QW	2.0	0	5.6	0	1.2	2	0.359	0	1.644	-1	4.579	-1	1565	54	1.0
41947.9	10000	41.8080	93.9912	-796	QW	2.2	1	5.5	0	1.3	2	0.405	0	1.771	0	4.373	-1	1584	54	1.0
41947.8	10000	41.8080	93.9904	-798	QW	2.0	0	5.6	0	1.3	2	0.365	0	1.586	-1	4.343	-1	1601	56	1.0
41947.7	10000	41.8081	93.9895	-801	QW	2.1	0	6.4	-1	1.3	3	0.322	-1	1.568	-1	4.867	-1	1621	48	1.0
41947.6	10000	41.8081	93.9887	-803	QW	1.8	0	6.4	-1	1.4	2	0.286	-1	1.334	-1	4.673	-1	1641	61	1.0
41947.5	10000	41.8081	93.9879	-805	QW	1.9	0	6.2	-1	1.4	2	0.305	-1	1.359	-1	4.455	-1	1650	57	1.0
41947.4	10000	41.8081	93.9871	-806	QW	2.0	0	6.1	-1	1.3	2	0.333	-1	1.540	-1	4.632	-1	1641	43	1.0
41947.3	10000	41.8081	93.9862	-808	QW	2.1	0	5.8	0	1.3	2	0.367	0	1.647	-1	4.488	-1	1640	50	1.0
41947.2	10000	41.8081	93.9854	-810	QW	2.0	0	5.8	0	1.3	1	0.339	0	1.577	-1	4.648	-1	1634	58	1.0
41947.1	10000	41.8081	93.9846	-813	QW	2.1	0	5.7	0	1.2	1	0.371	0	1.735	0	4.676	-1	1625	51	1.0
41947.0	10000	41.8081	93.9837	-814	QW	2.5	1	4.8	-1	1.2	1	0.519	1	2.046	0	3.942	-2	1604	47	1.0
41946.9	10000	41.8081	93.9829	-817	QW	2.4	1	4.5	-1	1.2	1	0.538	1	2.072	0	3.849	-2	1589	33	1.0
41946.8	10000	41.8081	93.9821	-819	QW	2.5	1	4.8	-1	1.1	1	0.516	1	2.220	0	4.304	-1	1571	48	1.0
41946.7	10000	41.8081	93.9813	-822	QW	2.2	0	5.1	0	1.1	1	0.429	0	1.944	0	4.534	-1	1562	53	1.0
41946.6	10000	41.8081	93.9804	-824	QW	2.1	0	5.2	0	1.1	1	0.401	0	1.847	0	4.609	-1	1553	53	1.0
41946.5	10000	41.8081	93.9796	-826	QW	2.2	1	5.1	0	1.1	1	0.433	0	1.943	0	4.483	-1	1556	31	1.1
41946.4	10000	41.8081	93.9788	-828	QW	2.4	1	5.5	0	1.1	1	0.506	1	2.167	0	4.287	-1	1554	43	1.1
41946.3	10000	41.8081	93.9780	-830	QW	2.4	1	5.5	0	1.1	1	0.481	1	2.190	0	4.553	-1	1572	40	1.1
41946.2	10000	41.8081	93.9771	-831	QW	2.5	1	5.3	0	1.1	1	0.468	1	2.291	0	4.897	0	1571	44	1.1
41946.1	10000	41.8081	93.9763	-832	QW	2.5	1	5.4	0	1.1	1	0.466	1	2.114	0	4.537	-1	1572	34	1.1
41946.0	10000	41.8082	93.9755	-835	QW	2.6	1	5.5	0	1.1	1	0.519	1	2.312	0	4.454	-1	1575	47	1.1
41945.9	10000	41.8082	93.9746	-836	QW	2.6	1	5.5	0	1.1	1	0.508	1	2.348	0	4.620	-1	1574	39	1.1
41945.8	10000	41.8082	93.9738	-838	QW	2.6	1	5.3	0	1.1	1	0.493	1	2.378	0	4.820	-1	1571	43	1.1
41945.7	10000	41.8082	93.9730	-840	QW	2.4	1	5.6	0	1.1	1	0.428	0	2.164	0	5.062	0	1565	41	1.1
41945.6	10000	41.8082	93.9722	-841	QW	2.2	1	5.5	0	1.2	1	0.391	0	1.961	0	5.010	0	1545	37	1.1
41945.5	10000	41.8082	93.9713	-843	QW	2.3	1	5.3	0	1.2	1	0.432	0	1.955	0	4.529	-1	1541	45	1.1
41945.4	10000	41.8082	93.9705	-844	QW	2.2	1	5.5	0	1.2	1	0.411	0	1.944	0	4.726	-1	1537	42	1.1
41945.3	10000	41.8082	93.9697	-845	QW	2.1	1	5.5	0	1.2	1	0.392	0	1.832	0	4.669	-1	1532	45	1.1
41945.2	10000	41.8082	93.9688	-847	QW	2.0	0	5.5	0	1.2	1	0.378	0	1.743	0	4.610	-1	1535	48	1.1
41945.1	10000	41.8082	93.9680	-848	QW	1.8	0	5.7	0	1.2	1	0.309	-1	1.470	-1	4.757	-1	1536	34	1.1
41945.0	10000	41.8082	93.9672	-849	QW	1.7	0	5.6	0	1.2	1	0.321	-1	1.528	-1	4.768	-1	1546	46	1.2
41944.9	10000	41.8082	93.9664	-850	QW	1.7	0	5.6	0	1.2	1	0.310	-1	1.422	-1	4.593	-1	1558	44	1.2
41944.8	10000	41.8082	93.9655	-851	QW	1.5	0	5.5	0	1.2	1	0.248	-1	1.175	-1	4.745	-1	1563	44	1.2
41944.7	10000	41.8082	93.9647	-852	QW	1.6	0	5.4	0	1.3	1	0.262	-1	1.152	-1	4.402	-1	1565	41	1.2
41944.6	10000	41.8082	93.9639	-853	QW	1.6	0	5.4	0	1.3	1	0.288	-1	1.222	-1	4.249	-1	1559	43	1.2
41944.5	10000	41.8082	93.9630	-854	QW	1.7	0	5.1	0	1.3	1	0.319	-1	1.273	-1	3.987	-1	1548	46	1.2
41944.4	10000	41.8083	93.9622	-855	QW	1.7	0	4.7	0	1.2	1	0.420	0	1.582	-1	3.770	-2	1551	41	1.2
41944.3	10000	41.8083	93.9614	-855	QW	1.7	0	4.6	0	1.2	1	0.437	0	1.622	-1	3.711	-2	1543	48	1.2
41944.2	10000	41.8083	93.9605	-855	QW	1.7	0	4.6	0	1.2	1	0.470	1	1.787	0	3.800	-2	1535	34	1.2
41944.1	10000	41.8083	93.9597	-855	QW	1.7	0	4.7	0	1.2	1	0.507	1	2.037	0	4.016	-1	1533	45	1.2
41944.0	10000	41.8083	93.9589	-855	QW	1.7	0	4.7	0	1.2	1	0.501	1	2.049	0	4.093	-1	1523	47	1.2
41943.9	10000	41.8083	93.9581	-856	QW	1.6	0	4.6	-1	1.2	1	0.488	1	1.971	0	4.042	-2	1526	45	1.2
41943.8	10000	41.8083	93.9572	-856	QW	1.6	0	4.8	-1	1.2	1	0.461	1	1.915	0	4.151	-2	1537	43	1.2

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41943.7	10000	41.8083	93.9564	-857	QW	1.9	0	5.1	-1	1.2	1	0.372	0	1.591	-1	4.271	-1	1531	44	1.2
41943.6	10000	41.8083	93.9556	-857	QW	1.7	-1	5.2	0	1.2	2	0.319	-1	1.364	-1	4.278	-1	1520	40	1.2
41943.5	10000	41.8083	93.9548	-858	QW	1.3	-2	5.4	0	1.2	2	0.245	-1	1.091	-2	4.445	-1	1516	42	1.2
41943.4	10000	41.8083	93.9539	-858	QW	1.3	-2	5.4	0	1.2	2	0.237	-1	1.056	-2	4.446	-1	1520	38	1.3
41943.3	10000	41.8083	93.9531	-858	QW	1.3	-2	5.5	0	1.2	2	0.239	-1	1.071	-2	4.481	-1	1526	42	1.3
41943.2	10000	41.8083	93.9523	-858	QW	1.2	-2	5.8	0	1.2	2	0.200	-2	0.953	-2	4.758	-1	1519	36	1.3
41943.1	10000	41.8083	93.9514	-857	QW	1.2	-2	6.1	1	1.2	2	0.192	-2	0.960	-2	4.998	0	1516	33	1.3
41943.0	10000	41.8083	93.9506	-857	QW	1.2	-2	6.0	1	1.2	1	0.205	-2	1.022	-2	4.996	0	1525	42	1.3
41942.9	10000	41.8083	93.9498	-857	QW	1.4	-1	6.3	1	1.2	1	0.220	-2	1.160	-2	5.282	0	1547	33	1.3
41942.8	10000	41.8083	93.9490	-856	QW	1.6	-1	6.1	1	1.2	1	0.269	-1	1.415	-1	5.264	0	1572	48	1.3
41942.7	10000	41.8083	93.9481	-857	QW	1.6	-1	6.1	1	1.2	1	0.254	-1	1.325	-1	5.218	0	1597	49	1.3
41942.6	10000	41.8084	93.9473	-857	QW	1.5	-1	6.2	1	1.1	1	0.249	-1	1.335	-1	5.362	0	1620	48	1.3
41942.5	10000	41.8084	93.9465	-857	QW	2.0	0	6.1	1	1.1	1	0.328	0	1.780	0	5.429	0	1654	50	1.3
41942.4	10000	41.8084	93.9456	-856	QW	2.1	0	5.8	0	1.1	1	0.357	0	1.893	0	5.309	0	1656	48	1.3
41942.3	10000	41.8084	93.9448	-856	QW	2.2	1	5.8	1	1.1	0	0.378	0	2.068	0	5.473	0	1663	45	1.3
41942.2	10000	41.8084	93.9440	-856	QW	2.2	0	5.6	0	1.0	0	0.388	0	2.149	1	5.534	1	1654	32	1.3
41942.1	10000	41.8084	93.9432	-856	QW	2.0	0	5.8	0	1.0	0	0.340	0	1.924	0	5.654	1	1638	56	1.3
41942.0	10000	41.8084	93.9423	-856	QW	2.0	0	5.7	0	1.0	0	0.356	0	1.961	0	5.515	1	1619	42	1.3
41941.9	10000	41.8084	93.9415	-855	QW	1.9	0	5.6	0	1.0	0	0.350	0	1.887	0	5.385	0	1593	41	1.3
41941.8	10000	41.8084	93.9407	-855	QW	1.8	-1	5.5	0	1.0	0	0.318	-1	1.670	0	5.247	0	1562	53	1.3
41941.7	10000	41.8084	93.9398	-855	QW	1.7	-1	5.6	0	1.1	0	0.296	-1	1.564	-1	5.278	0	1553	50	1.3
41941.6	10000	41.8084	93.9390	-855	QW	1.6	-1	5.7	0	1.1	0	0.274	-1	1.420	-1	5.187	0	1525	35	1.3
41941.5	10000	41.8084	93.9382	-854	QW	1.7	-1	5.7	0	1.1	1	0.305	-1	1.524	-1	4.991	0	1525	31	1.3
41941.4	10000	41.8084	93.9374	-854	QW	1.9	0	5.5	0	1.1	1	0.338	0	1.631	-1	4.821	-1	1522	48	1.3
41941.3	10000	41.8084	93.9365	-853	QW	1.8	0	5.6	0	1.1	1	0.315	0	1.548	-1	4.919	0	1508	43	1.3
41941.2	10000	41.8084	93.9357	-853	QW	1.9	0	5.5	0	1.1	1	0.357	0	1.709	-1	4.793	-1	1510	42	1.3
41941.1	10000	41.8084	93.9349	-853	QW	1.8	0	5.4	0	1.1	1	0.347	0	1.598	-1	4.601	-1	1508	44	1.3
41941.0	10000	41.8084	93.9341	-853	QW	1.7	-1	5.2	-1	1.1	0	0.363	0	1.654	-1	4.560	-1	1491	42	1.3
41940.9	10000	41.8084	93.9332	-853	QW	1.6	-1	5.1	-1	1.1	0	0.394	0	1.893	-1	4.806	-1	1484	39	1.3
41940.8	10000	41.8085	93.9324	-852	QW	1.6	-1	5.0	-1	1.1	0	0.395	0	1.807	-1	4.570	-1	1479	51	1.3
41940.7	10000	41.8085	93.9316	-852	QW	1.4	-1	4.9	-1	1.1	0	0.433	0	2.017	-1	4.654	-1	1480	34	1.4
41940.6	10000	41.8085	93.9307	-852	QW	1.3	-2	4.8	-1	1.1	0	0.480	0	2.343	-1	4.879	-1	1478	46	1.4
41940.5	10000	41.8085	93.9299	-851	QW	1.3	-2	4.7	-1	1.1	0	0.506	0	2.573	-1	5.090	-1	1471	37	1.4
41940.4	10000	41.8085	93.9291	-851	QW	1.3	-2	4.7	-1	1.1	0	0.554	0	2.810	-1	5.074	-1	1478	39	1.4
41940.3	10000	41.8085	93.9283	-850	QW	1.3	-2	4.6	-1	1.1	0	0.524	0	2.677	-1	5.109	-1	1499	42	1.4
41940.2	10000	41.8085	93.9274	-850	QW	1.3	-2	4.6	-1	1.1	0	0.485	0	2.412	-1	4.968	-1	1526	49	1.4
41940.1	10000	41.8085	93.9266	-850	QW	1.3	-2	4.5	-1	1.1	0	0.456	0	2.481	-1	5.444	-1	1530	41	1.4
41940.0	10000	41.8085	93.9258	-850	QW	1.3	-2	4.5	-1	1.1	0	0.437	0	2.238	-1	5.126	-1	1519	45	1.4
41939.9	10000	41.8085	93.9250	-849	QW	1.3	-2	4.4	-1	1.1	0	0.443	0	2.565	-1	5.115	-1	1522	49	1.4
41939.8	10000	41.8085	93.9241	-849	QW	1.3	-2	4.4	-1	1.1	0	0.399	0	2.157	-1	5.409	-1	1535	43	1.4
41939.7	10000	41.8085	93.9233	-848	QW	1.3	-2	4.4	-1	1.1	0	0.362	0	1.987	-1	5.486	-1	1551	40	1.4
41939.6	10000	41.8085	93.9225	-848	QW	1.3	-2	4.4	-1	1.1	0	0.396	0	2.109	-1	5.320	-1	1559	45	1.4
41939.5	10000	41.8085	93.9216	-848	QW	1.3	-2	4.4	-1	1.1	0	0.426	0	2.118	-1	4.972	-1	1562	38	1.4
41939.4	10000	41.8085	93.9208	-847	QW	1.3	-2	4.4	-1	1.1	0	0.419	0	1.984	-1	4.733	-1	1568	54	1.4
41939.3	10000	41.8085	93.9200	-846	QW	1.3	-2	4.4	-1	1.1	0	0.405	0	2.108	-1	5.201	-1	1579	42	1.4
41939.2	10000	41.8085	93.9192	-846	QW	1.3	-2	4.4	-1	1.1	0	0.403	0	1.971	-1	4.896	-1	1586	55	1.4
41939.1	10000	41.8086	93.9183	-845	QW	1.3	-2	4.4	-1	1.1	0	0.397	0	1.864	-1	4.693	-1	1583	52	1.4
41939.0	10000	41.8086	93.9175	-845	QW	1.3	-2	4.4	-1	1.1	0	0.368	0	1.742	-1	4.738	-1	1581	34	1.4
41938.9	10000	41.8086	93.9167	-845	QW	1.3	-2	4.4	-1	1.1	0	0.340	0	1.667	-1	4.897	-1	1581	52	1.4
41938.8	10000	41.8086	93.9158	-845	QW	1.3	-2	4.4	-1	1.1	0	0.317	-1	1.498	-1	4.732	-1	1575	38	1.3
41938.7	10000	41.8086	93.9150	-845	QW	1.3	-2	4.4	-1	1.1	0	0.316	-1	1.401	-1	4.434	-1	1576	37	1.3
41938.6	10000	41.8086	93.9142	-845	QW	1.7	-1	5.5	-1	1.3	0	0.308	-1	1.304	-1	4.231	-2	1581	36	1.3

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41938.5	10000	41.8086	93.9134	-845	QW	1.6	-1	5.6	0	1.3	2	0.290	-1	1.265	-1	4.361	-1	1585	39	1.3
41938.4	10000	41.8086	93.9125	-845	QW	1.7	-1	5.2	0	1.3	2	0.325	0	1.304	-1	4.012	-2	1596	43	1.3
41938.3	10000	41.8086	93.9117	-844	QW	2.0	0	5.0	-1	1.3	2	0.397	0	1.562	-1	3.936	-2	1602	52	1.3
41938.2	10000	41.8086	93.9109	-844	QW	2.2	0	4.8	-1	1.3	2	0.450	1	1.735	0	3.855	-2	1600	51	1.3
41938.1	10000	41.8086	93.9100	-843	QW	2.4	1	5.4	0	1.2	1	0.456	1	2.041	0	4.473	-1	1616	44	1.3
41938.0	10000	41.8086	93.9092	-842	QW	2.6	1	5.5	1	1.1	1	0.472	1	2.281	1	4.835	-1	1620	44	1.3
41937.9	10000	41.8086	93.9084	-842	QW	2.7	2	5.8	1	1.1	0	0.464	1	2.448	1	5.281	0	1636	52	1.3
41937.8	10000	41.8086	93.9076	-841	QW	2.8	2	5.6	0	1.1	0	0.499	1	2.518	1	5.042	0	1641	33	1.3
41937.7	10000	41.8086	93.9068	-842	QW	2.5	1	5.6	0	1.1	0	0.458	1	2.315	1	5.054	0	1648	49	1.3
41937.6	10000	41.8086	93.9060	-841	QW	2.6	1	5.8	0	1.0	0	0.449	1	2.472	1	5.502	1	1641	54	1.3
41937.5	10000	41.8086	93.9052	-841	QW	2.7	2	6.1	0	1.1	0	0.444	1	2.486	1	5.596	1	1665	57	1.3
41937.4	10000	41.8086	93.9044	-840	QW	2.7	2	5.6	1	1.1	1	0.478	1	2.401	1	5.024	0	1663	47	1.3
41937.3	10000	41.8087	93.9037	-840	QW	2.6	2	5.9	1	1.1	1	0.448	1	2.306	1	5.144	0	1675	48	1.3
41937.2	10000	41.8087	93.9029	-840	QW	2.7	2	5.4	1	1.2	1	0.494	1	2.286	1	4.630	-1	1671	42	1.3
41937.1	10000	41.8087	93.9021	-840	QW	2.4	1	5.5	1	1.2	1	0.434	1	2.057	0	4.737	-1	1667	29	1.3
41937.0	10000	41.8087	93.9013	-840	QW	2.6	1	5.7	0	1.1	0	0.449	1	2.381	1	5.304	0	1660	40	1.3
41936.9	10000	41.8087	93.9005	-840	QW	2.2	1	5.8	0	1.1	0	0.388	0	2.046	0	5.276	0	1665	44	1.3
41936.8	10000	41.8087	93.8997	-840	QW	1.9	0	6.0	0	1.1	0	0.326	0	1.792	0	5.495	0	1661	50	1.3
41936.7	10000	41.8087	93.8990	-840	QW	1.9	0	6.2	0	1.1	0	0.301	-1	1.686	0	5.603	1	1662	40	1.3
41936.6	10000	41.8087	93.8982	-840	QW	1.9	0	6.3	0	1.1	1	0.307	-1	1.728	0	5.636	1	1662	48	1.3
41936.5	10000	41.8087	93.8974	-840	QW	1.9	0	6.4	0	1.1	1	0.305	-1	1.751	0	5.744	1	1663	57	1.3
41936.4	10000	41.8087	93.8966	-839	QW	2.4	1	6.6	1	1.1	2	0.356	0	2.057	0	5.770	1	1678	48	1.2
41936.3	10000	41.8087	93.8958	-839	QW	2.2	1	6.6	2	1.2	2	0.352	0	1.895	0	5.387	0	1692	44	1.2
41936.2	10000	41.8087	93.8950	-839	QW	2.7	2	6.5	2	1.2	2	0.413	0	2.167	1	5.242	0	1696	44	1.2
41936.1	10000	41.8087	93.8942	-839	QW	2.7	2	6.2	1	1.2	1	0.444	1	2.302	1	5.186	0	1701	43	1.2
41936.0	10000	41.8087	93.8934	-839	QW	2.7	2	6.3	1	1.2	1	0.484	1	2.511	1	5.189	0	1712	56	1.2
41935.9	10000	41.8087	93.8927	-839	QW	2.3	1	6.2	1	1.2	1	0.529	1	2.551	1	4.820	-1	1714	53	1.2
41935.8	10000	41.8087	93.8919	-839	QW	2.3	1	6.2	1	1.2	1	0.488	1	2.413	1	4.941	-1	1706	52	1.2
41935.7	10000	41.8087	93.8911	-838	QW	2.3	1	6.1	1	1.2	1	0.523	1	2.519	1	4.816	-1	1697	42	1.2
41935.6	10000	41.8088	93.8903	-838	QW	2.3	1	6.0	1	1.2	1	0.539	1	2.539	1	4.894	-1	1692	43	1.2
41935.5	10000	41.8088	93.8895	-838	QW	2.3	1	6.1	1	1.2	1	0.514	1	2.421	1	4.714	-1	1697	40	1.2
41935.4	10000	41.8088	93.8887	-838	QW	2.3	1	6.0	1	1.2	1	0.564	1	2.523	1	4.472	-1	1684	44	1.2
41935.3	10000	41.8088	93.8879	-837	QW	2.3	1	6.1	1	1.2	1	0.519	1	2.310	1	4.454	-1	1649	40	1.2
41935.2	10000	41.8088	93.8872	-837	QW	2.3	1	6.1	1	1.2	1	0.494	1	2.257	1	4.572	-1	1635	51	1.2
41935.1	10000	41.8088	93.8864	-837	QW	2.3	1	6.1	1	1.2	1	0.570	1	2.456	1	4.305	-1	1633	59	1.2
41935.0	10000	41.8088	93.8856	-837	QW	2.3	1	6.1	1	1.2	1	0.619	1	2.693	2	4.350	-1	1639	53	1.2
41934.9	10000	41.8088	93.8848	-837	QW	2.3	1	6.1	1	1.2	1	0.623	1	2.707	2	4.341	-1	1632	51	1.2
41934.8	10000	41.8088	93.8840	-837	QW	2.3	1	6.1	1	1.2	1	0.598	1	2.556	1	4.272	-1	1618	51	1.2
41934.7	10000	41.8088	93.8832	-838	QW	2.3	1	6.1	1	1.2	1	0.512	1	2.418	1	4.720	-1	1621	42	1.2
41934.6	10000	41.8088	93.8824	-837	QW	2.3	1	6.1	1	1.2	1	0.531	1	2.609	1	4.918	-1	1648	53	1.2
41934.5	10000	41.8088	93.8817	-836	QW	2.3	1	6.1	1	1.2	1	0.562	1	2.729	1	4.859	-1	1647	50	1.2
41934.4	10000	41.8088	93.8809	-836	QW	2.3	1	6.1	1	1.2	1	0.550	1	2.664	1	4.841	-1	1660	37	1.1
41934.3	10000	41.8088	93.8801	-836	QW	2.3	1	6.1	1	1.2	1	0.455	1	2.259	1	4.960	-1	1660	34	1.1
41934.2	10000	41.8088	93.8793	-836	QW	2.3	1	6.1	1	1.2	1	0.419	1	2.068	1	4.934	-1	1672	33	1.1
41934.1	10000	41.8088	93.8785	-835	QW	2.3	1	6.1	1	1.2	1	0.415	1	2.161	1	5.211	0	1679	36	1.1
41934.0	10000	41.8089	93.8777	-836	QW	2.3	1	6.1	1	1.2	1	0.393	1	1.898	1	4.833	-1	1671	47	1.1
41933.9	10000	41.8089	93.8769	-836	QW	2.3	1	6.1	1	1.2	1	0.379	1	1.731	1	4.563	-1	1668	38	1.1
41933.8	10000	41.8089	93.8761	-836	QW	2.3	1	6.1	1	1.2	1	0.333	1	1.634	1	4.913	-1	1673	32	1.1
41933.7	10000	41.8089	93.8754	-836	QW	2.3	1	6.1	1	1.2	1	0.285	1	1.447	1	5.070	0	1673	43	1.1
41933.6	10000	41.8089	93.8746	-836	QW	2.3	1	6.1	1	1.2	1	0.294	1	1.484	1	5.045	0	1663	44	1.1
41933.5	10000	41.8089	93.8738	-836	QW	2.3	1	6.1	1	1.2	1	0.325	1	1.697	1	5.219	0	1665	42	1.1
41933.4	10000	41.8089	93.8730	-835	QW	2.3	1	6.1	1	1.2	1	0.325	1	1.694	1	5.209	0	1669	42	1.1

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41933.3	10000	41.8089	93.8722	-835	QW	2.3	1	6.4	1	1.2	1	0.359	0	1.950	0	5.429	0	1670	46	1.1
41933.2	10000	41.8089	93.8714	-836	QW	2.4	1	6.5	1	1.1	1	0.365	0	2.061	0	5.648	1	1674	39	1.1
41933.1	10000	41.8089	93.8707	-836	QW	2.5	1	6.4	1	1.2	1	0.383	0	2.052	0	5.359	0	1677	42	1.1
41933.0	10000	41.8089	93.8699	-837	QW	2.4	1	6.4	1	1.2	1	0.370	0	2.053	0	5.551	1	1669	46	1.1
41932.9	10000	41.8089	93.8691	-839	QW	2.3	1	6.3	1	1.1	1	0.363	0	2.016	0	5.550	1	1660	33	1.1
41932.8	10000	41.8089	93.8683	-839	QW	2.3	1	6.4	1	1.2	1	0.357	0	1.959	0	5.489	0	1656	46	1.1
41932.7	10000	41.8089	93.8675	-840	QW	2.3	1	5.9	1	1.2	1	0.383	0	1.964	0	5.123	0	1648	51	1.1
41932.6	10000	41.8089	93.8667	-841	QW	2.3	1	5.8	0	1.2	1	0.392	0	1.914	0	4.882	0	1646	47	1.1
41932.5	10000	41.8089	93.8659	-842	QW	2.3	1	5.7	0	1.2	2	0.392	0	1.838	0	4.692	-1	1640	49	1.1
41932.4	10000	41.8089	93.8651	-842	QW	2.1	0	5.8	0	1.2	2	0.367	0	1.725	0	4.694	-1	1644	53	1.1
41932.3	10000	41.8089	93.8644	-843	QW	2.3	1	5.5	1	1.2	2	0.411	0	1.837	0	4.472	-1	1651	48	1.1
41932.2	10000	41.8090	93.8636	-844	QW	2.4	1	5.7	1	1.3	2	0.422	1	1.918	0	4.549	-1	1660	47	1.1
41932.1	10000	41.8090	93.8628	-844	QW	2.5	1	5.4	1	1.3	2	0.469	1	2.014	0	4.298	-1	1656	47	1.1
41932.0	10000	41.8090	93.8620	-844	QW	2.6	2	5.7	1	1.3	2	0.461	1	2.078	0	4.506	-1	1655	37	1.1
41931.9	10000	41.8090	93.8612	-845	QW	2.8	2	5.7	1	1.3	2	0.481	1	2.187	1	4.544	-1	1663	37	1.1
41931.8	10000	41.8090	93.8604	-830	QW	2.8	2	6.0	1	1.3	2	0.460	1	2.209	1	4.806	-1	1666	51	1.1
41931.7	10000	41.8090	93.8596	-844	QW	2.7	2	5.9	1	1.2	2	0.459	1	2.231	1	4.859	-1	1664	44	1.1
41931.6	10000	41.8090	93.8589	-843	QW	2.8	2	6.0	1	1.2	2	0.460	1	2.251	1	4.889	0	1661	34	1.1
41931.5	10000	41.8090	93.8581	-840	QW	2.6	2	5.8	1	1.2	1	0.450	1	2.212	1	4.914	0	1659	37	1.1
41931.4	10000	41.8090	93.8573	-835	QW	2.6	1	6.1	1	1.1	1	0.424	1	2.298	1	5.423	0	1661	41	1.1
41931.3	10000	41.8090	93.8565	-833	QW	2.6	1	6.2	1	1.1	1	0.418	0	2.299	1	5.506	1	1676	59	1.1
41931.2	10000	41.8090	93.8557	-833	QW	2.5	1	6.0	1	1.1	0	0.418	1	2.308	1	5.515	1	1660	45	1.1
41931.1	10000	41.8090	93.8549	-834	QW	2.4	1	5.6	1	1.1	0	0.433	1	2.256	1	5.211	0	1668	44	1.1
41931.0	10000	41.8090	93.8541	-835	QW	2.4	1	5.8	1	1.1	0	0.420	1	2.202	1	5.248	0	1675	35	1.1
41930.9	10000	41.8090	93.8533	-836	QW	2.4	1	5.7	1	1.1	0	0.427	1	2.262	1	5.292	0	1671	37	1.1
41930.8	10000	41.8090	93.8526	-837	QW	2.3	1	6.0	1	1.1	1	0.390	0	2.048	1	5.253	0	1685	43	1.1
41930.7	10000	41.8090	93.8518	-838	QW	2.3	1	5.9	1	1.1	1	0.356	0	1.870	1	5.251	0	1684	47	1.1
41930.6	10000	41.8090	93.8510	-838	QW	2.3	1	5.8	1	1.1	1	0.370	0	1.950	1	5.265	0	1670	49	1.1
41930.5	10000	41.8091	93.8502	-839	QW	2.2	1	5.8	1	1.1	1	0.326	0	1.807	1	5.545	1	1678	47	1.1
41930.4	10000	41.8091	93.8494	-839	QW	2.2	1	5.7	1	1.1	1	0.330	0	1.927	1	5.831	1	1670	46	1.1
41930.3	10000	41.8091	93.8486	-839	QW	2.2	1	5.8	1	1.1	1	0.361	0	2.090	1	5.786	1	1670	47	1.1
41930.2	10000	41.8091	93.8478	-840	QW	2.2	1	5.7	1	1.1	1	0.302	0	1.854	1	6.147	2	1666	54	1.1
41930.1	10000	41.8091	93.8471	-840	QW	2.2	1	5.7	1	1.1	1	0.316	0	1.952	1	6.174	2	1658	35	1.2
41930.0	10000	41.8091	93.8463	-840	QW	2.2	1	5.7	1	1.1	1	0.333	0	1.986	1	5.967	1	1672	48	1.2
41929.9	10000	41.8091	93.8455	-840	QW	2.2	1	5.7	1	1.1	1	0.293	0	1.692	1	5.767	1	1681	57	1.2
41929.8	10000	41.8091	93.8447	-840	QW	2.2	1	5.7	1	1.1	1	0.319	0	1.696	1	5.321	0	1679	37	1.2
41929.7	10000	41.8091	93.8439	-840	QW	2.2	1	5.7	1	1.1	1	0.318	0	1.614	1	5.071	0	1678	36	1.2
41929.6	10000	41.8091	93.8431	-841	QW	2.2	1	5.7	1	1.1	1	0.292	0	1.419	1	4.856	0	1667	50	1.2
41929.5	10000	41.8091	93.8423	-841	QW	2.2	1	5.7	1	1.1	1	0.354	0	1.584	1	4.475	-1	1669	43	1.2
41929.4	10000	41.8091	93.8416	-841	QW	2.2	1	5.7	1	1.1	1	0.371	0	1.652	1	4.460	-1	1670	40	1.2
41929.3	10000	41.8091	93.8408	-841	QW	2.2	1	5.7	1	1.1	1	0.359	0	1.573	1	4.386	-1	1656	52	1.2
41929.2	10000	41.8091	93.8400	-841	QW	2.2	1	5.7	1	1.1	1	0.363	0	1.758	1	4.845	-1	1648	50	1.2
41929.1	10000	41.8091	93.8392	-840	QW	2.2	1	5.7	1	1.1	1	0.370	0	1.810	1	4.890	-1	1652	43	1.2
41929.0	10000	41.8091	93.8384	-838	QW	2.2	1	5.7	1	1.1	1	0.365	0	1.813	1	4.963	0	1648	46	1.2
41928.9	10000	41.8091	93.8376	-839	QW	2.2	1	5.7	1	1.1	1	0.417	0	2.212	1	5.304	0	1648	49	1.2
41928.8	10000	41.8092	93.8368	-840	QW	2.2	1	5.7	1	1.1	1	0.415	0	2.212	1	5.330	0	1639	43	1.2
41928.7	10000	41.8092	93.8361	-841	QW	2.2	1	5.7	1	1.1	1	0.427	0	2.236	1	5.233	0	1624	48	1.2
41928.6	10000	41.8092	93.8353	-842	QW	2.2	1	5.7	1	1.1	1	0.438	0	2.347	1	5.361	0	1601	47	1.2
41928.5	10000	41.8092	93.8345	-841	QW	2.2	1	5.7	1	1.1	1	0.434	0	2.200	1	5.066	0	1586	43	1.2
41928.4	10000	41.8092	93.8337	-841	QW	2.2	1	5.7	1	1.1	1	0.440	0	2.129	1	4.842	0	1567	43	1.2
41928.3	10000	41.8092	93.8329	-842	QW	2.2	1	5.7	1	1.1	1	0.443	0	2.154	1	4.858	0	1549	42	1.2
41928.2	10000	41.8092	93.8321	-842	QW	2.2	1	5.7	1	1.1	1	0.384	0	1.739	1	4.527	-1	1530	39	1.3

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41928.1	10000	41.8092	93.8313	-841	QW	1.6	-1	4.9	-1	1.0	0	0.336	0	1.569	-1	4.669	-1	1524	35	1.3
41928.0	10000	41.8092	93.8306	-841	QW	1.5	-1	4.9	-1	1.0	0	0.310	-1	1.462	-1	4.711	-1	1511	56	1.4
41927.9	10000	41.8092	93.8298	-841	QAL	1.5	-2	4.9	-2	1.0	0	0.306	-1	1.440	-2	4.706	-2	1511	47	1.4
41927.8	10000	41.8092	93.8290	-842	QAL	1.4	-2	4.7	-2	1.0	0	0.300	-1	1.358	-2	4.526	-2	1494	46	1.4
41927.7	10000	41.8092	93.8282	-841	QAL	1.3	-2	4.8	-2	1.0	0	0.260	-1	1.204	-2	4.634	-2	1488	47	1.4
41927.6	10000	41.8092	93.8274	-841	QAL	1.3	-2	4.8	-2	1.0	0	0.262	-1	1.247	-2	4.766	-2	1472	64	1.4
41927.5	10000	41.8092	93.8266	-841	QAL	1.5	-2	5.0	-2	1.0	-1	0.296	-1	1.496	-1	5.050	-1	1459	51	1.4
41927.4	10000	41.8092	93.8258	-841	QAL	1.6	-1	4.8	-2	1.0	-1	0.340	0	1.695	-1	4.989	-1	1467	60	1.4
41927.3	10000	41.8092	93.8250	-840	WATER	1.9	999	4.9	999	1.0	999	0.381	999	1.883	999	4.942	999	1493	57	1.4
41927.2	10000	41.8092	93.8243	-841	WATER	1.9	999	4.7	999	1.0	999	0.399	999	1.898	999	4.757	999	1498	40	1.5
41927.1	10000	41.8092	93.8235	-842	QW	2.2	0	5.0	-1	0.9	-1	0.435	1	2.362	1	5.425	0	1480	45	1.5
41927.0	10000	41.8092	93.8227	-842	QW	2.3	1	4.7	-1	0.8	-2	0.479	1	2.807	2	5.859	1	1408	36	1.5
41926.9	10000	41.8093	93.8219	-842	QW	2.2	1	4.1	-2	0.7	-3	0.539	2	3.135	3	5.816	1	1324	45	1.5
41926.8	10000	41.8092	93.8211	-842	QW	2.2	1	3.7	-3	0.6	-4	0.603	2	3.615	4	5.999	1	1247	39	1.5
41926.7	10000	41.8093	93.8203	-842	QW	2.1	0	3.3	-3	0.5	-5	0.637	3	3.860	4	6.061	1	1162	42	1.5
41926.6	10000	41.8093	93.8195	-842	QW	2.0	0	3.0	-4	0.5	-5	0.652	3	3.796	4	5.822	1	1106	43	1.5
41926.5	10000	41.8093	93.8188	-842	QW	1.9	0	3.1	-3	0.5	-6	0.609	3	3.857	4	6.333	2	1084	37	1.5
41926.4	10000	41.8093	93.8180	-842	QW	1.8	0	3.2	-3	0.6	-4	0.565	2	3.027	2	5.363	0	1145	51	1.5
41926.3	10000	41.8093	93.8172	-842	QW	1.9	0	3.6	-3	0.7	-4	0.515	2	2.714	2	5.269	0	1245	44	1.6
41926.2	10000	41.8093	93.8164	-842	QW	1.8	0	4.5	-1	0.8	-2	0.399	0	2.173	1	5.446	0	1377	51	1.6
41926.1	10000	41.8093	93.8156	-842	QW	1.7	-1	4.9	-1	1.0	-1	0.346	0	1.794	0	5.183	0	1486	41	1.6
41926.0	10000	41.8093	93.8148	-842	QW	1.7	-1	5.0	-1	1.0	0	0.339	0	1.617	-1	4.772	-1	1557	53	1.6
41925.9	10000	41.8093	93.8140	-843	QW	1.5	-1	5.3	0	1.0	0	0.282	-1	1.479	-1	5.246	0	1568	49	1.6
41925.8	10000	41.8093	93.8132	-843	QW	1.4	-1	5.1	-1	1.0	0	0.278	-1	1.347	-1	4.843	-1	1574	45	1.6
41925.7	10000	41.8093	93.8125	-843	QW	1.3	-2	4.4	-1	1.0	0	0.288	-1	1.250	-1	4.331	-1	1531	41	1.6
41925.6	10000	41.8093	93.8117	-843	QW	1.3	-2	4.4	-2	1.0	0	0.288	-1	1.216	-1	4.220	-2	1513	25	1.6
41925.5	10000	41.8093	93.8109	-843	QW	1.3	-1	3.9	-3	1.0	0	0.367	-1	1.409	-1	3.845	-2	1480	39	1.6
41925.4	10000	41.8093	93.8101	-843	QW	1.3	-1	3.7	-3	1.0	0	0.416	-1	1.475	-1	3.546	-2	1456	35	1.7
41925.3	10000	41.8093	93.8093	-843	QW	1.3	-1	4.0	-2	1.0	0	0.422	-1	1.707	0	4.046	-2	1442	55	1.7
41925.2	10000	41.8093	93.8086	-843	QW	1.3	-1	3.8	-2	1.0	0	0.508	-1	1.955	0	3.850	-2	1452	41	1.7
41925.1	10000	41.8093	93.8078	-843	QW	1.3	-1	3.9	-2	1.0	0	0.540	-1	2.259	1	4.182	-2	1454	30	1.7
41925.0	10000	41.8093	93.8071	-843	QW	1.3	-1	4.4	-2	1.0	0	0.530	-1	2.403	1	4.533	-1	1477	49	1.7
41924.9	10000	41.8093	93.8063	-844	QW	1.3	-1	4.4	-1	1.0	0	0.506	-1	2.352	1	4.652	-1	1481	46	1.7
41924.8	10000	41.8094	93.8056	-843	QW	1.3	-1	4.7	-1	1.0	0	0.427	-1	2.174	1	5.094	-1	1490	51	1.7
41924.7	10000	41.8094	93.8048	-843	QW	1.3	-1	4.9	-1	1.0	0	0.422	-2	2.320	1	5.493	-1	1509	48	1.7
41924.6	10000	41.8094	93.8041	-843	QW	1.3	-1	5.1	-1	1.0	0	0.397	-1	2.091	1	5.262	-1	1542	42	1.7
41924.5	10000	41.8094	93.8033	-843	QW	1.3	-1	5.2	0	1.0	0	0.408	-1	2.071	1	5.071	-1	1572	53	1.7
41924.4	10000	41.8094	93.8026	-842	QW	1.3	-1	5.3	0	1.0	1	0.381	-1	1.882	1	4.939	-1	1590	44	1.7
41924.3	10000	41.8094	93.8018	-842	QW	1.3	-1	5.4	0	1.1	1	0.327	-1	1.668	1	5.103	-1	1588	51	1.7
41924.2	10000	41.8094	93.8011	-842	QW	1.3	-1	5.5	0	1.1	1	0.384	-1	1.855	1	4.833	-1	1612	42	1.8
41924.1	10000	41.8094	93.8003	-842	QW	1.3	-1	5.5	0	1.1	1	0.416	-1	2.047	1	4.920	-1	1631	46	1.8
41924.0	10000	41.8094	93.7996	-842	QW	1.3	-1	5.5	0	1.1	2	0.369	-1	1.843	1	4.991	-1	1642	40	1.8
41923.9	10000	41.8094	93.7988	-842	QW	1.3	-1	5.5	0	1.1	1	0.385	-1	1.841	1	4.784	-1	1639	49	1.8
41923.8	10000	41.8094	93.7981	-843	QW	1.3	-1	5.5	0	1.1	1	0.344	-1	1.763	1	5.130	-1	1627	38	1.8
41923.7	10000	41.8094	93.7973	-844	QW	1.3	-1	5.5	0	1.1	1	0.322	-1	1.760	1	5.471	-1	1634	47	1.8
41923.6	10000	41.8094	93.7966	-844	QW	1.3	-1	5.5	0	1.1	1	0.357	-1	1.735	1	4.862	-1	1644	51	1.8
41923.5	10000	41.8094	93.7959	-844	QW	1.3	-1	5.6	0	1.1	1	0.286	-1	1.534	1	5.359	-1	1643	48	1.8
41923.4	10000	41.8094	93.7951	-844	QW	1.3	-1	5.5	0	1.1	1	0.270	-1	1.373	1	5.078	-1	1638	38	1.8
41923.3	10000	41.8094	93.7944	-843	QW	1.3	-1	5.5	0	1.1	1	0.296	-1	1.561	1	5.265	-1	1626	33	1.8
41923.2	10000	41.8094	93.7936	-843	QW	1.3	-1	5.6	0	1.1	1	0.276	-1	1.700	1	6.167	-1	1628	46	1.8
41923.1	10000	41.8094	93.7929	-842	QW	1.3	-1	5.6	0	1.1	1	0.327	-1	1.893	1	5.788	-1	1651	32	1.8
41923.0	10000	41.8094	93.7921	-842	QW	1.3	-1	5.7	0	1.0	1	0.361	0	2.012	1	5.566	-1	1646	49	1.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41922.9	10000	41.8094	93.7914	-842	QEW	2.2	1	5.8	1	1.0	-1	0.382	0	2.266	1	5.930	1	1669	48	1.8
41922.8	10000	41.8094	93.7906	-842	QEW	2.5	1	5.7	0	1.0	-1	0.436	1	2.563	1	5.878	1	1683	46	1.8
41922.7	10000	41.8094	93.7899	-842	QEW	2.7	2	5.7	0	0.9	-1	0.482	1	2.914	2	6.050	1	1705	51	1.8
41922.6	10000	41.8094	93.7891	-842	QEW	2.7	2	5.4	0	1.0	-1	0.500	1	2.795	2	5.585	1	1729	45	1.8
41922.5	10000	41.8094	93.7884	-842	QEW	2.7	2	4.8	-1	1.0	0	0.558	2	2.638	2	4.726	-1	1743	38	1.8
41922.4	10000	41.8094	93.7876	-841	QEW	2.5	1	4.9	-1	1.0	0	0.515	2	2.425	1	4.714	-1	1736	37	1.8
41922.3	10000	41.8094	93.7869	-843	QEW	2.5	1	4.9	-1	1.1	0	0.513	2	2.342	1	4.562	-1	1742	34	1.8
41922.2	10000	41.8094	93.7861	-844	QEW	2.5	1	5.0	-1	1.1	0	0.501	1	2.296	1	4.582	-1	1730	57	1.8
41922.1	10000	41.8094	93.7854	-845	QEW	2.6	2	5.0	-1	1.1	1	0.530	2	2.356	1	4.441	-1	1719	36	1.8
41922.0	10000	41.8094	93.7846	-844	QEW	2.4	1	5.0	-1	1.1	1	0.472	1	2.078	0	4.401	-1	1702	35	1.8
41921.9	10000	41.8094	93.7839	-844	QEW	2.2	1	5.2	0	1.2	1	0.425	1	1.872	0	4.406	-1	1683	48	1.8
41921.8	10000	41.8095	93.7831	-844	QEW	2.3	1	5.1	-1	1.1	1	0.450	1	2.013	0	4.475	-1	1668	46	1.8
41921.7	10000	41.8095	93.7824	-845	QEW	2.2	1	5.2	0	1.1	1	0.429	1	1.997	0	4.654	-1	1671	47	1.8
41921.6	10000	41.8095	93.7816	-846	QEW	2.1	0	5.4	0	1.1	1	0.400	0	1.920	0	4.806	-1	1673	41	1.8
41921.5	10000	41.8095	93.7809	-846	QEW	2.1	0	5.2	0	1.1	0	0.401	0	1.959	0	4.888	0	1668	39	1.8
41921.4	10000	41.8095	93.7802	-846	QEW	1.7	-1	4.8	-1	1.1	0	0.347	0	1.560	-1	4.498	-1	1650	39	1.8
41921.3	10000	41.8095	93.7794	-845	QEW	1.7	-1	4.9	-1	1.1	0	0.353	0	1.601	-1	4.540	-1	1636	52	1.8
41921.2	10000	41.8095	93.7787	-845	QEW	1.7	-1	4.9	-1	1.0	0	0.348	0	1.693	0	4.861	-1	1627	42	1.8
41921.1	10000	41.8095	93.7779	-845	QEW	1.7	-1	5.4	0	1.0	0	0.324	0	1.660	-1	5.128	0	1627	52	1.8
41921.0	10000	41.8095	93.7772	-844	QEW	2.1	0	5.1	0	1.0	0	0.402	0	2.006	0	4.987	0	1624	54	1.8
41920.9	10000	41.8095	93.7764	-845	QEW	2.3	1	5.2	0	1.0	0	0.446	1	2.265	0	5.084	0	1623	36	1.8
41920.8	10000	41.8095	93.7757	-846	QEW	2.2	1	5.3	0	1.0	0	0.410	0	2.082	0	5.079	0	1614	33	1.8
41920.7	10000	41.8095	93.7749	-847	QEW	2.2	1	5.5	0	1.0	0	0.406	0	2.207	1	5.430	0	1611	47	1.8
41920.6	10000	41.8095	93.7742	-847	QEW	2.4	1	5.4	0	1.0	0	0.444	1	2.334	1	5.251	0	1630	44	1.8
41920.5	10000	41.8095	93.7734	-846	QEW	2.4	1	5.4	0	1.1	0	0.444	1	2.251	1	5.071	0	1652	36	1.8
41920.4	10000	41.8095	93.7727	-846	QEW	2.3	1	5.2	0	1.1	0	0.459	1	2.099	1	4.569	-1	1665	58	1.8
41920.3	10000	41.8095	93.7719	-847	QEW	2.1	1	5.0	0	1.1	0	0.414	1	1.928	1	4.653	-1	1674	51	1.8
41920.2	10000	41.8095	93.7712	-848	QEW	1.9	1	4.9	-1	1.1	0	0.388	1	1.722	1	4.440	-1	1686	36	1.8
41920.1	10000	41.8095	93.7704	-848	QEW	1.8	0	4.9	-1	1.1	0	0.368	1	1.650	1	4.479	-1	1708	32	1.8
41920.0	10000	41.8095	93.7697	-850	QEW	2.0	1	5.0	-1	1.1	0	0.412	1	1.815	1	4.408	-1	1726	41	1.8
41919.9	10000	41.8095	93.7689	-850	QEW	2.2	1	5.5	-1	1.1	0	0.428	1	1.904	1	4.448	-1	1734	48	1.8
41919.8	10000	41.8095	93.7682	-851	QEW	2.3	1	5.5	-1	1.1	0	0.458	1	2.069	1	4.517	-1	1724	33	1.8
41919.7	10000	41.8095	93.7674	-850	QEW	2.4	1	5.5	-1	1.1	0	0.466	1	2.187	1	4.690	-1	1714	38	1.8
41919.6	10000	41.8095	93.7667	-851	QEW	2.3	1	5.5	-1	1.1	0	0.454	1	2.019	1	4.443	-1	1702	45	1.8
41919.5	10000	41.8095	93.7659	-850	QEW	2.2	1	5.5	-1	1.1	0	0.431	1	1.902	1	4.415	-1	1695	41	1.8
41919.4	10000	41.8095	93.7652	-850	QEW	2.4	1	5.5	0	1.2	0	0.460	1	2.098	1	4.556	-1	1677	47	1.7
41919.3	10000	41.8095	93.7644	-850	QEW	2.3	1	5.5	0	1.2	0	0.429	1	2.037	1	4.750	-1	1675	42	1.7
41919.2	10000	41.8095	93.7637	-850	QEW	2.2	1	5.5	0	1.2	0	0.409	1	1.896	1	4.631	-1	1667	54	1.7
41919.1	10000	41.8095	93.7629	-848	QEW	2.2	1	5.5	0	1.2	0	0.386	1	1.814	1	4.695	-1	1666	47	1.7
41919.0	10000	41.8095	93.7622	-847	QEW	2.2	1	5.5	0	1.2	0	0.377	1	1.836	1	4.877	-1	1662	44	1.7
41918.9	10000	41.8095	93.7614	-849	QEW	2.2	1	5.5	0	1.2	0	0.328	1	1.761	1	5.365	0	1660	48	1.7
41918.8	10000	41.8095	93.7607	-851	QEW	2.2	1	5.5	0	1.2	0	0.370	1	1.950	1	5.269	0	1658	47	1.7
41918.7	10000	41.8095	93.7599	-851	QEW	2.2	1	5.5	0	1.2	0	0.376	1	1.842	1	4.900	0	1669	39	1.7
41918.6	10000	41.8096	93.7592	-851	QEW	2.2	1	5.5	0	1.2	0	0.367	1	1.771	1	4.832	-1	1670	40	1.7
41918.5	10000	41.8095	93.7585	-851	QEW	2.2	1	5.5	0	1.2	0	0.378	1	1.872	1	4.952	0	1673	53	1.7
41918.4	10000	41.8095	93.7577	-851	QEW	2.2	1	5.5	0	1.2	0	0.414	1	2.060	1	4.976	0	1681	46	1.7
41918.3	10000	41.8096	93.7570	-851	QEW	2.2	1	5.5	0	1.2	0	0.387	1	1.858	1	4.802	-1	1686	45	1.7
41918.2	10000	41.8096	93.7562	-851	QEW	2.2	1	5.5	0	1.2	0	0.435	1	1.993	1	4.577	-1	1689	52	1.7
41918.1	10000	41.8096	93.7555	-851	QEW	2.2	1	5.5	0	1.2	0	0.440	1	2.032	1	4.619	-1	1691	57	1.7
41918.0	10000	41.8096	93.7547	-851	QEW	2.2	1	5.5	0	1.2	0	0.421	1	2.181	1	5.179	0	1690	51	1.7
41917.9	10000	41.8096	93.7540	-851	QEW	2.2	1	5.5	0	1.2	0	0.483	1	2.512	1	5.200	0	1683	40	1.7
41917.8	10000	41.8096	93.7532	-851	QEW	2.4	1	5.3	0	1.1	0	0.440	1	2.216	1	5.034	0	1675	42	1.7

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41917.7	10000	41.8096	93.7525	-852	QE	2.4	1	5.2	0	1.1	0	0.458	1	2.260	1	4.940	0	1660	43	1.7
41917.6	10000	41.8096	93.7517	-852	QE	2.5	1	5.4	0	1.0	0	0.458	1	2.401	1	5.240	0	1654	42	1.7
41917.5	10000	41.8096	93.7510	-852	QE	2.5	1	5.4	0	1.0	0	0.458	1	2.440	1	5.333	0	1644	45	1.7
41917.4	10000	41.8096	93.7502	-853	QE	2.4	1	5.9	1	1.0	0	0.401	0	2.309	1	5.760	1	1638	49	1.6
41917.3	10000	41.8096	93.7495	-852	QE	2.5	1	5.5	0	1.0	-1	0.446	1	2.472	1	5.541	1	1633	38	1.6
41917.2	10000	41.8096	93.7487	-852	QE	2.0	0	5.6	0	1.0	0	0.362	0	1.988	0	5.500	0	1627	41	1.6
41917.1	10000	41.8096	93.7480	-853	QE	2.2	0	5.9	1	1.0	0	0.367	0	2.128	0	5.799	1	1620	44	1.6
41917.0	10000	41.8096	93.7472	-853	QE	1.9	0	6.2	1	1.1	0	0.306	-1	1.786	0	5.839	1	1611	39	1.6
41916.9	10000	41.8096	93.7465	-853	QE	1.7	-1	6.1	1	1.1	0	0.284	-1	1.603	-1	5.646	1	1575	37	1.6
41916.8	10000	41.8096	93.7457	-853	QE	1.5	-1	5.5	0	1.0	0	0.278	-1	1.518	-1	5.454	0	1502	49	1.6
41916.7	10000	41.8096	93.7450	-852	QE	1.5	-1	4.7	-1	0.9	-1	0.321	-1	1.649	-1	5.143	0	1384	41	1.6
41916.6	10000	41.8096	93.7442	-852	QE	1.2	-2	4.2	-2	0.8	-2	0.272	-1	1.364	-1	5.008	0	1242	44	1.6
41916.5	10000	41.8096	93.7435	-853	QE	1.2	-2	3.7	-2	0.7	-3	0.323	-1	1.698	0	5.263	0	1110	57	1.6
41916.4	10000	41.8096	93.7428	-853	QE	1.0	-2	3.0	-4	0.6	-5	0.332	0	1.756	0	5.287	0	966	35	1.6
41916.3	10000	41.8096	93.7420	-854	QE	0.9	-3	2.2	-5	0.4	-6	0.429	1	2.341	1	5.460	0	821	45	1.6
41916.2	10000	41.8096	93.7413	-854	QE	0.9	-3	1.4	-6	0.2	-8	0.617	3	3.656	4	5.928	1	689	28	1.6
41916.1	10000	41.8096	93.7405	-855	QE	1.0	-2	1.1	-6	0.2	-9	0.860	5	5.949	8	6.917	3	606	40	1.6
41916.0	10100	41.8096	93.7398	-856	QE	0.9	-3	1.0	-6	0.1	-9	0.905	6	9.037	15	0.000	-8	551	38	1.6
41915.9	10100	41.8096	93.7390	-857	QE	0.9	-3	1.0	-6	0.1	-10	0.933	6	11.043	19	0.000	-8	536	48	1.6
41915.8	10101	41.8096	93.7383	-857	QE	0.9	-3	0.6	-7	0.0	-10	1.464	12	18.988	36	0.000	-8	521	47	1.6
41915.7	10101	41.8096	93.7375	-857	QE	1.0	-2	0.7	-7	0.1	-10	1.388	11	15.470	28	0.000	-8	541	43	1.6
41915.6	10000	41.8096	93.7368	-856	QE	1.2	-2	1.0	-6	0.1	-9	1.156	8	9.145	15	7.912	4	615	48	1.6
41915.5	10000	41.8096	93.7360	-855	QE	1.3	-2	1.5	-6	0.3	-8	0.917	6	5.030	7	5.487	0	715	32	1.5
41915.4	10000	41.8096	93.7353	-855	QE	1.4	-1	1.6	-6	0.4	-6	0.890	6	3.537	3	3.973	-2	830	40	1.5
41915.3	10000	41.8096	93.7345	-855	QE	1.5	-1	1.9	-5	0.5	-6	0.756	4	3.075	2	4.067	-2	970	47	1.5
41915.2	10000	41.8096	93.7338	-855	QE	1.6	-1	2.1	-5	0.6	-5	0.744	4	3.151	2	4.237	-2	1108	45	1.5
41915.1	10000	41.8096	93.7330	-855	QE	1.7	0	2.5	-4	0.7	-4	0.621	3	2.746	2	4.422	-1	1265	39	1.5
41915.0	10000	41.8097	93.7323	-855	QE	1.8	0	2.9	-3	0.8	-3	0.573	2	2.453	1	4.284	-1	1388	46	1.5
41914.9	10000	41.8097	93.7315	-856	QE	1.9	0	3.3	-2	0.9	-2	0.597	2	2.419	1	4.051	-2	1457	45	1.5
41914.8	10000	41.8097	93.7308	-856	QE	2.0	0	3.6	-2	0.9	-2	0.577	2	2.558	1	4.437	-1	1524	47	1.5
41914.7	10000	41.8097	93.7300	-857	QE	2.1	0	3.8	-1	1.0	-1	0.539	2	2.652	1	4.917	0	1566	55	1.5
41914.6	10000	41.8097	93.7293	-857	QE	2.2	0	4.0	-1	1.0	-1	0.497	1	2.420	1	4.872	0	1588	50	1.5
41914.5	10000	41.8097	93.7285	-858	QE	2.2	0	4.1	-1	1.0	-1	0.475	1	2.465	1	5.191	0	1590	33	1.5
41914.4	10000	41.8097	93.7278	-858	QE	2.2	0	4.2	-1	1.0	-1	0.427	1	2.297	1	5.384	0	1580	55	1.5
41914.3	10000	41.8097	93.7270	-859	QE	2.2	0	4.3	-1	1.0	-1	0.438	1	2.302	1	5.257	0	1575	53	1.5
41914.2	10000	41.8097	93.7263	-858	QE	2.2	0	4.4	-1	1.0	-1	0.394	1	2.212	1	5.615	0	1564	51	1.5
41914.1	10000	41.8097	93.7255	-859	QE	2.2	0	4.5	-1	1.0	-1	0.407	1	2.239	1	5.506	0	1557	32	1.5
41914.0	10000	41.8097	93.7248	-859	QE	2.2	0	4.6	-1	1.0	-1	0.415	1	2.272	1	5.470	0	1564	58	1.5
41913.9	10000	41.8097	93.7240	-860	QE	2.2	0	4.7	-1	1.0	-1	0.423	1	2.314	1	5.473	0	1566	34	1.5
41913.8	10000	41.8097	93.7233	-860	QE	2.2	0	4.8	-1	1.0	-1	0.426	1	2.168	1	5.093	0	1586	51	1.5
41913.7	10000	41.8097	93.7225	-861	QE	2.2	0	4.9	-1	1.0	-1	0.426	1	2.105	1	4.938	0	1588	62	1.5
41913.6	10000	41.8097	93.7218	-861	QE	2.2	0	5.0	-1	1.0	-1	0.427	1	2.197	1	5.139	0	1610	50	1.5
41913.5	10000	41.8097	93.7211	-861	QE	2.2	0	5.1	-1	1.0	-1	0.504	1	2.438	1	4.834	0	1633	37	1.5
41913.4	10000	41.8097	93.7203	-861	QE	2.2	0	5.2	-1	1.0	-1	0.521	1	2.472	1	4.742	0	1639	37	1.5
41913.3	10000	41.8097	93.7196	-861	QE	2.2	0	5.3	-1	1.0	-1	0.463	1	2.291	1	4.947	0	1638	50	1.5
41913.2	10000	41.8097	93.7188	-862	QE	2.2	0	5.4	-1	1.0	-1	0.476	1	2.335	1	4.903	0	1652	42	1.5
41913.1	10000	41.8097	93.7181	-863	QE	2.2	0	5.5	-1	1.0	-1	0.449	1	2.292	1	5.105	0	1642	58	1.5
41913.0	10000	41.8097	93.7173	-862	QE	2.2	0	5.6	-1	1.0	-1	0.472	1	2.487	1	5.272	0	1648	49	1.5
41912.9	10000	41.8097	93.7166	-862	QE	2.2	0	5.7	-1	1.0	-1	0.478	1	2.516	1	5.262	0	1624	49	1.5
41912.8	10000	41.8097	93.7158	-862	QE	2.2	0	5.8	-1	1.0	-1	0.454	1	2.375	1	5.231	0	1610	40	1.5
41912.7	10000	41.8097	93.7151	-862	QE	2.2	0	5.9	-1	1.0	-1	0.458	1	2.365	1	5.158	0	1600	69	1.5
41912.6	10000	41.8097	93.7143	-862	QE	2.2	0	6.0	-1	1.0	-1	0.507	1	2.402	1	4.734	-1	1580	51	1.5

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41912.5	10000	41.8097	93.7136	-862	QW	2.3	1	5.1	-1	1.0	0	0.460	1	2.214	1	4.814	-1	1550	43	1.3
41912.4	10000	41.8097	93.7128	-861	QW	2.2	1	4.8	-1	1.0	0	0.461	1	2.123	0	4.603	-1	1542	41	1.3
41912.3	10000	41.8097	93.7121	-861	QW	2.2	1	4.6	-1	1.1	0	0.489	1	2.056	0	4.208	-2	1534	44	1.3
41912.2	10000	41.8097	93.7113	-862	QW	2.0	0	4.6	-1	1.1	1	0.446	1	1.843	0	4.129	-2	1542	46	1.3
41912.1	10000	41.8097	93.7106	-862	QW	2.1	0	4.9	-1	1.1	1	0.421	1	1.834	0	4.357	-1	1556	42	1.3
41912.0	10000	41.8097	93.7098	-862	QW	1.7	-1	5.2	0	1.1	0	0.330	0	1.559	-1	4.722	-1	1585	34	1.3
41911.9	10000	41.8097	93.7091	-862	QW	1.9	0	5.7	0	1.1	0	0.322	-1	1.727	0	5.358	0	1613	37	1.3
41911.8	10000	41.8097	93.7083	-862	QW	2.2	0	5.6	0	1.1	0	0.382	0	1.948	0	5.104	0	1641	50	1.3
41911.7	10000	41.8097	93.7076	-862	QW	1.9	0	5.7	0	1.1	1	0.324	0	1.668	0	5.152	0	1646	46	1.3
41911.6	10000	41.8097	93.7068	-862	QW	2.0	0	5.9	1	1.1	0	0.333	0	1.808	0	5.427	0	1653	40	1.2
41911.5	10000	41.8097	93.7061	-862	QW	2.3	1	5.7	0	1.0	0	0.406	0	2.206	1	5.434	0	1642	43	1.2
41911.4	10000	41.8098	93.7054	-862	QW	2.3	1	5.6	0	1.0	0	0.404	0	2.167	1	5.369	0	1636	49	1.2
41911.3	10000	41.8098	93.7046	-862	QW	2.5	1	5.3	0	1.1	0	0.468	1	2.316	1	4.952	0	1602	57	1.2
41911.2	10000	41.8098	93.7039	-862	QW	2.3	1	4.9	-1	1.1	0	0.462	1	2.110	0	4.570	-1	1583	50	1.2
41911.1	10000	41.8098	93.7031	-862	QW	2.2	1	4.8	-1	1.1	0	0.465	1	2.064	0	4.437	-1	1562	50	1.2
41911.0	10000	41.8098	93.7024	-863	QW	2.6	2	4.4	-2	1.1	0	0.597	2	2.475	1	4.148	-2	1556	54	1.2
41910.9	10000	41.8098	93.7016	-863	QW	2.5	1	4.2	-2	1.1	0	0.587	2	2.250	1	3.833	-2	1542	32	1.2
41910.8	10000	41.8098	93.7009	-864	QW	2.3	1	4.5	-1	1.1	1	0.518	2	2.071	0	4.000	-2	1553	50	1.2
41910.7	10000	41.8098	93.7001	-864	QW	2.3	1	4.3	-2	1.1	1	0.532	2	2.041	0	3.838	-2	1538	55	1.2
41910.6	10000	41.8098	93.6994	-864	QW	2.2	0	4.5	-1	1.1	1	0.490	1	1.928	0	3.935	-2	1541	47	1.1
41910.5	10000	41.8098	93.6986	-864	QW	2.2	0	4.6	-1	1.1	1	0.465	1	1.884	0	4.049	-2	1537	38	1.1
41910.4	10000	41.8098	93.6978	-864	QW	2.3	1	4.8	-1	1.1	0	0.487	1	2.124	0	4.363	-1	1543	47	1.1
41910.3	10000	41.8098	93.6971	-864	QW	2.2	1	5.4	0	1.1	0	0.420	1	2.060	0	4.906	0	1548	46	1.1
41910.2	10000	41.8098	93.6963	-864	QW	2.5	1	5.6	0	1.1	0	0.449	1	2.389	1	5.323	0	1559	49	1.1
41910.1	10000	41.8098	93.6956	-864	QW	2.4	1	5.7	0	1.1	0	0.420	1	2.270	1	5.403	0	1552	43	1.1
41910.0	10000	41.8098	93.6948	-864	QW	2.5	1	6.0	1	1.1	0	0.411	0	2.267	1	5.520	1	1571	44	1.1
41909.9	10000	41.8098	93.6940	-865	QW	2.5	1	5.8	0	1.1	0	0.428	1	2.333	1	5.445	0	1585	38	1.1
41909.8	10000	41.8098	93.6933	-865	QW	2.4	1	5.5	0	1.1	0	0.437	1	2.271	1	5.199	0	1590	48	1.1
41909.7	10000	41.8098	93.6925	-865	QW	2.1	0	5.8	0	1.1	0	0.367	0	1.910	1	5.204	0	1588	44	1.0
41909.6	10000	41.8098	93.6918	-865	QW	2.0	0	5.8	0	1.1	0	0.344	0	1.843	0	5.355	0	1563	42	1.0
41909.5	10000	41.8098	93.6910	-866	QW	1.6	-1	5.7	0	1.1	0	0.279	-1	1.422	-1	5.089	0	1549	50	1.0
41909.4	10000	41.8099	93.6902	-866	QW	1.6	-1	5.6	0	1.2	0	0.284	-1	1.361	-1	4.800	-1	1539	34	1.0
41909.3	10000	41.8099	93.6895	-867	QW	1.6	-1	5.6	0	1.1	0	0.277	-1	1.387	-1	5.004	0	1531	43	1.0
41909.2	10000	41.8099	93.6887	-866	QW	1.7	-1	5.8	0	1.1	0	0.291	-1	1.536	-1	5.279	0	1514	42	1.0
41909.1	10000	41.8099	93.6880	-866	QW	1.7	-1	5.9	1	1.1	0	0.295	-1	1.545	-1	5.229	0	1505	34	1.0
41909.0	10000	41.8099	93.6872	-866	QW	1.8	0	6.0	1	1.1	0	0.301	-1	1.658	-1	5.513	1	1492	48	1.0
41908.9	10000	41.8099	93.6864	-866	QW	1.7	-1	5.6	0	1.1	0	0.312	-1	1.548	-1	4.962	0	1500	50	1.0
41908.8	10000	41.8099	93.6857	-866	QW	2.0	0	5.7	0	1.1	0	0.345	0	1.844	0	5.344	0	1499	46	1.0
41908.7	10000	41.8099	93.6849	-866	QW	2.2	1	5.8	0	1.0	0	0.382	0	2.160	1	5.659	1	1502	48	0.9
41908.6	10000	41.8099	93.6842	-866	QW	2.2	1	5.8	0	1.1	0	0.377	0	2.056	1	5.450	0	1497	53	0.9
41908.5	10000	41.8099	93.6834	-866	QW	2.1	1	5.7	0	1.1	0	0.373	0	1.896	0	5.090	0	1504	45	0.9
41908.4	10000	41.8099	93.6826	-867	QW	2.1	1	5.7	0	1.1	0	0.369	0	1.846	0	5.001	0	1511	48	0.9
41908.3	10000	41.8099	93.6819	-867	QW	2.1	1	5.4	0	1.2	0	0.382	0	1.751	0	4.589	-1	1514	41	0.9
41908.2	10000	41.8099	93.6811	-867	QW	2.2	1	5.6	0	1.2	0	0.384	0	1.840	0	4.788	-1	1518	49	0.9
41908.1	10000	41.8099	93.6804	-867	QW	2.3	1	5.3	0	1.2	0	0.422	1	1.904	0	4.510	-1	1528	39	0.9
41908.0	10000	41.8099	93.6796	-867	QW	2.1	1	5.6	0	1.2	0	0.377	0	1.736	0	4.603	-1	1537	40	0.9
41907.9	10000	41.8099	93.6788	-868	QW	2.2	1	5.3	0	1.2	0	0.404	1	1.780	0	4.409	-1	1547	48	0.9
41907.8	10000	41.8100	93.6781	-868	QW	2.1	1	5.5	0	1.2	0	0.378	0	1.732	0	4.585	-1	1536	45	0.8
41907.7	10000	41.8100	93.6773	-867	QW	2.2	1	5.5	0	1.1	0	0.401	1	1.951	0	4.865	-1	1536	39	0.8
41907.6	10000	41.8100	93.6766	-866	QW	2.2	1	5.5	0	1.1	0	0.404	1	1.986	0	4.912	0	1536	52	0.8
41907.5	10000	41.8100	93.6758	-863	QW	2.3	1	5.2	0	1.1	0	0.434	1	2.076	0	4.788	-1	1543	43	0.8
41907.4	10000	41.8100	93.6750	-860	QW	2.0	0	5.7	0	1.1	1	0.357	0	1.837	0	5.147	0	1536	37	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41907.3	10000	41.8100	93.6743	-864	QW	2.1	0	5.7	0	1.1	0	0.367	0	1.890	0	5.151	0	1534	40	0.8
41907.2	10000	41.8100	93.6735	-868	QW	2.1	0	5.6	0	1.0	0	0.366	0	1.974	0	5.394	0	1505	47	0.8
41907.1	10000	41.8100	93.6728	-869	QW	2.2	0	5.4	0	1.0	0	0.406	0	2.130	0	5.251	0	1487	51	0.8
41907.0	10000	41.8100	93.6720	-870	QW	2.0	0	5.1	0	1.0	-1	0.396	0	2.040	0	5.155	0	1458	34	0.7
41906.9	10000	41.8100	93.6712	-869	QW	2.4	1	5.0	-1	1.0	-1	0.474	1	2.429	1	5.130	0	1443	43	0.7
41906.8	10000	41.8100	93.6705	-869	QW	2.4	1	5.2	0	0.9	-1	0.458	1	2.536	1	5.534	1	1414	35	0.7
41906.7	10000	41.8100	93.6697	-870	QW	2.5	1	4.7	-1	0.9	-1	0.533	2	2.720	2	5.106	0	1411	41	0.7
41906.6	10000	41.8100	93.6690	-869	QW	2.4	1	4.7	-1	1.0	-1	0.505	1	2.481	1	4.917	0	1405	42	0.7
41906.5	10000	41.8100	93.6682	-870	QW	2.3	1	5.0	-1	1.0	-1	0.465	1	2.339	1	5.030	0	1425	37	0.7
41906.4	10000	41.8100	93.6674	-870	QW	2.2	0	4.8	-1	1.0	[illegible]	0.449	1	2.156	1	4.800	-1	1453	47	0.7
41906.3	10000	41.8101	93.6667	-870	QW	2.2	1	5.2	0	1.1	0	[illegible]331	1	2.053	1	4.765	-1	1487	45	0.7
41906.2	10000	41.8101	93.6659	-870	QW	2.2	1	5.6	0	1.1	0	0.392	0	2.024	0	5.165	0	1519	43	0.7
41906.1	10000	41.8101	93.6652	-870	QW	2.4	1	5.7	0	1.1	1	0.421	0	2.177	1	5.173	0	1552	53	0.7
41906.0	10000	41.8101	93.6644	-870	QW	2.3	1	5.7	0	1.1	1	0.398	0	2.007	0	5.044	0	1559	44	0.7
41905.9	10000	41.8101	93.6637	-870	QW	2.2	1	5.6	0	1.1	0	0.394	0	2.050	0	5.20[illegible]	0	1557	50	0.7
41905.8	10000	41.8101	93.6629	-870	QW	2.5	1	5.5	0	1.1	0	0.449	1	2.302	1	5.130	0	1567	48	0.7
41905.7	10000	41.8101	93.6621	-870	QW	2.7	2	5.7	0	1.0	0	0.476	1	2.624	2	5.508	1	1577	44	0.7
41905.6	10000	41.8101	93.6614	-871	QW	2.6	2	5.7	0	1.0	0	0.461	1	2.556	1	5.542	1	1568	40	0.7
41905.5	10000	41.8101	93.6606	-871	QW	2.4	1	5.6	0	1.0	0	0.429	1	2.286	1	5.334	0	1555	34	0.6
41905.4	10000	41.8101	93.6599	-871	QW	2.0	0	5.3	0	1.0	0	0.382	0	1.939	0	5.080	0	1537	51	0.6
41905.3	10000	41.8101	93.6591	-871	QW	2.2	0	5.9	1	1.0	0	0.368	0	2.155	1	5.851	1	1529	46	0.6
41905.2	10000	41.8101	93.6583	-871	QW	2.2	1	5.9	1	1.0	0	0.380	0	2.234	1	5.874	1	1527	45	0.6
41905.1	10000	41.8101	93.6576	-871	QW	2.0	0	6.0	1	1.0	-1	0.333	0	1.992	0	5.988	1	1515	36	0.6
41905.0	10000	41.8101	93.6568	-871	QW	1.6	-1	6.1	1	1.0	-1	0.271	-1	1.664	-1	6.136	2	1490	42	0.6
41904.9	10000	41.8101	93.6561	-871	QW	2.0	0	6.3	1	0.9	-1	0.312	-1	2.109	0	6.765	3	1484	42	0.6
41904.8	10000	41.8101	93.6553	-871	QW	2.0	0	6.3	1	0.9	-2	0.312	-1	2.229	1	7.134	3	1472	42	0.6
41904.7	10000	41.8102	93.6545	-871	QW	1.9	0	6.9	1	0.9	-1	0.278	-1	2.105	1	7.573	4	1468	37	0.6
41904.6	10000	41.8102	93.6538	-871	QW	2.0	2	6.5	1	0.9	-1	0.305	-1	2.114	1	6.920	3	1474	50	0.6
41904.5	10000	41.8102	93.6530	-871	QW	2.2	2	6.3	1	1.0	-1	0.351	0	2.318	1	6.610	2	1481	59	0.6
41904.4	10000	41.8102	93.6523	-871	QW	2.2	2	6.3	1	1.0	-1	0.346	0	2.246	1	6.492	2	1479	46	0.6
41904.3	10000	41.8102	93.6515	-870	QW	2.3	2	6.3	1	1.0	-1	0.373	0	2.386	1	6.392	2	1486	53	0.6
41904.2	10000	41.8102	93.6507	-870	QW	2.0	2	5.8	1	1.0	0	0.349	0	1.963	1	5.624	1	1493	42	0.6
41904.1	10000	41.8102	93.6500	-870	QW	2.2	2	5.7	1	1.0	0	0.384	1	2.074	1	5.401	0	1511	53	0.6
41904.0	10000	41.8102	93.6492	-869	QW	2.5	2	5.3	1	1.0	0	0.468	1	2.381	1	[illegible]87	0	1514	52	0.6
41903.9	10000	41.8102	93.6485	-869	QW	2.6	2	5.1	0	1.0	0	0.508	1	2.475	1	[illegible]	-1	1506	46	0.6
41903.8	10000	41.8102	93.6477	-869	QW	2.4	2	5.0	-1	1.0	0	0.480	1	2.360	1	4.914	0	1508	42	0.6
41903.7	10000	41.8102	93.6469	-868	QW	2.6	2	4.8	-1	1.1	0	0.540	2	2.526	1	4.681	-1	1513	40	0.6
41903.6	10000	41.8102	93.6462	-867	QW	2.7	2	4.9	-1	1.1	0	0.558	2	2.543	1	4.560	-1	1520	43	0.6
41903.5	10000	41.8102	93.6454	-868	QW	2.8	2	4.6	-1	1.1	0	0.605	2	2.532	1	4.184	-2	1515	34	0.6
41903.4	10000	41.8102	93.6447	-867	QW	2.5	2	4.4	-1	1.1	1	0.524	2	2.201	1	4.197	-2	1511	56	0.6
41903.3	10000	41.8102	93.6439	-868	QW	2.4	2	4.5	-1	1.1	1	0.502	1	2.074	1	4.132	-2	1512	44	0.6
41903.2	10000	41.8102	93.6431	-868	QW	2.3	2	4.5	-1	1.1	1	0.442	1	2.013	1	4.551	-1	1516	39	0.6
41903.1	10000	41.8102	93.6424	-868	QW	2.4	2	4.5	-1	1.1	1	0.442	1	2.058	1	4.655	-1	1497	45	0.6
41903.0	10000	41.8103	93.6416	-867	QW	2.2	2	4.9	-1	1.1	1	0.380	0	1.984	1	5.224	0	1496	53	0.6
41902.9	10000	41.8103	93.6409	-867	QW	2.1	2	5.2	0	1.1	1	0.362	0	1.914	1	5.284	0	1492	37	0.6
41902.8	10000	41.8103	93.6401	-867	QW	2.0	2	5.2	0	1.1	1	0.330	0	2.009	1	6.094	1	1478	43	0.6
41902.7	10000	41.8103	93.6393	-865	QW	2.1	2	5.2	0	1.1	1	0.346	0	2.043	1	5.910	1	1474	53	0.6
41902.6	10000	41.8103	93.6386	-863	QW	1.9	2	5.0	0	1.1	1	0.347	0	1.968	1	5.669	1	1471	49	0.6
41902.5	10000	41.8103	93.6378	-863	QW	1.9	2	5.0	0	1.1	0	0.323	-1	1.806	1	5.588	1	1469	45	0.6
41902.4	10000	41.8103	93.6371	-863	QW	1.9	2	5.0	0	1.1	1	0.324	-1	1.846	1	5.705	1	1484	50	0.6
41902.3	10000	41.8103	93.6363	-863	QW	1.9	2	5.0	0	1.1	1	0.329	-1	1.761	1	5.345	0	1476	44	0.6
41902.2	10000	41.8103	93.6355	-862	QW	1.8	2	5.0	0	1.1	0	0.304	-1	1.633	-1	5.379	0	1472	47	0.6

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41902.1	10000	41.8103	93.6348	-863	QW	1.6	-1	6.3	1	1.1	0	0.259	-1	1.476	-1	5.688	1	1487	44	0.6
41902.0	10000	41.8103	93.6340	-863	QW	1.8	-1	6.4	1	1.0	0	0.276	-1	1.722	0	6.227	2	1481	37	0.6
41901.9	10000	41.8103	93.6333	-863	QW	1.8	0	6.5	2	1.0	0	0.280	-1	1.764	0	6.293	2	1491	41	0.6
41901.8	10000	41.8103	93.6325	-862	QW	1.8	0	6.5	2	1.1	0	0.283	-1	1.692	0	5.987	1	1496	37	0.6
41901.7	10000	41.8103	93.6317	-862	QW	1.8	-1	6.3	1	1.1	0	0.278	-1	1.654	-1	5.959	1	1484	50	0.6
41901.6	10000	41.8103	93.6310	-861	QW	1.7	-1	6.3	1	1.1	0	0.268	-1	1.588	-1	5.916	1	1484	34	0.6
41901.5	10000	41.8103	93.6302	-860	QW	1.9	0	6.4	1	1.0	0	0.294	-1	1.845	0	6.280	2	1488	42	0.6
41901.4	10000	41.8103	93.6295	-859	QW	2.1	0	6.0	1	1.1	0	0.359	0	2.026	0	5.639	1	1488	38	0.6
41901.3	10000	41.8104	93.6287	-858	QW	2.1	0	6.0	1	1.1	1	0.354	0	1.936	0	5.473	0	1503	46	0.6
41901.2	10000	41.8104	93.6279	-858	QW	2.2	1	5.7	0	1.1	0	0.395	0	2.071	0	5.247	0	1497	43	0.6
41901.1	10000	41.8104	93.6272	-857	QW	2.2	0	5.6	0	1.1	0	0.387	0	1.990	0	5.148	0	1495	50	0.6
41901.0	10000	41.8104	93.6264	-856	QW	2.2	1	5.8	0	1.2	1	0.379	0	1.870	0	4.937	0	1506	46	0.6
41900.9	10000	41.8104	93.6257	-856	QW	2.2	1	5.7	0	1.2	1	0.389	0	1.910	0	4.908	0	1512	51	0.5
41900.8	10000	41.8104	93.6249	-855	QW	2.1	0	5.6	0	1.2	1	0.375	0	1.736	0	4.632	-1	1510	48	0.6
41900.7	10000	41.8104	93.6241	-855	QW	1.9	0	5.7	0	1.2	1	0.340	0	1.645	-1	4.838	-1	1525	41	0.6
41900.6	10000	41.8104	93.6234	-854	QW	1.9	0	5.1	0	1.2	1	0.377	0	1.637	-1	4.341	-1	1505	32	0.6
41900.5	10000	41.8104	93.6226	-854	QW	1.8	0	5.7	0	1.2	1	0.317	-1	1.494	-1	4.712	-1	1499	41	0.6
41900.4	10000	41.8104	93.6219	-854	QW	1.8	0	5.6	0	1.2	1	0.323	-1	1.535	-1	4.744	-1	1481	44	0.5
41900.3	10000	41.8104	93.6211	-853	QW	1.8	0	5.4	0	1.1	1	0.335	0	1.594	-1	4.757	-1	1481	51	0.5
41900.2	10000	41.8104	93.6203	-853	QW	2.0	0	5.6	0	1.2	1	0.361	0	1.750	0	4.847	-1	1480	46	0.5
41900.1	10000	41.8104	93.6196	-853	QW	2.1	0	5.6	0	1.1	1	0.384	0	1.920	0	4.998	0	1477	46	0.5
41900.0	10000	41.8104	93.6188	-852	QW	2.4	1	5.5	0	1.1	1	0.433	1	2.118	0	4.892	0	1453	46	0.5
41899.9	10000	41.8104	93.6181	-852	QW	2.4	1	5.4	0	1.1	1	0.440	1	2.180	1	4.952	0	1461	51	0.5
41899.8	10000	41.8105	93.6173	-851	QW	2.4	1	5.1	-1	1.1	0	0.467	1	2.234	1	4.787	-1	1472	44	0.5
41899.7	10000	41.8105	93.6165	-851	QW	2.7	1	5.4	0	1.1	1	0.500	1	2.576	1	5.156	0	1481	54	0.5
41899.6	10000	41.8105	93.6158	-850	QW	2.6	1	5.5	0	1.0	1	0.468	1	2.534	1	5.417	0	1481	47	0.5
41899.5	10000	41.8105	93.6150	-849	QW	2.5	1	5.4	0	1.0	1	0.473	1	2.467	1	5.212	0	1482	48	0.5
41899.4	10000	41.8105	93.6143	-847	QW	2.7	1	5.5	0	1.1	1	0.524	1	2.539	1	4.845	-1	1490	46	0.5
41899.3	10000	41.8105	93.6135	-846	QW	2.6	1	5.5	0	1.1	1	0.498	1	2.402	1	4.825	-1	1517	41	0.5
41899.2	10000	41.8105	93.6127	-845	QW	2.7	1	5.6	0	1.1	1	0.492	1	2.487	1	5.059	0	1523	39	0.5
41899.1	10000	41.8105	93.6120	-843	QW	2.7	1	5.9	0	1.1	1	0.452	1	2.491	1	5.514	1	1531	49	0.5
41899.0	10000	41.8105	93.6112	-842	QW	2.5	1	5.9	0	1.1	1	0.408	0	2.333	1	5.724	1	1554	49	0.5
41898.9	10000	41.8105	93.6105	-842	QW	2.7	1	6.2	0	1.1	1	0.418	1	2.361	1	5.646	1	1553	55	0.5
41898.8	10000	41.8105	93.6097	-841	QW	2.7	1	6.3	0	1.0	1	0.431	1	2.611	1	6.053	1	1557	39	0.5
41898.7	10000	41.8105	93.6089	-841	QW	2.7	1	6.4	0	1.1	1	0.426	1	2.593	1	6.083	1	1561	50	0.5
41898.6	10000	41.8105	93.6082	-841	QW	2.9	1	6.3	0	1.0	1	0.456	1	2.764	2	6.067	1	1548	55	0.5
41898.5	10000	41.8105	93.6074	-840	QW	2.6	1	6.3	0	1.0	1	0.411	0	2.498	1	6.071	1	1547	52	0.5
41898.4	10000	41.8105	93.6067	-839	QW	2.5	1	5.8	0	1.1	1	0.434	1	2.420	1	5.576	1	1531	51	0.5
41898.3	10000	41.8105	93.6059	-839	QW	2.5	1	5.5	0	1.1	1	0.459	1	2.352	1	5.124	1	1520	59	0.5
41898.2	10000	41.8105	93.6051	-838	QW	2.6	1	5.5	0	1.1	1	0.467	1	2.422	1	5.183	1	1517	54	0.5
41898.1	10000	41.8104	93.6044	-837	QW	2.5	1	5.0	-1	1.1	1	0.496	1	2.409	1	4.854	-1	1509	54	0.5
41898.0	10000	41.8104	93.6036	-836	QW	2.6	1	5.1	0	1.1	1	0.514	2	2.612	1	5.085	1	1513	50	0.5
41897.9	10000	41.8104	93.6029	-835	QW	2.6	1	5.0	0	1.1	1	0.514	2	2.704	2	5.257	1	1503	56	0.5
41897.8	10000	41.8104	93.6021	-834	QW	2.8	1	5.0	0	1.1	1	0.560	2	2.894	2	5.170	1	1496	46	0.5
41897.7	10000	41.8104	93.6013	-833	QW	2.9	1	5.1	0	1.1	1	0.577	2	3.134	3	5.429	1	1509	42	0.5
41897.6	10000	41.8104	93.6006	-832	QW	2.8	1	5.0	0	1.1	1	0.602	2	3.230	3	5.362	1	1506	51	0.5
41897.5	10000	41.8103	93.5998	-831	QW	2.8	1	5.0	0	1.1	1	0.560	2	3.101	2	5.536	1	1506	47	0.5
41897.4	10000	41.8103	93.5991	-830	QW	2.9	1	5.1	0	1.1	1	0.478	1	2.791	2	5.841	1	1506	45	0.5
41897.3	10000	41.8103	93.5983	-828	QW	2.9	1	5.1	0	1.1	1	0.418	1	2.386	1	5.708	1	1488	45	0.5
41897.2	10000	41.8103	93.5975	-827	QW	2.9	1	5.1	0	1.1	1	0.357	1	1.987	1	5.566	1	1495	46	0.5
41897.1	10000	41.8103	93.5968	-826	QW	2.9	1	5.1	0	1.1	1	0.334	1	1.885	1	5.650	1	1497	45	0.5
41897.0	10000	41.8102	93.5960	-825	QW	2.9	1	5.2	0	1.1	1	0.306	-1	1.704	0	5.569	1	1490	53	0.5

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41896.9	10000	41.8102	93.5953	-824	QW	2.0	0	6.4	1	1.2	1	0.308	-1	1.671	0	5.430	0	1487	43	0.5
41896.8	10000	41.8102	93.5945	-823	QW	1.8	0	6.4	1	1.2	1	0.282	-1	1.506	-1	5.340	0	1491	48	0.5
41896.7	10000	41.8102	93.5937	-822	QW	1.7	-1	6.2	1	1.2	1	0.278	-1	1.453	-1	5.223	0	1475	36	0.5
41896.6	10000	41.8102	93.5930	-821	QW	1.6	-1	6.2	1	1.2	1	0.258	-1	1.371	-1	5.325	0	1471	38	0.5
41896.5	10000	41.8102	93.5922	-820	QW	1.6	-1	6.0	1	1.1	1	0.265	-1	1.405	-1	5.300	0	1459	42	0.5
41896.4	10000	41.8102	93.5915	-819	QW	1.5	-1	6.0	1	1.2	1	0.253	-1	1.298	-1	5.123	0	1450	46	0.5
41896.3	10000	41.8101	93.5907	-819	QW	1.5	-1	5.9	1	1.1	1	0.256	-1	1.312	-1	5.130	0	1437	41	0.5
41896.2	10000	41.8101	93.5899	-817	QW	1.3	-2	5.8	1	1.1	0	0.220	-2	1.178	-2	5.345	0	1442	47	0.5
41896.1	10000	41.8101	93.5892	-816	QW	1.3	-2	5.7	0	1.1	0	0.235	-1	1.240	-1	5.279	0	1424	44	0.5
41896.0	10000	41.8101	93.5884	-815	QW	1.5	-1	5.7	0	1.1	0	0.262	-1	1.397	-1	5.321	0	1436	42	0.5
41895.9	10000	41.8101	93.5876	-814	QW	1.6	-1	5.7	0	1.1	0	0.282	-1	1.503	-1	5.321	0	1438	49	0.5
41895.8	10000	41.8101	93.5869	-813	QW	1.9	0	5.7	0	1.1	0	0.332	0	1.785	0	5.386	0	1450	46	0.5
41895.7	10000	41.8100	93.5861	-811	QW	1.8	0	5.6	0	1.0	0	0.328	0	1.796	0	5.481	0	1450	49	0.5
41895.6	10000	41.8100	93.5854	-811	QW	1.9	0	5.6	0	1.0	0	0.347	0	1.879	0	5.423	0	1451	43	0.5
41895.5	10000	41.8100	93.5846	-809	QW	1.9	0	5.5	0	1.0	0	0.351	0	1.874	0	5.340	0	1441	54	0.5
41895.4	10000	41.8100	93.5838	-808	QW	2.0	0	5.5	0	1.0	0	0.362	0	1.921	0	5.303	0	1450	45	0.5
41895.3	10000	41.8100	93.5831	-807	QW	1.8	0	5.4	0	1.0	0	0.335	0	1.734	0	5.183	0	1447	45	0.5
41895.2	10000	41.8100	93.5823	-806	QW	1.9	0	5.5	0	1.1	0	0.356	0	1.788	0	5.027	0	1457	39	0.5
41895.1	10000	41.8099	93.5816	-805	QW	2.0	0	5.4	0	1.1	0	0.374	0	1.846	0	4.942	0	1455	40	0.5
41895.0	10000	41.8099	93.5808	-804	QW	2.1	0	5.4	0	1.1	0	0.390	0	1.968	0	5.046	0	1459	46	0.5
41894.9	10000	41.8099	93.5800	-802	QW	1.8	0	5.4	0	1.1	0	0.341	0	1.702	0	4.998	0	1466	54	0.5
41894.8	10000	41.8099	93.5793	-802	QW	2.3	1	5.6	0	1.1	1	0.412	0	2.040	0	4.957	0	1481	39	0.5
41894.7	10000	41.8099	93.5785	-801	QW	2.3	1	5.5	0	1.1	1	0.409	0	2.009	0	4.910	0	1488	55	0.5
41894.6	10000	41.8098	93.5778	-800	QW	2.4	1	5.5	0	1.1	0	0.439	1	2.192	1	4.998	0	1505	42	0.5
41894.5	10000	41.8098	93.5770	-799	QW	2.3	1	6.0	1	1.1	0	0.390	0	2.169	1	5.554	1	1506	46	0.5
41894.4	10000	41.8098	93.5762	-798	QW	2.2	1	6.0	1	1.1	0	0.367	0	2.060	0	5.617	1	1509	46	0.5
41894.3	10000	41.8098	93.5755	-797	QW	2.2	1	6.2	1	1.1	0	0.362	0	2.058	0	5.693	1	1524	44	0.5
41894.2	10000	41.8098	93.5747	-797	QW	2.4	1	6.3	1	1.1	0	0.387	0	2.315	1	5.981	1	1519	41	0.5
41894.1	10000	41.8098	93.5740	-796	QW	2.1	0	6.2	1	1.0	-1	0.331	0	2.130	0	6.439	2	1490	49	0.5
41894.0	10000	41.8097	93.5732	-795	QW	2.1	0	6.1	1	0.9	-1	0.344	0	2.304	1	6.693	2	1473	39	0.5
41893.9	10000	41.8097	93.5724	-794	QW	1.9	0	6.1	1	0.9	-1	0.319	-1	2.073	1	6.492	2	1449	43	0.5
41893.8	10000	41.8097	93.5717	-794	QW	1.8	-1	5.7	1	0.9	-1	0.317	-1	1.962	1	6.189	2	1423	42	0.5
41893.7	10000	41.8097	93.5709	-793	QW	1.8	-1	5.8	1	0.9	-1	0.304	-1	1.960	1	6.458	2	1414	51	0.5
41893.6	10000	41.8097	93.5702	-793	QW	1.6	-1	6.1	1	0.9	-1	0.265	-1	1.753	1	6.618	2	1399	54	0.5
41893.5	10000	41.8097	93.5694	-793	QW	1.6	-1	6.0	1	0.9	-1	0.263	-1	1.749	1	6.642	2	1399	38	0.5
41893.4	10000	41.8096	93.5686	-792	QW	1.6	-1	6.0	1	1.0	-1	0.265	-1	1.632	-1	6.155	1	1420	42	0.5
41893.3	10000	41.8096	93.5679	-792	QW	1.6	-1	5.9	1	1.0	-1	0.273	-1	1.615	-1	5.920	1	1432	52	0.5
41893.2	10000	41.8096	93.5671	-791	QW	1.8	0	5.8	1	1.0	-1	0.316	-1	1.901	0	6.007	1	1430	52	0.5
41893.1	10000	41.8096	93.5664	-789	QW	2.0	0	5.7	1	1.0	-1	0.358	0	2.078	1	5.806	1	1439	37	0.5
41893.0	10000	41.8096	93.5656	-789	QW	2.0	0	5.5	1	1.0	-1	0.363	0	2.022	1	5.575	1	1431	51	0.5
41892.9	10000	41.8095	93.5648	-788	QW	2.1	1	5.5	1	1.0	-1	0.403	0	2.108	1	5.237	1	1424	45	0.5
41892.8	10000	41.8095	93.5641	-788	QW	2.1	1	5.3	1	1.1	0	0.394	0	1.980	1	5.028	1	1424	52	0.5
41892.7	10000	41.8095	93.5633	-787	QW	2.2	1	5.4	1	1.1	0	0.397	0	2.107	1	5.313	1	1419	51	0.5
41892.6	10000	41.8095	93.5626	-786	QW	2.1	1	5.3	1	1.1	0	0.393	0	2.095	1	5.331	1	1411	53	0.5
41892.5	10000	41.8095	93.5618	-786	QW	1.9	1	5.3	1	1.1	0	0.329	0	1.900	1	5.767	1	1419	45	0.5
41892.4	10000	41.8095	93.5611	-786	QW	1.8	1	5.5	1	1.1	0	0.319	-1	1.745	1	5.468	1	1420	57	0.5
41892.3	10000	41.8094	93.5603	-785	QW	1.7	1	5.7	1	1.1	0	0.292	-1	1.613	-1	5.518	1	1428	46	0.5
41892.2	10000	41.8094	93.5595	-785	QW	1.8	1	5.8	1	1.1	0	0.312	-1	1.672	1	5.362	1	1436	35	0.5
41892.1	10000	41.8094	93.5588	-785	QW	1.9	1	5.8	1	1.1	0	0.309	-1	1.720	1	5.559	1	1434	43	0.5
41892.0	10000	41.8094	93.5580	-785	QW	2.1	1	6.0	1	1.1	0	0.330	0	1.760	1	5.340	1	1430	51	0.5
41891.9	10000	41.8094	93.5572	-784	QW	1.9	0	5.5	0	1.1	0	0.340	0	1.868	1	5.493	1	1425	56	0.5
41891.8	10000	41.8094	93.5565	-784	QW	1.9	0	5.5	0	1.1	1	0.350	0	1.732	0	4.947	0	1423	45	0.5

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41891.7	10000	41.8093	93.5557	-784	QW	1.9	0	5.8	1	1.1	1	0.318	-1	1.671	0	5.262	0	1425	48	0.5
41891.6	10000	41.8093	93.5550	-783	QW	1.8	0	5.9	1	1.1	0	0.315	-1	1.694	0	5.374	0	1421	50	0.5
41891.5	10000	41.8093	93.5542	-783	QW	1.7	-1	6.0	1	1.1	0	0.278	-1	1.559	-1	5.619	1	1410	48	0.5
41891.4	10000	41.8093	93.5534	-783	QW	1.6	-1	5.7	0	1.1	0	0.287	-1	1.531	-1	5.330	0	1410	40	0.5
41891.3	10000	41.8093	93.5527	-782	QW	1.5	-1	5.7	0	1.0	0	0.269	-1	1.487	-1	5.538	1	1407	57	0.5
41891.2	10000	41.8093	93.5519	-782	QW	1.4	-1	5.4	0	1.0	0	0.265	-1	1.423	-1	5.370	0	1399	54	0.5
41891.1	10000	41.8092	93.5512	-782	QW	1.8	0	5.6	0	1.0	-1	0.324	0	1.841	0	5.686	1	1389	37	0.5
41891.0	10000	41.8092	93.5504	-782	QW	1.9	0	5.3	0	1.0	-1	0.354	0	1.937	0	5.466	0	1386	44	0.5
41890.9	10000	41.8092	93.5496	-782	QW	2.0	0	5.2	0	1.0	-1	0.385	0	2.064	0	5.363	0	1394	59	0.5
41890.8	10000	41.8092	93.5489	-782	QW	2.0	0	5.2	0	1.0	-1	0.379	0	2.042	0	5.380	0	1412	53	0.5
41890.7	10000	41.8092	93.5481	-782	QW	2.1	0	5.3	0	1.0	-1	0.393	0	2.131	0	5.429	0	1423	41	0.5
41890.6	10000	41.8092	93.5474	-782	QW	2.1	0	5.2	0	1.0	0	0.414	0	2.122	0	5.129	0	1436	42	0.5
41890.5	10000	41.8091	93.5466	-782	QW	2.2	1	5.2	0	1.0	0	0.432	1	2.206	1	5.106	0	1462	45	0.5
41890.4	10000	41.8091	93.5458	-782	QW	2.2	0	5.2	0	1.1	0	0.412	0	2.054	0	4.986	0	1476	50	0.5
41890.3	10000	41.8091	93.5451	-782	QW	2.3	1	5.6	0	1.1	0	0.414	0	2.185	1	5.275	0	1490	48	0.5
41890.2	10000	41.8091	93.5443	-782	QW	2.2	0	5.6	0	1.1	0	0.393	0	2.051	0	5.224	0	1495	54	0.5
41890.1	10000	41.8091	93.5436	-782	QW	2.4	1	5.5	0	1.1	0	0.435	1	2.185	1	5.024	0	1492	49	0.5
41890.0	10000	41.8091	93.5428	-782	QW	2.4	1	5.3	0	1.1	0	0.453	1	2.269	1	5.008	0	1480	42	0.5
41889.9	10000	41.8090	93.5420	-782	QW	2.4	1	5.4	0	1.0	0	0.454	1	2.352	1	5.187	0	1471	34	0.5
41889.8	10000	41.8090	93.5413	-782	QW	2.2	1	5.8	0	1.1	0	0.388	0	2.081	0	5.358	0	1470	54	0.5
41889.7	10000	41.8090	93.5405	-782	QW	2.2	1	5.6	0	1.0	0	0.396	0	2.129	0	5.373	0	1467	38	0.5
41889.6	10000	41.8090	93.5397	-782	QW	2.1	0	5.3	0	1.0	0	0.391	0	2.026	0	5.184	0	1446	46	0.5
41889.5	10000	41.8090	93.5390	-781	QW	2.1	0	5.5	0	1.0	-1	0.394	0	2.154	1	5.466	0	1416	37	0.5
41889.4	10000	41.8089	93.5382	-781	QW	2.1	0	5.5	0	0.9	-1	0.376	0	2.167	1	5.768	1	1398	38	0.5
41889.3	10000	41.8089	93.5375	-781	QW	2.0	0	5.7	0	1.0	-1	0.350	0	2.089	0	5.964	1	1393	38	0.5
41889.2	10000	41.8089	93.5367	-781	QW	1.8	0	5.6	0	1.0	-1	0.326	0	1.882	0	5.778	1	1382	45	0.5
41889.1	10000	41.8089	93.5359	-781	QW	1.8	0	5.6	0	0.9	-1	0.328	0	1.929	0	5.877	1	1362	39	0.5
41889.0	10000	41.8089	93.5352	-782	QW	1.7	-1	6.2	1	1.0	-1	0.269	-1	1.697	0	6.311	2	1356	49	0.5
41888.9	10000	41.8089	93.5344	-783	QW	1.8	-1	6.3	1	1.0	-1	0.280	-1	1.759	0	6.285	2	1369	62	0.5
41888.8	10000	41.8088	93.5337	-782	QW	1.7	-1	6.1	1	1.0	0	0.282	-1	1.680	0	5.959	1	1382	50	0.5
41888.7	10000	41.8088	93.5329	-782	QW	1.7	-1	6.1	1	1.0	0	0.273	-1	1.664	-1	6.103	1	1381	44	0.5
41888.6	10000	41.8088	93.5322	-782	QW	1.7	-1	6.1	1	1.0	0	0.287	-1	1.686	0	5.868	1	1397	54	0.5
41888.5	10000	41.8088	93.5314	-782	QW	1.9	0	5.2	0	1.0	0	0.310	-1	1.908	0	6.156	2	1409	48	0.5
41888.4	10000	41.8088	93.5306	-782	QW	2.2	1	5.8	1	1.0	0	0.384	0	2.131	1	5.546	1	1434	47	0.5
41888.3	10000	41.8088	93.5299	-782	QW	2.4	1	5.4	1	1.0	0	0.453	1	2.360	1	5.208	0	1447	40	0.5
41888.2	10000	41.8087	93.5291	-782	QW	2.5	1	5.4	1	1.0	0	0.475	1	2.512	1	5.283	0	1452	39	0.5
41888.1	10000	41.8087	93.5284	-782	QW	2.5	1	5.4	1	1.0	1	0.468	1	2.460	1	5.259	0	1460	41	0.5
41888.0	10000	41.8087	93.5276	-781	QW	2.6	2	5.3	1	1.1	1	0.497	1	2.405	1	4.835	-1	1477	44	0.5
41887.9	10000	41.8087	93.5268	-782	QW	2.4	1	5.3	1	1.1	1	0.445	1	2.258	1	5.073	0	1463	41	0.5
41887.8	10000	41.8087	93.5261	-782	QW	2.4	1	5.3	1	1.1	1	0.451	1	2.149	1	4.765	-1	1465	37	0.5
41887.7	10000	41.8086	93.5253	-782	QW	2.3	1	5.2	1	1.1	1	0.427	1	2.155	1	5.051	0	1455	37	0.5
41887.6	10000	41.8086	93.5246	-782	QW	2.2	1	5.2	1	1.1	1	0.420	1	2.058	1	4.903	0	1449	36	0.5
41887.5	10000	41.8086	93.5238	-782	QW	2.0	1	5.4	0	1.1	1	0.417	0	1.911	0	4.586	-1	1443	40	0.5
41887.4	10000	41.8086	93.5230	-782	QW	2.2	1	5.2	1	1.1	1	0.437	1	2.077	0	4.757	-1	1441	44	0.5
41887.3	10000	41.8086	93.5223	-782	QW	2.2	1	5.0	1	1.1	1	0.428	1	2.143	1	5.003	0	1438	43	0.5
41887.2	10000	41.8086	93.5215	-782	QW	2.3	2	5.2	1	1.1	0	0.457	1	2.209	1	4.829	-1	1453	53	0.5
41887.1	10000	41.8085	93.5208	-781	QW	2.2	1	5.3	1	1.1	0	0.416	0	2.100	0	5.044	0	1455	50	0.5
41887.0	10000	41.8085	93.5200	-780	QW	1.9	0	5.2	0	1.0	0	0.367	0	1.872	0	5.104	0	1449	55	0.6
41886.9	10000	41.8085	93.5192	-781	QW	1.9	0	5.3	0	1.0	0	0.366	0	1.867	0	5.097	0	1453	43	0.6
41886.8	10000	41.8085	93.5185	-781	QW	2.0	0	5.7	0	1.1	0	0.357	0	1.944	0	5.453	0	1468	43	0.6
41886.7	10000	41.8085	93.5177	-781	QW	1.9	0	5.5	0	1.1	0	0.343	0	1.774	0	5.165	0	1479	53	0.6
41886.6	10000	41.8084	93.5170	-780	QW	1.9	0	5.6	0	1.1	0	0.345	0	1.770	0	5.134	0	1486	50	0.6

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41886.5	10000	41.8084	93.5162	-780	QW	2.0	0	5.6	0	1.1	0	0.356	0	1.850	0	5.199	0	1482	41	0.6
41886.4	10000	41.8084	93.5154	-780	QW	2.0	0	5.6	0	1.0	0	0.360	0	1.929	0	5.358	0	1494	39	0.6
41886.3	10000	41.8084	93.5147	-780	QW	2.1	0	5.7	0	1.1	0	0.369	0	1.980	0	5.371	0	1507	39	0.6
41886.2	10000	41.8084	93.5139	-779	QW	2.0	0	5.9	1	1.1	0	0.338	0	1.842	0	5.455	0	1514	44	0.6
41886.1	10000	41.8084	93.5132	-779	QW	1.9	0	5.7	0	1.1	0	0.342	0	1.778	0	5.204	0	1513	43	0.6
41886.0	10000	41.8083	93.5124	-778	QW	2.0	0	5.8	1	1.1	0	0.338	0	1.797	0	5.315	0	1503	34	0.6
41885.9	10000	41.8083	93.5116	-778	QW	1.8	0	5.8	1	1.1	1	0.312	-1	1.641	-1	5.261	0	1500	44	0.6
41885.8	10000	41.8083	93.5109	-778	QW	1.8	0	5.7	0	1.1	0	0.318	-1	1.649	-1	5.184	0	1504	37	0.6
41885.7	10000	41.8083	93.5101	-777	QW	2.0	0	5.5	0	1.1	0	0.354	0	1.800	0	5.087	0	1498	44	0.6
41885.6	10000	41.8083	93.5093	-777	QW	2.0	0	5.2	0	1.0	0	0.395	0	1.966	0	4.980	0	1491	45	0.6
41885.5	10000	41.8083	93.5086	-777	QW	2.3	1	5.0	-1	1.0	0	0.446	1	2.202	1	4.936	0	1491	34	0.6
41885.4	10000	41.8082	93.5078	-777	QW	2.2	0	5.3	0	1.0	0	0.411	0	2.128	0	5.177	0	1480	42	0.6
41885.3	10000	41.8082	93.5071	-777	QW	2.3	1	4.9	-1	1.0	0	0.471	1	2.308	1	4.904	0	1486	37	0.6
41885.2	10000	41.8082	93.5063	-776	QW	2.4	1	4.9	-1	1.0	-1	0.496	1	2.486	1	5.017	0	1478	42	0.7
41885.1	10000	41.8082	93.5055	-776	QW	2.3	1	5.1	-1	1.0	0	0.455	1	2.267	1	4.986	0	1480	48	0.7
41885.0	10000	41.8082	93.5048	-776	QW	2.1	0	5.0	-1	1.0	0	0.423	1	2.073	0	4.906	0	1475	37	0.7
41884.9	10000	41.8082	93.5040	-776	QW	2.0	0	5.5	0	1.1	0	0.358	0	1.840	0	5.141	0	1479	61	0.7
41884.8	10000	41.8081	93.5033	-776	QW	1.8	-1	5.4	0	1.1	0	0.326	0	1.640	-1	5.036	0	1456	46	0.7
41884.7	10000	41.8081	93.5025	-775	QW	1.7	-1	5.3	0	1.1	0	0.319	-1	1.611	-1	5.054	0	1444	55	0.7
41884.6	10000	41.8081	93.5017	-773	QW	1.5	-1	5.7	0	1.1	1	0.266	-1	1.358	-1	5.107	0	1446	41	0.7
41884.5	10000	41.8081	93.5010	-772	QW	1.5	-1	5.5	0	1.1	1	0.279	-1	1.349	-1	4.831	-1	1441	49	0.7
41884.4	10000	41.8081	93.5002	-772	QW	1.5	-1	5.6	0	1.1	1	0.272	-1	1.370	-1	5.035	0	1434	38	0.7
41884.3	10000	41.8081	93.4994	-773	QW	1.4	-1	5.5	0	1.1	1	0.264	-1	1.273	-1	4.825	-1	1415	57	0.7
41884.2	10000	41.8081	93.4986	-773	QW	1.3	-2	5.3	0	1.1	0	0.246	-1	1.195	-1	4.850	-1	1404	42	0.7
41884.1	10000	41.8081	93.4978	-773	QW	1.3	-2	5.3	0	1.1	1	0.253	-1	1.204	-1	4.748	-1	1420	35	0.7
41884.0	10000	41.8081	93.4970	-773	QW	1.4	-1	5.1	0	1.1	1	0.270	-1	1.228	-1	4.554	-1	1414	43	0.7
41883.9	10000	41.8081	93.4962	-772	QW	1.7	-1	5.0	0	1.1	1	0.336	-1	1.675	-1	4.991	-1	1397	41	0.8
41883.8	10000	41.8081	93.4954	-771	QW	1.7	-1	5.2	0	1.1	1	0.331	-1	1.776	0	5.369	0	1396	53	0.8
41883.7	10000	41.8082	93.4946	-770	QW	1.8	-1	5.3	0	1.1	1	0.346	-1	1.751	0	5.065	0	1388	56	0.8
41883.6	10000	41.8082	93.4938	-769	QW	1.8	-1	5.2	0	1.1	1	0.342	-1	1.777	0	5.194	0	1411	45	0.8
41883.5	10000	41.8082	93.4930	-768	QW	2.0	-1	5.2	0	1.1	1	0.387	-1	1.867	0	4.826	-1	1421	51	0.8
41883.4	10000	41.8082	93.4922	-768	QW	2.0	-1	5.3	0	1.1	1	0.396	-1	1.908	0	4.822	-1	1412	51	0.8
41883.3	10000	41.8082	93.4914	-767	QW	2.0	-1	5.3	0	1.1	1	0.367	-1	1.856	0	5.057	0	1420	58	0.8
41883.2	10000	41.8082	93.4906	-766	QW	1.7	-1	5.6	0	1.1	0	0.305	-1	1.505	-1	4.941	-1	1440	35	0.8
41883.1	10000	41.8082	93.4899	-765	QW	1.7	-1	6.0	1	1.2	0	0.291	-1	1.481	-1	5.085	-1	1479	47	0.8
41883.0	10000	41.8082	93.4891	-764	QW	1.8	-1	6.2	1	1.1	0	0.286	-1	1.549	-1	5.417	-1	1505	58	0.8
41882.9	10000	41.8082	93.4883	-763	QW	1.8	-1	6.3	1	1.1	0	0.282	-1	1.568	-1	5.560	-1	1519	35	0.8
41882.8	10000	41.8082	93.4875	-762	QW	1.9	-1	6.3	1	1.1	0	0.285	-1	1.767	0	6.193	0	1548	48	0.8
41882.7	10000	41.8082	93.4867	-762	QW	2.0	-1	6.3	1	1.1	0	0.286	-1	1.895	0	6.635	0	1580	45	0.8
41882.6	10000	41.8083	93.4859	-761	QW	2.1	-1	6.4	1	1.1	0	0.315	-1	2.085	0	6.613	0	1605	51	0.9
41882.5	10000	41.8083	93.4851	-761	QW	2.2	-1	6.6	1	1.1	0	0.327	-1	2.234	0	6.836	0	1618	44	0.9
41882.4	10000	41.8083	93.4843	-760	QW	2.3	-1	6.6	1	1.1	0	0.335	-1	2.346	0	6.996	0	1611	53	0.9
41882.3	10000	41.8083	93.4835	-759	QW	2.4	-1	6.8	1	1.1	0	0.349	-1	2.478	0	7.098	0	1609	46	0.9
41882.2	10000	41.8083	93.4827	-758	QW	2.4	-1	7.0	1	1.1	0	0.337	-1	2.471	0	7.322	0	1602	50	0.9
41882.1	10000	41.8083	93.4819	-757	QW	2.2	-1	6.8	0	1.1	0	0.324	-1	2.361	0	7.278	0	1592	39	0.9
41882.0	10000	41.8083	93.4811	-759	QW	2.4	-1	7.0	0	1.1	0	0.338	-1	2.508	0	7.416	0	1574	42	0.9
41881.9	10000	41.8083	93.4803	-761	QW	2.3	-1	7.0	0	1.1	0	0.324	-1	2.394	0	7.381	0	1557	48	0.9
41881.8	10000	41.8083	93.4795	-761	QW	2.2	-1	6.8	0	1.1	0	0.321	-1	2.378	0	7.050	0	1528	50	0.9
41881.7	10000	41.8083	93.4787	-760	QW	2.1	-2	6.6	0	1.1	0	0.318	-1	2.343	0	6.685	0	1495	55	0.9
41881.6	10000	41.8083	93.4779	-758	QW	2.1	-2	6.6	0	1.1	0	0.357	-1	2.219	0	6.220	0	1460	54	0.9
41881.5	10000	41.8083	93.4771	-758	QW	2.2	-1	6.7	0	1.1	0	0.413	-1	2.485	0	6.010	0	1428	36	0.9
41881.4	10000	41.8084	93.4763	-757	QW	2.3	-1	6.6	0	1.1	0	0.441	-1	2.480	0	5.629	0	1390	38	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41881.3	10000	41.8084	93.4755	-756	QO	1.9	0	5.0	0	0.9	-1	0.375	0	2.100	0	5.602	0	1362	46	0.9
41881.2	10000	41.8084	93.4747	-755	QO	1.7	-1	5.1	0	0.9	-1	0.346	0	1.961	0	5.670	0	1349	31	0.9
41881.1	10000	41.8084	93.4740	-755	QO	1.6	-1	5.3	0	0.9	-1	0.306	-1	1.837	0	6.008	1	1349	43	1.0
41881.0	10000	41.8084	93.4732	-754	QO	1.5	-1	5.5	0	0.9	-1	0.282	-1	1.698	-1	6.012	1	1351	42	1.0
41880.9	10000	41.8084	93.4724	-753	QO	1.5	-1	6.0	0	0.9	-1	0.247	-1	1.592	-1	6.450	1	1369	49	1.0
41880.8	10000	41.8084	93.4716	-752	QO	1.4	-1	6.3	1	0.9	-1	0.217	-1	1.465	-1	6.757	2	1380	43	1.0
41880.7	10000	41.8084	93.4708	-751	QO	1.3	-1	6.1	1	0.9	-1	0.219	-1	1.442	-1	6.582	1	1400	51	1.0
41880.6	10000	41.8084	93.4700	-750	QO	1.7	-1	6.0	1	1.0	-1	0.283	-1	1.787	0	6.317	1	1430	39	1.0
41880.5	10000	41.8084	93.4692	-749	QO	1.9	0	5.9	0	0.9	-1	0.319	-1	1.980	0	6.215	1	1450	57	1.0
41880.4	10000	41.8084	93.4684	-748	QO	2.0	0	5.7	0	0.9	-1	0.352	0	2.238	0	6.360	1	1461	47	1.0
41880.3	10000	41.8085	93.4676	-748	QO	2.3	1	6.0	0	0.8	-1	0.392	0	2.761	1	7.049	2	1490	49	1.0
41880.2	10000	41.8085	93.4668	-747	QO	2.5	1	5.7	0	0.8	-1	0.431	0	3.026	1	7.021	2	1508	50	1.0
41880.1	10000	41.8085	93.4660	-746	QO	2.4	1	5.8	0	0.8	-1	0.423	0	3.010	1	7.122	2	1541	70	1.0
41880.0	10000	41.8085	93.4652	-746	QO	2.4	1	5.9	0	0.9	-1	0.407	0	2.758	1	6.781	2	1566	49	1.0
41879.9	10000	41.8085	93.4644	-745	QO	2.2	0	6.1	1	0.9	-1	0.363	0	2.418	1	6.661	2	1583	41	1.0
41879.8	10000	41.8085	93.4636	-744	QO	2.2	0	6.5	1	0.9	-1	0.334	0	2.394	1	7.166	2	1587	45	1.0
41879.7	10000	41.8085	93.4628	-743	QO	2.2	0	6.7	1	1.0	0	0.322	-1	2.185	0	6.781	2	1598	39	1.0
41879.6	10000	41.8085	93.4620	-743	QO	2.1	0	6.6	1	1.0	0	0.311	-1	2.033	0	6.526	1	1592	48	1.0
41879.5	10000	41.8085	93.4612	-742	QO	2.1	0	6.4	1	1.1	0	0.328	-1	1.999	0	6.095	1	1599	48	1.0
41879.4	10000	41.8085	93.4604	-741	QO	2.2	0	6.0	1	1.1	0	0.367	0	2.024	0	5.520	0	1591	49	1.0
41879.3	10000	41.8086	93.4597	-740	QO	2.3	0	6.1	1	1.1	0	0.378	0	2.119	0	5.612	0	1580	52	1.0
41879.2	10000	41.8086	93.4588	-740	QO	2.3	1	5.7	1	1.1	0	0.403	0	2.185	0	5.418	0	1564	34	1.0
41879.1	10000	41.8086	93.4581	-739	QO	2.5	1	5.3	1	1.1	0	0.480	1	2.342	0	4.881	0	1555	53	1.0
41879.0	10000	41.8086	93.4573	-739	QO	2.2	1	5.2	0	1.0	0	0.419	0	2.078	0	4.964	0	1521	39	1.0
41878.9	10000	41.8086	93.4565	-739	QO	2.2	0	4.8	-1	1.1	0	0.448	0	2.025	0	4.524	-1	1494	38	1.0
41878.8	10000	41.8086	93.4557	-738	QO	2.2	0	4.7	-1	1.0	0	0.466	1	2.134	0	4.582	-1	1451	44	1.0
41878.7	10000	41.8086	93.4549	-737	QO	2.0	0	4.5	-1	1.0	0	0.433	0	1.990	0	4.595	-1	1408	42	1.0
41878.6	10000	41.8086	93.4541	-736	QO	2.1	0	4.2	-1	0.9	-1	0.504	1	2.226	0	4.414	-1	1376	60	1.0
41878.5	10000	41.8086	93.4533	-735	QO	2.3	0	4.1	-1	0.9	-1	0.551	1	2.490	0	4.519	-1	1355	40	1.0
41878.4	10000	41.8086	93.4525	-734	QO	1.8	0	3.8	-1	0.9	-1	0.487	1	2.115	0	4.345	-1	1329	47	1.0
41878.3	10000	41.8086	93.4517	-734	QO	2.1	0	3.6	-2	0.9	-1	0.594	2	2.276	0	3.834	-2	1344	35	1.0
41878.2	10000	41.8087	93.4509	-735	QO	2.0	0	3.4	-2	1.0	-1	0.582	2	2.035	0	3.494	-2	1348	39	1.0
41878.1	10000	41.8087	93.4501	-735	QO	2.0	0	3.8	-1	1.0	-1	0.519	2	2.018	0	3.887	-2	1358	31	1.0
41878.0	10000	41.8087	93.4493	-735	QO	2.2	0	3.8	-1	1.0	-1	0.585	2	2.227	0	3.809	-2	1383	57	1.0
41877.9	10000	41.8087	93.4485	-734	QO	1.9	0	4.1	-1	1.0	-1	0.474	1	1.914	0	4.035	-1	1413	38	1.0
41877.8	10000	41.8087	93.4477	-734	QO	1.7	-1	4.4	-1	1.1	-1	0.386	0	1.592	-1	4.121	-1	1431	39	0.9
41877.7	10000	41.8087	93.4469	-733	QO	1.8	-1	4.8	-1	1.1	-1	0.384	0	1.656	-1	4.310	-1	1453	37	0.9
41877.6	10000	41.8087	93.4461	-733	QO	1.8	-1	5.0	-1	1.1	0	0.354	0	1.666	-1	4.713	-1	1472	47	0.9
41877.5	10000	41.8087	93.4453	-733	QO	2.0	0	5.4	0	1.1	0	0.364	0	1.901	0	5.229	0	1514	46	0.9
41877.4	10000	41.8087	93.4445	-733	QO	2.0	1	5.1	0	1.1	0	0.398	0	2.056	0	5.171	0	1524	44	0.9
41877.3	10000	41.8087	93.4438	-733	QO	2.1	1	5.4	0	1.1	0	0.388	0	2.030	0	5.225	0	1547	35	0.9
41877.2	10000	41.8087	93.4430	-733	QO	2.4	1	5.4	0	1.1	0	0.443	0	2.357	0	5.319	0	1557	49	0.9
41877.1	10000	41.8088	93.4422	-732	QO	2.5	1	5.2	0	1.1	0	0.482	1	2.470	0	5.123	0	1576	50	0.9
41877.0	10000	41.8088	93.4414	-732	QO	2.7	1	5.3	0	1.1	0	0.533	1	2.737	0	5.137	0	1589	43	0.9
41876.9	10000	41.8088	93.4406	-732	QO	2.7	1	5.4	0	1.1	0	0.554	1	2.805	0	5.060	0	1580	41	0.9
41876.8	10000	41.8088	93.4398	-732	QO	2.5	1	5.5	0	1.1	0	0.526	1	2.565	0	4.874	0	1560	52	0.9
41876.7	10000	41.8088	93.4390	-732	QO	2.3	1	5.5	0	1.1	0	0.464	1	2.165	0	4.668	-1	1566	42	0.9
41876.6	10000	41.8088	93.4382	-732	QO	2.3	1	5.7	0	1.1	0	0.428	1	2.146	0	5.018	0	1551	38	0.9
41876.5	10000	41.8088	93.4374	-732	QO	2.1	1	5.8	0	1.1	0	0.404	1	2.097	0	5.189	0	1537	45	0.9
41876.4	10000	41.8088	93.4366	-732	QO	2.0	1	5.9	0	1.1	0	0.367	1	1.981	0	5.399	0	1512	42	0.8
41876.3	10000	41.8088	93.4358	-732	QO	2.1	1	5.6	0	1.2	0	0.335	1	1.713	0	5.109	0	1502	49	0.8
41876.2	10000	41.8088	93.4350	-732	QO	2.1	1	5.6	0	1.1	0	0.382	0	1.965	0	5.146	0	1501	47	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41876.1	10000	41.8088	93.4342	-732	QQ	2.4	1	5.4	0	1.1	0	0.440	0	2.192	0	4.987	0	1498	39	0.8
41876.0	10000	41.8088	93.4334	-733	QQ	2.4	1	5.1	0	1.0	0	0.474	1	2.425	1	5.113	0	1503	39	0.8
41875.9	10000	41.8089	93.4326	-733	QQ	2.5	1	4.9	0	1.0	0	0.503	1	2.417	1	4.808	-1	1488	41	0.8
41875.8	10000	41.8089	93.4318	-733	QQ	2.3	1	4.9	0	1.0	0	0.474	1	2.331	0	4.917	0	1456	41	0.8
41875.7	10000	41.8089	93.4310	-734	QQ	2.8	1	4.6	-1	1.0	0	0.603	2	2.793	1	4.632	-1	1439	57	0.8
41875.6	10000	41.8089	93.4302	-734	QQ	2.7	1	4.3	-1	0.9	-1	0.640	2	2.848	1	4.449	-1	1413	52	0.8
41875.5	10000	41.8089	93.4294	-734	QQ	2.6	1	4.0	-1	0.9	-1	0.639	2	2.721	1	4.259	-1	1375	47	0.8
41875.4	10000	41.8089	93.4286	-734	QQ	2.4	1	4.0	-1	0.9	-1	0.597	2	2.624	1	4.394	-1	1345	41	0.7
41875.3	10000	41.8089	93.4279	-734	QQ	2.5	1	3.8	-1	0.9	-1	0.651	2	2.673	1	4.103	-1	1309	47	0.7
41875.2	10000	41.8089	93.4271	-734	QQ	2.4	1	3.8	-1	0.9	-1	0.633	2	2.595	1	4.101	-1	1297	48	0.7
41875.1	10000	41.8089	93.4263	-735	QQ	2.6	1	3.5	-2	0.9	-1	0.722	2	2.739	1	3.796	-2	1304	43	0.7
41875.0	10000	41.8089	93.4255	-735	QQ	2.3	0	3.8	-1	0.9	-1	0.603	2	2.461	1	4.081	-1	1303	56	0.7
41874.9	10000	41.8089	93.4247	-736	QQ	2.5	1	4.1	-1	0.9	-1	0.602	2	2.662	1	4.419	-1	1322	42	0.7
41874.8	10000	41.8090	93.4239	-736	QQ	2.3	1	4.2	-1	1.0	0	0.546	1	2.371	0	4.342	-1	1335	38	0.7
41874.7	10000	41.8090	93.4231	-736	QQ	2.5	1	4.4	-1	1.0	0	0.560	1	2.383	0	4.255	-1	1352	45	0.7
41874.6	10000	41.8090	93.4223	-738	QQW	2.2	1	4.2	-2	1.0	0	0.540	2	2.183	1	4.041	-2	1358	56	0.7
41874.5	10000	41.8090	93.4215	-739	QQW	2.5	1	4.3	-2	1.0	0	0.589	2	2.487	1	4.223	-2	1353	44	0.6
41874.4	10000	41.8090	93.4207	-739	QQW	2.3	1	4.2	-2	1.1	0	0.544	2	2.174	1	3.996	-2	1334	40	0.6
41874.3	10000	41.8090	93.4199	-740	QQW	2.4	1	4.0	-2	1.0	0	0.600	2	2.339	1	3.901	-2	1316	46	0.6
41874.2	10000	41.8090	93.4191	-740	QQW	2.3	1	3.9	-2	1.0	-1	0.596	2	2.354	1	3.947	-2	1293	62	0.6
41874.1	10000	41.8090	93.4183	-741	QQW	2.3	1	3.9	-2	1.0	0	0.579	2	2.247	1	3.878	-2	1274	47	0.6
41874.0	10000	41.8090	93.4175	-742	QQW	2.1	0	3.9	-2	1.0	-1	0.531	2	2.118	0	3.988	-2	1248	49	0.6
41873.9	10000	41.8090	93.4167	-743	QQW	2.0	0	4.1	-2	1.0	0	0.498	1	1.993	0	4.003	-2	1234	35	0.6
41873.8	10000	41.8090	93.4159	-744	QQW	1.7	-1	4.0	-2	1.0	-1	0.431	1	1.741	0	4.040	-2	1213	42	0.6
41873.7	10000	41.8090	93.4151	-744	QQW	1.6	-1	4.1	-2	1.0	-1	0.392	0	1.637	-1	4.180	-2	1210	41	0.6
41873.6	10000	41.8091	93.4143	-745	QQW	1.2	-2	3.9	-2	1.0	-1	0.316	-1	1.246	-1	3.941	-2	1196	36	0.5
41873.5	10000	41.8091	93.4135	-746	QQW	1.1	-2	3.7	-2	1.0	-1	0.302	-1	1.118	-2	3.702	-2	1194	56	0.5
41873.4	10000	41.8091	93.4128	-747	QQW	1.1	-2	3.5	-2	1.0	-1	0.307	-1	1.093	-2	3.555	-2	1191	42	0.5
41873.3	10000	41.8091	93.4120	-748	QQW	1.1	-2	3.4	-2	1.0	-1	0.318	-1	1.147	-2	3.604	-2	1204	49	0.5
41873.2	10000	41.8091	93.4112	-748	QQW	1.2	-1	3.4	-2	1.0	-1	0.352	-1	1.264	-1	3.588	-2	1211	40	0.5
41873.1	10000	41.8091	93.4104	-749	QQW	1.4	-1	3.6	-2	1.0	-1	0.399	-1	1.480	-1	3.713	-2	1238	47	0.5
41873.0	10000	41.8091	93.4096	-750	QQW	1.8	-1	3.8	-2	1.0	-1	0.511	0	1.881	-1	3.679	-2	1252	34	0.5
41872.9	10000	41.8091	93.4088	-752	QQW	2.2	-1	3.7	-2	1.0	-1	0.682	1	2.384	-1	3.494	-2	1268	56	0.5
41872.8	10000	41.8091	93.4080	-753	QQW	2.2	-1	3.8	-2	1.0	-1	0.661	1	2.379	-1	3.599	-2	1262	39	0.5
41872.7	10000	41.8091	93.4072	-753	QQW	2.6	-1	3.8	-2	1.0	-1	0.684	1	2.924	-1	4.277	-1	1255	65	0.5
41872.6	10000	41.8091	93.4064	-753	QQW	2.5	-1	3.8	-2	1.0	-1	0.707	1	2.844	-1	4.025	-2	1231	47	0.5
41872.5	10000	41.8092	93.4056	-753	QQW	2.4	-1	3.6	-2	1.0	-1	0.677	1	2.828	-1	4.179	-2	1207	43	0.4
41872.4	10000	41.8092	93.4048	-754	QQW	2.3	-1	3.6	-2	1.0	-1	0.744	1	2.709	-1	3.639	-2	1170	49	0.4
41872.3	10000	41.8092	93.4040	-757	QQW	2.2	-1	3.3	-2	1.0	-1	0.674	1	2.492	-1	3.695	-2	1161	45	0.4
41872.2	10000	41.8092	93.4032	-758	QQW	2.1	-1	3.6	-2	1.0	-1	0.541	1	2.138	-1	3.954	-2	1146	48	0.4
41872.1	10000	41.8092	93.4024	-760	QQW	1.8	-1	3.7	-2	1.0	-1	0.474	1	1.994	-1	4.206	-2	1123	32	0.4
41872.0	10000	41.8092	93.4016	-761	QQW	1.4	-1	3.5	-2	1.0	-1	0.434	1	1.525	-1	3.514	-2	1116	40	0.4
41871.9	10000	41.8092	93.4008	-762	QQW	1.6	-1	3.5	-2	1.0	-1	0.478	1	1.609	-1	3.364	-2	1118	48	0.4
41871.8	10000	41.8092	93.4000	-763	QQW	1.5	-1	3.4	-2	1.0	-1	0.442	1	1.541	-1	3.484	-2	1112	47	0.4
41871.7	10000	41.8092	93.3992	-763	QQW	1.6	-1	3.4	-2	1.0	-1	0.455	1	1.529	-1	3.360	-2	1113	38	0.4
41871.6	10000	41.8092	93.3984	-765	QQW	1.5	-1	3.4	-2	1.0	-1	0.468	1	1.494	-1	3.189	-2	1092	49	0.4
41871.5	10000	41.8092	93.3976	-765	QQW	1.6	-1	3.4	-2	1.0	-1	0.510	1	1.601	-1	3.138	-2	1088	41	0.4
41871.4	10000	41.8092	93.3969	-765	QQW	1.9	-1	3.4	-2	1.0	-1	0.675	1	1.999	-1	3.962	-2	1089	58	0.4
41871.3	10000	41.8093	93.3961	-766	QQW	2.0	-1	3.4	-2	1.0	-1	0.714	1	2.249	-1	4.150	-2	1098	49	0.3
41871.2	10000	41.8093	93.3953	-767	QQW	1.9	-1	3.4	-2	1.0	-1	0.647	1	2.097	-1	4.243	-2	1096	43	0.3
41871.1	10000	41.8093	93.3945	-768	QQW	1.8	-1	3.4	-2	1.0	-1	0.679	1	2.094	-1	4.083	-2	1103	58	0.3
41871.0	10000	41.8093	93.3937	-769	QQW	1.6	-1	3.1	-3	0.9	-2	0.517	2	1.793	0	3.472	-3	1110	50	0.3

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41870.9	10000	41.8093	93.3929	-771	QEW	1.5	-1	3.1	-3	0.9	-2	0.485	1	1.680	0	3.462	-3	1122	44	0.3
41870.8	10000	41.8093	93.3921	-772	QEW	1.5	-1	3.1	-3	0.9	-2	0.480	1	1.684	0	3.511	-3	1136	36	0.3
41870.7	10000	41.8093	93.3913	-773	QEW	1.6	-1	3.4	-3	0.9	-1	0.472	1	1.799	0	3.810	-2	1150	46	0.3
41870.6	10000	41.8093	93.3905	-773	QEW	1.5	-1	3.4	-3	0.9	-1	0.435	1	1.645	-1	3.780	-2	1157	47	0.3
41870.5	10000	41.8093	93.3897	-774	QEW	1.5	-1	3.7	-3	0.9	-1	0.406	0	1.617	-1	3.978	-2	1164	47	0.3
41870.4	10000	41.8093	93.3889	-775	QEW	1.5	-1	3.9	-2	0.9	-1	0.386	0	1.607	-1	4.164	-2	1175	29	0.3
41870.3	10000	41.8093	93.3881	-776	QEW	1.7	-1	4.1	-2	0.9	-1	0.418	1	1.832	0	4.385	-1	1196	40	0.3
41870.2	10000	41.8093	93.3873	-776	QEW	1.9	0	4.2	-2	0.9	-1	0.437	1	2.054	0	4.698	-1	1211	38	0.3
41870.1	10000	41.8093	93.3865	-777	QEW	1.8	0	4.5	-1	0.9	-1	0.408	0	1.992	0	4.889	0	1228	50	0.3
41870.0	10000	41.8094	93.3857	-778	QEW	1.6	-1	4.6	-1	1.0	-1	0.351	0	1.667	-1	4.753	-1	1245	53	0.3
41869.9	10000	41.8094	93.3849	-780	QEW	1.6	-1	4.8	-1	1.0	-1	0.343	0	1.721	0	5.021	0	1254	46	0.3
41869.8	10000	41.8094	93.3841	-781	QEW	2.0	0	4.7	-1	0.9	-1	0.419	1	2.189	1	5.228	0	1266	52	0.3
41869.7	10000	41.8094	93.3833	-782	QEW	2.1	0	4.5	-1	0.9	-1	0.469	1	2.324	1	4.958	0	1281	41	0.3
41869.6	10000	41.8094	93.3825	-783	QEW	2.0	0	4.2	-2	0.9	-2	0.469	1	2.206	1	4.706	-1	1288	42	0.3
41869.5	10000	41.8094	93.3817	-784	QEW	1.9	0	4.5	-1	0.9	-1	0.432	1	2.090	0	4.842	-1	1303	48	0.3
41869.4	10000	41.8094	93.3809	-784	QEW	1.8	-1	4.8	-1	0.9	-1	0.364	0	1.890	0	5.184	0	1294	38	0.3
41869.3	10000	41.8093	93.3801	-785	QEW	1.7	-1	4.9	-1	1.0	-1	0.353	0	1.772	0	5.019	0	1309	46	0.3
41869.2	10000	41.8093	93.3793	-786	QEW	1.8	-1	4.9	-1	1.0	0	0.358	0	1.752	0	4.896	0	1314	42	0.3
41869.1	10000	41.8093	93.3785	-786	QEW	1.7	-1	5.1	-1	1.1	0	0.330	0	1.576	-1	4.772	-1	1327	43	0.3
41869.0	10000	41.8093	93.3777	-787	QEW	1.6	-1	5.4	0	1.1	0	0.300	-1	1.532	-1	5.114	0	1336	35	0.3
41868.9	10000	41.8093	93.3769	-788	QEW	1.7	-1	5.6	0	1.1	0	0.306	-1	1.613	-1	5.265	0	1338	49	0.3
41868.8	10000	41.8093	93.3761	-789	QEW	1.6	-1	5.3	0	1.1	0	0.305	-1	1.532	-1	5.015	0	1330	49	0.3
41868.7	10000	41.8093	93.3753	-789	QEW	1.6	-1	5.2	0	1.1	0	0.312	-1	1.539	-1	4.927	0	1349	48	0.3
41868.6	10000	41.8093	93.3745	-790	QEW	1.8	-1	4.9	-1	1.0	0	0.355	0	1.736	0	4.892	0	1352	40	0.3
41868.5	10000	41.8093	93.3737	-791	QEW	1.7	-1	5.3	0	1.0	0	0.320	-1	1.659	-1	5.181	0	1361	47	0.3
41868.4	10000	41.8093	93.3729	-792	QEW	1.6	-1	5.3	0	1.0	-1	0.307	-1	1.678	0	5.476	0	1369	47	0.3
41868.3	10000	41.8093	93.3721	-794	QEW	1.6	-1	5.3	0	1.0	-1	0.309	-1	1.645	-1	5.320	0	1376	35	0.3
41868.2	10000	41.8093	93.3713	-795	QEW	1.6	-1	5.2	0	1.0	-1	0.317	-1	1.634	-1	5.160	0	1377	53	0.3
41868.1	10000	41.8093	93.3705	-796	QEW	1.8	0	5.5	0	1.0	0	0.327	-1	1.757	0	5.376	0	1391	45	0.3
41868.0	10000	41.8093	93.3697	-797	QEW	2.0	0	5.3	0	1.0	0	0.372	0	1.921	0	5.159	0	1379	46	0.3
41867.9	10000	41.8092	93.3689	-798	QEW	2.0	0	5.4	0	1.0	-1	0.360	0	1.949	0	5.417	0	1364	52	0.3
41867.8	10000	41.8092	93.3681	-799	QEW	2.1	0	5.3	0	1.0	0	0.392	0	2.068	0	5.273	0	1367	47	0.3
41867.7	10000	41.8092	93.3673	-798	QEW	1.9	0	5.4	0	1.0	0	0.360	0	1.885	0	5.240	0	1358	49	0.3
41867.6	10000	41.8092	93.3665	-798	QEW	1.8	0	5.6	0	1.0	0	0.321	-1	1.776	0	5.532	0	1349	41	0.3
41867.5	10000	41.8092	93.3657	-799	QEW	1.8	0	5.5	0	1.1	0	0.333	0	1.749	0	5.258	0	1353	44	0.3
41867.4	10000	41.8092	93.3649	-801	QEW	1.6	-1	5.7	0	1.1	0	0.285	-1	1.487	-1	5.220	0	1352	34	0.3
41867.3	10000	41.8092	93.3641	-803	QEW	1.5	-1	5.8	0	1.1	0	0.260	-1	1.378	-1	5.306	0	1363	48	0.3
41867.2	10000	41.8092	93.3633	-804	QEW	1.6	-1	6.1	0	1.1	0	0.260	-1	1.428	-1	5.496	0	1375	35	0.3
41867.1	10000	41.8092	93.3625	-805	QEW	1.6	-1	5.8	0	1.1	0	0.267	-1	1.430	-1	5.348	0	1371	44	0.3
41867.0	10000	41.8092	93.3617	-805	QEW	1.7	-1	5.9	0	1.1	0	0.291	-1	1.594	-1	5.481	0	1379	38	0.3
41866.9	10000	41.8092	93.3609	-806	QEW	1.7	-1	5.5	0	1.1	0	0.312	-1	1.550	-1	4.974	0	1383	46	0.3
41866.8	10000	41.8092	93.3601	-807	QEW	1.6	-1	5.7	0	1.1	0	0.286	-1	1.553	-1	5.420	0	1372	37	0.3
41866.7	10000	41.8092	93.3593	-808	QEW	1.8	0	5.4	0	1.0	0	0.342	0	1.797	0	5.255	0	1364	38	0.3
41866.6	10000	41.8091	93.3585	-808	QEW	2.0	0	5.2	0	1.0	0	0.376	0	1.915	0	5.085	0	1368	45	0.3
41866.5	10000	41.8091	93.3577	-808	QEW	1.9	0	5.1	0	1.1	0	0.373	0	1.822	0	4.881	0	1384	40	0.3
41866.4	10000	41.8091	93.3569	-808	QEW	1.8	-1	5.1	-1	1.1	0	0.347	0	1.640	-1	4.732	-1	1386	43	0.3
41866.3	10000	41.8091	93.3561	-809	QEW	1.6	-1	5.2	-1	1.1	0	0.316	-1	1.421	-1	4.497	-1	1383	47	0.3
41866.2	10000	41.8091	93.3553	-809	QEW	1.6	-1	5.2	-1	1.1	0	0.302	-1	1.446	-1	4.789	-1	1374	45	0.4
41866.1	10000	41.8091	93.3545	-810	QEW	1.7	-1	5.1	-1	1.1	0	0.330	0	1.590	-1	4.821	-1	1386	55	0.4
41866.0	10000	41.8091	93.3537	-812	QEW	1.7	-1	5.1	-1	1.1	0	0.336	0	1.562	-1	4.648	-1	1397	46	0.4
41865.9	10000	41.8091	93.3529	-812	QEW	1.6	-1	4.9	-1	1.1	0	0.334	0	1.527	-1	4.575	-1	1398	37	0.4
41865.8	10000	41.8091	93.3521	-813	QEW	1.7	-1	4.7	-1	1.0	0	0.365	0	1.676	0	4.586	-1	1375	51	0.4

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41865.7	10000	41.8091	93.3513	-814	QW	1.9	0	5.0	-1	1.0	-1	0.385	0	1.971	0	5.116	0	1372	51	0.4
41865.6	10000	41.8091	93.3505	-815	QW	2.0	0	4.9	-1	0.9	-1	0.406	0	2.181	1	5.371	0	1369	40	0.4
41865.5	10000	41.8091	93.3497	-815	QW	2.1	0	5.0	-1	0.9	-1	0.422	1	2.266	1	5.370	0	1381	55	0.4
41865.4	10000	41.8091	93.3489	-816	QW	2.2	0	5.1	0	1.0	-1	0.421	1	2.257	1	5.361	0	1389	38	0.4
41865.3	10000	41.8091	93.3481	-816	QW	2.2	1	5.3	0	0.9	-1	0.423	1	2.422	1	5.730	1	1385	44	0.4
41865.2	10000	41.8090	93.3473	-817	QW	2.5	1	5.4	0	0.9	-2	0.464	1	2.813	2	6.065	1	1377	39	0.4
41865.1	10000	41.8090	93.3465	-817	QW	2.4	1	5.6	0	0.9	-1	0.437	1	2.576	1	5.893	1	1390	39	0.4
41865.0	10000	41.8090	93.3457	-818	QW	2.4	1	5.4	0	1.0	-1	0.440	1	2.495	1	5.671	1	1395	46	0.4
41864.9	10000	41.8090	93.3449	-819	QW	2.7	2	5.5	0	1.0	-1	0.486	1	2.681	2	5.519	1	1413	52	0.4
41864.8	10000	41.8090	93.3441	-820	QW	2.7	2	5.3	0	1.0	-1	0.508	1	2.672	2	5.263	0	1416	41	0.4
41864.7	10000	41.8090	93.3433	-820	QW	2.6	2	5.3	0	1.0	-1	0.494	1	2.622	1	5.309	0	1424	47	0.4
41864.6	10000	41.8090	93.3425	-821	QW	2.4	1	5.3	0	1.0	-1	0.453	1	2.399	1	5.301	0	1427	39	0.4
41864.5	10000	41.8090	93.3417	-821	QW	2.2	0	5.3	0	1.0	0	0.412	0	2.107	0	5.112	0	1446	48	0.4
41864.4	10000	41.8090	93.3409	-822	QW	2.1	0	5.1	0	1.0	0	0.406	0	2.075	0	5.112	0	1447	52	0.4
41864.3	10000	41.8090	93.3401	-823	QW	2.1	0	5.2	0	1.0	0	0.410	0	2.049	0	4.995	0	1458	36	0.4
41864.2	10000	41.8090	93.3393	-824	QW	2.1	0	5.4	0	1.0	0	0.400	0	2.078	0	5.201	0	1455	46	0.5
41864.1	10000	41.8090	93.3385	-824	QW	2.1	0	5.7	0	1.0	-1	0.362	0	2.086	0	5.754	1	1458	49	0.5
41864.0	10000	41.8090	93.3377	-825	QW	2.0	0	5.5	0	1.0	0	0.362	0	1.986	0	5.490	0	1465	40	0.5
41863.9	10000	41.8089	93.3369	-825	QW	2.2	0	5.5	0	1.0	0	0.402	0	2.157	1	5.367	0	1473	42	0.5
41863.8	10000	41.8089	93.3361	-826	QW	2.2	0	5.8	1	1.0	0	0.377	0	2.082	0	5.528	1	1473	57	0.5
41863.7	10000	41.8089	93.3353	-826	QW	2.2	0	5.8	1	1.1	0	0.368	0	2.032	0	5.517	1	1486	45	0.5
41863.6	10000	41.8089	93.3345	-827	QW	2.2	0	5.6	1	1.1	0	0.384	0	1.966	0	5.120	0	1492	29	0.5
41863.5	10000	41.8089	93.3337	-828	QW	2.1	0	5.4	1	1.1	0	0.388	0	1.919	0	4.942	0	1495	43	0.5
41863.4	10000	41.8089	93.3329	-828	QW	2.4	1	5.3	1	1.0	0	0.444	1	2.250	1	5.068	0	1501	43	0.5
41863.3	10000	41.8089	93.3321	-829	QW	2.8	2	5.3	1	1.0	0	0.532	2	2.705	2	5.084	0	1495	59	0.5
41863.2	10000	41.8089	93.3313	-829	QW	2.9	2	5.3	1	1.0	0	0.543	2	2.837	2	5.225	0	1517	40	0.5
41863.1	10000	41.8089	93.3305	-831	QW	2.2	1	5.1	0	1.1	0	0.620	3	2.982	2	4.810	-1	1528	42	0.5
41863.0	10000	41.8089	93.3297	-831	QW	2.4	1	5.4	1	1.1	0	0.597	2	3.005	2	5.035	0	1549	34	0.5
41862.9	10000	41.8089	93.3289	-832	QW	2.4	1	6.0	1	1.1	0	0.567	2	3.216	3	5.667	1	1566	52	0.5
41862.8	10000	41.8089	93.3281	-832	QW	2.2	1	5.8	1	1.1	0	0.584	2	3.191	3	5.462	1	1579	57	0.5
41862.7	10000	41.8089	93.3273	-832	QW	2.1	1	5.6	1	1.1	0	0.561	2	2.901	2	5.173	0	1587	45	0.5
41862.6	10000	41.8088	93.3265	-833	QW	2.1	1	5.5	1	1.1	0	0.502	2	2.669	2	5.323	1	1592	42	0.5
41862.5	10000	41.8088	93.3257	-833	QW	2.1	1	5.5	1	1.2	0	0.507	2	2.665	2	5.253	0	1592	44	0.5
41862.4	10000	41.8088	93.3249	-834	QW	2.9	2	6.1	1	1.1	0	0.462	2	2.650	2	5.730	1	1596	41	0.5
41862.3	10000	41.8088	93.3241	-834	QW	3.1	2	6.2	1	1.1	0	0.514	2	2.926	2	5.689	1	1604	44	0.6
41862.2	10000	41.8088	93.3233	-835	QW	3.1	2	6.0	1	1.1	0	0.511	2	2.983	2	5.842	1	1600	54	0.6
41862.1	10000	41.8088	93.3224	-835	QW	3.1	2	6.2	1	1.1	0	0.469	2	2.827	2	6.032	1	1609	43	0.6
41862.0	10000	41.8088	93.3217	-836	QAL	3.3	2	6.3	1	1.1	0	0.526	2	3.190	2	6.060	1	1627	33	0.6
41861.9	10000	41.8088	93.3208	-836	QAL	3.1	2	6.3	1	1.1	0	0.515	2	2.987	2	5.802	1	1631	40	0.6
41861.8	10000	41.8088	93.3201	-836	QAL	3.0	2	5.8	1	1.1	-1	0.507	2	2.857	1	5.632	-1	1604	35	0.6
41861.7	10000	41.8088	93.3192	-837	QAL	3.2	2	5.7	1	1.1	-1	0.561	2	3.060	1	5.450	-1	1598	50	0.6
41861.6	10000	41.8088	93.3185	-837	QAL	3.2	2	5.3	1	1.1	-1	0.618	2	3.127	1	5.058	-1	1557	42	0.6
41861.5	10000	41.8088	93.3176	-838	QAL	3.4	2	4.9	1	1.1	-2	0.694	3	3.176	2	4.574	-2	1542	44	0.6
41861.4	10000	41.8087	93.3168	-838	QAL	3.4	2	4.9	1	1.1	-2	0.703	3	3.313	2	4.716	-2	1518	42	0.6
41861.3	10000	41.8087	93.3160	-839	QAL	3.4	2	4.8	1	1.1	-2	0.633	3	2.948	2	4.656	-2	1509	38	0.6
41861.2	10000	41.8087	93.3152	-839	QAL	3.4	2	4.8	1	1.1	-2	0.643	3	3.073	2	4.778	-2	1495	56	0.6
41861.1	10000	41.8087	93.3144	-840	QAL	3.4	2	4.8	1	1.1	-2	0.628	3	3.020	2	4.812	-2	1497	38	0.6
41861.0	10000	41.8087	93.3136	-840	QAL	3.4	2	5.0	1	1.1	-1	0.612	3	3.044	2	4.978	-1	1499	44	0.6
41860.9	10000	41.8087	93.3128	-840	QAL	3.2	2	5.5	1	1.1	-1	0.546	2	3.098	3	5.675	-1	1506	42	0.6
41860.8	10000	41.8087	93.3120	-841	QAL	3.0	2	5.5	1	1.1	-1	0.486	2	3.084	3	6.343	0	1506	39	0.6
41860.7	10000	41.8087	93.3112	-841	QAL	2.8	2	5.5	1	1.1	-1	0.492	2	3.068	3	6.236	0	1499	41	0.6
41860.6	10000	41.8087	93.3104	-842	QAL	2.7	1	5.6	1	0.9	-1	0.478	1	2.853	1	5.965	0	1488	36	0.6

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41860.5	10000	41.8087	93.3096	-842	QAL	2.7	0	5.7	-1	0.9	-1	0.470	1	2.936	1	6.251	0	1481	45	0.6
41860.4	10000	41.8087	93.3088	-843	QAL	2.6	0	5.9	-1	0.9	-1	0.440	1	2.902	1	6.593	1	1477	48	0.6
41860.3	10000	41.8087	93.3080	-843	QAL	2.3	0	5.9	-1	0.9	-1	0.400	0	2.591	1	6.481	0	1449	45	0.6
41860.2	10000	41.8087	93.3072	-843	QAL	2.3	0	5.4	-1	1.0	-1	0.420	0	2.328	0	5.537	-1	1428	49	0.6
41860.1	10000	41.8087	93.3064	-843	QAL	2.0	-1	4.6	-2	1.0	0	0.426	1	1.978	-1	4.641	-2	1395	42	0.6
41860.0	10000	41.8086	93.3056	-843	QAL	2.0	-1	4.3	-2	1.0	0	0.467	1	1.975	-1	4.233	-2	1368	29	0.6
41859.9	10000	41.8086	93.3048	-842	QAL	2.4	0	4.1	-2	1.0	-1	0.583	2	2.393	0	4.106	-3	1331	51	0.6
41859.8	10000	41.8086	93.3040	-843	QAL	2.1	-1	3.5	-3	1.0	0	0.604	3	2.010	-1	3.326	-4	1318	46	0.6
41859.7	10000	41.8086	93.3032	-843	QAL	2.3	0	3.8	-3	1.1	0	0.600	3	2.066	0	3.441	-3	1304	53	0.6
41859.6	10000	41.8086	93.3024	-844	QAL	2.3	0	3.5	-3	1.1	0	0.648	3	2.160	0	3.330	-4	1301	52	0.6
41859.5	10000	41.8086	93.3016	-844	QAL	2.3	0	3.3	-3	1.1	0	0.696	4	2.167	0	3.114	-4	1308	43	0.6
41859.4	10000	41.8086	93.3008	-844	QW	2.4	1	3.5	-3	1.1	0	0.686	3	2.291	1	3.340	-3	1334	42	0.6
41859.3	10000	41.8086	93.3000	-845	QW	2.3	1	3.6	-3	1.1	0	0.640	3	2.147	1	3.353	-3	1369	45	0.6
41859.2	10000	41.8086	93.2992	-846	QW	2.2	1	3.9	-2	1.1	0	0.563	2	2.082	0	3.695	-2	1400	48	0.6
41859.1	10000	41.8086	93.2984	-846	QW	2.4	1	4.2	-2	1.0	0	0.575	2	2.358	1	4.101	-2	1424	42	0.6
41859.0	10000	41.8086	93.2976	-847	QW	2.5	1	4.1	-2	1.0	0	0.611	3	2.439	1	3.994	-2	1452	51	0.6
41858.9	10000	41.8086	93.2968	-848	QW	2.4	1	4.1	-2	1.0	0	0.593	2	2.334	1	3.934	-2	1475	50	0.6
41858.8	10000	41.8086	93.2960	-848	QW	2.4	1	4.5	-1	1.1	0	0.527	2	2.221	1	4.214	-2	1496	71	0.6
41858.7	10000	41.8085	93.2952	-848	QW	2.4	1	4.7	-1	1.1	0	0.498	1	2.223	1	4.464	-1	1491	34	0.6
41858.6	10000	41.8085	93.2944	-848	QW	2.5	1	5.0	-1	1.0	0	0.486	1	2.395	1	4.929	0	1504	47	0.6
41858.5	10000	41.8085	93.2936	-849	QW	2.5	1	5.1	-1	1.0	0	0.492	1	2.422	1	4.927	0	1511	49	0.6
41858.4	10000	41.8085	93.2928	-849	QW	2.4	1	5.3	0	1.0	0	0.456	1	2.328	1	5.107	0	1520	37	0.6
41858.3	10000	41.8085	93.2920	-850	QW	2.5	1	5.5	0	1.1	0	0.455	1	2.344	1	5.151	0	1524	42	0.6
41858.2	10000	41.8085	93.2912	-850	QW	2.7	2	5.8	1	1.1	0	0.460	1	2.500	1	5.436	0	1542	55	0.6
41858.1	10000	41.8085	93.2904	-850	QW	2.6	1	5.7	0	1.0	0	0.449	1	2.455	1	5.474	0	1546	42	0.6
41858.0	10000	41.8085	93.2896	-850	QW	2.5	1	5.5	0	1.1	0	0.463	1	2.351	1	5.075	0	1568	39	0.6
41857.9	10000	41.8085	93.2888	-851	QW	2.4	1	5.5	0	1.1	0	0.434	1	2.169	1	4.998	0	1572	45	0.6
41857.8	10000	41.8085	93.2880	-852	QW	2.4	1	5.8	0	1.1	0	0.415	1	2.126	1	5.118	0	1589	47	0.6
41857.7	10000	41.8085	93.2872	-852	QW	2.3	1	5.5	0	1.1	0	0.401	1	2.112	1	5.271	0	1592	38	0.6
41857.6	10000	41.8085	93.2864	-852	QW	2.4	1	5.7	0	1.1	0	0.414	1	2.121	1	5.126	0	1611	51	0.6
41857.5	10000	41.8085	93.2856	-853	QW	2.2	1	5.4	0	1.1	0	0.397	1	1.950	1	4.914	0	1601	36	0.6
41857.4	10000	41.8084	93.2848	-853	QW	2.3	1	5.9	0	1.1	0	0.395	1	2.130	1	5.388	0	1613	60	0.6
41857.3	10000	41.8084	93.2840	-853	QW	2.5	1	6.2	0	1.1	0	0.398	1	2.291	1	5.758	0	1610	53	0.6
41857.2	10000	41.8084	93.2832	-854	QW	2.5	1	6.0	0	1.1	0	0.415	1	2.284	1	5.502	0	1606	32	0.6
41857.1	10000	41.8084	93.2824	-854	QW	2.5	1	5.7	0	1.1	0	0.433	1	2.290	1	5.289	0	1593	55	0.6
41857.0	10000	41.8084	93.2816	-854	QW	2.5	1	5.6	0	1.1	0	0.444	1	2.193	1	4.937	0	1589	48	0.6
41856.9	10000	41.8084	93.2808	-854	QW	2.5	1	5.7	0	1.1	0	0.431	1	2.189	1	5.080	0	1579	39	0.6
41856.8	10000	41.8084	93.2800	-854	QW	2.6	1	5.9	0	1.2	0	0.441	1	2.251	1	5.100	0	1573	59	0.6
41856.7	10000	41.8084	93.2792	-854	QW	2.6	1	5.8	0	1.2	0	0.451	1	2.185	1	4.849	-1	1574	52	0.6
41856.6	10000	41.8084	93.2784	-855	QW	2.6	1	5.9	0	1.2	0	0.444	1	2.149	1	4.843	-1	1578	38	0.6
41856.5	10000	41.8084	93.2776	-854	QW	2.6	1	5.8	0	1.2	0	0.447	1	2.239	1	5.008	0	1577	40	0.6
41856.4	10000	41.8084	93.2768	-854	QW	2.7	1	5.8	0	1.2	0	0.460	1	2.193	1	4.772	-1	1580	36	0.6
41856.3	10000	41.8083	93.2760	-854	QW	2.9	1	6.0	0	1.2	0	0.483	1	2.391	1	4.946	0	1578	46	0.6
41856.2	10000	41.8083	93.2752	-853	QW	2.7	1	6.3	0	1.2	0	0.426	1	2.213	1	5.191	0	1583	43	0.6
41856.1	10000	41.8083	93.2744	-853	QW	2.5	1	6.4	0	1.2	0	0.393	1	2.069	1	5.262	0	1604	44	0.6
41856.0	10000	41.8083	93.2736	-853	QW	2.4	1	6.3	0	1.2	0	0.383	1	1.970	1	5.145	0	1615	46	0.6
41855.9	10000	41.8083	93.2728	-853	QW	2.2	1	6.4	0	1.2	0	0.351	1	1.948	1	5.107	0	1622	44	0.6
41855.8	10000	41.8083	93.2720	-853	QW	2.1	1	6.5	0	1.2	0	0.324	1	1.794	1	5.118	0	1623	40	0.6
41855.7	10000	41.8083	93.2712	-853	QW	2.1	1	6.5	0	1.2	0	0.331	1	1.750	1	5.402	0	1620	43	0.6
41855.6	10000	41.8083	93.2704	-853	QW	2.3	1	6.4	0	1.2	0	0.353	1	1.790	1	5.406	0	1625	48	0.5
41855.5	10000	41.8083	93.2696	-853	QW	2.3	1	6.5	0	1.2	0	0.359	1	1.890	1	5.353	0	1619	41	0.5
41855.4	10000	41.8083	93.2688	-853	QW	2.3	1	6.5	0	1.2	0	0.356	1	1.936	1	5.396	0	1627	40	0.5

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41855.3	10000	41.8083	93.2680	-853	QW	2.2	1	6.8	2	1.2	2	0.329	0	1.834	0	5.572	1	1623	50	0.5
41855.2	10000	41.8083	93.2672	-853	QW	2.2	1	6.8	2	1.2	1	0.328	0	1.866	0	5.694	1	1631	48	0.5
41855.1	10000	41.8083	93.2664	-853	QW	2.3	1	6.6	2	1.2	1	0.355	0	2.006	0	5.649	1	1640	39	0.5
41855.0	10000	41.8083	93.2656	-853	QW	2.4	1	6.5	2	1.2	1	0.373	0	2.016	0	5.400	0	1648	34	0.5
41854.9	10000	41.8083	93.2648	-853	QW	2.4	1	6.4	1	1.2	1	0.370	0	1.983	0	5.364	0	1647	44	0.5
41854.8	10000	41.8083	93.2640	-853	QW	2.4	1	6.2	1	1.2	2	0.392	0	1.940	0	4.949	0	1662	43	0.5
41854.7	10000	41.8083	93.2632	-853	QL	2.5	0	6.0	-2	1.2	0	0.421	1	2.093	0	4.965	-2	1645	44	0.5
41854.6	10000	41.8083	93.2624	-852	QL	2.6	0	6.2	-2	1.2	0	0.429	1	2.251	0	5.249	-2	1635	43	0.5
41854.5	10000	41.8083	93.2616	-852	QL	2.6	0	6.5	-1	1.2	0	0.408	1	2.240	0	5.496	-1	1630	38	0.5
41854.4	10000	41.8083	93.2608	-852	QL	2.6	0	6.5	-1	1.1	-1	0.391	0	2.323	0	5.939	0	1623	48	0.5
41854.3	10000	41.8083	93.2601	-851	QL	2.5	0	6.9	-1	1.0	-1	0.362	0	2.391	0	6.610	1	1620	40	0.5
41854.2	10000	41.8083	93.2593	-851	QL	2.4	0	7.1	0	1.1	-1	0.332	0	2.230	0	6.709	1	1631	38	0.5
41854.1	10000	41.8084	93.2585	-851	QAL	2.3	0	7.4	1	1.0	0	0.313	-1	2.300	0	7.359	2	1624	36	0.5
41854.0	10000	41.8084	93.2577	-851	QAL	2.4	0	7.8	1	1.0	0	0.311	-1	2.382	0	7.670	2	1624	39	0.5
41853.9	10000	41.8084	93.2569	-850	QAL	2.5	0	7.6	1	1.0	0	0.325	-1	2.454	0	7.543	2	1629	41	0.5
41853.8	10000	41.8084	93.2561	-849	QAL	2.4	0	7.3	1	1.1	0	0.332	-1	2.258	0	6.805	1	1625	43	0.5
41853.7	10000	41.8084	93.2553	-849	QAL	2.5	0	7.2	1	1.1	0	0.352	0	2.277	0	6.462	0	1627	58	0.5
41853.6	10000	41.8084	93.2545	-849	QAL	2.8	1	6.8	0	1.2	1	0.403	0	2.363	0	5.859	0	1637	45	0.5
41853.5	10000	41.8084	93.2537	-848	QAL	2.8	1	6.8	0	1.1	0	0.410	0	2.496	0	6.085	0	1644	37	0.5
41853.4	10000	41.8084	93.2529	-848	QAL	3.0	1	6.9	0	1.1	0	0.433	1	2.699	1	6.239	0	1654	38	0.4
41853.3	10000	41.8084	93.2522	-848	QAL	2.8	1	6.7	0	1.1	0	0.423	0	2.466	0	5.823	0	1671	37	0.4
41853.2	10000	41.8084	93.2514	-848	QAL	2.8	1	6.7	0	1.2	1	0.415	0	2.344	0	5.645	-1	1678	48	0.4
41853.1	10000	41.8084	93.2506	-847	QAL	2.9	1	6.7	0	1.1	1	0.432	1	2.590	1	5.997	0	1691	39	0.4
41853.0	10000	41.8085	93.2498	-847	QAL	2.8	1	7.0	0	1.2	1	0.396	0	2.367	0	5.972	0	1700	45	0.4
41852.9	10000	41.8085	93.2490	-847	QL	2.8	1	7.0	0	1.2	1	0.392	0	2.266	0	5.783	-1	1717	52	0.4
41852.8	10000	41.8085	93.2482	-847	QL	2.7	1	7.3	0	1.2	0	0.370	0	2.201	0	5.950	0	1722	45	0.4
41852.7	10000	41.8085	93.2474	-846	QL	2.6	0	7.4	0	1.2	0	0.349	0	2.133	0	6.109	0	1717	45	0.4
41852.6	10000	41.8085	93.2466	-845	QL	2.8	0	7.2	0	1.1	0	0.390	0	2.458	1	6.303	0	1707	45	0.4
41852.5	10000	41.8085	93.2458	-845	QL	2.8	0	6.7	-1	1.1	-1	0.419	1	2.510	1	5.994	0	1692	46	0.4
41852.4	10000	41.8085	93.2450	-844	QL	2.8	0	6.5	-1	1.2	-1	0.425	1	2.387	1	5.610	-1	1660	47	0.4
41852.3	10000	41.8085	93.2442	-843	QL	2.8	0	6.2	-2	1.2	-1	0.447	1	2.371	1	5.311	-1	1649	48	0.4
41852.2	10000	41.8085	93.2435	-842	QL	2.7	0	6.1	-2	1.1	-1	0.441	1	2.384	1	5.410	-1	1621	52	0.4
41852.1	10000	41.8085	93.2427	-842	QL	2.7	0	5.6	-3	1.1	-2	0.480	1	2.331	1	4.855	-2	1586	48	0.4
41852.0	10000	41.8086	93.2419	-841	QL	2.5	0	5.4	-3	1.2	-2	0.463	1	2.098	1	4.532	-3	1564	39	0.4
41851.9	10000	41.8086	93.2411	-841	QL	2.1	-1	5.4	-3	1.2	-3	0.392	0	1.794	-1	4.571	-3	1544	34	0.4
41851.8	10000	41.8086	93.2403	-840	QL	2.1	-1	6.1	-2	1.2	-2	0.342	-1	1.752	-1	5.122	-2	1549	59	0.4
41851.7	10000	41.8086	93.2395	-840	QL	2.2	-1	6.2	-2	1.2	-2	0.354	-1	1.912	-1	5.398	-1	1563	50	0.4
41851.6	10000	41.8086	93.2387	-839	QL	2.2	-1	6.4	-1	1.2	-2	0.351	-1	1.892	-1	5.392	-1	1572	44	0.4
41851.5	10000	41.8086	93.2379	-838	QL	2.1	-1	7.0	0	1.1	-1	0.300	-1	1.836	-1	6.113	0	1582	43	0.4
41851.4	10000	41.8086	93.2371	-838	QL	2.1	-1	7.2	0	1.1	-1	0.298	-1	1.894	-1	6.365	0	1612	40	0.4
41851.3	10000	41.8086	93.2363	-837	QL	2.5	0	7.0	1	1.1	0	0.353	-1	2.181	0	6.176	0	1647	36	0.4
41851.2	10000	41.8086	93.2355	-837	QL	2.7	0	7.6	1	1.2	0	0.353	-1	2.175	0	6.167	0	1683	42	0.4
41851.1	10000	41.8086	93.2348	-836	QL	2.9	1	7.6	1	1.2	0	0.378	0	2.369	1	6.267	0	1703	49	0.4
41851.0	10000	41.8086	93.2340	-836	QL	2.9	1	7.8	1	1.2	0	0.373	0	2.430	1	6.513	0	1739	43	0.4
41850.9	10000	41.8087	93.2332	-836	QL	2.9	1	7.6	1	1.2	0	0.379	0	2.443	1	6.451	0	1738	37	0.4
41850.8	10000	41.8087	93.2324	-835	QL	2.8	1	7.8	1	1.2	0	0.356	0	2.355	1	6.621	0	1744	39	0.4
41850.7	10000	41.8087	93.2316	-834	QL	2.8	1	7.9	1	1.2	0	0.358	0	2.314	1	6.471	0	1749	36	0.3
41850.6	10000	41.8087	93.2308	-834	QL	2.8	1	8.0	1	1.2	0	0.356	0	2.397	1	6.735	0	1739	59	0.3
41850.5	10000	41.8087	93.2300	-834	QL	3.0	1	7.6	1	1.1	0	0.396	0	2.699	1	6.819	0	1746	33	0.3
41850.4	10000	41.8087	93.2292	-833	QL	2.9	1	7.1	1	1.1	-1	0.415	1	2.701	1	6.509	1	1753	37	0.3
41850.3	10000	41.8087	93.2284	-832	QL	3.0	1	7.0	1	1.1	-1	0.428	1	2.697	1	6.308	1	1747	38	0.3
41850.2	10000	41.8087	93.2276	-832	QL	3.4	2	7.0	0	1.1	-1	0.490	2	3.202	2	6.531	1	1754	43	0.3

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41850.1	10000	41.8087	93.2268	-830	QL	3.6	2	6.7	-1	1.2	0	0.538	3	3.147	2	5.844	-1	1779	57	0.3
41850.0	10000	41.8087	93.2261	-829	QL	3.7	2	6.6	-1	1.2	0	0.557	3	3.053	2	5.482	-1	1802	39	0.3
41849.9	10000	41.8087	93.2253	-828	QL	3.4	2	6.6	-1	1.3	1	0.508	2	2.657	1	5.230	-2	1811	42	0.3
41849.8	10000	41.8087	93.2245	-828	QL	3.4	2	6.5	-1	1.3	1	0.528	2	2.659	1	5.034	-2	1802	64	0.3
41849.7	10000	41.8088	93.2237	-829	QL	3.4	2	6.7	-1	1.3	1	0.497	2	2.554	1	5.141	-2	1806	46	0.3
41849.6	10000	41.8088	93.2229	-829	QL	3.0	1	6.9	-1	1.3	2	0.439	1	2.283	0	5.197	-2	1796	45	0.3
41849.5	10000	41.8088	93.2221	-829	QL	2.7	0	6.9	-1	1.4	2	0.395	1	1.960	-1	4.957	-2	1803	41	0.3
41849.4	10000	41.8088	93.2213	-828	QL	2.7	0	6.6	-1	1.3	1	0.418	1	2.108	0	5.045	-2	1769	54	0.3
41849.3	10000	41.8088	93.2205	-827	QL	2.9	1	6.9	-1	1.3	1	0.428	1	2.332	0	5.442	-1	1767	49	0.3
41849.2	10000	41.8088	93.2197	-827	QL	2.9	1	6.8	-1	1.2	1	0.433	1	2.364	0	5.457	-1	1755	51	0.3
41849.1	10000	41.8088	93.2189	-828	QL	2.8	0	6.9	-1	1.2	0	0.402	1	2.280	0	5.669	-1	1750	65	0.3
41849.0	10000	41.8088	93.2181	-829	QL	2.7	0	6.8	-1	1.3	0	0.389	0	2.109	0	5.419	-1	1749	53	0.3
41848.9	10000	41.8088	93.2173	-829	QL	3.0	1	7.0	0	1.3	1	0.425	1	2.388	0	5.620	-1	1742	45	0.3
41848.8	10000	41.8088	93.2166	-829	QL	3.0	1	7.4	0	1.2	0	0.409	1	2.536	1	6.203	0	1740	46	0.3
41848.7	10000	41.8089	93.2158	-829	QL	3.1	1	7.6	1	1.2	1	0.403	1	2.479	1	6.157	0	1766	57	0.3
41848.6	10000	41.8089	93.2150	-828	QL	2.6	0	7.7	1	1.3	1	0.335	0	2.062	0	6.161	0	1747	46	0.3
41848.5	10000	41.8089	93.2142	-828	QL	2.8	1	7.8	1	1.3	1	0.363	0	2.248	0	6.194	0	1759	47	0.3
41848.4	10000	41.8089	93.2134	-828	QL	2.6	0	7.9	1	1.3	1	0.332	0	2.012	0	6.061	0	1762	48	0.3
41848.3	10000	41.8089	93.2126	-829	QL	2.7	0	8.0	1	1.3	1	0.338	0	2.142	0	6.333	0	1737	49	0.3
41848.2	10000	41.8089	93.2118	-829	QL	2.4	-1	7.6	1	1.3	1	0.311	-1	1.809	-1	5.821	-1	1745	44	0.3
41848.1	10000	41.8089	93.2110	-828	QL	2.2	-1	7.4	0	1.3	1	0.297	-1	1.659	-1	5.585	-1	1747	36	0.3
41848.0	10000	41.8089	93.2102	-828	QL	2.2	-1	7.5	0	1.3	1	0.291	-1	1.677	-1	5.756	-1	1740	53	0.3
41847.9	10000	41.8089	93.2094	-828	QL	2.4	-1	6.9	-1	1.3	2	0.348	0	1.796	-1	5.168	-2	1744	44	0.3
41847.8	10000	41.8089	93.2086	-829	QL	2.2	-1	7.3	0	1.4	2	0.301	-1	1.608	-1	5.345	-1	1753	56	0.3
41847.7	10000	41.8089	93.2079	-830	QL	2.2	-1	7.2	0	1.3	2	0.312	-1	1.685	-1	5.404	-1	1755	28	0.3
41847.6	10000	41.8090	93.2071	-830	QL	2.2	-1	7.3	0	1.3	2	0.305	-1	1.659	-1	5.434	-1	1771	47	0.3
41847.5	10000	41.8090	93.2063	-831	QL	2.4	0	7.3	0	1.3	2	0.329	0	1.786	-1	5.426	-1	1772	38	0.3
41847.4	10000	41.8090	93.2055	-831	QL	2.5	0	7.2	0	1.3	2	0.345	0	1.885	-1	5.460	-1	1770	55	0.3
41847.3	10000	41.8090	93.2047	-831	QL	2.5	0	7.0	0	1.4	2	0.359	0	1.857	-1	5.179	-2	1791	48	0.3
41847.2	10000	41.8090	93.2039	-831	QL	2.5	0	7.1	0	1.3	2	0.356	0	1.936	-1	5.435	-1	1802	55	0.3
41847.1	10000	41.8090	93.2031	-832	QL	2.6	0	6.6	-1	1.3	1	0.394	1	2.059	0	5.224	-2	1801	44	0.3
41847.0	10000	41.8090	93.2023	-833	QL	2.6	0	6.7	-1	1.3	1	0.421	1	2.190	0	5.198	-2	1803	52	0.3
41846.9	10000	41.8090	93.2015	-833	QL	2.7	0	6.4	-1	1.3	1	0.476	1	2.393	0	5.029	-2	1810	38	0.3
41846.8	10000	41.8090	93.2007	-833	QL	2.7	0	6.7	-1	1.3	1	0.446	1	2.375	0	5.328	-1	1805	53	0.3
41846.7	10000	41.8090	93.2000	-834	QL	2.8	0	6.6	-1	1.3	1	0.460	1	2.328	0	5.057	-2	1796	52	0.3
41846.6	10000	41.8090	93.1992	-834	QL	2.8	0	6.4	-1	1.3	1	0.467	1	2.303	0	4.926	-2	1779	45	0.3
41846.5	10000	41.8091	93.1984	-834	QL	2.8	0	6.8	-1	1.3	1	0.452	1	2.397	1	5.301	-2	1766	43	0.3
41846.4	10000	41.8091	93.1976	-835	QL	2.9	1	6.8	-1	1.3	1	0.484	1	2.594	1	5.364	-1	1751	46	0.3
41846.3	10000	41.8091	93.1968	-835	QL	2.9	1	6.9	-1	1.3	1	0.466	1	2.592	1	5.558	-1	1734	48	0.3
41846.2	10000	41.8091	93.1960	-836	QL	3.1	1	7.4	0	1.3	1	0.422	1	2.530	1	5.996	0	1725	41	0.3
41846.1	10000	41.8091	93.1952	-837	QL	3.2	1	7.3	0	1.3	1	0.448	1	2.602	1	5.811	-1	1720	49	0.3
41846.0	10000	41.8091	93.1944	-837	QL	3.1	1	7.0	0	1.3	1	0.426	1	2.704	1	6.342	0	1719	50	0.3
41845.9	10000	41.8091	93.1936	-837	QL	3.0	1	8.0	1	1.3	1	0.376	1	2.600	1	6.910	0	1718	55	0.3
41845.8	10000	41.8091	93.1928	-837	QL	3.0	1	7.7	1	1.3	1	0.384	1	2.445	1	6.365	0	1712	54	0.3
41845.7	10000	41.8091	93.1920	-837	QL	2.8	1	7.7	1	1.3	1	0.366	1	2.330	0	6.367	0	1705	43	0.3
41845.6	10000	41.8091	93.1913	-838	QL	2.8	1	7.5	1	1.3	1	0.337	1	2.093	0	6.208	0	1718	55	0.3
41845.5	10000	41.8091	93.1905	-838	QL	2.7	1	7.5	1	1.3	1	0.375	1	2.185	0	5.821	-1	1726	44	0.3
41845.4	10000	41.8092	93.1897	-838	QL	2.6	1	7.3	1	1.3	1	0.355	1	2.079	0	5.864	-1	1733	60	0.3
41845.3	10000	41.8092	93.1889	-839	QL	2.5	1	7.4	1	1.3	1	0.344	1	2.016	0	5.864	-1	1746	43	0.3
41845.2	10000	41.8092	93.1881	-841	QL	2.7	1	7.2	1	1.3	1	0.380	1	2.184	0	5.745	-1	1751	38	0.3
41845.1	10000	41.8092	93.1873	-841	QL	2.8	1	7.0	1	1.3	1	0.400	1	2.355	0	5.886	-1	1761	48	0.3
41845.0	10000	41.8092	93.1865	-842	QL	2.9	1	7.2	1	1.2	1	0.398	1	2.327	0	5.842	-1	1779	39	0.3

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41844.9	10000	41.8092	93.1857	-842	QL	2.9	1	7.5	0	1.3	1	0.389	0	2.302	0	5.917	0	1795	40	0.3
41844.8	10000	41.8092	93.1849	-842	QL	2.7	0	7.4	0	1.3	1	0.363	0	2.141	0	5.898	-1	1801	38	0.3
41844.7	10000	41.8092	93.1841	-843	QL	2.7	0	7.4	0	1.3	1	0.368	0	2.161	0	5.868	-1	1814	57	0.3
41844.6	10000	41.8092	93.1833	-843	QL	2.7	0	7.3	0	1.3	1	0.363	0	2.119	0	5.832	-1	1801	46	0.3
41844.5	10000	41.8092	93.1826	-844	QL	2.5	0	7.1	0	1.3	1	0.350	0	1.928	-1	5.510	-1	1795	41	0.3
41844.4	10000	41.8092	93.1818	-844	QL	2.3	-1	7.3	0	1.3	1	0.322	-1	1.794	-1	5.566	-1	1771	41	0.3
41844.3	10000	41.8093	93.1810	-845	QL	2.2	-1	7.6	0	1.3	1	0.291	-1	1.755	-1	6.027	0	1758	51	0.3
41844.2	10000	41.8093	93.1802	-845	QL	2.3	-1	7.3	0	1.2	1	0.317	-1	1.874	-1	5.919	0	1726	49	0.3
41844.1	10000	41.8093	93.1794	-845	QL	2.4	0	7.5	0	1.2	1	0.314	-1	1.929	-1	6.149	0	1687	41	0.3
41844.0	10000	41.8093	93.1786	-845	QL	2.3	-1	7.1	0	1.2	0	0.319	-1	1.950	-1	6.105	0	1638	38	0.3
41843.9	10000	41.8093	93.1778	-845	QL	2.3	-1	6.8	-1	1.1	0	0.338	0	2.017	0	5.976	0	1617	42	0.3
41843.8	10000	41.8093	93.1770	-846	QL	2.3	-1	6.9	-1	1.0	-1	0.339	0	2.231	0	6.583	1	1594	32	0.3
41843.7	10000	41.8093	93.1762	-846	QL	2.4	0	6.9	-1	1.0	-2	0.344	0	2.315	0	6.735	1	1589	53	0.3
41843.6	10000	41.8093	93.1754	-846	QL	2.3	-1	6.3	-1	1.0	-2	0.370	0	2.343	0	6.337	0	1568	51	0.2
41843.5	10000	41.8093	93.1747	-846	QL	2.3	-1	6.4	-1	1.0	-2	0.356	0	2.320	0	6.511	1	1572	51	0.2
41843.4	10000	41.8093	93.1739	-846	QL	2.2	-1	6.5	-1	1.0	-2	0.336	0	2.200	0	6.550	1	1595	46	0.2
41843.3	10000	41.8093	93.1731	-846	QL	2.4	0	7.1	0	1.0	-1	0.339	0	2.315	0	6.828	1	1637	47	0.2
41843.2	10000	41.8093	93.1723	-846	QL	2.5	0	6.8	-1	1.1	-1	0.361	0	2.328	0	6.453	0	1653	36	0.2
41843.1	10000	41.8094	93.1715	-846	QL	2.6	0	7.1	0	1.1	-1	0.370	0	2.371	0	6.404	0	1670	47	0.2
41843.0	10000	41.8094	93.1707	-844	QL	2.6	0	7.3	0	1.1	-1	0.358	0	2.364	0	6.607	1	1694	53	0.2
41842.9	10000	41.8094	93.1699	-842	QL	2.6	0	7.7	1	1.2	0	0.334	0	2.160	0	6.475	0	1716	55	0.2
41842.8	10000	41.8094	93.1691	-845	QL	2.6	0	7.6	1	1.2	1	0.343	0	2.159	0	6.197	0	1723	52	0.2
41842.7	10000	41.8094	93.1683	-848	QL	2.9	1	7.7	1	1.3	1	0.371	0	2.225	0	6.005	0	1741	49	0.2
41842.6	10000	41.8094	93.1675	-849	QL	2.6	0	7.4	0	1.3	1	0.358	0	2.019	0	5.645	-1	1745	45	0.2
41842.5	10000	41.8094	93.1667	-849	QL	2.6	0	7.8	1	1.3	1	0.326	0	1.948	-1	5.969	0	1771	39	0.2
41842.4	10000	41.8094	93.1660	-849	QL	2.6	0	7.5	0	1.3	1	0.342	0	2.011	0	5.886	-1	1754	57	0.2
41842.3	10000	41.8094	93.1652	-849	QL	2.6	0	7.0	0	1.2	1	0.370	0	2.125	0	5.744	-1	1730	42	0.2
41842.2	10000	41.8094	93.1644	-849	QL	2.7	0	6.7	-1	1.1	0	0.404	1	2.350	0	5.816	-1	1707	37	0.2
41842.1	10000	41.8095	93.1636	-846	QL	2.7	0	6.5	-1	1.1	-1	0.417	1	2.455	1	5.884	-1	1682	44	0.2
41842.0	10000	41.8095	93.1628	-841	QL	2.6	0	6.1	-2	1.0	-2	0.436	1	2.570	1	5.899	-1	1651	39	0.2
41841.9	10000	41.8095	93.1620	-844	QL	3.1	2	6.2	-2	1.0	-2	0.500	2	3.144	2	6.284	0	1626	46	0.2
41841.8	10000	41.8095	93.1612	-849	QL	3.3	2	5.8	-2	0.9	-2	0.570	3	3.507	3	6.154	0	1592	56	0.2
41841.7	10000	41.8095	93.1604	-850	QL	3.2	1	5.9	-2	1.0	-2	0.542	3	3.252	2	6.001	0	1604	45	0.2
41841.6	10000	41.8095	93.1596	-851	QL	3.1	1	6.0	-2	1.0	-2	0.508	2	3.011	2	5.927	0	1619	50	0.2
41841.5	10000	41.8095	93.1588	-851	QL	3.2	1	6.3	-2	1.1	-1	0.508	2	2.996	2	5.893	-1	1654	51	0.2
41841.4	10000	41.8095	93.1580	-851	QL	3.2	1	6.4	-1	1.1	-1	0.492	2	2.924	2	5.943	0	1682	39	0.2
41841.3	10000	41.8095	93.1573	-852	QL	3.0	1	6.8	-1	1.1	0	0.448	2	2.684	1	5.992	0	1698	32	0.2
41841.2	10000	41.8095	93.1565	-851	QL	2.7	0	7.0	0	1.2	0	0.387	1	2.367	0	6.118	0	1714	54	0.2
41841.1	10000	41.8095	93.1557	-851	QL	2.5	0	7.5	0	1.2	0	0.336	0	2.085	0	6.209	0	1737	45	0.2
41841.0	10000	41.8095	93.1549	-851	QL	2.5	0	7.8	1	1.2	1	0.316	-1	1.991	-1	6.301	0	1755	45	0.2
41840.9	10000	41.8096	93.1541	-851	QL	2.4	0	7.8	1	1.3	1	0.313	-1	1.911	-1	6.108	0	1761	30	0.2
41840.8	10000	41.8096	93.1533	-850	QL	2.2	-1	7.8	1	1.3	1	0.287	-1	1.758	-1	6.118	0	1757	41	0.2
41840.7	10000	41.8096	93.1525	-850	QL	2.2	-1	8.1	1	1.3	2	0.275	-1	1.675	-1	6.092	0	1758	47	0.2
41840.6	10000	41.8096	93.1517	-850	QL	2.4	0	8.0	1	1.3	1	0.303	-1	1.888	-1	6.230	0	1752	36	0.2
41840.5	10000	41.8096	93.1509	-850	QL	2.4	0	7.9	1	1.3	1	0.306	-1	1.901	-1	6.203	0	1746	48	0.2
41840.4	10000	41.8096	93.1501	-851	QL	2.4	0	7.7	1	1.2	1	0.315	-1	1.957	-1	6.218	0	1737	48	0.2
41840.3	10000	41.8096	93.1493	-850	QL	2.6	0	7.5	0	1.2	0	0.346	-1	2.178	0	6.297	0	1711	35	0.2
41840.2	10000	41.8096	93.1486	-850	QL	2.9	1	7.5	0	1.1	-1	0.381	-1	2.580	1	6.768	1	1690	47	0.2
41840.1	10000	41.8096	93.1478	-851	QL	3.0	1	7.5	0	1.1	-1	0.394	-1	2.793	2	7.095	2	1658	44	0.2
41840.0	10000	41.8096	93.1470	-851	QL	3.1	1	7.3	0	1.0	-2	0.420	-1	3.092	2	7.367	2	1642	46	0.2
41839.9	10000	41.8096	93.1462	-851	QL	2.7	0	7.2	0	1.0	-2	0.376	-1	2.672	1	7.106	2	1635	50	0.2
41839.8	10000	41.8096	93.1454	-850	QL	2.8	1	7.6	1	1.0	-2	0.374	0	2.808	1	7.504	2	1642	55	0.2

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	CNTR	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41839.7	10000	41.8097	93.1446	-851	QL	2.8	0	7.7	1	1.0	-2	0.362	0	2.714	1	7.497	2	1640	29	0.2
41839.6	10000	41.8097	93.1438	-850	QL	2.7	0	8.0	1	1.1	-1	0.336	0	2.511	1	7.472	2	1655	39	0.2
41839.5	10000	41.8097	93.1430	-849	QL	2.5	0	8.3	2	1.1	-1	0.302	-1	2.252	0	7.456	2	1680	46	0.2
41839.4	10000	41.8097	93.1422	-847	QL	2.4	0	8.3	2	1.2	0	0.285	-1	2.050	0	7.189	2	1710	45	0.2
41839.2	10000	41.8097	93.1406	-848	QL	2.4	0	8.3	2	1.2	0	0.290	-1	2.083	0	7.189	2	1724	51	0.2
41839.1	10000	41.8097	93.1399	-851	QL	2.7	0	8.3	2	1.2	0	0.324	-1	2.333	0	7.200	2	1737	41	0.2
41839.0	10000	41.8097	93.1391	-852	QL	2.5	0	7.7	1	1.2	0	0.324	0	2.124	0	6.549	1	1734	37	0.2
41838.9	10000	41.8097	93.1383	-851	QL	2.5	0	7.6	1	1.1	0	0.323	-1	2.147	0	6.645	1	1739	51	0.2
41838.8	10000	41.8097	93.1375	-851	QL	2.4	0	7.5	0	1.2	0	0.324	0	2.100	0	6.475	0	1738	38	0.2
41838.7	10000	41.8097	93.1368	-851	QL	2.6	0	7.3	0	1.2	0	0.353	0	2.228	0	6.305	0	1732	36	0.2
41838.6	10000	41.8097	93.1360	-851	QL	2.7	0	6.8	-1	1.2	0	0.403	1	2.377	0	5.901	0	1735	43	0.2
41838.5	10000	41.8097	93.1352	-851	QL	2.6	0	6.9	-1	1.2	0	0.384	0	2.221	0	5.786	-1	1742	47	0.2
41838.4	10000	41.8097	93.1344	-851	QL	2.6	0	6.9	0	1.2	0	0.381	0	2.221	0	5.822	-1	1738	54	0.2
41838.3	10000	41.8097	93.1337	-851	QL	2.6	0	7.0	0	1.2	0	0.374	0	2.151	0	5.754	-1	1732	58	0.2
41838.2	10000	41.8097	93.1329	-851	QL	2.5	0	6.5	-1	1.2	1	0.389	0	2.035	0	5.234	-2	1716	40	0.2
41838.1	10000	41.8097	93.1321	-851	QL	2.6	0	6.7	-1	1.3	1	0.391	0	2.083	0	5.330	-1	1693	47	0.2
41838.0	10000	41.8097	93.1313	-852	QL	2.5	0	6.6	-1	1.3	1	0.372	0	1.955	-1	5.255	-2	1662	56	0.2
41837.9	10000	41.8097	93.1306	-852	QL	2.5	0	6.8	-1	1.3	1	0.364	0	1.945	-1	5.350	-1	1632	38	0.2
41837.8	10000	41.8097	93.1298	-852	QL	2.3	-1	7.0	0	1.2	1	0.323	-1	1.835	-1	5.674	-1	1602	50	0.2
41837.7	10000	41.8097	93.1290	-853	QL	2.3	-1	7.0	0	1.2	0	0.328	0	1.887	-1	5.758	-1	1585	36	0.2
41837.6	10000	41.8097	93.1282	-852	QL	2.2	-1	7.1	0	1.1	0	0.311	-1	1.956	-1	6.281	0	1555	50	0.2
41837.5	10000	41.8097	93.1274	-852	QL	2.5	0	7.3	0	1.1	-1	0.338	0	2.241	0	6.638	1	1552	41	0.2
41837.4	10000	41.8097	93.1267	-853	QL	2.4	0	7.1	0	1.0	-1	0.334	0	2.302	0	6.884	1	1543	49	0.2
41837.3	10000	41.8097	93.1259	-853	QL	2.6	0	7.1	0	1.0	-2	0.366	0	2.626	1	7.176	2	1549	42	0.2
41837.2	10000	41.8097	93.1251	-853	QL	2.3	0	7.2	0	1.0	-2	0.328	0	2.374	1	7.242	2	1557	54	0.2
41837.1	10000	41.8097	93.1243	-852	QL	2.6	0	6.8	-1	1.0	-2	0.386	0	2.711	1	7.027	1	1557	46	0.2
41837.0	10000	41.8097	93.1236	-852	QL	2.8	0	6.8	-1	1.0	-2	0.402	0	2.785	1	6.926	1	1563	49	0.2
41836.9	10000	41.8097	93.1228	-852	QL	3.0	1	6.8	-1	1.0	-2	0.439	1	3.026	1	6.899	1	1579	42	0.2
41836.8	10000	41.8097	93.1220	-853	QL	3.1	1	6.7	-1	1.0	-2	0.471	1	3.139	1	6.667	1	1589	39	0.2
41836.7	10000	41.8097	93.1212	-853	QL	3.3	1	6.6	-1	1.0	-1	0.490	1	3.111	0	6.352	1	1625	42	0.2
41836.6	10000	41.8097	93.1205	-853	QL	3.1	1	6.3	-1	1.1	-1	0.497	1	2.821	-1	5.682	0	1645	37	0.2
41836.5	10000	41.8097	93.1197	-854	QL	3.1	1	6.5	-1	1.1	-1	0.482	1	2.814	-1	5.843	0	1646	40	0.2
41836.4	10000	41.8097	93.1189	-854	QL	3.2	1	6.3	-2	1.1	-1	0.504	1	2.752	-1	5.462	0	1656	53	0.2
41836.3	10000	41.8097	93.1181	-854	QL	3.0	1	6.0	-2	1.2	-1	0.502	1	2.519	-2	5.021	0	1670	37	0.2
41836.2	10000	41.8097	93.1173	-854	QL	2.9	1	6.0	-2	1.2	0	0.484	1	2.359	-2	4.876	0	1680	41	0.2
41836.1	10000	41.8097	93.1166	-854	QL	2.9	1	6.5	-1	1.3	0	0.443	1	2.282	-2	5.146	0	1685	49	0.2
41836.0	10000	41.8097	93.1158	-854	QL	2.7	0	6.5	-1	1.3	0	0.416	1	2.163	-2	5.201	0	1669	47	0.2
41835.9	10000	41.8097	93.1150	-854	QL	2.7	0	6.8	-1	1.2	0	0.397	1	2.185	-1	5.505	0	1668	51	0.2
41835.8	10000	41.8097	93.1142	-855	QL	2.8	0	6.8	-1	1.2	0	0.409	1	2.256	-1	5.521	0	1679	54	0.2
41835.7	10000	41.8097	93.1135	-855	QL	2.6	0	7.5	0	1.2	1	0.343	0	2.082	0	6.064	1	1687	41	0.2
41835.6	10000	41.8097	93.1127	-855	QL	2.7	0	7.5	0	1.2	1	0.358	0	2.194	0	6.130	1	1684	46	0.2
41835.5	10000	41.8097	93.1119	-856	QL	2.9	0	7.3	0	1.2	1	0.393	0	2.343	0	5.964	0	1682	52	0.2
41835.4	10000	41.8097	93.1111	-856	QL	2.7	0	7.4	0	1.2	1	0.372	0	2.250	0	6.053	0	1671	32	0.2
41835.3	10000	41.8097	93.1104	-857	QL	2.7	0	7.3	0	1.2	1	0.369	0	2.254	0	6.113	0	1686	36	0.2
41835.2	10000	41.8097	93.1096	-857	QL	2.6	0	7.2	0	1.2	1	0.362	0	2.129	-1	5.879	-1	1688	55	0.2
41835.1	10000	41.8097	93.1088	-857	QL	2.7	0	6.9	-1	1.2	1	0.393	0	2.256	-1	5.738	-1	1693	59	0.2
41835.0	10000	41.8097	93.1080	-857	QL	2.9	0	6.8	-1	1.2	1	0.456	0	2.378	-2	5.216	-1	1697	43	0.2
41834.9	10000	41.8097	93.1073	-857	QL	2.6	0	6.9	-1	1.2	1	0.385	0	2.178	-1	5.655	-1	1701	50	0.2
41834.8	10000	41.8096	93.1065	-858	QL	2.8	0	6.8	-1	1.2	1	0.377	0	2.186	-1	5.797	-1	1709	40	0.2
41834.7	10000	41.8096	93.1057	-858	QL	2.7	0	6.8	-1	1.2	1	0.405	0	2.330	-1	5.751	-1	1726	53	0.2
41834.6	10000	41.8096	93.1049	-858	QL	2.7	0	6.9	-1	1.2	1	0.395	0	2.315	-1	5.861	-1	1714	41	0.2
41834.5	10000	41.8096	93.1041	-858	QL	2.7	0	7.0	0	1.2	1	0.386	0	2.358	0	6.113	0	1717	48	0.3

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41834.4	10000	41.8096	93.1034	-858	QL	2.6	0	7.2	0	1.2	0	0.357	0	2.169	0	6.079	0	1714	56	0.3
41834.3	10000	41.8096	93.1026	-858	QL	2.5	0	7.5	0	1.3	1	0.332	0	2.035	0	6.123	0	1719	46	0.3
41834.2	10000	41.8096	93.1018	-858	QL	2.6	0	7.5	0	1.3	1	0.351	0	2.094	0	5.965	0	1729	44	0.3
41834.1	10000	41.8096	93.1010	-858	QL	2.4	0	7.4	0	1.3	1	0.330	0	1.953	-1	5.921	0	1729	48	0.3
41834.0	10000	41.8096	93.1003	-858	QL	2.3	-1	7.3	0	1.3	1	0.312	-1	1.806	-1	5.781	-1	1728	46	0.3
41833.9	10000	41.8096	93.0995	-858	QL	2.4	0	7.2	0	1.3	1	0.331	0	1.808	-1	5.462	-1	1741	44	0.3
41833.8	10000	41.8096	93.0987	-858	QL	2.3	-1	7.1	0	1.3	2	0.332	0	1.759	-1	5.298	-2	1741	43	0.3
41833.7	10000	41.8096	93.0979	-858	QL	2.5	0	6.8	-1	1.3	2	0.366	0	1.891	-1	5.168	-2	1732	52	0.3
41833.6	10000	41.8096	93.0972	-859	QL	2.6	0	6.5	-1	1.3	1	0.395	1	1.989	-1	5.035	-2	1723	53	0.3
41833.5	10000	41.8096	93.0964	-860	QL	2.4	0	6.4	-1	1.2	1	0.383	0	1.947	-1	5.089	-2	1721	39	0.3
41833.4	10000	41.8096	93.0956	-860	QL	2.5	0	6.4	-1	1.3	1	0.395	1	2.016	0	5.102	-2	1727	41	0.3
41833.3	10000	41.8096	93.0948	-860	QL	2.6	0	6.5	-1	1.3	1	0.402	1	2.030	0	5.045	-2	1723	40	0.4
41833.2	10000	41.8096	93.0941	-861	QL	2.5	0	6.1	-2	1.2	1	0.412	1	2.048	0	4.975	-2	1706	55	0.4
41833.1	10000	41.8096	93.0933	-861	QL	2.6	0	6.8	-1	1.2	0	0.388	0	2.176	0	5.611	-1	1698	36	0.4
41833.0	10000	41.8096	93.0925	-862	QL	2.4	0	6.6	-1	1.2	0	0.369	0	2.100	0	5.683	-1	1687	37	0.4
41832.9	10000	41.8096	93.0917	-862	QL	2.5	0	6.3	-1	1.2	0	0.391	0	2.129	0	5.450	-1	1680	47	0.4
41832.8	10000	41.8096	93.0909	-862	QL	2.7	0	6.2	-2	1.2	0	0.432	1	2.241	0	5.188	-2	1674	49	0.4
41832.7	10000	41.8096	93.0902	-862	QL	2.8	0	6.3	-2	1.2	0	0.446	1	2.335	0	5.234	-2	1666	46	0.4
41832.6	10000	41.8096	93.0894	-863	QL	2.6	0	6.3	-2	1.1	0	0.408	1	2.234	0	5.472	-1	1672	39	0.4
41832.5	10000	41.8096	93.0886	-863	QL	2.5	0	6.4	-1	1.2	0	0.394	1	2.181	0	5.539	-1	1663	42	0.4
41832.4	10000	41.8096	93.0878	-863	QL	2.5	0	5.9	-2	1.2	0	0.433	1	2.170	0	5.011	-2	1676	46	0.4
41832.3	10000	41.8096	93.0871	-863	QL	2.5	0	6.3	-2	1.2	0	0.411	1	2.167	0	5.278	-2	1691	45	0.4
41832.2	10000	41.8096	93.0863	-863	QL	2.5	0	6.9	-1	1.2	0	0.357	0	2.028	0	5.674	-1	1706	46	0.4
41832.1	10000	41.8096	93.0855	-863	QL	2.2	-1	7.2	0	1.2	0	0.307	-1	1.909	-1	6.210	0	1708	48	0.4
41832.0	10000	41.8096	93.0847	-863	QL	1.9	-1	7.3	0	1.2	0	0.266	-1	1.623	-1	6.109	0	1716	54	0.4
41831.9	10000	41.8096	93.0840	-863	QL	2.1	-1	7.3	0	1.2	0	0.285	-1	1.711	-1	5.999	0	1712	60	0.4
41831.8	10000	41.8096	93.0832	-863	QL	2.0	-1	7.9	1	1.3	1	0.258	-1	1.627	-1	6.313	0	1731	60	0.4
41831.7	10000	41.8096	93.0824	-864	QL	2.0	-1	7.9	1	1.3	1	0.251	-2	1.572	-1	6.267	0	1725	43	0.4
41831.6	10000	41.8096	93.0816	-864	QL	2.0	-1	7.8	1	1.2	1	0.253	-2	1.589	-1	6.284	0	1725	49	0.4
41831.5	10000	41.8096	93.0808	-864	QL	1.8	-2	7.7	1	1.2	0	0.231	-2	1.481	-2	6.422	0	1712	55	0.4
41831.4	10000	41.8096	93.0801	-865	QL	1.9	-2	7.4	0	1.2	0	0.251	-2	1.492	-2	5.947	0	1710	37	0.4
41831.3	10000	41.8096	93.0793	-864	QL	1.9	-2	7.6	0	1.2	0	0.250	-2	1.551	-2	6.211	0	1696	47	0.4
41831.2	10000	41.8096	93.0785	-865	QL	1.9	-1	7.5	0	1.2	0	0.257	-1	1.612	-1	6.279	0	1687	45	0.4
41831.1	10000	41.8096	93.0777	-865	QL	2.0	-1	7.0	0	1.2	0	0.281	-1	1.667	-1	5.936	0	1677	46	0.4
41831.0	10000	41.8096	93.0770	-865	QL	2.0	-1	6.9	-1	1.1	-1	0.291	-1	1.805	-1	6.200	0	1659	47	0.5
41830.9	10000	41.8096	93.0762	-865	QL	1.8	-2	6.8	-1	1.1	0	0.268	-1	1.585	-1	5.913	0	1641	44	0.5
41830.8	10000	41.8096	93.0754	-865	QL	2.1	-1	6.8	-1	1.2	0	0.305	-1	1.773	-1	5.810	-1	1639	41	0.5
41830.7	10000	41.8096	93.0746	-865	QL	2.0	-1	6.8	-1	1.1	-1	0.290	-1	1.767	-1	6.090	0	1624	50	0.5
41830.6	10000	41.8096	93.0739	-866	QL	2.1	-1	6.6	-1	1.2	0	0.315	-1	1.792	-1	5.697	-1	1636	48	0.5
41830.5	10000	41.8096	93.0731	-866	QL	2.1	-1	6.5	-1	1.2	0	0.327	0	1.846	-1	5.641	-1	1640	40	0.5
41830.4	10000	41.8096	93.0723	-866	QL	2.3	-1	6.8	-1	1.2	0	0.334	0	1.962	-1	5.880	-1	1642	49	0.5
41830.3	10000	41.8096	93.0715	-867	QL	2.1	-1	7.2	0	1.2	0	0.297	-1	1.799	-1	6.053	0	1657	34	0.5
41830.2	10000	41.8096	93.0708	-868	QL	2.4	0	7.3	0	1.2	0	0.326	0	2.066	0	6.327	0	1682	49	0.5
41830.1	10000	41.8096	93.0700	-868	QL	2.7	0	7.8	1	1.1	-1	0.345	0	2.405	0	6.977	1	1704	44	0.5
41830.0	10000	41.8096	93.0692	-868	QL	2.9	1	7.7	1	1.1	-1	0.369	0	2.531	1	6.864	1	1730	54	0.5
41829.9	10000	41.8096	93.0684	-868	QL	3.3	2	7.6	1	1.1	-1	0.438	1	3.112	2	7.105	2	1729	50	0.5
41829.8	10000	41.8096	93.0676	-868	QL	3.4	2	7.7	1	1.0	-2	0.437	1	3.300	3	7.546	2	1742	53	0.5
41829.7	10000	41.8096	93.0669	-868	QL	3.4	2	7.8	1	1.0	-2	0.433	1	3.409	3	7.869	3	1739	45	0.5
41829.6	10000	41.8096	93.0661	-868	QL	3.4	2	7.5	0	1.0	-2	0.455	1	3.510	3	7.706	3	1731	37	0.5
41829.5	10000	41.8096	93.0653	-868	QL	3.4	2	7.6	1	1.0	-2	0.445	1	3.449	3	7.757	3	1718	52	0.5
41829.4	10000	41.8096	93.0645	-869	QL	3.0	1	7.1	0	1.0	-2	0.428	1	2.995	2	6.992	1	1708	51	0.5
41829.3	10000	41.8096	93.0638	-869	QL	3.1	1	6.9	-1	1.0	-1	0.447	1	2.992	2	6.687	1	1687	37	0.5

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41829.2	10000	41.8096	93.0630	-869	QL	2.7	0	6.9	-1	1.1	-1	0.400	1	2.534	1	6.332	0	1683	45	0.5
41829.1	10000	41.8096	93.0622	-869	QL	2.7	0	6.8	-1	1.1	0	0.391	0	2.365	0	6.043	0	1665	50	0.5
41829.0	10000	41.8096	93.0614	-869	QL	2.6	0	6.5	-1	1.1	-1	0.403	1	2.345	0	5.820	-1	1662	36	0.5
41828.9	10000	41.8096	93.0607	-869	QL	2.6	0	6.4	-1	1.1	0	0.398	1	2.250	0	5.652	-1	1666	41	0.5
41828.8	10000	41.8096	93.0599	-869	QL	2.7	0	6.4	-1	1.1	0	0.412	1	2.318	0	5.626	-1	1670	42	0.5
41828.7	10000	41.8096	93.0591	-869	QL	2.9	1	6.6	-1	1.1	-1	0.436	1	2.677	1	6.147	0	1668	57	0.5
41828.6	10000	41.8096	93.0583	-869	QL	2.8	0	7.0	0	1.0	-1	0.400	1	2.687	1	6.718	1	1670	41	0.5
41828.5	10000	41.8096	93.0575	-869	QL	2.7	0	7.2	0	1.0	-2	0.380	0	2.701	1	7.113	2	1676	38	0.5
41828.4	10000	41.8096	93.0568	-869	QL	2.7	0	7.2	0	1.0	-1	0.371	0	2.568	1	6.929	1	1682	36	0.5
41828.3	10000	41.8096	93.0560	-868	QL	2.8	0	7.1	0	1.1	-1	0.395	1	2.572	1	6.504	1	1692	42	0.5
41828.2	10000	41.8096	93.0552	-867	QL	2.9	1	7.4	0	1.1	-1	0.395	1	2.627	1	6.657	1	1701	50	0.5
41828.1	10000	41.8095	93.0544	-867	QL	2.9	1	7.3	0	1.1	-1	0.397	1	2.601	1	6.552	1	1704	33	0.5
41828.0	10000	41.8095	93.0537	-868	QL	2.7	0	7.4	0	1.2	0	0.371	0	2.347	0	6.328	0	1693	44	0.5
41827.9	10000	41.8095	93.0529	-869	QL	3.0	1	7.3	0	1.2	0	0.416	1	2.566	1	6.163	0	1702	45	0.5
41827.8	10000	41.8095	93.0521	-869	QL	2.9	1	7.5	0	1.1	0	0.382	0	2.495	1	6.527	1	1697	40	0.5
41827.7	10000	41.8095	93.0513	-869	QL	2.8	0	7.5	0	1.1	-1	0.375	0	2.519	1	6.710	1	1693	51	0.5
41827.6	10000	41.8095	93.0506	-869	QL	2.7	0	7.8	1	1.1	-1	0.346	0	2.388	0	6.899	1	1688	52	0.5
41827.5	10000	41.8095	93.0498	-869	QL	2.7	0	7.4	0	1.1	-1	0.357	0	2.423	0	6.782	1	1684	48	0.5
41827.4	10000	41.8095	93.0490	-869	QL	2.7	0	7.7	1	1.1	-1	0.345	0	2.443	1	7.087	1	1713	44	0.5
41827.3	10000	41.8095	93.0482	-869	QAL	3.1	1	7.4	1	1.1	0	0.418	0	2.763	1	6.616	1	1748	41	0.5
41827.2	10000	41.8095	93.0475	-869	QAL	3.0	1	7.0	0	1.1	0	0.421	0	2.639	1	6.272	0	1745	45	0.5
41827.1	10000	41.8095	93.0467	-868	QAL	3.1	1	6.8	0	1.1	0	0.453	1	2.774	1	6.120	0	1742	38	0.5
41827.0	10000	41.8095	93.0459	-867	QAL	3.1	1	7.1	1	1.1	0	0.439	1	2.863	1	6.524	1	1724	50	0.5
41826.9	10000	41.8095	93.0451	-868	QAL	3.1	1	7.0	0	1.0	-1	0.447	1	3.121	1	6.976	1	1712	49	0.5
41826.8	10000	41.8095	93.0443	-868	QAL	3.1	1	7.6	1	1.0	-1	0.406	1	3.191	2	7.852	2	1693	46	0.5
41826.7	10000	41.8095	93.0436	-868	QAL	3.0	1	7.5	1	1.0	-1	0.401	1	3.036	2	7.570	2	1641	31	0.5
41826.6	10000	41.8095	93.0428	-867	QAL	2.4	0	7.6	1	1.0	-1	0.316	-1	2.453	2	7.774	2	1612	40	0.6
41826.5	10000	41.8095	93.0420	-867	QAL	2.1	-1	7.9	1	1.0	-1	0.261	-1	2.089	2	7.992	2	1614	47	0.6
41826.4	10000	41.8095	93.0412	-867	QAL	2.2	0	7.7	1	1.0	-1	0.288	-1	2.151	2	7.476	2	1613	44	0.6
41826.3	10000	41.8095	93.0405	-867	QL	2.3	-1	7.4	0	1.0	-1	0.311	-1	2.194	1	7.048	1	1628	38	0.6
41826.2	10000	41.8095	93.0397	-867	QL	2.2	-1	7.4	0	1.1	-1	0.298	-1	2.013	0	6.751	0	1641	45	0.6
41826.1	10000	41.8095	93.0389	-866	QL	2.1	-1	7.0	0	1.2	0	0.293	-1	1.763	-1	6.021	-1	1664	37	0.6
41826.0	10000	41.8095	93.0381	-866	QL	2.1	-1	7.2	0	1.2	-1	0.297	-1	1.775	-1	5.986	-1	1683	44	0.5
41825.9	10000	41.8095	93.0374	-866	QL	2.3	-1	7.2	0	1.2	-1	0.324	-1	1.947	-1	6.015	-1	1691	42	0.5
41825.8	10000	41.8095	93.0366	-866	QL	2.4	0	7.3	0	1.2	0	0.327	-1	1.978	-1	6.047	-1	1692	54	0.5
41825.7	10000	41.8095	93.0358	-865	QL	2.3	-1	7.2	0	1.2	-1	0.323	-1	1.940	-1	5.999	-1	1711	51	0.6
41825.6	10000	41.8095	93.0350	-865	QL	2.4	0	7.4	0	1.2	-1	0.320	-1	1.896	-1	5.919	-1	1730	49	0.6
41825.5	10000	41.8095	93.0342	-864	QL	2.6	0	7.8	1	1.2	0	0.329	0	1.964	-1	5.975	-1	1746	52	0.6
41825.4	10000	41.8095	93.0335	-864	QL	2.5	0	7.5	0	1.2	0	0.337	0	1.965	-1	5.836	-1	1752	54	0.6
41825.3	10000	41.8095	93.0327	-864	QL	2.4	0	7.4	0	1.2	-1	0.326	-1	1.890	-1	5.788	-1	1765	44	0.5
41825.2	10000	41.8095	93.0319	-863	QL	2.4	0	7.7	1	1.2	-1	0.318	-1	1.908	-1	5.992	-1	1771	52	0.5
41825.1	10000	41.8095	93.0311	-863	QL	2.4	0	7.9	1	1.2	-1	0.307	-1	1.882	-1	6.137	-1	1760	34	0.5
41825.0	10000	41.8095	93.0304	-863	QL	2.4	0	7.9	1	1.2	-1	0.308	-1	1.888	-1	6.133	-1	1760	51	0.5
41824.9	10000	41.8095	93.0296	-862	QL	2.4	0	7.9	1	1.2	-1	0.300	-1	1.863	-1	6.202	-1	1743	52	0.5
41824.8	10000	41.8095	93.0288	-862	QL	2.0	-1	7.4	1	1.2	-1	0.278	-1	1.659	-1	5.963	-1	1723	43	0.5
41824.7	10000	41.8095	93.0280	-862	QL	2.4	0	7.5	1	1.2	-1	0.319	-1	1.943	-1	6.090	-1	1710	41	0.5
41824.6	10000	41.8095	93.0273	-861	QL	2.5	0	7.4	1	1.2	0	0.333	0	2.073	0	6.230	-1	1703	40	0.5
41824.5	10000	41.8095	93.0265	-860	QL	2.3	-1	6.9	0	1.2	-1	0.328	-1	1.914	-1	5.839	-1	1692	53	0.5
41824.4	10000	41.8095	93.0257	-860	QL	2.4	-1	6.7	-1	1.2	-1	0.353	-1	1.974	-1	5.588	-1	1709	57	0.5
41824.3	10000	41.8095	93.0249	-859	QL	2.3	-1	7.0	0	1.2	-1	0.321	-1	1.917	-1	5.970	-1	1696	42	0.5
41824.2	10000	41.8095	93.0241	-859	QL	2.3	-1	6.9	0	1.2	-1	0.328	-1	1.890	-1	5.764	-1	1701	39	0.5
41824.1	10000	41.8095	93.0233	-858	QL	2.4	0	7.3	0	1.2	1	0.327	0	1.951	-1	5.966	0	1720	52	0.5

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41824.0	10000	41.8095	93.0226	-858	QL	2.3	-1	7.3	0	1.3	1	0.321	-1	1.811	-1	5.634	-1	1738	49	0.5
41823.9	10000	41.8095	93.0218	-858	QL	2.3	-1	7.1	0	1.3	2	0.328	0	1.731	-1	5.277	-2	1747	42	0.5
41823.8	10000	41.8095	93.0210	-857	QL	2.5	0	7.4	0	1.4	2	0.342	0	1.847	-1	5.396	-1	1765	36	0.5
41823.7	10000	41.8095	93.0202	-856	QL	2.7	0	7.5	0	1.4	2	0.358	0	1.934	-1	5.395	-1	1775	50	0.5
41823.6	10000	41.8095	93.0194	-856	QL	2.6	0	7.0	0	1.4	3	0.370	0	1.839	-1	4.967	-2	1778	35	0.5
41823.5	10000	41.8095	93.0186	-855	QL	2.6	0	7.0	0	1.4	2	0.380	0	1.900	-1	4.997	-2	1792	54	0.5
41823.4	10000	41.8095	93.0179	-854	QL	2.6	0	6.7	-1	1.4	2	0.390	0	1.888	-1	4.838	-2	1793	34	0.5
41823.3	10000	41.8095	93.0171	-854	QL	2.6	0	6.6	-1	1.3	1	0.394	1	1.977	-1	5.022	-2	1794	43	0.5
41823.2	10000	41.8095	93.0163	-853	QL	2.9	1	6.8	-1	1.3	1	0.427	1	2.235	0	5.235	-2	1790	47	0.5
41823.1	10000	41.8095	93.0155	-853	QL	2.9	1	6.5	-1	1.2	1	0.441	1	2.341	0	5.305	-1	1775	42	0.5
41823.0	10000	41.8095	93.0147	-853	QL	2.7	0	6.3	-1	1.2	1	0.424	1	2.161	0	5.091	-2	1762	48	0.5
41822.9	10000	41.8095	93.0139	-852	QL	2.8	1	6.6	-1	1.2	0	0.425	1	2.318	0	5.456	-1	1760	50	0.5
41822.8	10000	41.8095	93.0132	-852	QL	2.9	1	6.7	-1	1.2	0	0.434	1	2.453	1	5.648	-1	1766	31	0.5
41822.7	10000	41.8095	93.0124	-852	QL	3.0	1	6.9	-1	1.2	0	0.437	1	2.586	1	5.919	0	1773	56	0.5
41822.6	10000	41.8095	93.0116	-851	QL	3.0	1	7.1	0	1.2	0	0.428	1	2.549	1	5.962	0	1766	40	0.5
41822.5	10000	41.8095	93.0108	-851	QL	2.7	0	7.3	0	1.2	0	0.364	0	2.239	0	6.150	0	1754	46	0.5
41822.4	10000	41.8095	93.0100	-851	QL	3.0	1	7.4	0	1.2	1	0.398	1	2.404	0	6.040	0	1753	52	0.5
41822.3	10000	41.8095	93.0092	-851	QL	3.0	1	7.5	0	1.2	0	0.400	1	2.544	1	6.361	0	1737	45	0.5
41822.2	10000	41.8095	93.0085	-850	QL	2.9	1	7.2	0	1.1	0	0.402	1	2.542	1	6.329	0	1708	35	0.5
41822.1	10000	41.8095	93.0077	-850	QL	2.8	0	7.0	0	1.1	-1	0.395	1	2.502	1	6.335	0	1660	38	0.5
41822.0	10000	41.8095	93.0069	-850	QL	2.9	1	6.9	-1	1.1	-1	0.414	1	2.644	1	6.390	0	1635	42	0.5
41821.9	10000	41.8095	93.0061	-851	QL	2.8	1	6.5	-1	1.1	-1	0.434	1	2.670	1	6.151	0	1621	44	0.5
41821.8	10000	41.8095	93.0053	-851	QL	3.0	1	6.2	-2	1.1	-1	0.488	2	2.845	1	5.827	-1	1626	42	0.5
41821.7	10000	41.8095	93.0045	-850	QL	2.6	0	6.1	-2	1.0	-2	0.433	1	2.572	1	5.939	0	1622	36	0.5
41821.6	10000	41.8095	93.0038	-850	QL	2.7	1	6.3	-2	1.1	-1	0.431	1	2.569	1	5.966	0	1637	53	0.5
41821.5	10000	41.8095	93.0030	-850	QL	2.8	1	6.6	-1	1.1	-1	0.429	1	2.554	1	5.953	0	1665	54	0.5
41821.4	10000	41.8095	93.0022	-851	QL	2.6	1	6.6	-1	1.2	0	0.398	1	2.288	1	5.748	-1	1685	28	0.5
41821.3	10000	41.8095	93.0014	-851	QL	2.6	1	7.0	-1	1.2	0	0.370	1	2.227	1	6.017	0	1686	36	0.5
41821.2	10000	41.8095	93.0006	-851	QL	2.5	1	7.3	-1	1.2	0	0.337	1	2.124	1	6.296	0	1694	51	0.5
41821.1	10000	41.8095	92.9998	-850	QL	2.4	1	7.6	-1	1.2	0	0.315	-1	2.029	1	6.437	0	1704	40	0.5
41821.0	10000	41.8095	92.9991	-851	QL	2.4	1	8.2	-1	1.3	0	0.288	-1	1.870	1	6.502	0	1726	37	0.5
41820.9	10000	41.8096	92.9983	-850	QL	2.5	1	8.4	-1	1.3	0	0.265	-1	1.764	1	6.661	0	1734	51	0.5
41820.8	10000	41.8096	92.9975	-851	QL	2.2	1	8.2	-1	1.3	0	0.270	-1	1.793	1	6.638	0	1739	53	0.5
41820.7	10000	41.8096	92.9967	-851	QL	2.4	1	8.3	-1	1.3	0	0.289	-1	1.921	1	6.657	0	1766	40	0.5
41820.6	10000	41.8096	92.9959	-850	QL	2.6	1	8.1	-1	1.3	0	0.315	-1	1.962	1	6.227	0	1781	52	0.5
41820.5	10000	41.8096	92.9951	-850	QL	2.4	1	7.7	-1	1.3	0	0.305	-1	1.825	1	5.988	-1	1782	44	0.5
41820.4	10000	41.8096	92.9944	-851	QL	2.7	1	7.6	-1	1.3	0	0.335	0	2.116	1	6.309	0	1775	41	0.5
41820.3	10000	41.8096	92.9936	-852	QL	2.9	1	7.3	-1	1.2	0	0.377	1	2.442	1	6.484	0	1760	39	0.5
41820.2	10000	41.8096	92.9928	-852	QL	3.0	1	7.3	-1	1.2	0	0.408	1	2.622	1	6.421	0	1760	44	0.5
41820.1	10000	41.8096	92.9920	-852	QL	2.9	1	7.6	-1	1.2	0	0.382	1	2.509	1	6.561	0	1767	46	0.5
41820.0	10000	41.8096	92.9912	-853	QL	2.7	1	7.5	-1	1.1	0	0.356	1	2.351	1	6.596	0	1750	52	0.5
41819.9	10000	41.8096	92.9905	-853	QL	2.7	1	7.7	-1	1.1	0	0.355	1	2.405	1	6.783	0	1747	46	0.5
41819.8	10000	41.8096	92.9897	-853	QL	2.9	1	7.9	-1	1.1	0	0.373	1	2.716	1	7.286	0	1752	40	0.5
41819.7	10000	41.8096	92.9889	-854	QL	2.7	1	7.8	-1	1.1	0	0.344	1	2.399	1	6.982	0	1761	40	0.5
41819.6	10000	41.8096	92.9881	-855	QL	2.6	1	7.7	-1	1.2	0	0.341	1	2.269	1	6.650	0	1773	45	0.5
41819.5	10000	41.8096	92.9873	-856	QL	2.7	1	7.9	-1	1.2	0	0.337	1	2.235	1	6.641	0	1776	43	0.5
41819.4	10000	41.8096	92.9865	-856	QL	2.7	1	8.0	-1	1.2	0	0.342	1	2.205	1	6.450	0	1786	55	0.5
41819.3	10000	41.8096	92.9858	-857	QL	2.7	1	7.6	-1	1.3	0	0.385	1	2.309	1	5.993	0	1791	51	0.5
41819.2	10000	41.8096	92.9850	-858	QL	2.8	1	7.4	-1	1.3	0	0.365	1	2.145	1	5.878	-1	1789	42	0.5
41819.1	10000	41.8096	92.9842	-858	QL	2.8	1	7.2	-1	1.3	0	0.387	1	2.178	1	5.635	-1	1770	50	0.5
41819.0	10000	41.8096	92.9834	-859	QL	2.9	1	6.9	-1	1.3	0	0.415	1	2.289	1	5.513	-1	1772	53	0.5
41818.9	10000	41.8096	92.9826	-860	QL	2.8	1	6.8	-1	1.3	1	0.415	1	2.257	0	5.440	-1	1746	38	0.5

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41818.8	10000	41.8096	92.9818	-861	QL	2.8	0	6.5	-1	1.3	1	0.428	1	2.212	0	5.163	-2	1730	39	0.5
41818.7	10000	41.8096	92.9811	-862	QL	2.6	0	6.5	-1	1.2	0	0.405	1	2.165	0	5.348	-1	1689	43	0.5
41818.6	10000	41.8096	92.9803	-864	QL	2.5	0	6.8	-1	1.2	0	0.368	0	2.156	0	5.863	-1	1673	43	0.5
41818.5	10000	41.8096	92.9795	-865	QL	2.3	-1	6.7	-1	1.1	-1	0.350	0	2.105	0	6.021	0	1652	47	0.5
41818.4	10000	41.8096	92.9787	-866	QL	2.3	-1	6.8	-1	1.1	-1	0.338	0	2.121	0	6.273	0	1653	44	0.5
41818.3	10000	41.8096	92.9779	-868	QL	2.4	0	6.9	-1	1.1	-1	0.346	0	2.181	0	6.307	0	1629	48	0.5
41818.2	10000	41.8096	92.9771	-869	QL	2.3	-1	7.0	0	1.1	-1	0.336	0	2.221	0	6.614	1	1622	42	0.5
41818.1	10000	41.8096	92.9764	-871	QL	2.3	-1	7.0	0	1.0	-2	0.328	0	2.235	0	6.808	1	1623	45	0.5
41818.0	10000	41.8096	92.9756	-872	QL	2.3	-1	6.7	-1	1.0	-2	0.346	0	2.246	0	6.489	0	1632	53	0.5
41817.9	10000	41.8096	92.9748	-874	QL	2.5	0	7.1	0	1.0	-2	0.352	0	2.503	1	7.102	2	1641	43	0.5
41817.8	10000	41.8096	92.9740	-875	QL	2.7	0	7.4	0	1.0	-2	0.360	1	2.600	1	7.218	2	1652	41	0.5
41817.7	10000	41.8096	92.9732	-877	QL	2.7	0	7.6	1	1.0	-1	0.351	1	2.563	1	7.307	2	1671	50	0.5
41817.6	10000	41.8096	92.9724	-878	QL	2.6	0	7.9	1	1.0	-1	0.330	1	2.513	1	7.625	2	1689	45	0.5
41817.5	10000	41.8096	92.9717	-880	QL	2.7	0	7.9	1	1.0	-1	0.344	1	2.616	1	7.615	2	1707	52	0.5
41817.4	10000	41.8096	92.9709	-881	QL	2.8	1	8.2	1	1.0	-2	0.345	1	2.759	1	7.993	3	1726	35	0.5
41817.3	10000	41.8096	92.9701	-882	QL	2.9	1	8.3	2	1.0	-2	0.348	1	2.811	1	8.067	3	1739	42	0.5
41817.2	10000	41.8096	92.9693	-884	QL	2.9	1	8.1	1	1.1	-1	0.357	1	2.704	1	7.578	2	1758	34	0.5
41817.1	10000	41.8096	92.9685	-885	QL	2.9	1	7.7	1	1.1	0	0.378	1	2.553	1	6.755	1	1775	41	0.5
41817.0	10000	41.8096	92.9677	-887	QL	2.7	1	7.7	1	1.2	0	0.351	0	2.345	0	6.673	1	1779	50	0.5
41816.9	10000	41.8096	92.9670	-888	QL	2.6	0	7.6	0	1.2	0	0.348	0	2.186	0	6.277	0	1780	44	0.5
41816.8	10000	41.8096	92.9662	-890	QL	2.5	0	7.6	1	1.2	0	0.334	0	2.073	0	6.213	0	1792	39	0.5
41816.7	10000	41.8096	92.9654	-891	QL	2.4	0	7.6	1	1.3	1	0.317	-1	1.866	-1	5.881	-1	1788	40	0.5
41816.6	10000	41.8096	92.9646	-892	QL	2.6	0	7.8	1	1.3	1	0.329	0	1.955	-1	5.943	0	1799	52	0.5
41816.5	10000	41.8096	92.9638	-894	QL	2.4	0	7.7	1	1.3	2	0.316	-1	1.837	-1	5.806	-1	1786	51	0.5
41816.4	10000	41.8096	92.9630	-895	QL	2.5	0	7.9	1	1.3	1	0.315	-1	1.949	-1	6.182	0	1786	40	0.5
41816.3	10000	41.8096	92.9623	-897	QL	2.7	0	7.8	1	1.2	0	0.346	0	2.213	0	6.391	0	1769	51	0.5
41816.2	10000	41.8096	92.9615	-898	QL	2.8	0	7.9	1	1.2	0	0.358	0	2.449	0	6.848	1	1773	48	0.5
41816.1	10000	41.8096	92.9607	-899	QL	2.8	0	8.1	1	1.2	0	0.341	0	2.384	0	6.963	1	1759	46	0.5
41816.0	10000	41.8096	92.9599	-900	QL	2.7	0	7.9	1	1.1	-1	0.348	0	2.492	1	7.170	2	1758	39	0.5
41815.9	10000	41.8096	92.9591	-900	QL	2.5	0	7.7	1	1.1	-1	0.331	0	2.348	0	7.103	2	1745	50	0.5
41815.8	10000	41.8096	92.9583	-901	QL	2.3	-1	7.9	1	1.1	-2	0.293	-1	2.193	0	7.474	2	1736	49	0.5
41815.7	10000	41.8096	92.9576	-902	QL	2.2	-1	7.7	1	1.0	-2	0.285	-1	2.129	0	7.482	2	1718	46	0.5
41815.6	10000	41.8096	92.9568	-903	QL	2.1	-1	7.5	0	1.1	-1	0.276	-1	1.916	-1	6.943	1	1708	51	0.5
41815.5	10000	41.8096	92.9560	-904	QAL	2.1	-1	7.1	1	1.1	0	0.290	-1	1.904	-1	6.577	1	1678	54	0.5
41815.4	10000	41.8096	92.9552	-905	QAL	2.0	-1	6.5	0	1.1	0	0.308	-1	1.879	-1	6.095	0	1657	34	0.5
41815.3	10000	41.8096	92.9544	-906	QAL	2.0	-1	6.4	0	1.1	0	0.303	-1	1.748	-1	5.765	0	1635	34	0.5
41815.2	10000	41.8096	92.9536	-907	QAL	2.0	-1	6.4	0	1.1	0	0.311	-1	1.758	-1	5.656	-1	1626	37	0.5
41815.1	10000	41.8096	92.9529	-907	QAL	2.4	0	6.0	0	1.1	0	0.403	0	2.120	0	5.265	-1	1612	32	0.6
41815.0	10000	41.8097	92.9521	-908	QAL	2.4	0	6.2	0	1.1	0	0.383	0	2.104	0	5.494	-1	1619	35	0.6
41814.9	10000	41.8097	92.9513	-908	QAL	2.3	0	6.2	0	1.1	0	0.372	0	2.108	0	5.673	-1	1635	56	0.6
41814.8	10000	41.8097	92.9505	-908	QL	2.0	-1	6.7	-1	1.2	0	0.305	-1	1.750	-1	5.734	-1	1659	44	0.6
41814.7	10000	41.8097	92.9497	-908	QL	2.2	-1	7.1	-1	1.2	0	0.317	-1	1.933	-1	6.106	0	1680	40	0.6
41814.6	10000	41.8097	92.9489	-909	QL	2.4	0	6.9	-1	1.1	-1	0.347	0	2.228	0	6.425	0	1699	43	0.6
41814.5	10000	41.8097	92.9482	-909	QL	2.7	0	7.0	0	1.1	-1	0.384	0	2.538	1	6.603	1	1703	55	0.6
41814.4	10000	41.8097	92.9474	-909	QL	2.2	-1	7.4	0	1.0	-1	0.300	-1	2.108	1	7.021	1	1714	48	0.6
41814.3	10000	41.8097	92.9466	-909	QL	2.2	-1	7.2	0	1.1	-1	0.306	-1	2.056	1	6.713	1	1712	48	0.6
41814.2	10000	41.8097	92.9458	-909	QL	2.2	-1	7.4	0	1.0	-1	0.298	-1	2.109	1	7.069	1	1710	44	0.6
41814.1	10000	41.8097	92.9450	-909	QL	2.4	0	6.9	-1	1.0	-2	0.348	0	2.346	1	6.742	1	1715	41	0.6
41814.0	10000	41.8097	92.9442	-910	QL	2.4	0	7.0	0	1.0	-2	0.344	0	2.364	1	6.867	1	1730	32	0.6
41813.9	10000	41.8097	92.9435	-909	QL	2.6	0	7.6	1	1.1	-1	0.347	0	2.512	1	7.237	2	1746	48	0.6
41813.8	10000	41.8097	92.9427	-910	QL	2.3	-1	8.2	1	1.0	-1	0.278	-1	2.183	1	7.845	3	1766	38	0.6
41813.7	10000	41.8097	92.9419	-910	QL	2.6	0	7.7	1	1.1	-1	0.342	0	2.436	1	7.132	2	1786	47	0.6

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41813.6	10000	41.8097	92.9411	-909	QL	2.9	1	7.9	1	1.1	-1	0.365	0	2.615	1	7.159	2	1807	45	0.6
41813.5	10000	41.8097	92.9403	-909	QL	2.9	1	8.1	1	1.1	0	0.362	0	2.582	1	7.127	2	1816	48	0.6
41813.4	10000	41.8097	92.9395	-908	QL	3.0	1	8.0	1	1.2	0	0.374	0	2.548	1	6.816	1	1823	57	0.6
41813.3	10000	41.8097	92.9388	-908	QL	3.0	1	7.8	1	1.2	0	0.386	0	2.457	1	6.369	0	1812	48	0.6
41813.2	10000	41.8097	92.9380	-908	QL	2.6	0	7.4	0	1.2	0	0.349	0	2.146	0	6.154	0	1796	42	0.6
41813.1	10000	41.8097	92.9372	-907	QL	2.7	0	6.9	-1	1.2	0	0.389	0	2.210	0	5.678	-1	1777	40	0.6
41813.0	10000	41.8097	92.9364	-907	QL	2.6	0	7.2	0	1.2	0	0.364	0	2.247	0	6.173	0	1757	44	0.6
41812.9	10000	41.8097	92.9356	-906	QL	2.4	-1	7.3	0	1.1	0	0.322	-1	2.066	0	6.419	0	1747	46	0.6
41812.8	10000	41.8097	92.9348	-906	QL	2.4	0	7.0	0	1.2	0	0.341	0	2.066	0	6.053	0	1746	49	0.6
41812.7	10000	41.8097	92.9341	-905	QL	2.4	0	7.4	0	1.1	0	0.320	-1	2.092	0	6.530	1	1740	54	0.6
41812.6	10000	41.8097	92.9333	-904	QL	2.2	-1	7.3	0	1.1	0	0.305	-1	1.955	-1	6.408	0	1748	44	0.6
41812.5	10000	41.8097	92.9325	-903	QL	2.4	0	7.3	0	1.2	0	0.329	0	2.017	0	6.135	0	1750	60	0.6
41812.4	10000	41.8097	92.9317	-901	QL	2.4	0	7.1	0	1.2	0	0.339	0	2.020	0	5.966	0	1740	37	0.6
41812.3	10000	41.8097	92.9309	-900	QL	2.3	-1	6.9	-1	1.2	0	0.338	0	1.958	-1	5.785	-1	1735	51	0.6
41812.2	10000	41.8097	92.9301	-899	QL	2.6	0	6.9	-1	1.2	0	0.370	0	2.161	0	5.836	-1	1722	45	0.6
41812.1	10000	41.8097	92.9294	-898	QL	2.3	-1	7.2	0	1.1	0	0.320	-1	1.999	0	6.240	0	1706	45	0.6
41812.0	10000	41.8097	92.9286	-897	QL	2.2	-1	7.1	0	1.2	0	0.310	-1	1.909	-1	6.167	0	1696	49	0.7
41811.9	10000	41.8097	92.9278	-896	QL	2.2	-1	7.7	1	1.1	-1	0.283	-1	1.989	-1	7.019	1	1701	40	0.7
41811.8	10000	41.8097	92.9270	-895	QL	2.4	0	8.0	1	1.1	-1	0.305	-1	2.296	0	7.522	2	1698	37	0.7
41811.7	10000	41.8097	92.9262	-893	QL	2.4	0	8.0	1	1.1	-1	0.298	-1	2.182	0	7.313	2	1723	44	0.7
41811.6	10000	41.8097	92.9254	-891	QL	2.4	0	8.4	2	1.1	-1	0.290	-1	2.198	0	7.591	2	1760	57	0.7
41811.5	10000	41.8097	92.9247	-890	QL	2.5	0	8.3	2	1.1	-1	0.297	-1	2.193	0	7.373	2	1781	42	0.7
41811.4	10000	41.8097	92.9239	-889	QL	2.8	0	8.2	1	1.2	0	0.339	0	2.405	0	7.086	1	1798	41	0.7
41811.3	10000	41.8097	92.9231	-888	QL	2.6	0	8.4	2	1.1	0	0.310	-1	2.303	0	7.429	2	1789	50	0.7
41811.2	10000	41.8097	92.9223	-886	QL	2.6	0	8.0	1	1.1	0	0.327	-1	2.298	0	7.028	1	1774	45	0.7
41811.1	10000	41.8097	92.9215	-885	QL	2.6	0	8.0	2	1.1	0	0.323	-1	2.197	0	6.797	1	1785	51	0.7
41811.0	10000	41.8097	92.9208	-883	QL	2.6	0	8.2	2	1.1	0	0.312	-1	2.256	0	7.219	2	1784	36	0.7
41810.9	10000	41.8097	92.9200	-882	QL	2.5	0	8.0	2	1.1	0	0.319	-1	2.150	0	6.749	1	1776	54	0.7
41810.8	10000	41.8097	92.9192	-880	QL	2.3	-1	8.1	2	1.1	0	0.296	-1	1.959	-1	6.609	1	1770	41	0.7
41810.7	10000	41.8097	92.9184	-879	QL	2.4	0	8.1	2	1.1	0	0.289	-1	2.051	0	7.087	1	1786	44	0.7
41810.6	10000	41.8097	92.9176	-878	QL	2.7	0	8.1	2	1.1	0	0.335	0	2.340	0	6.981	1	1813	44	0.7
41810.5	10000	41.8097	92.9168	-876	QL	2.8	0	8.1	2	1.1	0	0.347	0	2.491	0	7.172	2	1825	52	0.7
41810.4	10000	41.8097	92.9161	-875	QL	2.7	0	8.1	2	1.1	0	0.331	0	2.365	0	7.152	2	1833	45	0.7
41810.3	10000	41.8097	92.9153	-874	QL	2.8	0	7.7	2	1.1	0	0.363	0	2.437	0	6.714	1	1830	38	0.7
41810.2	10000	41.8097	92.9145	-872	QL	3.0	1	7.6	1	1.1	0	0.390	0	2.629	0	6.742	1	1822	37	0.7
41810.1	10000	41.8097	92.9137	-871	QL	3.1	1	7.7	1	1.1	0	0.399	0	2.799	0	7.012	1	1819	37	0.7
41810.0	10000	41.8097	92.9129	-870	QL	3.1	1	7.1	1	1.1	0	0.430	0	2.822	0	6.563	1	1781	45	0.7
41809.9	10000	41.8097	92.9121	-868	QL	2.7	0	7.1	1	1.1	0	0.379	0	2.388	0	6.303	1	1774	48	0.7
41809.8	10000	41.8097	92.9114	-867	QL	2.4	0	7.4	1	1.2	0	0.327	0	2.047	0	6.251	1	1766	41	0.7
41809.7	10000	41.8097	92.9106	-866	QL	2.4	0	7.2	1	1.1	0	0.331	0	2.092	0	6.325	1	1749	57	0.7
41809.6	10000	41.8097	92.9098	-865	QL	2.4	0	7.6	1	1.1	0	0.320	-1	2.196	0	6.861	1	1744	54	0.7
41809.5	10000	41.8097	92.9090	-865	QL	2.3	-1	7.8	1	1.1	-1	0.293	-1	2.078	0	7.096	2	1751	41	0.7
41809.4	10000	41.8097	92.9082	-864	QL	2.4	-1	7.5	1	1.1	-1	0.324	-1	2.203	0	6.791	1	1742	34	0.7
41809.3	10000	41.8097	92.9074	-864	QL	2.4	-1	7.3	1	1.1	-1	0.321	-1	2.065	0	6.440	1	1744	60	0.7
41809.2	10000	41.8097	92.9067	-863	QL	2.5	0	7.2	1	1.1	-1	0.342	0	2.259	0	6.609	1	1736	37	0.7
41809.1	10000	41.8097	92.9059	-862	QL	2.7	0	7.0	1	1.1	-1	0.382	0	2.501	0	6.543	1	1738	52	0.7
41809.0	10000	41.8097	92.9051	-862	QL	2.4	0	7.0	1	1.2	-1	0.346	0	2.144	0	6.199	1	1735	57	0.7
41808.9	10000	41.8097	92.9043	-861	QL	2.4	0	6.8	1	1.2	-1	0.358	0	2.105	0	5.883	0	1741	36	0.7
41808.8	10000	41.8097	92.9035	-861	QL	2.5	0	6.6	1	1.2	-1	0.383	0	2.136	0	5.579	0	1724	56	0.7
41808.7	10000	41.8097	92.9027	-860	QL	2.4	0	6.8	1	1.2	-1	0.352	0	1.995	-1	5.671	-1	1727	49	0.7
41808.6	10000	41.8097	92.9020	-859	QL	2.4	0	7.1	1	1.2	-1	0.332	0	1.931	-1	5.812	-1	1752	49	0.7
41808.5	10000	41.8097	92.9012	-858	QL	2.3	-1	7.0	1	1.2	1	0.330	0	1.852	-1	5.607	-1	1763	40	0.7

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41808.4	10000	41.8097	92.9004	-858	QL	2.3	-1	7.1	0	1.3	1	0.327	0	1.827	-1	5.593	-1	1771	50	0.7
41808.3	10000	41.8097	92.8996	-859	QL	2.6	0	6.9	-1	1.3	1	0.372	0	2.041	0	5.480	-1	1779	51	0.7
41808.2	10000	41.8097	92.8988	-860	QL	2.6	0	7.0	0	1.3	1	0.370	0	2.009	0	5.426	-1	1798	54	0.7
41808.1	10000	41.8097	92.8981	-859	QL	2.5	0	7.0	0	1.3	1	0.358	0	1.931	-1	5.394	-1	1819	42	0.7
41808.0	10000	41.8097	92.8973	-859	QL	2.4	0	6.9	0	1.3	2	0.340	0	1.769	-1	5.196	-2	1830	40	0.7
41807.9	10000	41.8097	92.8966	-858	QL	2.4	0	6.8	-1	1.3	1	0.355	0	1.841	-1	5.180	-2	1820	52	0.7
41807.8	10000	41.8097	92.8958	-858	QL	2.6	0	6.9	-1	1.3	1	0.375	0	1.969	-1	5.255	-2	1814	43	0.7
41807.7	10000	41.8097	92.8951	-857	QL	2.6	0	6.6	-1	1.3	1	0.387	0	1.967	-1	5.082	-2	1806	50	0.7
41807.6	10000	41.8097	92.8943	-857	QL	2.5	0	7.0	0	1.3	1	0.357	0	1.969	-1	5.513	-1	1807	51	0.7
41807.5	10000	41.8096	92.8936	-856	QL	2.6	0	7.1	0	1.2	0	0.360	0	2.105	0	5.852	-1	1807	45	0.7
41807.4	10000	41.8096	92.8928	-855	QL	2.5	0	7.5	0	1.2	0	0.334	0	2.145	0	6.429	0	1801	44	0.7
41807.3	10000	41.8096	92.8921	-855	QL	2.7	0	7.6	0	1.1	0	0.359	0	2.401	0	6.686	1	1797	52	0.7
41807.2	10000	41.8096	92.8913	-853	QL	2.6	0	7.6	1	1.1	-1	0.348	0	2.350	0	6.763	1	1801	47	0.7
41807.1	10000	41.8096	92.8905	-852	QL	2.6	0	7.6	1	1.1	-1	0.339	0	2.307	0	6.798	1	1811	40	0.7
41807.0	10000	41.8096	92.8898	-851	QL	2.8	1	7.5	0	1.1	-1	0.374	0	2.540	1	6.798	1	1819	52	0.7
41806.9	10000	41.8096	92.8890	-850	QL	2.9	1	7.6	1	1.2	0	0.377	0	2.495	1	6.612	1	1822	59	0.7
41806.8	10000	41.8096	92.8883	-848	QL	2.7	0	7.3	0	1.2	0	0.373	0	2.341	0	6.273	0	1801	42	0.7
41806.7	10000	41.8095	92.8875	-847	QL	2.8	0	7.2	0	1.2	0	0.381	0	2.320	0	6.098	0	1793	53	0.7
41806.6	10000	41.8095	92.8868	-846	QL	2.7	0	7.2	0	1.2	0	0.370	0	2.317	0	6.256	0	1781	51	0.7
41806.5	10000	41.8095	92.8860	-844	QL	2.7	0	7.3	0	1.2	0	0.369	0	2.224	0	6.019	0	1779	38	0.7
41806.4	10000	41.8095	92.8853	-843	QL	2.6	0	7.5	0	1.2	1	0.346	0	2.114	0	6.104	0	1777	42	0.7
41806.3	10000	41.8095	92.8845	-841	QL	2.3	-1	7.7	1	1.2	1	0.304	-1	1.900	-1	6.259	0	1768	37	0.7
41806.2	10000	41.8095	92.8837	-839	QL	2.5	0	7.6	1	1.2	0	0.322	-1	2.039	0	6.330	0	1766	46	0.7
41806.1	10000	41.8095	92.8830	-838	QL	2.5	0	7.5	0	1.2	0	0.339	0	2.162	0	6.372	0	1747	41	0.7
41806.0	10000	41.8095	92.8822	-835	QL	2.6	0	7.7	1	1.2	0	0.342	0	2.216	0	6.488	0	1752	34	0.7
41805.9	10000	41.8094	92.8815	-833	QL	2.6	0	7.7	1	1.2	0	0.338	0	2.147	0	6.359	0	1752	49	0.7
41805.8	10000	41.8094	92.8807	-832	QL	2.4	0	7.8	1	1.2	0	0.310	-1	2.071	0	6.679	1	1743	57	0.7
41805.7	10000	41.8094	92.8800	-831	QL	2.3	-1	7.7	1	1.1	-1	0.300	-1	2.021	0	6.736	1	1719	42	0.7
41805.6	10000	41.8094	92.8792	-830	QL	2.3	-1	7.8	1	1.1	-1	0.298	-1	2.027	0	6.810	1	1725	43	0.7
41805.5	10000	41.8094	92.8785	-828	QL	2.4	0	7.6	1	1.1	-1	0.320	-1	2.191	0	6.845	1	1719	43	0.7
41805.4	10000	41.8094	92.8777	-827	QL	2.5	0	8.1	1	1.1	-1	0.313	-1	2.338	0	7.470	2	1734	52	0.7
41805.3	10000	41.8094	92.8770	-825	QL	2.5	0	7.7	1	1.0	-1	0.322	-1	2.349	0	7.303	2	1721	38	0.7
41805.2	10000	41.8094	92.8762	-824	QL	2.6	0	7.7	1	1.0	0	0.343	0	2.595	1	7.569	2	1722	36	0.7
41805.1	10000	41.8093	92.8754	-822	QL	2.8	0	7.7	1	1.0	0	0.366	0	2.785	1	7.612	2	1727	46	0.7
41805.0	10000	41.8093	92.8747	-821	QL	2.5	0	7.2	1	1.0	0	0.451	1	3.114	1	6.903	1	1733	40	0.8
41804.9	10000	41.8093	92.8739	-820	QL	2.2	-1	6.9	0	1.0	0	0.459	1	3.103	1	6.759	1	1727	45	0.8
41804.8	10000	41.8093	92.8732	-818	QL	2.9	1	7.1	1	1.0	0	0.413	1	2.843	1	6.883	1	1727	38	0.8
41804.7	10000	41.8093	92.8724	-817	QL	2.7	0	6.8	1	1.1	0	0.401	1	2.547	1	6.359	1	1732	37	0.8
41804.6	10000	41.8093	92.8717	-816	QL	2.8	0	6.8	1	1.1	0	0.412	1	2.619	1	6.353	1	1737	44	0.8
41804.5	10000	41.8093	92.8709	-814	QL	2.8	0	6.8	1	1.1	0	0.415	1	2.564	1	6.175	1	1737	50	0.8
41804.4	10000	41.8093	92.8702	-813	QL	2.7	0	6.6	1	1.1	0	0.408	1	2.447	1	5.999	1	1745	50	0.8
41804.3	10000	41.8092	92.8694	-812	QL	2.5	0	7.2	1	1.1	0	0.347	1	2.239	1	6.458	1	1759	49	0.8
41804.2	10000	41.8092	92.8687	-812	QL	2.7	0	7.3	1	1.1	0	0.371	1	2.385	1	6.427	1	1757	39	0.8
41804.1	10000	41.8092	92.8679	-811	QL	3.0	1	7.4	1	1.2	0	0.400	1	2.557	1	6.399	1	1767	46	0.8
41804.0	10000	41.8092	92.8671	-810	QL	2.8	0	7.4	1	1.2	0	0.403	1	2.499	1	6.198	1	1781	37	0.8
41803.9	10000	41.8092	92.8664	-809	QL	2.8	0	7.4	1	1.2	0	0.384	1	2.359	1	6.137	1	1788	46	0.8
41803.8	10000	41.8092	92.8656	-808	QL	2.9	0	7.6	1	1.2	0	0.359	1	2.214	1	6.170	1	1803	37	0.8
41803.7	10000	41.8092	92.8649	-807	QL	2.9	0	7.5	1	1.2	0	0.386	1	2.388	1	6.195	1	1791	52	0.8
41803.6	10000	41.8092	92.8641	-805	QL	2.8	0	7.3	1	1.2	0	0.391	1	2.454	1	6.270	1	1768	45	0.8
41803.5	10000	41.8091	92.8634	-804	QL	2.6	0	7.2	1	1.2	0	0.380	1	2.347	1	6.183	1	1760	53	0.8
41803.4	10000	41.8091	92.8626	-803	QL	2.4	0	7.2	1	1.2	0	0.329	1	2.006	1	6.106	1	1741	57	0.8
41803.3	10000	41.8091	92.8618	-803	QL	2.3	-1	7.4	0	1.1	0	0.319	-1	2.066	0	6.480	0	1727	39	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41803.2	10000	41.8091	92.8611	-802	QL	2.6	0	7.3	0	1.1	-1	0.353	0	2.296	0	6.512	1	1724	52	0.8
41803.1	10000	41.8091	92.8603	-800	QL	2.4	0	6.9	-1	1.1	-1	0.351	0	2.235	0	6.370	0	1711	53	0.8
41803.0	10000	41.8091	92.8596	-799	QL	2.4	0	7.1	0	1.1	-1	0.336	0	2.176	0	6.483	0	1700	32	0.8
41802.9	10000	41.8091	92.8588	-798	QL	2.5	0	7.0	0	1.1	-1	0.351	0	2.280	0	6.502	1	1703	40	0.8
41802.8	10000	41.8091	92.8581	-797	QL	2.4	0	6.8	-1	1.0	-2	0.346	0	2.310	0	6.676	1	1689	40	0.8
41802.7	10000	41.8090	92.8573	-796	QL	2.3	-1	6.7	-1	1.0	-2	0.349	0	2.337	0	6.697	1	1680	48	0.8
41802.6	10000	41.8090	92.8566	-795	QL	2.4	0	6.4	-1	1.0	-1	0.372	0	2.303	0	6.197	0	1669	41	0.8
41802.5	10000	41.8090	92.8558	-794	QL	2.1	-1	6.3	-1	1.1	-1	0.335	0	2.007	0	6.000	0	1648	38	0.8
41802.4	10000	41.8090	92.8551	-792	QL	2.0	-1	6.5	-1	1.0	-1	0.313	-1	1.944	-1	6.208	0	1639	48	0.8
41802.3	10000	41.8090	92.8543	-790	QL	1.9	-2	6.2	-2	1.0	-1	0.297	-1	1.797	-1	6.046	0	1641	41	0.8
41802.2	10000	41.8090	92.8535	-788	QL	1.9	-2	6.6	-1	1.1	-1	0.287	-1	1.804	-1	6.285	0	1640	36	0.8
41802.1	10000	41.8090	92.8528	-786	QL	1.8	-2	6.7	-1	1.1	-1	0.273	-1	1.717	-1	6.296	0	1655	37	0.8
41802.0	10000	41.8089	92.8520	-784	QL	2.1	-1	6.8	-1	1.0	-2	0.314	-1	2.109	0	6.727	1	1681	45	0.8
41801.9	10000	41.8089	92.8513	-782	QL	2.2	-1	7.0	0	1.0	-2	0.319	-1	2.193	0	6.886	1	1695	42	0.8
41801.8	10000	41.8089	92.8505	-780	QL	2.4	0	7.2	0	1.0	-2	0.339	0	2.415	0	7.118	2	1698	42	0.8
41801.7	10000	41.8089	92.8498	-780	QL	2.7	0	7.1	0	1.0	-2	0.385	0	2.730	1	7.084	1	1708	38	0.8
41801.6	10000	41.8089	92.8490	-777	QL	2.7	0	7.0	0	1.0	-2	0.383	0	2.695	1	7.037	1	1718	53	0.8
41801.5	10000	41.8089	92.8483	-776	QL	2.8	0	6.9	-1	1.1	-1	0.400	1	2.595	1	6.494	0	1741	49	0.9
41801.4	10000	41.8089	92.8475	-774	QL	2.8	1	6.8	-1	1.1	-1	0.412	1	2.527	1	6.138	0	1748	47	0.9
41801.3	10000	41.8089	92.8468	-773	QL	2.6	0	6.8	-1	1.2	0	0.388	0	2.259	0	5.824	-1	1733	31	0.9
41801.2	10000	41.8089	92.8460	-771	QL	2.2	-1	7.1	0	1.2	0	0.305	-1	1.854	-1	6.087	0	1702	56	0.9
41801.1	10000	41.8088	92.8452	-771	QL	2.1	-1	7.0	0	1.2	0	0.292	-1	1.789	-1	6.120	0	1685	50	0.9
41801.0	10000	41.8088	92.8445	-770	QL	1.9	-2	6.8	-1	1.2	0	0.276	-1	1.622	-1	5.872	-1	1661	56	0.9
41800.9	10000	41.8088	92.8437	-768	QL	1.9	-2	7.0	0	1.2	0	0.269	-1	1.581	-1	5.886	-1	1646	29	0.9
41800.8	10000	41.8088	92.8430	-768	QAL	1.6	-1	6.9	0	1.1	0	0.239	-2	1.444	-2	6.043	0	1617	55	0.9
41800.7	10000	41.8088	92.8422	-769	QAL	1.6	-2	6.9	0	1.2	0	0.229	-2	1.377	-2	6.002	0	1618	51	0.9
41800.6	10000	41.8088	92.8415	-769	QAL	1.6	-2	6.7	0	1.2	0	0.238	-2	1.351	-2	5.676	-1	1635	51	0.9
41800.5	10000	41.8088	92.8407	-769	QAL	2.1	-1	6.9	0	1.2	0	0.307	-1	1.752	-1	5.713	-1	1691	43	0.9
41800.4	10000	41.8087	92.8400	-769	QL	2.3	-1	6.9	0	1.2	0	0.333	-1	1.927	-1	5.795	-1	1730	35	0.9
41800.3	10000	41.8087	92.8392	-768	QL	2.6	0	7.0	0	1.2	0	0.370	0	2.173	0	5.879	-1	1780	44	0.9
41800.2	10000	41.8087	92.8384	-768	QL	2.7	0	7.1	0	1.2	0	0.381	0	2.295	0	6.022	0	1813	42	0.9
41800.1	10000	41.8087	92.8377	-767	QL	2.8	1	7.5	1	1.2	0	0.381	0	2.373	0	6.236	0	1846	41	0.9
41800.0	10000	41.8087	92.8369	-767	QL	3.0	1	7.4	1	1.2	0	0.409	0	2.579	1	6.308	0	1854	42	0.9
41799.9	10000	41.8087	92.8362	-766	QL	3.1	1	7.8	1	1.1	-1	0.402	0	2.797	1	6.958	0	1861	44	0.9
41799.8	10000	41.8087	92.8354	-766	QL	3.1	1	7.6	1	1.1	-1	0.409	0	2.920	2	7.145	1	1846	34	0.9
41799.7	10000	41.8087	92.8347	-765	QL	2.9	1	7.6	1	1.1	-1	0.383	-1	2.642	1	6.892	1	1834	34	0.9
41799.6	10000	41.8086	92.8339	-765	QL	3.0	1	7.4	1	1.1	-1	0.401	-1	2.655	1	6.624	1	1820	36	0.9
41799.5	10000	41.8086	92.8332	-764	QL	3.1	1	7.3	1	1.1	-1	0.424	-1	2.712	1	6.402	1	1812	37	0.9
41799.4	10000	41.8086	92.8324	-764	QL	3.1	1	7.0	1	1.1	-1	0.435	-1	2.765	1	6.356	0	1801	45	0.9
41799.3	10000	41.8086	92.8316	-763	QL	3.2	1	7.4	1	1.1	-1	0.430	-1	2.900	2	6.745	1	1799	49	0.9
41799.2	10000	41.8086	92.8309	-763	QL	3.1	1	7.1	1	1.1	-1	0.436	-1	2.839	1	6.513	1	1800	45	0.9
41799.1	10000	41.8086	92.8301	-763	QL	3.1	1	7.0	1	1.1	-1	0.439	-1	2.756	1	6.283	1	1794	37	0.9
41799.0	10000	41.8086	92.8294	-762	QL	3.1	1	7.4	1	1.1	-1	0.412	-1	2.659	1	6.455	1	1812	52	0.9
41798.9	10000	41.8086	92.8286	-762	QL	2.8	1	7.6	1	1.1	-1	0.366	-1	2.542	1	6.943	1	1800	49	1.0
41798.8	10000	41.8085	92.8279	-761	QL	2.7	1	7.6	1	1.1	-1	0.357	-1	2.533	1	7.089	1	1791	45	1.0
41798.7	10000	41.8085	92.8271	-760	QL	2.8	1	7.6	1	1.1	-1	0.365	-1	2.517	1	6.887	1	1775	48	1.0
41798.6	10000	41.8085	92.8264	-759	QL	2.7	1	7.6	1	1.1	-1	0.368	-1	2.406	1	6.544	1	1771	47	1.0
41798.5	10000	41.8085	92.8256	-759	QL	2.7	1	7.6	1	1.1	-1	0.380	-1	2.465	1	6.492	1	1748	50	1.0
41798.4	10000	41.8085	92.8249	-759	QL	2.7	1	7.6	1	1.1	-1	0.384	-1	2.409	1	6.266	1	1744	51	1.0
41798.3	10000	41.8085	92.8241	-759	QL	2.8	1	7.6	1	1.1	-1	0.447	-1	2.562	1	5.728	-1	1722	47	1.0
41798.2	10000	41.8085	92.8233	-759	QL	2.8	1	7.6	1	1.1	-1	0.429	-1	2.499	1	5.829	-1	1731	54	1.0
41798.1	10000	41.8085	92.8226	-759	QL	2.7	0	6.6	-1	1.1	-1	0.406	1	2.425	0	5.966	0	1744	48	1.0

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41798.0	10000	41.8084	92.8218	-758	QL	2.8	0	6.7	-1	1.1	-1	0.413	1	2.531	1	6.132	0	1777	36	1.0
41797.9	10000	41.8084	92.8211	-758	QL	2.9	1	6.7	-1	1.1	-1	0.440	1	2.736	1	6.225	0	1790	43	1.0
41797.8	10000	41.8084	92.8203	-758	QL	3.1	1	6.7	-1	1.1	-1	0.459	1	2.808	1	6.124	0	1810	42	1.0
41797.7	10000	41.8084	92.8196	-758	QL	2.9	1	7.2	0	1.1	-1	0.405	1	2.717	1	6.702	1	1810	31	1.0
41797.6	10000	41.8084	92.8188	-759	QL	3.2	1	7.4	0	1.1	-1	0.424	1	2.959	2	6.986	1	1819	36	1.0
41797.5	10000	41.8084	92.8181	-759	QL	3.2	1	7.1	0	1.1	-1	0.448	1	3.008	2	6.708	1	1809	36	1.0
41797.4	10000	41.8084	92.8173	-760	QL	3.3	2	6.8	-1	1.1	-1	0.487	2	3.117	2	6.395	0	1809	50	1.0
41797.3	10000	41.8083	92.8165	-761	QL	3.4	2	6.7	-1	1.1	-1	0.509	2	3.159	2	6.209	0	1806	48	1.0
41797.2	10000	41.8083	92.8158	-762	QL	3.4	2	7.1	0	1.1	-1	0.471	2	3.011	2	6.390	0	1815	30	1.0
41797.1	10000	41.8083	92.8150	-762	QL	2.9	1	6.9	-1	1.1	0	0.426	1	2.580	1	6.058	0	1817	43	1.0
41797.0	10000	41.8083	92.8143	-763	QL	3.1	1	6.5	-1	1.2	0	0.473	2	2.621	1	5.472	-1	1835	39	1.0
41796.9	10000	41.8083	92.8135	-765	QL	2.7	0	6.7	-1	1.2	0	0.396	1	2.379	0	5.751	-1	1837	39	1.0
41796.8	10000	41.8083	92.8128	-765	QL	2.7	0	6.9	-1	1.2	0	0.390	1	2.290	0	5.869	-1	1851	43	1.1
41796.7	10000	41.8083	92.8120	-766	QL	2.6	0	7.1	0	1.1	0	0.365	0	2.255	0	6.172	0	1851	40	1.1
41796.6	10000	41.8083	92.8113	-767	QL	2.5	0	7.1	0	1.1	-1	0.347	0	2.239	0	6.444	0	1850	44	1.1
41796.5	10000	41.8083	92.8105	-767	QL	2.3	-1	6.9	-1	1.1	-1	0.329	0	2.040	0	6.204	0	1837	47	1.1
41796.4	10000	41.8082	92.8098	-767	QL	2.5	0	7.4	0	1.1	-1	0.337	0	2.270	0	6.740	1	1823	33	1.1
41796.3	10000	41.8082	92.8090	-768	QL	2.7	0	7.3	0	1.1	-1	0.371	0	2.570	1	6.926	1	1810	41	1.1
41796.2	10000	41.8082	92.8082	-769	QL	3.0	1	7.2	0	1.1	-1	0.419	1	2.755	1	6.568	1	1806	58	1.1
41796.1	10000	41.8082	92.8075	-769	QL	3.0	1	7.0	0	1.1	-1	0.423	1	2.780	1	6.568	1	1792	37	1.1
41796.0	10000	41.8082	92.8067	-770	QL	3.1	1	6.7	-1	1.1	-1	0.457	1	2.901	2	6.345	0	1782	26	1.1
41795.9	10000	41.8082	92.8060	-771	QL	3.2	1	6.7	-1	1.1	-1	0.481	2	3.040	2	6.316	0	1782	36	1.1
41795.8	10000	41.8082	92.8052	-771	QL	3.5	2	6.7	-1	1.0	-2	0.523	3	3.414	3	6.532	1	1789	47	1.1
41795.7	10000	41.8081	92.8045	-771	QL	3.6	2	6.4	-1	1.0	-2	0.554	3	3.531	3	6.369	0	1800	44	1.1
41795.6	10000	41.8081	92.8037	-772	QL	3.4	2	6.4	-1	1.0	-1	0.533	3	3.310	3	6.211	0	1814	38	1.1
41795.5	10000	41.8081	92.8030	-773	QL	3.3	2	6.7	-1	1.0	-1	0.489	2	3.158	2	6.456	0	1825	46	1.1
41795.4	10000	41.8081	92.8022	-773	QK	3.3	2	6.8	-1	1.1	0	0.487	2	3.086	2	6.341	0	1851	54	1.1
41795.3	10000	41.8081	92.8015	-774	QK	3.4	2	7.2	0	1.1	0	0.467	2	3.165	2	6.774	0	1872	47	1.1
41795.2	10000	41.8081	92.8007	-774	QK	3.0	1	7.7	1	1.1	0	0.386	1	2.606	2	6.749	0	1875	52	1.1
41795.1	10000	41.8081	92.7999	-774	QK	2.7	1	7.7	1	1.1	0	0.356	1	2.358	2	6.617	0	1885	32	1.1
41795.0	10000	41.8081	92.7992	-774	QK	2.8	1	8.0	1	1.1	0	0.348	1	2.253	2	6.469	0	1909	38	1.1
41794.9	10000	41.8080	92.7984	-774	QK	2.9	1	7.9	1	1.1	0	0.370	1	2.355	2	6.371	0	1922	51	1.1
41794.8	10000	41.8080	92.7977	-774	QK	2.9	1	8.1	1	1.1	0	0.372	1	2.356	2	6.341	0	1922	45	1.1
41794.7	10000	41.8080	92.7969	-775	QK	2.7	1	8.0	1	1.1	0	0.334	1	2.275	2	6.812	0	1923	49	1.1
41794.6	10000	41.8080	92.7962	-775	QK	3.0	1	8.1	1	1.1	0	0.309	1	2.106	2	6.818	0	1925	44	1.1
41794.5	10000	41.8080	92.7954	-775	QK	3.1	1	8.0	1	1.1	0	0.359	1	2.447	2	6.813	0	1924	49	1.1
41794.4	10000	41.8080	92.7946	-775	QK	3.1	1	8.0	1	1.1	0	0.350	1	2.451	2	6.999	1	1912	47	1.1
41794.3	10000	41.8080	92.7939	-775	QK	3.1	1	8.0	1	1.1	0	0.357	1	2.586	2	7.236	1	1891	52	1.1
41794.2	10000	41.8079	92.7931	-775	QK	3.0	1	8.0	1	1.1	0	0.346	1	2.574	2	7.439	1	1870	47	1.1
41794.1	10000	41.8079	92.7924	-774	QK	3.0	1	8.0	1	1.1	0	0.346	1	2.577	2	7.455	1	1866	39	1.1
41794.0	10000	41.8079	92.7916	-774	QK	3.2	1	8.0	1	1.1	0	0.354	1	2.700	2	7.620	1	1879	44	1.1
41793.9	10000	41.8079	92.7909	-774	QK	3.1	1	8.0	1	1.1	0	0.364	1	2.659	2	7.297	1	1878	49	1.1
41793.8	10000	41.8079	92.7901	-774	QK	2.9	1	8.0	1	1.1	0	0.338	1	2.405	2	7.114	1	1886	47	1.1
41793.7	10000	41.8079	92.7894	-773	QK	2.8	1	8.0	1	1.1	0	0.333	1	2.266	2	6.813	1	1901	46	1.1
41793.6	10000	41.8079	92.7886	-773	QK	2.8	1	7.9	1	1.1	0	0.340	1	2.292	2	6.738	1	1911	39	1.1
41793.5	10000	41.8079	92.7879	-772	QK	2.8	1	7.9	1	1.1	0	0.343	1	2.278	2	6.636	1	1912	62	1.1
41793.4	10000	41.8078	92.7871	-772	QK	2.8	1	7.9	1	1.1	0	0.372	1	2.494	2	6.707	1	1910	43	1.1
41793.3	10000	41.8078	92.7863	-771	QK	2.7	1	7.7	1	1.1	0	0.395	1	2.428	2	6.142	0	1888	52	1.1
41793.2	10000	41.8078	92.7856	-771	QK	2.6	1	7.6	1	1.1	0	0.386	1	2.306	2	5.972	-1	1860	43	1.1
41793.1	10000	41.8078	92.7848	-769	QK	2.6	1	7.5	1	1.1	0	0.421	1	2.413	2	5.730	-1	1827	49	1.1
41793.0	10000	41.8078	92.7841	-767	QK	2.6	1	7.1	0	1.1	0	0.424	1	2.511	2	5.929	-1	1775	38	1.1
41792.9	10000	41.8078	92.7833	-767	QK	2.6	1	6.6	-1	1.1	0	0.400	1	2.346	2	5.861	-1	1747	46	1.1

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41792.8	10000	41.8078	92.7826	-767	QK	2.8	1	6.7	-1	1.1	0	0.415	1	2.462	0	5.937	-1	1740	33	1.1
41792.7	10000	41.8079	92.7819	-768	QK	2.6	0	6.7	-1	1.2	1	0.390	1	2.210	0	5.667	-1	1742	38	1.1
41792.6	10000	41.8079	92.7811	-767	QK	2.6	0	6.9	0	1.2	1	0.375	0	2.193	0	5.853	-1	1734	49	1.1
41792.5	10000	41.8079	92.7804	-766	QK	2.7	0	7.1	0	1.2	1	0.380	0	2.239	0	5.898	-1	1758	41	1.1
41792.4	10000	41.8079	92.7796	-765	QK	2.6	0	7.5	0	1.2	1	0.344	0	2.108	0	6.123	-1	1784	45	1.1
41792.3	10000	41.8080	92.7789	-764	QK	2.5	0	7.3	0	1.3	1	0.346	0	2.003	-1	5.794	-1	1809	41	1.1
41792.2	10000	41.8080	92.7782	-764	QK	2.4	0	7.5	0	1.3	1	0.320	0	1.877	-1	5.872	-1	1832	58	1.1
41792.1	10000	41.8080	92.7774	-764	QK	2.2	-1	7.9	1	1.3	2	0.276	-1	1.671	-1	6.063	-1	1856	45	1.1
41792.0	10000	41.8080	92.7767	-763	QK	2.0	-1	8.0	1	1.3	1	0.255	-1	1.605	-1	6.299	0	1862	48	1.1
41791.9	10000	41.8081	92.7759	-762	QK	2.3	-1	8.0	1	1.3	1	0.282	-1	1.777	-1	6.309	0	1877	44	1.1
41791.8	10000	41.8081	92.7752	-761	QK	2.2	-1	8.0	1	1.2	1	0.277	-1	1.823	-1	6.591	0	1876	61	1.1
41791.7	10000	41.8081	92.7745	-760	QK	2.3	0	8.2	1	1.2	1	0.283	-1	1.948	-1	6.885	1	1883	44	1.1
41791.6	10000	41.3081	92.7737	-758	QK	2.5	0	8.5	2	1.1	0	0.293	-1	2.222	0	7.585	2	1899	46	1.1
41791.5	10000	41.8082	92.7730	-758	QK	2.7	0	7.2	1	1.1	0	0.335	0	2.498	0	7.455	1	1891	46	1.1
41791.4	10000	41.8082	92.7722	-756	QK	2.8	1	7.8	1	1.1	0	0.356	0	2.519	1	7.078	1	1877	43	1.1
41791.3	10000	41.8082	92.7715	-756	QK	2.9	1	7.6	1	1.1	0	0.377	0	2.573	1	6.825	0	1891	43	1.1
41791.2	10000	41.8082	92.7708	-754	QK	2.8	1	7.6	1	1.1	0	0.370	0	2.526	1	6.829	0	1887	50	1.1
41791.1	10000	41.8083	92.7700	-751	QK	2.9	1	7.7	1	1.1	0	0.384	0	2.669	1	6.956	1	1899	49	1.1
41791.0	10000	41.8083	92.7693	-751	QK	2.8	1	7.3	0	1.2	0	0.388	1	2.473	0	6.380	0	1883	35	1.1
41790.9	10000	41.8083	92.7685	-753	QK	2.8	1	7.1	0	1.2	1	0.397	1	2.356	0	5.928	-1	1873	48	1.1
41790.8	10000	41.8083	92.7678	-753	QK	2.8	1	7.3	0	1.2	1	0.379	0	2.328	0	6.140	0	1875	57	1.1
41790.7	10000	41.8083	92.7670	-753	QK	2.7	0	7.4	0	1.2	1	0.368	0	2.297	0	6.235	0	1866	49	1.1
41790.6	10000	41.8084	92.7663	-752	QK	2.8	1	7.8	1	1.2	0	0.360	0	2.409	0	6.686	0	1840	49	1.1
41790.5	10000	41.8084	92.7656	-752	QK	2.7	0	7.4	0	1.1	0	0.368	0	2.418	0	6.575	0	1817	36	1.1
41790.4	10000	41.8084	92.7648	-752	QK	2.6	0	7.3	0	1.2	0	0.354	0	2.219	0	6.261	0	1783	49	1.1
41790.3	10000	41.8084	92.7641	-752	QK	2.5	0	7.6	0	1.2	0	0.335	0	2.168	0	6.479	0	1786	41	1.1
41790.2	10000	41.8085	92.7634	-752	QK	2.4	0	7.9	1	1.2	0	0.307	-1	2.078	0	6.778	0	1792	41	1.1
41790.1	10000	41.8085	92.7626	-752	QK	2.2	-1	8.0	1	1.2	0	0.274	-1	1.849	-1	6.739	0	1788	40	1.1
41790.0	10000	41.8085	92.7619	-752	QK	2.4	0	8.3	1	1.1	0	0.293	-1	2.132	0	7.287	1	1787	57	1.1
41789.9	10000	41.8085	92.7611	-752	QK	2.4	0	8.2	1	1.2	0	0.291	-1	2.079	0	7.137	1	1809	40	1.1
41789.8	10000	41.8086	92.7604	-752	QK	2.3	0	8.4	1	1.2	0	0.277	-1	1.952	-1	7.054	1	1842	37	1.1
41789.7	10000	41.8086	92.7596	-753	QK	2.3	0	8.7	1	1.2	0	0.269	-1	1.989	-1	7.398	1	1862	43	1.1
41789.6	10000	41.8086	92.7589	-753	QK	2.4	0	8.6	1	1.1	0	0.275	-1	2.115	0	7.703	2	1861	55	1.0
41789.5	10000	41.8086	92.7582	-753	QK	2.4	0	8.6	1	1.1	0	0.280	-1	2.157	0	7.714	2	1862	41	1.0
41789.4	10000	41.8087	92.7574	-754	QK	2.7	0	8.4	1	1.1	0	0.324	0	2.548	0	7.865	2	1864	51	1.0
41789.3	10000	41.8087	92.7567	-754	QK	2.7	0	8.2	1	1.1	0	0.328	0	2.389	0	7.287	1	1869	45	1.0
41789.2	10000	41.8087	92.7560	-754	QK	2.6	0	7.9	1	1.1	0	0.331	0	2.320	0	7.009	1	1856	44	1.0
41789.1	10000	41.8087	92.7552	-754	QK	2.6	0	8.5	1	1.2	0	0.307	-1	2.223	0	7.251	1	1842	37	1.0
41789.0	10000	41.8088	92.7545	-754	QK	2.6	0	8.2	1	1.2	0	0.314	-1	2.250	0	7.171	1	1831	44	1.0
41788.9	10000	41.8088	92.7537	-755	QK	2.7	0	8.2	1	1.2	0	0.331	-1	2.291	0	6.915	1	1823	42	1.0
41788.8	10000	41.8088	92.7530	-755	QK	2.7	0	8.1	1	1.2	0	0.327	-1	2.229	0	6.818	1	1816	60	1.0
41788.7	10000	41.8088	92.7522	-755	QK	2.5	0	8.3	1	1.2	0	0.302	-1	2.042	0	6.761	1	1813	46	1.0
41788.6	10000	41.8089	92.7515	-755	QK	2.4	0	8.0	1	1.2	0	0.295	-1	2.103	0	7.134	1	1801	44	1.0
41788.5	10000	41.8089	92.7508	-755	QK	2.6	0	7.5	1	1.1	0	0.322	0	2.249	0	6.985	1	1781	43	1.0
41788.4	10000	41.8089	92.7500	-754	QK	2.7	0	7.4	1	1.1	0	0.365	0	2.440	0	6.686	1	1771	48	1.0
41788.3	10000	41.8089	92.7493	-754	QK	2.8	0	7.3	1	1.1	0	0.383	0	2.558	0	6.680	1	1770	45	1.0
41788.2	10000	41.8090	92.7485	-754	QK	2.6	0	7.2	1	1.1	0	0.366	0	2.553	1	6.971	1	1761	62	1.0
41788.1	10000	41.8090	92.7478	-753	QK	2.7	0	7.6	1	1.1	0	0.392	0	2.608	1	6.653	1	1760	34	1.0
41788.0	10000	41.8090	92.7471	-752	QK	2.8	0	7.6	1	1.1	0	0.418	0	2.680	1	6.417	1	1745	45	1.0
41787.9	10000	41.8090	92.7463	-751	QK	2.7	0	7.6	1	1.1	0	0.393	0	2.503	1	6.367	0	1735	48	1.0
41787.8	10000	41.8091	92.7456	-750	QK	2.5	-1	7.3	1	1.1	0	0.358	0	2.330	1	6.499	0	1742	57	1.0
41787.7	10000	41.8091	92.7448	-750	QK	2.4	0	7.3	1	1.1	0	0.329	0	2.140	0	6.514	0	1730	53	1.0

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41787.6	10000	41.8091	92.7441	-748	QK	2.1	-1	7.4	0	1.1	0	0.289	-1	1.905	-1	6.592	0	1710	49	0.9
41787.5	10000	41.8091	92.7434	-747	QK	2.2	-1	7.5	0	1.1	0	0.299	-1	1.962	-1	6.566	0	1702	47	0.9
41787.4	10000	41.8091	92.7426	-746	QK	2.2	-1	7.5	0	1.1	0	0.292	-1	1.940	-1	6.640	0	1681	34	0.9
41787.3	10000	41.8092	92.7419	-744	QK	2.1	-1	7.4	0	1.1	0	0.281	-1	1.845	-1	6.569	0	1675	50	0.9
41787.2	10000	41.8092	92.7411	-743	QK	2.0	-1	7.6	1	1.2	0	0.269	-1	1.771	-1	6.579	0	1672	40	0.9
41787.1	10000	41.8092	92.7404	-741	QK	2.1	-1	7.6	0	1.1	0	0.272	-1	1.860	-1	6.842	1	1663	51	0.9
41787.0	10000	41.8092	92.7397	-739	QK	2.3	-1	7.3	0	1.1	-1	0.311	-1	2.145	0	6.887	1	1657	48	0.9
41786.9	10000	41.8093	92.7389	-737	QK	2.4	0	7.0	0	1.1	-1	0.340	0	2.277	0	6.706	0	1658	44	0.9
41786.8	10000	41.8093	92.7382	-735	QK	2.3	-1	6.7	-1	1.0	-1	0.339	0	2.202	0	6.490	0	1647	44	0.9
41786.7	10000	41.8093	92.7374	-733	QK	2.2	-1	6.4	-1	1.0	-1	0.349	0	2.238	0	6.414	0	1654	44	0.9
41786.6	10000	41.8093	92.7367	-731	QK	2.3	0	7.0	0	1.0	-1	0.329	0	2.236	0	6.789	0	1668	49	0.9
41786.5	10000	41.8094	92.7359	-729	QK	2.2	-1	7.0	0	1.1	-1	0.321	0	2.140	0	6.668	0	1693	36	0.9
41786.4	10000	41.8094	92.7352	-726	QK	2.3	-1	7.0	0	1.1	0	0.321	0	2.063	0	6.428	0	1701	38	0.9
41786.3	10000	41.8094	92.7345	-723	QK	2.2	-1	7.1	0	1.2	1	0.314	-1	1.889	-1	6.010	-1	1729	44	0.9
41786.2	10000	41.8094	92.7337	-721	QK	2.3	0	7.0	0	1.2	1	0.328	0	1.906	-1	5.807	-1	1765	47	0.9
41786.1	10000	41.8095	92.7330	-718	QK	2.6	0	7.5	0	1.3	1	0.343	0	2.048	0	5.974	-1	1794	41	0.9
41786.0	10000	41.8095	92.7323	-715	QK	2.7	0	7.8	1	1.3	2	0.344	0	2.065	0	5.994	-1	1817	37	0.9
41785.9	10000	41.8095	92.7315	-713	QK	2.5	0	7.9	1	1.3	1	0.318	0	1.939	-1	6.099	-1	1810	42	0.9
41785.8	10000	41.8095	92.7308	-711	QK	2.8	1	7.3	0	1.2	1	0.380	0	2.229	0	5.869	-1	1790	39	0.9
41785.7	10000	41.8096	92.7300	-708	QK	2.7	0	7.2	0	1.2	1	0.380	0	2.250	0	5.924	-1	1789	40	0.9
41785.6	10000	41.8096	92.7293	-705	QK	2.6	0	7.4	0	1.2	0	0.354	0	2.267	0	6.399	0	1772	34	0.9
41785.5	10000	41.8096	92.7285	-703	QK	2.7	0	7.5	0	1.2	0	0.355	0	2.292	0	6.455	0	1739	58	0.9
41785.4	10000	41.8096	92.7278	-701	QK	2.6	0	7.1	0	1.2	0	0.368	0	2.270	0	6.163	0	1730	34	0.9
41785.3	10000	41.8096	92.7271	-698	QK	2.6	0	7.1	0	1.1	0	0.367	0	2.295	0	6.247	0	1721	51	0.9
41785.2	10000	41.8097	92.7263	-696	QK	2.9	1	6.3	-1	1.1	1	0.455	1	2.488	0	5.470	-1	1714	39	0.9
41785.1	10000	41.8097	92.7256	-693	QK	2.6	0	6.6	-1	1.2	1	0.400	1	2.188	0	5.476	-1	1728	49	0.9
41785.0	10000	41.8097	92.7249	-690	QK	2.9	1	6.8	-1	1.2	1	0.420	1	2.370	0	5.648	-1	1735	43	0.9
41784.9	10000	41.8097	92.7241	-688	QK	3.0	1	6.8	-1	1.2	1	0.441	1	2.521	1	5.716	-1	1743	55	0.9
41784.8	10000	41.8098	92.7234	-685	QK	2.8	1	7.1	0	1.2	1	0.395	1	2.272	0	5.754	-1	1776	35	0.9
41784.7	10000	41.8098	92.7226	-682	QK	2.7	1	7.3	0	1.2	1	0.365	1	2.079	0	5.703	-1	1796	42	0.9
41784.6	10000	41.8098	92.7219	-680	QK	2.7	1	7.5	0	1.2	1	0.362	1	2.143	0	5.928	-1	1800	47	0.9
41784.5	10000	41.8098	92.7211	-677	QK	2.8	1	7.9	1	1.2	1	0.351	1	2.269	0	6.462	0	1835	44	0.9
41784.4	10000	41.8099	92.7204	-674	QK	3.0	1	8.2	1	1.2	1	0.359	1	2.406	0	6.708	0	1843	40	0.9
41784.3	10000	41.8099	92.7197	-671	QK	2.7	1	8.3	1	1.2	1	0.320	1	2.158	0	6.749	0	1842	43	0.9
41784.2	10000	41.8099	92.7189	-669	QK	2.6	1	8.0	1	1.2	1	0.321	1	2.054	0	6.400	0	1857	45	0.9
41784.1	10000	41.8099	92.7182	-666	QK	2.8	1	8.3	1	1.2	1	0.350	1	2.330	0	6.659	1	1852	54	0.9
41784.0	10000	41.8100	92.7174	-663	QK	3.0	1	8.3	1	1.2	1	0.364	1	2.597	1	7.132	1	1839	38	0.9
41783.9	10000	41.8100	92.7167	-661	QK	3.0	1	8.3	1	1.2	1	0.369	1	2.604	1	7.064	1	1844	35	0.9
41783.8	10000	41.8100	92.7160	-658	QK	2.8	1	8.0	1	1.2	1	0.360	1	2.547	1	7.070	1	1841	48	0.9
41783.7	10000	41.8100	92.7152	-656	QK	2.8	1	7.8	1	1.2	1	0.360	1	2.361	1	6.555	0	1838	47	0.9
41783.6	10000	41.8101	92.7145	-653	QK	2.9	1	7.7	1	1.2	1	0.380	1	2.428	1	6.384	0	1849	42	0.9
41783.5	10000	41.8101	92.7137	-651	QK	3.1	1	7.6	1	1.2	1	0.405	1	2.579	1	6.373	0	1836	38	0.9
41783.4	10000	41.8101	92.7130	-649	QK	3.0	1	7.5	1	1.2	1	0.403	1	2.578	1	6.397	0	1821	52	0.9
41783.3	10000	41.8101	92.7123	-646	QK	3.0	1	7.4	1	1.2	1	0.404	1	2.584	1	6.393	0	1799	46	0.9
41783.2	10000	41.8102	92.7115	-644	QK	3.0	1	7.2	1	1.2	1	0.413	1	2.476	1	5.998	-1	1778	46	0.9
41783.1	10000	41.8102	92.7108	-641	QK	2.8	1	7.0	1	1.2	1	0.398	1	2.323	1	5.836	-1	1770	40	0.9
41783.0	10000	41.8102	92.7100	-638	QK	2.6	1	7.2	1	1.1	1	0.351	1	2.345	1	6.681	0	1755	46	0.9
41782.9	10000	41.8102	92.7093	-636	QK	2.7	1	7.3	1	1.1	1	0.371	1	2.449	1	6.609	0	1725	47	0.9
41782.8	10000	41.8102	92.7086	-633	QK	2.8	1	7.0	1	1.2	1	0.389	1	2.550	1	6.562	0	1724	39	0.9
41782.7	10000	41.8103	92.7078	-632	QK	3.0	1	7.1	1	1.2	1	0.423	1	2.575	1	6.092	-1	1718	44	0.9
41782.6	10000	41.8103	92.7071	-631	QK	2.8	1	6.8	1	1.2	1	0.413	1	2.400	1	5.809	-1	1723	42	0.9
41782.5	10000	41.8103	92.7063	-629	QK	2.9	1	6.8	-1	1.2	0	0.431	1	2.534	1	5.885	-1	1721	42	0.9

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FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41782.4	10000	41.8103	92.7056	-627	QK	.2	1	6.9	0	1.2	0	0.469	2	2.801	1	5.973	-1	1728	47	0.9
41782.3	10000	41.8104	92.7049	-625	QK	.4	2	6.5	-1	1.2	0	0.514	2	2.857	1	5.564	-1	1752	49	0.9
41782.2	10000	41.8104	92.7041	-622	QK	.4	2	7.0	0	1.2	0	0.496	2	2.984	2	6.022	-1	1785	34	0.9
41782.1	10000	41.8104	92.7034	-620	QK	.0	1	7.3	0	1.2	1	0.411	1	2.513	1	6.122	-1	1813	34	0.9
41782.0	10000	41.8104	92.7026	-618	QK	.9	1	7.3	0	1.2	0	0.394	1	2.473	0	6.280	0	1836	40	0.9
41781.9	10000	41.8105	92.7019	-615	QK	.0	1	7.4	0	1.2	1	0.408	1	2.551	1	6.255	0	1865	44	0.9
41781.8	10000	41.8105	92.7012	-613	QK	.0	1	7.6	1	1.2	1	0.401	1	2.547	1	6.351	0	1886	48	0.9
41781.7	10000	41.8105	92.7004	-610	QK	.0	1	7.6	1	1.2	1	0.398	1	2.469	0	6.205	0	1899	45	0.9
41781.6	10000	41.8105	92.6997	-608	QK	.2	1	7.6	1	1.2	1	0.417	1	2.587	1	6.199	0	1906	54	0.9
41781.5	10000	41.8106	92.6989	-605	QK	.5	2	7.4	0	1.2	1	0.474	2	2.813	1	5.931	-1	1905	54	0.9
41781.4	10000	41.8106	92.6982	-603	QK	.6	2	6.9	0	1.2	1	0.519	2	2.940	1	5.662	-1	1896	41	0.9
41781.3	10000	41.8106	92.6974	-600	QK	.5	2	7.2	0	1.3	1	0.488	2	2.766	1	5.673	-1	1896	55	0.9
41781.2	10000	41.8106	92.6967	-598	QK	.4	2	7.2	0	1.2	1	0.469	2	2.724	1	5.810	-1	1894	44	0.9
41781.1	10000	41.8106	92.6960	-595	QK	.2	1	7.4	0	1.2	1	0.438	1	2.682	1	6.130	-1	1891	39	0.9
41781.0	10000	41.8107	92.6952	-592	QK	.1	1	7.4	0	1.2	0	0.426	1	2.676	1	6.285	0	1879	48	0.9
41780.9	10000	41.8107	92.6945	-589	QK	.0	1	7.3	0	1.2	1	0.409	1	2.422	0	5.923	-1	1873	43	0.9
41780.8	10000	41.8107	92.6938	-586	QK	.5	0	7.4	0	1.3	1	0.338	1	1.948	-1	5.755	-1	1869	40	0.9
41780.7	10000	41.8107	92.6930	-583	QK	.4	0	7.3	0	1.3	1	0.326	1	1.878	-1	5.761	-1	1852	48	0.9
41780.6	10000	41.8108	92.6923	-581	QK	.3	0	7.2	0	1.3	1	0.327	1	1.873	-1	5.725	-1	1837	49	0.9
41780.5	10000	41.8108	92.6915	-578	QK	.4	0	7.0	0	1.3	1	0.338	1	1.919	-1	5.683	-1	1816	48	0.9
41780.4	10000	41.8108	92.6908	-575	QK	.4	0	7.1	0	1.3	1	0.333	1	1.825	-1	5.475	-1	1812	58	0.9
41780.3	10000	41.8108	92.6900	-571	QK	.3	-1	7.1	0	1.3	2	0.320	0	1.695	-1	5.302	-2	1800	42	0.9
41780.2	10000	41.8109	92.6893	-568	QK	.2	-1	6.9	0	1.3	1	0.324	0	1.745	-1	5.387	-2	1799	41	0.9
41780.1	10000	41.8109	92.6886	-565	QK	.1	-1	6.8	-1	1.3	1	0.304	-1	1.640	-1	5.390	-2	1783	67	0.9
41780.0	10000	41.8109	92.6878	-562	QK	.1	-1	7.3	0	1.2	1	0.289	-1	1.726	-1	5.964	-1	1794	38	0.9
41779.9	10000	41.8108	92.6871	-558	QK	.1	-1	7.4	0	1.2	1	0.280	-1	1.695	-1	6.059	-1	1790	50	0.9
41779.8	10000	41.8108	92.6863	-555	QK	.1	-1	7.3	0	1.2	1	0.283	-1	1.680	-1	5.934	-1	1806	48	0.9
41779.7	10000	41.8108	92.6855	-552	QK	.0	-1	7.4	0	1.2	1	0.272	-1	1.668	-1	6.129	-1	1808	29	0.9
41779.6	10000	41.8108	92.6848	-548	QK	.1	-1	7.5	0	1.2	1	0.274	-1	1.722	-1	6.278	0	1816	40	0.9
41779.5	10000	41.8108	92.6840	-545	QK	.1	-1	7.8	0	1.2	1	0.272	-1	1.808	-1	6.654	0	1814	57	0.9
41779.4	10000	41.8107	92.6833	-542	QK	.4	-1	7.9	0	1.2	1	0.301	-1	2.061	-1	6.851	1	1823	51	0.9
41779.3	10000	41.8107	92.6825	-538	QK	.9	-1	7.5	0	1.2	1	0.326	0	2.106	0	6.453	0	1818	48	0.9
41779.2	10000	41.8107	92.6817	-535	QK	.1	-1	7.3	0	1.2	1	0.390	0	2.451	0	6.286	0	1831	44	0.9
41779.1	10000	41.8107	92.6810	-532	QK	.2	-1	7.6	0	1.2	1	0.405	1	2.648	0	6.541	0	1830	54	0.9
41779.0	10000	41.8107	92.6802	-528	QK	.1	-1	7.7	0	1.2	1	0.418	1	2.778	1	6.650	1	1831	39	0.9
41778.9	10000	41.8106	92.6795	-525	QK	.0	-1	7.4	0	1.2	1	0.416	1	2.686	1	6.419	1	1826	47	0.9
41778.8	10000	41.8106	92.6787	-521	QK	.0	-1	7.3	0	1.2	1	0.423	1	2.629	1	6.318	0	1820	48	0.9
41778.7	10000	41.8106	92.6779	-519	QK	.0	-1	7.1	0	1.2	1	0.423	1	2.581	1	6.107	-1	1812	49	0.9
41778.6	10000	41.8106	92.6772	-516	QK	.0	-1	7.1	0	1.2	1	0.384	1	2.601	1	6.144	0	1797	45	0.9
41778.5	10000	41.8106	92.6764	-513	QK	.0	-1	7.1	0	1.2	1	0.346	0	2.363	0	6.148	0	1775	52	0.9
41778.4	10000	41.8105	92.6757	-511	QK	.3	-1	6.7	0	1.2	1	0.317	0	2.034	0	5.884	-1	1761	33	0.9
41778.3	10000	41.8105	92.6749	-509	QK	.1	-1	6.5	0	1.2	1	0.305	-1	1.786	-1	5.642	-1	1744	52	0.9
41778.2	10000	41.8105	92.6741	-506	QK	.0	-1	6.5	0	1.2	1	0.320	0	1.727	-1	5.658	-1	1729	39	0.9
41778.1	10000	41.8105	92.6734	-504	QK	.1	-1	6.6	0	1.2	1	0.343	0	1.781	-1	5.558	-1	1726	45	0.9
41778.0	10000	41.8104	92.6726	-503	QK	.3	-1	6.6	0	1.2	1	0.352	0	1.958	-1	5.709	-1	1731	50	0.9
41777.9	10000	41.8104	92.6719	-501	QK	.4	-1	6.7	0	1.2	1	0.340	0	1.992	-1	5.663	-1	1743	47	0.9
41777.8	10000	41.8104	92.6711	-499	QK	.5	-1	7.0	0	1.2	1	0.354	0	1.948	-1	5.732	-1	1748	41	0.9
41777.7	10000	41.8104	92.6704	-499	QK	.6	-1	6.8	0	1.2	1	0.397	-1	2.017	-1	5.690	-1	1753	50	0.9
41777.6	10000	41.8104	92.6696	-498	QK	.8	-1	6.8	0	1.2	1	0.405	-1	2.167	-1	5.461	-1	1757	48	0.9
41777.5	10000	41.8103	92.6688	-497	QK	.8	-1	6.8	0	1.2	1	0.397	-1	2.335	-1	5.768	-1	1764	56	0.9
41777.4	10000	41.8103	92.6681	-497	QK	.8	-1	6.8	0	1.2	1	0.359	-1	2.382	-1	6.002	-1	1769	45	0.9
41777.3	10000	41.8103	92.6673	-497	QK	.6	-1	7.3	0	1.2	1	0.359	0	2.191	0	6.103	-1	1779	34	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41777.2	10000	41.8103	92.6666	-497	QK	2.5	0	7.3	0	1.2	1	0.336	0	2.056	0	6.122	-1	1791	36	0.8
41777.1	10000	41.8102	92.6658	-497	QK	2.5	0	7.7	1	1.2	0	0.324	0	2.118	0	6.542	0	1816	50	0.8
41777.0	10000	41.8102	92.6651	-498	QK	2.6	0	7.7	1	1.2	0	0.338	0	2.264	0	6.689	0	1837	37	0.8
41776.9	10000	41.8102	92.6643	-499	QK	2.7	0	7.9	1	1.2	0	0.347	0	2.374	0	6.850	1	1858	49	0.7
41776.8	10000	41.8102	92.6635	-501	QK	2.9	1	7.9	1	1.2	1	0.371	0	2.489	0	6.706	0	1874	36	0.7
41776.7	10000	41.8102	92.6628	-502	QK	3.0	1	7.6	1	1.2	1	0.387	0	2.408	0	6.220	0	1878	46	0.7
41776.6	10000	41.8102	92.6620	-504	QK	3.2	1	7.4	0	1.2	1	0.428	1	2.544	1	5.939	-1	1881	49	0.7
41776.5	10000	41.8101	92.6613	-506	QK	3.2	1	7.1	0	1.2	1	0.455	1	2.675	1	5.874	-1	1883	45	0.7
41776.4	10000	41.8101	92.6605	-508	QK	3.1	1	6.9	0	1.2	0	0.452	1	2.657	1	5.874	-1	1872	46	0.7
41776.3	10000	41.8101	92.6597	-510	QK	3.2	1	7.1	0	1.2	1	0.446	1	2.660	1	5.968	-1	1861	27	0.7
41776.2	10000	41.8101	92.6590	-512	QK	3.1	1	7.2	0	1.2	1	0.438	1	2.582	1	5.896	-1	1840	46	0.7
41776.1	10000	41.8100	92.6582	-514	QK	3.1	1	7.0	0	1.2	1	0.450	1	2.602	1	5.787	-1	1822	61	0.7
41776.0	10000	41.8100	92.6575	-517	QK	3.3	2	7.1	0	1.2	0	0.463	2	2.828	1	6.102	-1	1821	36	0.7
41775.9	10000	41.8100	92.6567	-520	QK	3.1	1	6.9	0	1.1	0	0.451	1	2.775	1	6.157	0	1814	39	0.7
41775.8	10000	41.8100	92.6559	-523	QK	3.2	1	7.3	0	1.2	0	0.439	1	2.755	1	6.280	0	1814	56	0.7
41775.7	10000	41.8100	92.6552	-526	QK	3.5	2	6.9	0	1.2	0	0.511	2	3.022	2	5.918	-1	1816	36	0.7
41775.6	10000	41.8099	92.6544	-529	QK	3.4	2	7.0	0	1.1	0	0.487	2	2.981	2	6.126	-1	1803	46	0.7
41775.5	10000	41.8099	92.6537	-532	QK	3.3	2	7.3	0	1.1	0	0.451	1	2.957	1	6.553	0	1815	48	0.7
41775.4	10000	41.8099	92.6529	-534	QK	3.0	1	7.4	0	1.1	0	0.402	1	2.684	1	6.684	0	1815	62	0.6
41775.3	10000	41.8099	92.6522	-533	QK	2.8	1	7.6	1	1.1	0	0.375	0	2.606	1	6.949	1	1805	45	0.6
41775.2	10000	41.8099	92.6514	-531	QK	2.8	1	7.8	1	1.1	0	0.363	0	2.659	1	7.329	1	1789	45	0.6
41775.1	10000	41.8098	92.6506	-539	QK	3.0	1	7.8	1	1.0	-1	0.393	1	2.932	1	7.457	1	1782	58	0.6
41775.0	10000	41.8098	92.6499	-548	QK	2.8	1	8.0	1	1.0	-1	0.346	0	2.678	1	7.738	2	1774	49	0.6
41774.9	10000	41.8098	92.6491	-553	QK	2.9	1	8.2	1	1.0	-1	0.354	0	2.815	1	7.956	2	1787	48	0.6
41774.8	10000	41.8098	92.6484	-558	QK	2.9	1	8.0	1	1.1	-1	0.356	0	2.720	1	7.644	2	1778	38	0.6
41774.7	10000	41.8097	92.6476	-562	QK	3.0	1	7.9	1	1.1	0	0.373	1	2.761	1	7.412	1	1786	51	0.6
41774.6	10000	41.8097	92.6468	-565	QK	3.0	1	7.7	1	1.1	0	0.389	1	2.788	1	7.174	1	1791	34	0.6
41774.5	10000	41.8097	92.6461	-568	QK	2.8	1	8.0	1	1.2	0	0.357	0	2.472	1	6.925	1	1810	47	0.6
41774.4	10000	41.8097	92.6453	-572	QK	2.6	1	8.1	1	1.2	0	0.319	0	2.227	1	6.971	1	1815	48	0.6
41774.3	10000	41.8097	92.6446	-574	QK	2.7	1	8.1	1	1.2	0	0.340	0	2.350	1	6.913	1	1824	36	0.6
41774.2	10000	41.8096	92.6438	-577	QK	2.5	1	7.7	1	1.2	0	0.327	0	2.089	1	6.393	1	1830	38	0.6
41774.1	10000	41.8096	92.6431	-580	QK	2.7	1	7.5	1	1.2	0	0.357	0	2.194	1	6.150	0	1842	41	0.6
41774.0	10000	41.8096	92.6423	-582	QK	2.8	1	7.7	1	1.3	0	0.365	0	2.228	1	6.102	-1	1848	42	0.6
41773.9	10000	41.8096	92.6415	-585	QK	2.6	1	7.6	1	1.3	0	0.336	-1	1.969	1	5.858	-1	1859	46	0.6
41773.8	10000	41.8096	92.6408	-588	QK	2.6	1	7.5	1	1.3	0	0.344	-1	2.027	1	5.896	-1	1863	50	0.6
41773.7	10000	41.8095	92.6400	-591	QK	2.7	1	7.2	1	1.3	0	0.375	0	2.067	1	5.512	-1	1857	30	0.6
41773.6	10000	41.8095	92.6393	-593	QK	2.5	1	7.2	1	1.3	0	0.343	-1	1.885	1	5.496	-1	1864	36	0.6
41773.5	10000	41.8095	92.6385	-595	QK	2.8	1	7.4	1	1.3	0	0.371	0	2.064	1	5.563	-1	1868	40	0.6
41773.4	10000	41.8095	92.6377	-597	QK	2.7	1	7.5	1	1.3	0	0.365	0	2.119	1	5.813	-1	1866	32	0.6
41773.3	10000	41.8095	92.6370	-599	QK	2.9	1	7.7	1	1.2	0	0.374	0	2.373	1	6.348	0	1859	49	0.6
41773.2	10000	41.8094	92.6362	-602	QK	3.2	1	7.7	1	1.2	0	0.410	1	2.651	1	6.465	0	1859	41	0.6
41773.1	10000	41.8094	92.6355	-603	QK	3.2	1	7.6	1	1.2	0	0.418	1	2.682	1	6.413	0	1863	46	0.6
41773.0	10000	41.8094	92.6347	-606	QK	3.1	1	7.9	1	1.2	0	0.385	1	2.580	1	6.700	0	1863	36	0.6
41772.9	10000	41.8094	92.6339	-608	QK	3.3	2	7.8	1	1.2	0	0.428	1	2.880	1	6.723	0	1856	41	0.6
41772.8	10000	41.8093	92.6332	-610	QK	3.4	2	7.7	1	1.2	0	0.437	1	2.881	1	6.584	0	1851	47	0.6
41772.7	10000	41.8093	92.6324	-612	QK	3.3	2	7.6	1	1.2	0	0.435	1	2.841	1	6.534	0	1846	43	0.6
41772.6	10000	41.8093	92.6317	-608	QK	3.1	2	7.5	1	1.2	0	0.417	1	2.657	1	6.380	0	1847	38	0.6
41772.5	10000	41.8093	92.6309	-615	QK	3.2	1	7.6	1	1.2	0	0.422	1	2.729	1	6.466	0	1829	42	0.6
41772.4	10000	41.8093	92.6302	-617	QK	3.3	2	7.5	1	1.2	0	0.436	1	2.743	1	6.284	0	1815	39	0.6
41772.3	10000	41.8092	92.6294	-618	QK	3.3	2	7.7	1	1.2	0	0.433	1	2.851	1	6.577	0	1806	54	0.6
41772.2	10000	41.8092	92.6286	-620	QK	3.2	1	7.9	1	1.2	0	0.402	1	2.663	1	6.629	0	1797	50	0.6
41772.1	10000	41.8092	92.6279	-622	QK	2.8	1	8.0	1	1.1	0	0.350	0	2.440	0	6.968	1	1762	37	0.6

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41772.0	10000	41.8092	92.6271	-624	QK	2.7	0	8.2	1	1.2	0	0.336	0	2.379	0	7.077	1	1747	48	0.6
41771.9	10000	41.8092	92.6264	-626	QK	2.7	0	7.7	1	1.2	1	0.346	0	2.234	0	6.455	1	1745	37	0.6
41771.8	10000	41.8091	92.6256	-631	QK	2.5	0	7.8	1	1.2	1	0.325	0	2.131	0	6.553	0	1754	48	0.6
41771.7	10000	41.8091	92.6248	-627	QK	2.5	0	8.1	1	1.2	1	0.308	-1	2.032	0	6.607	0	1759	37	0.6
41771.6	10000	41.8091	92.6241	-627	QK	2.2	-1	7.8	1	1.2	1	0.287	-1	1.842	-1	6.426	0	1767	51	0.6
41771.5	10000	41.8091	92.6233	-628	QK	2.3	0	7.5	1	1.3	1	0.307	-1	1.776	-1	5.784	-1	1784	48	0.6
41771.4	10000	41.8090	92.6226	-630	QK	2.5	0	7.1	0	1.3	2	0.351	1	1.911	-1	5.442	-1	1795	45	0.6
41771.3	10000	41.8090	92.6218	-631	QK	2.5	0	7.4	0	1.3	1	0.337	0	1.971	-1	5.844	-1	1778	44	0.7
41771.2	10000	41.8090	92.6210	-632	QK	2.4	0	7.5	0	1.3	1	0.323	0	1.927	-1	5.966	-1	1747	38	0.7
41771.1	10000	41.8090	92.6203	-633	QK	2.4	0	7.2	0	1.2	1	0.333	0	1.944	-1	5.829	-1	1726	45	0.7
41771.0	10000	41.8090	92.6195	-633	QK	2.6	0	7.1	0	1.2	1	0.367	0	2.145	0	5.836	-1	1721	48	0.7
41770.9	10000	41.8089	92.6188	-634	QK	2.8	0	7.1	0	1.2	1	0.387	0	2.262	0	5.844	-1	1723	44	0.7
41770.8	10000	41.8089	92.6180	-636	QK	2.6	0	7.7	0	1.2	0	0.337	0	2.208	0	6.543	0	1720	46	0.7
41770.7	10000	41.8089	92.6173	-637	QK	2.6	0	7.7	0	1.2	1	0.341	0	2.219	0	6.499	0	1739	56	0.7
41770.6	10000	41.8089	92.6165	-638	QK	2.5	0	7.3	0	1.2	1	0.343	0	2.009	-1	5.864	-1	1757	41	0.7
41770.5	10000	41.8089	92.6157	-639	QK	2.5	0	7.4	0	1.2	1	0.336	0	2.067	0	6.148	0	1772	39	0.7
41770.4	10000	41.8088	92.6150	-640	QK	2.4	0	8.1	1	1.2	1	0.294	-1	1.981	-1	6.730	0	1777	40	0.7
41770.3	10000	41.8088	92.6142	-642	QK	2.3	0	8.1	1	1.2	1	0.285	-1	1.894	-1	6.637	0	1766	46	0.7
41770.2	10000	41.8088	92.6135	-645	QK	2.3	-1	8.1	1	1.2	1	0.280	-1	1.874	-1	6.691	0	1754	40	0.7
41770.1	10000	41.8088	92.6127	-647	QK	2.4	0	7.6	1	1.2	1	0.310	-1	1.968	-1	6.355	0	1736	43	0.7
41770.0	10000	41.8087	92.6120	-654	QK	2.1	-1	7.8	1	1.1	0	0.270	-1	1.835	-1	6.807	0	1710	37	0.7
41769.9	10000	41.8087	92.6112	-649	QK	2.4	0	7.9	1	1.2	0	0.299	-1	2.046	0	6.852	1	1724	46	0.7
41769.8	10000	41.8087	92.6104	-651	QK	2.4	0	8.0	1	1.1	0	0.303	-1	2.170	0	7.158	1	1731	45	0.7
41769.7	10000	41.8087	92.6097	-655	QK	2.4	0	7.5	0	1.1	0	0.322	0	2.101	0	6.527	0	1710	52	0.7
41769.6	10000	41.8087	92.6089	-654	QK	2.3	0	7.6	0	1.1	0	0.307	-1	2.106	0	6.850	1	1698	50	0.7
41769.5	10000	41.8086	92.6082	-655	QK	2.2	-1	7.6	0	1.1	0	0.291	-1	1.992	-1	6.858	1	1679	57	0.7
41769.4	10000	41.8086	92.6074	-656	QK	2.1	-1	7.6	0	1.1	0	0.283	-1	1.971	-1	6.968	1	1649	53	0.7
41769.3	10000	41.8086	92.6066	-658	QK	2.3	0	7.3	0	1.1	0	0.317	0	2.126	0	6.715	0	1627	44	0.8
41769.2	10000	41.8086	92.6059	-659	QK	2.3	0	6.7	-1	1.0	-1	0.339	0	2.216	0	6.538	0	1594	49	0.8
41769.1	10000	41.8086	92.6051	-660	QK	2.3	0	6.3	-1	1.0	-1	0.364	0	2.209	0	6.064	-1	1589	58	0.8
41769.0	10000	41.8085	92.6044	-661	QK	2.2	-1	6.6	-1	1.1	0	0.338	0	2.082	0	6.153	0	1613	47	0.8
41768.9	10000	41.8085	92.6036	-661	QK	2.2	-1	6.5	-1	1.1	-1	0.338	0	2.077	0	6.149	0	1630	47	0.8
41768.8	10000	41.8085	92.6028	-663	QK	2.5	0	6.2	-1	1.1	0	0.398	1	2.274	0	5.718	-1	1658	43	0.8
41768.7	10000	41.8085	92.6021	-664	QK	2.5	0	6.4	-1	1.1	0	0.384	0	2.230	0	5.809	-1	1708	43	0.8
41768.6	10000	41.8084	92.6013	-665	QK	2.6	0	6.8	-1	1.1	0	0.386	0	2.342	0	6.066	-1	1756	40	0.8
41768.5	10000	41.8084	92.6006	-666	QK	2.6	0	7.2	0	1.1	0	0.356	0	2.252	0	6.322	0	1780	47	0.8
41768.4	10000	41.8084	92.5998	-667	QK	2.6	0	7.4	0	1.2	0	0.344	0	2.131	0	6.196	0	1803	46	0.8
41768.3	10000	41.8084	92.5990	-668	QK	2.8	1	7.4	0	1.2	1	0.382	0	2.412	0	6.310	0	1827	53	0.8
41768.2	10000	41.8084	92.5983	-669	QK	2.8	1	7.7	1	1.2	1	0.361	0	2.304	0	6.381	0	1848	39	0.8
41768.1	10000	41.8083	92.5975	-670	QK	2.7	0	8.0	1	1.2	1	0.342	0	2.225	0	6.509	0	1860	41	0.8
41768.0	10000	41.8083	92.5968	-669	QK	2.5	0	7.7	1	1.2	1	0.323	0	2.059	0	6.377	0	1844	47	0.8
41767.9	10000	41.8083	92.5960	-670	QK	2.4	0	8.0	1	1.3	1	0.294	-1	1.853	-1	6.295	0	1845	46	0.8
41767.8	10000	41.8083	92.5953	-671	QK	2.4	0	8.1	1	1.3	1	0.299	-1	1.877	-1	6.282	0	1860	60	0.8
41767.7	10000	41.8082	92.5945	-672	QK	2.3	0	8.5	2	1.2	1	0.274	-1	1.877	-1	6.849	1	1854	40	0.8
41767.6	10000	41.8082	92.5937	-673	QK	2.3	-1	8.6	2	1.2	1	0.262	-1	1.864	-1	7.126	1	1843	50	0.8
41767.5	10000	41.8082	92.5930	-672	QK	2.4	0	8.3	1	1.2	1	0.288	-1	2.039	-1	7.075	1	1825	44	0.8
41767.4	10000	41.8082	92.5922	-674	QK	2.3	0	8.2	1	1.1	1	0.281	-1	2.083	-1	7.421	1	1815	35	0.8
41767.3	10000	41.8082	92.5915	-674	QK	2.6	0	8.5	2	1.1	0	0.307	-1	2.456	0	8.010	2	1808	47	0.8
41767.2	10000	41.8081	92.5907	-673	QK	2.7	0	8.2	1	1.0	0	0.333	-1	2.698	0	8.090	2	1798	45	0.8
41767.1	10000	41.8081	92.5900	-676	QK	2.7	0	8.3	2	1.0	0	0.321	-1	2.729	1	8.490	3	1778	39	0.8
41767.0	10000	41.8081	92.5892	-670	QK	2.8	1	8.1	1	1.0	0	0.346	-1	2.926	1	8.462	3	1766	42	0.8
41766.9	10000	41.8081	92.5884	-675	QK	2.8	1	7.9	1	1.0	0	0.356	-1	2.900	1	8.157	2	1756	44	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41766.8	10000	41.8081	92.5877	-678	QK	2.7	0	7.6	1	1.0	-1	0.356	0	2.768	1	7.775	2	1753	46	0.8
41766.7	10000	41.8080	92.5869	-679	QK	2.8	1	7.5	0	1.0	-1	0.376	0	2.806	1	7.465	1	1739	55	0.8
41766.6	10000	41.8080	92.5862	-679	QK	2.9	1	7.3	0	1.0	-1	0.400	1	2.795	1	6.986	1	1760	46	0.8
41766.5	10000	41.8080	92.5854	-679	QK	2.9	1	7.4	0	1.0	-1	0.387	1	2.774	1	7.163	1	1780	40	0.8
41766.4	10000	41.8080	92.5846	-678	QK	3.1	1	7.6	0	1.1	0	0.407	1	2.863	1	7.037	1	1814	44	0.8
41766.3	10000	41.8079	92.5839	-679	QK	3.1	1	7.5	0	1.2	0	0.410	1	2.636	1	6.429	0	1837	38	0.8
41766.2	10000	41.8079	92.5831	-680	QK	3.0	1	7.6	0	1.2	0	0.399	1	2.603	1	6.519	0	1857	40	0.8
41766.1	10000	41.8079	92.5824	-680	QK	3.2	1	7.8	1	1.1	0	0.409	1	2.792	1	6.823	0	1866	46	0.8
41766.0	10000	41.8079	92.5816	-680	QK	3.3	2	8.2	1	1.1	0	0.406	1	2.929	1	7.206	1	1881	47	0.8
41765.9	10000	41.8079	92.5808	-681	QK	3.5	2	8.4	2	1.1	0	0.412	1	3.057	2	7.412	1	1888	52	0.8
41765.8	10000	41.8078	92.5801	-680	QK	3.4	2	8.3	1	1.2	0	0.411	1	2.950	1	7.183	1	1880	43	0.9
41765.7	10000	41.8078	92.5793	-675	QK	3.2	2	8.0	1	1.1	0	0.405	1	2.896	1	7.155	1	1861	38	0.9
41765.6	10000	41.8078	92.5786	-681	QK	3.4	2	7.9	1	1.1	0	0.432	1	3.158	2	7.317	1	1851	41	0.9
41765.5	10000	41.8078	92.5778	-682	QK	3.5	2	8.0	1	1.1	0	0.432	1	3.204	2	7.420	1	1849	53	0.9
41765.4	10000	41.8078	92.5771	-686	QK	3.4	2	8.0	1	1.1	0	0.422	1	3.070	2	7.276	1	1840	41	0.9
41765.3	10000	41.8077	92.5763	-683	QK	3.2	1	7.7	1	1.1	0	0.422	1	2.978	2	7.060	1	1835	40	0.9
41765.2	10000	41.8077	92.5755	-685	QK	3.2	1	7.3	0	1.1	0	0.434	1	2.897	1	6.677	0	1824	38	0.9
41765.1	10000	41.8077	92.5748	-684	QK	3.1	1	7.1	0	1.1	0	0.445	1	2.951	1	6.638	0	1813	48	0.8
41765.0	10000	41.8077	92.5740	-685	QK	3.2	1	6.9	0	1.1	0	0.464	2	2.953	1	6.365	0	1796	47	0.8
41764.9	10000	41.8076	92.5733	-684	QK	3.0	1	6.7	-1	1.0	-1	0.447	1	2.880	1	6.449	0	1780	44	0.8
41764.8	10000	41.8076	92.5725	-686	QK	3.2	1	6.5	-1	1.0	-1	0.489	2	3.035	2	6.203	0	1766	32	0.8
41764.7	10000	41.8076	92.5717	-686	QK	3.2	1	6.3	-1	1.0	-1	0.502	2	3.110	2	6.193	0	1767	37	0.8
41764.6	10000	41.8076	92.5710	-687	QK	3.1	1	6.7	-1	1.0	-1	0.462	2	3.027	2	6.547	0	1766	55	0.8
41764.5	10000	41.8076	92.5702	-686	QK	3.0	1	7.1	0	1.0	-1	0.419	1	2.876	1	6.862	1	1748	41	0.8
41764.4	10000	41.8076	92.5695	-686	QK	3.0	1	7.3	0	1.1	0	0.408	1	2.772	1	6.797	0	1752	47	0.8
41764.3	10000	41.8075	92.5687	-687	QK	3.1	1	7.1	0	1.1	0	0.422	1	2.758	1	6.535	0	1755	34	0.8
41764.2	10000	41.8075	92.5679	-685	QK	3.2	1	7.2	0	1.1	0	0.434	1	2.733	1	6.296	0	1765	35	0.8
41764.1	10000	41.8076	92.5672	-689	QK	2.9	1	7.1	0	1.1	0	0.404	1	2.586	1	6.398	0	1766	32	0.8
41764.0	10000	41.8076	92.5664	-690	QK	3.1	1	7.3	0	1.1	0	0.418	1	2.697	1	6.459	0	1778	45	0.8
41763.9	10000	41.8076	92.5656	-690	QK	3.1	1	6.9	0	1.2	0	0.446	1	2.636	1	5.914	-1	1778	65	0.8
41763.8	10000	41.8075	92.5649	-690	QK	3.1	1	7.0	0	1.2	0	0.446	1	2.670	1	5.992	-1	1784	53	0.8
41763.7	10000	41.8075	92.5641	-690	QK	2.8	1	6.9	0	1.1	0	0.411	1	2.474	1	6.019	-1	1769	52	0.8
41763.6	10000	41.8075	92.5633	-689	QK	2.7	1	7.2	0	1.1	0	0.382	0	2.453	1	6.419	0	1772	48	0.8
41763.5	10000	41.8075	92.5626	-688	QK	2.8	1	7.2	0	1.1	0	0.386	1	2.567	1	6.641	0	1784	36	0.8
41763.4	10000	41.8075	92.5618	-687	QK	2.7	1	7.3	0	1.1	0	0.371	0	2.440	1	6.585	0	1786	42	0.8
41763.3	10000	41.8075	92.5610	-686	QK	2.8	1	7.4	0	1.1	0	0.373	1	2.546	1	6.820	0	1789	58	0.8
41763.2	10000	41.8075	92.5603	-685	QK	2.7	1	7.4	0	1.1	0	0.365	0	2.486	1	6.817	0	1787	59	0.8
41763.1	10000	41.8075	92.5595	-684	QK	2.5	1	7.2	0	1.1	0	0.352	0	2.283	1	6.478	0	1795	44	0.8
41763.0	10000	41.8075	92.5587	-684	QK	2.8	1	7.3	0	1.1	0	0.390	1	2.526	1	6.477	0	1808	45	0.8
41762.9	10000	41.8075	92.5580	-679	QK	2.9	1	7.3	0	1.2	0	0.399	1	2.503	1	6.268	0	1830	48	0.8
41762.8	10000	41.8075	92.5572	-680	QK	2.8	1	7.3	0	1.2	0	0.385	0	2.414	1	6.272	0	1834	49	0.8
41762.7	10000	41.8075	92.5564	-679	QK	2.8	1	7.4	0	1.2	0	0.373	0	2.367	1	6.351	0	1832	44	0.8
41762.6	10000	41.8075	92.5557	-678	QK	2.7	1	7.1	0	1.2	0	0.382	0	2.262	1	5.919	-1	1830	39	0.8
41762.5	10000	41.8075	92.5549	-674	QK	2.9	1	7.0	0	1.1	0	0.423	1	2.565	1	6.067	-1	1841	46	0.8
41762.4	10000	41.8075	92.5541	-671	QK	3.2	1	7.2	0	1.1	0	0.449	1	2.851	1	6.343	0	1835	41	0.8
41762.3	10000	41.8075	92.5534	-668	QK	3.1	1	7.0	0	1.1	0	0.445	1	2.835	1	6.374	0	1829	51	0.8
41762.2	10000	41.8075	92.5526	-665	QK	3.2	1	6.8	-1	1.1	-1	0.460	1	2.944	1	6.408	0	1813	39	0.8
41762.1	10000	41.8075	92.5518	-663	QK	3.2	1	6.8	-1	1.1	-1	0.475	1	3.076	2	6.469	0	1793	52	0.8
41762.0	10000	41.8075	92.5511	-658	QK	3.7	1	6.6	-1	1.1	-1	0.554	2	3.338	2	6.030	-1	1784	49	0.8
41761.9	10000	41.8075	92.5503	-657	QK	3.3	1	6.5	-1	1.1	-1	0.514	2	3.040	2	5.917	-1	1773	41	0.8
41761.8	10000	41.8075	92.5495	-655	QK	3.3	1	6.9	-1	1.2	-1	0.488	1	2.819	1	5.773	-1	1766	36	0.8
41761.7	10000	41.8075	92.5488	-648	QK	3.0	1	6.7	-1	1.2	1	0.452	1	2.517	1	5.564	-1	1777	45	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41761.6	10000	41.8075	92.5480	-644	QK	3.1	1	6.8	-1	1.2	1	0.457	1	2.619	1	5.729	-1	1783	55	0.8
41761.5	10000	41.8075	92.5472	-641	QK	3.1	1	7.0	0	1.2	0	0.447	1	2.707	1	6.051	-1	1780	47	0.8
41761.4	10000	41.8075	92.5465	-637	QK	3.1	1	7.0	0	1.2	1	0.434	1	2.565	1	5.905	-1	1786	50	0.8
41761.3	10000	41.8075	92.5457	-634	QK	2.9	1	6.9	0	1.2	0	0.417	1	2.492	0	5.974	-1	1791	37	0.8
41761.2	10000	41.8075	92.5449	-629	QK	3.3	2	6.8	-1	1.2	0	0.476	2	2.818	1	5.917	-1	1802	38	0.8
41761.1	10000	41.8075	92.5442	-626	QK	3.2	1	7.3	0	1.1	0	0.434	1	2.864	1	6.593	0	1804	36	0.8
41761.0	10000	41.8075	92.5434	-622	QK	3.1	1	7.5	0	1.1	0	0.411	1	2.873	1	6.987	1	1796	41	0.8
41760.9	10000	41.8075	92.5426	-620	QK	3.2	1	7.9	1	1.1	0	0.412	1	2.946	1	7.156	1	1802	31	0.8
41760.8	10000	41.8075	92.5419	-613	QK	3.0	1	7.9	1	1.1	0	0.384	0	2.752	1	7.170	1	1814	49	0.8
41760.7	10000	41.8075	92.5411	-608	QK	2.9	1	8.1	1	1.1	0	0.361	0	2.734	1	7.569	2	1829	47	0.8
41760.6	10000	41.8075	92.5403	-608	QK	2.8	1	8.6	2	1.1	0	0.333	0	2.566	1	7.717	2	1833	43	0.8
41760.5	10000	41.8075	92.5396	-599	QK	2.6	0	9.1	3	1.1	0	0.285	-1	2.353	0	8.264	3	1837	52	0.8
41760.4	10000	41.8075	92.5388	-596	QK	2.6	0	8.7	2	1.1	0	0.294	-1	2.316	0	7.892	2	1850	58	0.8
41760.3	10000	41.8075	92.5380	-585	QK	2.7	0	8.9	2	1.1	0	0.302	-1	2.338	0	7.749	2	1865	53	0.9
41760.2	10000	41.8075	92.5373	-584	QK	2.3	0	8.4	2	1.2	0	0.279	-1	2.026	-1	7.274	1	1875	33	0.9
41760.1	10000	41.8075	92.5365	-578	QK	2.4	0	8.5	2	1.2	1	0.285	-1	2.011	-1	7.069	1	1887	43	0.9
41760.0	10000	41.8075	92.5357	-573	QK	2.4	0	8.5	2	1.2	1	0.283	-1	1.974	-1	6.964	1	1881	38	0.9
41759.9	10000	41.8075	92.5350	-566	QK	2.6	0	8.4	2	1.2	0	0.310	-1	2.221	0	7.153	1	1890	49	0.9
41759.8	10000	41.8075	92.5342	-562	QK	2.7	0	8.2	1	1.2	0	0.325	0	2.290	0	7.039	1	1880	42	0.9
41759.7	10000	41.8075	92.5334	-558	QK	2.5	0	8.0	1	1.2	0	0.317	0	2.192	0	6.924	1	1849	55	0.9
41759.6	10000	41.8074	92.5327	-550	QK	2.5	0	7.7	1	1.1	0	0.324	0	2.258	0	6.968	1	1818	53	0.9
41759.5	10000	41.8074	92.5319	-545	QK	2.8	1	7.9	1	1.1	0	0.358	0	2.639	1	7.367	1	1788	41	0.9
41759.4	10000	41.8074	92.5311	-539	QK	3.0	1	7.7	1	1.1	0	0.391	1	2.812	1	7.197	1	1767	57	0.9
41759.3	10000	41.8074	92.5304	-533	QK	2.8	1	7.6	1	1.0	-1	0.372	0	2.749	1	7.399	1	1748	45	0.9
41759.2	10000	41.8074	92.5296	-528	QK	2.6	1	7.3	1	1.1	0	0.359	0	2.448	0	6.823	0	1710	50	0.9
41759.1	10000	41.8074	92.5288	-525	QK	2.4	0	7.3	0	1.1	0	0.337	0	2.290	0	6.788	0	1696	43	0.9
41759.0	10000	41.8074	92.5281	-517	QK	2.5	0	7.3	0	1.1	0	0.347	0	2.367	0	6.816	0	1702	41	0.9
41758.9	10000	41.8074	92.5273	-511	QK	2.6	0	7.3	0	1.1	0	0.352	0	2.399	0	6.807	0	1711	45	0.9
41758.8	10000	41.8074	92.5266	-510	QK	2.4	0	7.4	0	1.1	0	0.320	0	2.088	0	6.531	0	1715	39	0.9
41758.7	10000	41.8074	92.5258	-503	QK	2.1	-1	7.3	0	1.1	-1	0.294	-1	1.968	-1	6.701	0	1705	39	0.9
41758.6	10000	41.8074	92.5250	-499	QK	2.3	0	6.9	0	1.1	0	0.333	0	2.034	0	6.116	-1	1715	42	0.9
41758.5	10000	41.8074	92.5242	-494	QK	2.4	0	7.0	0	1.1	0	0.338	0	2.150	0	6.355	0	1729	49	0.9
41758.4	10000	41.8074	92.5235	-490	QK	2.7	0	6.9	0	1.1	0	0.385	0	2.428	0	6.303	0	1749	43	0.9
41758.3	10000	41.8074	92.5227	-486	QK	2.7	0	7.1	0	1.1	0	0.386	0	2.471	0	6.393	0	1774	46	0.9
41758.2	10000	41.8074	92.5219	-483	QK	2.6	0	7.1	0	1.1	0	0.372	0	2.352	0	6.329	0	1779	40	0.9
41758.1	10000	41.8074	92.5212	-479	QK	2.8	1	7.1	0	1.1	0	0.396	1	2.495	0	6.300	0	1797	50	0.9
41758.0	10000	41.8074	92.5204	-477	QK	2.8	1	7.3	0	1.1	0	0.385	0	2.471	0	6.423	0	1807	34	0.9
41757.9	10000	41.8074	92.5197	-474	QK	2.7	1	7.5	0	1.2	0	0.354	0	2.292	0	6.467	0	1813	35	0.9
41757.8	10000	41.8074	92.5189	-469	QK	2.7	1	7.8	1	1.2	0	0.350	0	2.290	0	6.547	0	1833	39	0.9
41757.7	10000	41.8074	92.5181	-467	QK	2.5	1	7.9	1	1.2	-1	0.314	-1	2.064	0	6.581	0	1831	48	0.9
41757.6	10000	41.8074	92.5173	-463	QK	2.5	1	7.7	1	1.2	0	0.325	0	2.148	0	6.610	0	1823	51	0.9
41757.5	10000	41.8074	92.5166	-460	QK	2.5	1	7.7	1	1.2	0	0.327	0	2.042	0	6.253	0	1833	47	0.9
41757.4	10000	41.8074	92.5158	-456	QK	2.5	1	7.7	1	1.2	0	0.319	0	1.979	-1	6.196	0	1834	40	0.9
41757.3	10000	41.8074	92.5150	-453	QK	2.4	1	7.6	1	1.3	0	0.317	0	1.892	-1	5.962	-1	1849	41	0.9
41757.2	10000	41.8074	92.5143	-449	QK	2.7	1	7.7	1	1.3	0	0.350	0	2.128	-1	6.077	-1	1855	44	0.9
41757.1	10000	41.8074	92.5135	-446	QK	2.7	1	7.5	1	1.3	0	0.357	0	2.145	-1	6.003	-1	1857	38	0.9
41757.0	10000	41.8074	92.5128	-442	QK	2.6	1	7.6	1	1.3	0	0.337	0	2.036	-1	6.045	-1	1836	53	0.9
41756.9	10000	41.8074	92.5120	-438	QK	2.7	1	7.4	1	1.3	0	0.363	0	2.099	-1	5.789	-1	1825	46	0.9
41756.8	10000	41.8074	92.5112	-430	QK	2.8	1	7.1	1	1.2	0	0.390	0	2.239	-1	5.746	-1	1810	41	0.9
41756.7	10000	41.8074	92.5105	-423	QK	3.0	2	7.0	1	1.2	1	0.432	1	2.520	-1	5.836	-1	1794	36	0.9
41756.6	10000	41.8074	92.5097	-424	QK	3.3	2	6.8	-1	1.2	1	0.486	2	2.794	-1	5.755	-1	1785	53	0.9
41756.5	10000	41.8074	92.5089	-424	QK	3.2	1	6.7	-1	1.2	0	0.468	2	2.690	1	5.744	-1	1765	41	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
41756.4	10000	41.8074	92.5081	-421	QK	3.1	1	6.6	-1	1.2	1	0.470	2	2.579	1	5.487	-1	1764	55	0.9
41756.3	10000	41.8074	92.5074	-418	QK	3.3	2	6.4	-1	1.2	1	0.520	2	2.769	1	5.326	-2	1788	45	0.9
41756.2	10000	41.8074	92.5066	-414	QK	3.1	1	6.6	-1	1.2	1	0.467	2	2.602	1	5.576	-1	1802	45	0.9
41756.1	10000	41.8074	92.5059	-411	QK	3.1	1	6.9	0	1.2	1	0.445	1	2.513	1	5.650	-1	1810	46	0.9
41756.0	10000	41.8074	92.5051	-408	QK	2.7	0	7.0	0	1.3	1	0.386	0	2.090	0	5.408	-2	1818	54	0.9
41755.9	10000	41.8074	92.5043	-405	QK	2.5	0	7.1	0	1.3	1	0.352	0	1.990	-1	5.648	-1	1806	44	0.9
41755.8	10000	41.8074	92.5036	-400	QK	2.7	0	7.1	0	1.2	1	0.379	0	2.235	0	5.903	-1	1805	40	0.9
41755.7	10000	41.8074	92.5028	-398	QK	2.6	0	7.2	0	1.2	0	0.360	0	2.211	0	6.137	0	1776	45	0.9
41755.6	10000	41.8074	92.5020	-394	QK	2.4	0	7.2	0	1.1	0	0.327	0	2.070	0	6.339	0	1773	43	0.9
41755.5	10000	41.8073	92.5013	-391	QK	2.5	0	7.5	0	1.1	0	0.338	0	2.230	0	6.602	0	1772	41	1.0
41755.4	10000	41.8074	92.5005	-388	QK	2.7	0	7.7	1	1.1	0	0.357	0	2.481	0	6.958	1	1791	46	1.0
41755.3	10000	41.8073	92.4997	-385	QK	3.0	1	7.4	0	1.1	0	0.409	1	2.798	1	6.847	1	1804	44	1.0
41755.2	10000	41.8073	92.4990	-382	QK	2.9	1	7.2	0	1.1	0	0.410	1	2.677	1	6.538	0	1821	48	1.0
41755.1	10000	41.8073	92.4982	-379	QK	2.9	1	7.3	0	1.1	0	0.391	1	2.512	1	6.432	0	1838	46	1.0
41755.0	10000	41.8073	92.4974	-376	QK	3.0	1	7.6	0	1.2	0	0.394	1	2.574	1	6.539	0	1863	45	1.0
41754.9	10000	41.8073	92.4967	-373	QK	3.2	1	7.6	1	1.2	1	0.419	1	2.681	1	6.406	0	1868	45	1.0
41754.8	10000	41.8073	92.4959	-371	QK	3.1	1	7.5	0	1.2	1	0.416	1	2.567	1	6.174	0	1867	63	1.0
41754.7	10000	41.8073	92.4951	-369	QK	3.0	1	7.0	0	1.2	1	0.424	1	2.483	0	5.860	-1	1842	49	1.0
41754.6	10000	41.8073	92.4944	-367	QK	2.8	1	7.5	0	1.2	0	0.375	0	2.402	0	6.401	0	1834	50	0.9
41754.5	10000	41.8073	92.4936	-365	QK	2.9	1	7.8	1	1.2	1	0.371	0	2.435	0	6.571	0	1827	49	0.9
41754.4	10000	41.8073	92.4928	-364	QK	2.8	1	7.5	0	1.2	1	0.378	0	2.375	0	6.279	0	1821	56	1.0
41754.3	10000	41.8073	92.4921	-363	QK	2.7	0	7.3	0	1.2	1	0.375	0	2.295	0	6.118	-1	1816	46	1.0
41754.2	10000	41.8073	92.4913	-361	QK	2.8	1	7.2	0	1.1	0	0.387	1	2.418	0	6.243	0	1811	44	1.0
41754.1	10000	41.8073	92.4905	-360	QK	2.6	0	7.0	0	1.1	0	0.368	0	2.248	0	6.113	-1	1811	53	1.0
41754.0	10000	41.8073	92.4898	-360	QK	2.6	0	7.2	0	1.1	0	0.360	0	2.281	0	6.338	0	1825	61	1.0
41753.9	10000	41.8073	92.4890	-358	QK	2.6	0	6.9	0	1.1	0	0.377	0	2.267	0	6.009	-1	1832	42	1.0
41753.8	10000	41.8073	92.4882	-358	QK	2.5	0	7.0	0	1.2	0	0.357	0	2.116	0	5.925	-1	1849	62	1.0
41753.7	10000	41.8073	92.4875	-357	QK	2.3	0	7.6	-1	1.2	0	0.308	-1	2.007	-1	6.510	0	1863	50	0.9
41753.6	10000	41.8073	92.4867	-357	QK	2.3	0	7.7	-1	1.2	0	0.295	-1	1.898	-1	6.440	0	1875	40	0.9
41753.5	10000	41.8073	92.4859	-356	QK	2.2	0	7.5	-1	1.2	0	0.287	-1	1.761	-1	6.134	0	1871	38	0.9
41753.4	10000	41.8073	92.4852	-356	QK	2.5	0	7.8	0	1.2	0	0.322	0	2.090	0	6.494	0	1869	44	0.9
41753.3	10000	41.8073	92.4844	-355	QK	2.5	0	7.7	0	1.2	0	0.323	0	2.074	0	6.416	0	1860	42	0.9
41753.2	10000	41.8073	92.4836	-354	QK	2.7	0	7.5	0	1.2	0	0.364	0	2.335	0	6.418	0	1839	40	0.9
41753.1	10000	41.8073	92.4829	-354	QK	2.8	1	7.5	0	1.1	0	0.372	0	2.436	0	6.546	0	1831	53	0.9
41753.0	10000	41.8073	92.4821	-353	QK	2.9	1	7.2	0	1.2	0	0.401	1	2.466	0	6.145	0	1826	48	0.9
41752.9	10000	41.8073	92.4813	-352	QK	3.0	1	6.8	-1	1.1	0	0.449	1	2.638	1	5.877	-1	1827	46	0.9
41752.8	10000	41.8073	92.4806	-351	QK	3.1	1	7.1	0	1.2	0	0.439	1	2.681	1	6.110	-1	1835	41	0.9
41752.7	10000	41.8073	92.4798	-350	QK	2.9	1	6.4	-1	1.2	0	0.450	1	2.447	1	5.433	-1	1829	49	0.9
41752.6	10000	41.8073	92.4790	-350	QK	3.0	1	6.7	-1	1.2	0	0.445	1	2.432	1	5.459	-1	1838	47	0.9
41752.5	10000	41.8073	92.4783	-349	QK	2.7	0	7.1	0	1.2	0	0.388	1	2.242	1	5.772	-1	1853	43	0.9
41752.4	10000	41.8073	92.4775	-348	QK	2.6	0	7.1	0	1.2	0	0.368	0	2.098	0	5.695	-1	1857	51	0.9
41752.3	10000	41.8073	92.4767	-347	QK	2.7	0	7.2	0	1.3	0	0.371	0	2.081	0	5.606	-1	1874	44	0.9
41752.2	10000	41.8073	92.4760	-346	QK	2.6	0	7.7	1	1.3	0	0.336	-1	1.983	-1	5.906	-1	1887	53	0.9
41752.1	10000	41.8073	92.4752	-345	QK	2.5	0	7.8	1	1.4	0	0.320	-1	1.845	-1	5.774	-1	1910	46	0.9
41752.0	10000	41.8073	92.4744	-344	QK	2.4	0	8.4	1	1.4	0	0.290	-1	1.721	-1	5.943	-1	1938	53	0.9
43952.6	10000	41.8071	92.4741	-334	QK	3.4	1	7.5	1	1.2	0	0.457	1	2.782	1	6.091	-1	1808	46	0.8
43952.5	10000	41.8071	92.4732	-335	QK	3.4	1	7.6	1	1.2	0	0.445	1	2.750	1	6.180	0	1803	52	0.8
43952.4	10000	41.8071	92.4723	-334	QK	3.5	1	7.6	1	1.2	0	0.457	1	2.784	1	6.096	-1	1801	42	0.8
43952.3	10000	41.8071	92.4715	-335	QK	3.4	1	7.5	1	1.3	0	0.452	1	2.698	1	5.962	-1	1813	50	0.8
43952.2	10000	41.8071	92.4706	-335	QK	3.2	1	7.6	1	1.3	0	0.419	1	2.488	1	5.938	-1	1830	41	0.8
43952.1	10000	41.8071	92.4697	-336	QK	3.1	1	7.2	1	1.3	0	0.428	1	2.316	1	5.409	-2	1835	37	0.8
43952.0	10000	41.8071	92.4688	-337	QK	3.0	1	7.4	1	1.4	2	0.400	1	2.187	0	5.463	-1	1838	42	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43951.9	10000	41.8071	92.4680	-338	QK	3.0	1	6.7	-1	1.3	2	0.449	1	2.253	0	5.018	-2	1823	46	0.8
43951.8	10000	41.8071	92.4671	-339	QK	3.0	1	6.6	-1	1.3	2	0.449	1	2.276	0	5.068	-2	1806	45	0.8
43951.7	10000	41.8071	92.4662	-340	QK	2.8	1	6.5	-1	1.3	1	0.427	1	2.141	0	5.012	-2	1788	55	0.8
43951.6	10000	41.8070	92.4653	-340	QK	2.7	0	6.2	-1	1.3	1	0.439	1	2.131	0	4.854	-2	1742	50	0.8
43951.5	10000	41.8070	92.4645	-337	QK	2.8	1	6.5	-1	1.2	1	0.437	1	2.294	0	5.254	-2	1700	51	0.8
43951.4	10000	41.8070	92.4636	-334	QK	2.6	0	6.4	-1	1.2	1	0.400	1	2.166	0	5.421	-2	1669	45	0.8
43951.3	10000	41.8070	92.4627	-340	QK	2.6	0	6.3	-1	1.2	0	0.407	1	2.199	0	5.402	-2	1656	44	0.8
43951.2	10000	41.8070	92.4619	-346	QK	2.4	0	6.6	-1	1.2	0	0.370	0	2.077	0	5.607	-1	1646	44	0.8
43951.1	10000	41.8070	92.4610	-349	QK	2.3	0	6.6	-1	1.2	1	0.354	0	1.943	-1	5.486	-1	1643	51	0.8
43951.0	10000	41.8070	92.4601	-352	QK	2.4	0	6.7	-1	1.2	0	0.360	0	2.076	0	5.767	-1	1630	45	0.8
43950.9	10000	41.8070	92.4592	-354	QK	2.5	0	6.9	0	1.1	0	0.361	0	2.187	0	6.061	-1	1642	46	0.8
43950.8	10000	41.8070	92.4584	-357	QK	2.4	0	6.4	-1	1.1	0	0.376	0	2.117	0	5.636	-1	1657	51	0.8
43950.7	10000	41.8070	92.4575	-360	QK	2.6	0	6.7	-1	1.2	0	0.384	0	2.223	0	5.796	-1	1658	42	0.8
43950.6	10000	41.8070	92.4566	-363	QK	2.7	0	6.2	-1	1.1	0	0.430	1	2.324	0	5.398	-2	1635	60	0.8
43950.5	10000	41.8070	92.4557	-366	QK	2.7	0	6.1	-1	1.1	0	0.435	1	2.455	0	5.642	-1	1603	40	0.9
43950.4	10000	41.8070	92.4549	-370	QK	2.8	1	6.0	-2	1.1	0	0.473	2	2.644	1	5.585	-1	1582	60	0.9
43950.3	10000	41.8070	92.4540	-373	QK	2.6	0	5.6	-2	1.1	0	0.469	2	2.491	0	5.309	-2	1562	38	0.9
43950.2	10000	41.8070	92.4531	-376	QK	2.6	0	5.7	-2	1.1	-1	0.459	1	2.478	0	5.403	-2	1530	45	0.9
43950.1	10000	41.8070	92.4522	-380	QK	2.4	0	5.9	-2	1.0	-1	0.413	1	2.352	0	5.692	-1	1493	54	0.9
43950.0	10000	41.8070	92.4514	-384	QK	2.4	0	5.8	-2	1.0	-1	0.411	1	2.365	0	5.759	-1	1474	58	0.9
43949.9	10000	41.8070	92.4505	-388	QK	2.1	-1	6.0	-2	1.0	-1	0.359	0	2.169	0	6.047	-1	1462	56	0.9
43949.8	10000	41.8070	92.4496	-391	QK	2.1	-1	6.0	-2	1.0	-1	0.356	0	2.136	0	6.006	-1	1468	55	0.9
43949.7	10000	41.8070	92.4487	-395	QK	2.0	-1	6.2	-1	1.0	-1	0.321	0	1.985	-1	6.192	0	1466	62	0.9
43949.6	10000	41.8070	92.4479	-398	QK	2.0	-1	6.4	-1	1.0	-1	0.321	0	1.986	-1	6.196	0	1497	49	0.9
43949.5	10000	41.8069	92.4470	-402	QK	2.0	-1	6.6	-1	1.0	-1	0.309	-1	1.955	-1	6.325	0	1522	41	0.9
43949.4	10000	41.8069	92.4461	-405	QK	2.3	0	6.5	-1	1.1	0	0.354	0	2.155	-1	6.084	-1	1548	51	0.9
43949.3	10000	41.8069	92.4453	-408	QK	2.4	0	6.4	-1	1.1	0	0.372	0	2.182	-1	5.862	-1	1573	37	0.9
43949.2	10000	41.8069	92.4444	-412	QK	2.6	0	6.6	-1	1.1	0	0.389	0	2.333	-1	5.990	-1	1600	47	0.9
43949.1	10000	41.8069	92.4435	-415	QK	2.4	0	6.9	0	1.1	0	0.342	0	2.118	0	6.194	0	1609	52	0.9
43949.0	10000	41.8069	92.4426	-419	QK	2.3	0	6.8	-1	1.1	0	0.344	0	2.058	-1	5.978	-1	1635	47	0.9
43948.9	10000	41.8069	92.4418	-422	QK	2.3	0	7.0	0	1.2	0	0.332	-1	1.978	-1	5.966	-1	1640	42	0.9
43948.8	10000	41.8069	92.4409	-424	QK	2.2	-1	6.7	-1	1.2	0	0.330	-1	1.848	-1	5.607	-1	1657	53	0.9
43948.7	10000	41.8069	92.4400	-428	QK	2.0	-1	6.7	-1	1.2	0	0.297	-1	1.683	-1	5.666	-1	1656	51	0.9
43948.6	10000	41.8069	92.4391	-431	QK	1.8	-2	6.9	0	1.2	0	0.258	-1	1.529	-2	5.929	-1	1642	51	0.9
43948.5	10000	41.8069	92.4383	-434	QK	1.7	-2	7.0	0	1.2	1	0.240	-2	1.450	-2	6.032	-1	1629	43	0.9
43948.4	10000	41.8069	92.4374	-436	QK	1.7	-2	6.6	-1	1.2	1	0.260	-1	1.435	-2	5.518	-1	1620	37	0.9
43948.3	10000	41.8069	92.4365	-439	QK	1.8	-1	6.4	-1	1.2	1	0.288	-1	1.537	-2	5.343	-2	1615	55	0.9
43948.2	10000	41.8069	92.4356	-442	QK	1.8	-1	6.3	-1	1.2	1	0.293	-1	1.513	-2	5.169	-2	1617	51	0.9
43948.1	10000	41.8069	92.4348	-445	QK	2.1	-1	6.1	-2	1.2	1	0.336	0	1.720	-1	5.125	-2	1610	42	0.9
43948.0	10000	41.8069	92.4339	-447	QK	2.2	-1	6.1	-2	1.2	1	0.364	0	1.840	-1	5.056	-2	1629	47	0.9
43947.9	10000	41.8069	92.4330	-449	QK	2.3	-1	5.7	-2	1.2	1	0.395	1	1.810	-1	4.587	-3	1661	54	0.9
43947.8	10000	41.8069	92.4321	-450	QK	2.5	-1	5.9	-2	1.3	1	0.435	2	2.064	0	4.748	-2	1699	47	0.9
43947.7	10000	41.8069	92.4313	-451	QK	2.8	-1	5.9	-2	1.3	1	0.475	2	2.215	0	4.662	-3	1742	52	0.9
43947.6	10000	41.8069	92.4304	-452	QK	2.6	-1	6.0	-2	1.3	1	0.436	1	2.059	0	4.719	-3	1769	38	0.9
43947.5	10000	41.8069	92.4295	-452	QK	2.8	-1	6.3	-2	1.3	1	0.444	1	2.200	0	4.960	-2	1792	55	0.9
43947.4	10000	41.8069	92.4286	-452	QK	2.5	-1	6.7	-1	1.3	1	0.374	0	1.977	-1	5.288	-2	1808	48	0.9
43947.3	10000	41.8068	92.4278	-452	QK	2.4	-1	7.1	-1	1.3	1	0.332	0	1.865	-1	5.612	-1	1817	52	0.9
43947.2	10000	41.8068	92.4269	-452	QK	2.2	-1	7.4	-1	1.3	1	0.327	0	1.899	-1	5.808	-1	1813	48	0.9
43947.1	10000	41.8068	92.4260	-451	QK	2.5	-1	7.3	-1	1.3	1	0.304	-1	1.745	-1	5.743	-1	1802	40	0.9
43947.0	10000	41.8068	92.4252	-450	QK	2.5	0	7.1	-1	1.3	1	0.348	0	2.032	0	5.837	-1	1799	47	1.0
43946.9	10000	41.8068	92.4243	-449	QK	2.6	0	7.8	0	1.2	1	0.341	0	2.183	0	6.395	0	1798	44	1.0
43946.8	10000	41.8068	92.4234	-447	QK	2.5	0	7.6	0	1.2	1	0.334	0	2.059	0	6.163	0	1797	42	1.0

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43946.7	10000	41.8068	92.4225	-445	QK	2.7	0	7.7	1	1.2	1	0.354	0	2.181	0	6.155	0	1804	40	1.0
43946.6	10000	41.8068	92.4217	-443	QK	2.8	1	7.3	0	1.3	1	0.380	0	2.199	0	5.787	-1	1801	53	1.0
43946.5	10000	41.8068	92.4208	-440	QK	2.7	0	7.5	0	1.3	1	0.355	0	2.112	0	5.951	-1	1809	56	1.0
43946.4	10000	41.8068	92.4199	-438	QK	2.9	1	7.6	0	1.3	2	0.382	0	2.194	0	5.751	-1	1826	38	1.0
43946.3	10000	41.8068	92.4190	-435	QK	2.5	0	8.1	1	1.3	2	0.309	-1	1.870	-1	6.046	-1	1826	44	1.0
43946.2	10000	41.8068	92.4182	-433	QK	2.4	0	8.1	1	1.3	2	0.291	-1	1.776	-1	6.099	-1	1832	54	1.0
43946.1	10000	41.8068	92.4173	-430	QK	2.2	-1	8.1	1	1.3	1	0.273	-1	1.715	-1	6.270	0	1829	65	1.0
43946.0	10000	41.8068	92.4164	-426	QK	2.3	-1	8.2	1	1.3	2	0.276	-1	1.710	-1	6.202	0	1821	55	1.0
43945.9	10000	41.8068	92.4155	-424	QK	2.3	0	8.0	1	1.3	1	0.286	-1	1.765	-1	6.162	0	1820	52	1.0
43945.8	10000	41.8068	92.4147	-422	QK	2.6	0	8.1	1	1.2	1	0.322	0	2.108	0	6.540	0	1799	57	1.0
43945.7	10000	41.8068	92.4138	-418	QK	2.3	-1	8.2	1	1.2	0	0.277	-1	1.945	-1	7.031	1	1788	40	1.0
43945.6	10000	41.8068	92.4129	-415	QK	2.3	0	8.1	1	1.1	0	0.286	-1	2.038	0	7.129	1	1792	34	1.0
43945.5	10000	41.8068	92.4120	-415	QK	2.3	0	7.9	1	1.2	0	0.293	-1	1.998	-1	6.825	0	1781	36	1.0
43945.4	10000	41.8067	92.4112	-412	QK	2.4	0	8.1	1	1.2	1	0.292	-1	2.000	-1	6.859	1	1781	44	1.0
43945.3	10000	41.8067	92.4103	-410	QK	2.2	-1	7.8	1	1.2	0	0.277	-1	1.833	-1	6.622	0	1785	50	1.0
43945.2	10000	41.8067	92.4094	-403	QK	2.1	-1	8.2	1	1.2	1	0.256	-1	1.780	-1	6.940	1	1796	46	1.0
43945.1	10000	41.8067	92.4086	-399	QK	2.1	-1	8.1	1	1.3	1	0.256	-1	1.654	-1	6.455	0	1828	54	1.0
43945.0	10000	41.8067	92.4077	-396	QK	2.1	-1	8.3	1	1.3	2	0.258	-1	1.620	-1	6.292	0	1846	44	1.0
43944.9	10000	41.8067	92.4068	-391	QK	2.3	0	8.2	1	1.3	2	0.282	-1	1.767	-1	6.263	0	1832	51	1.0
43944.8	10000	41.8067	92.4059	-383	QK	2.2	-1	7.8	1	1.3	1	0.283	-1	1.756	-1	6.215	0	1818	50	1.0
43944.7	10000	41.8067	92.4051	-383	QK	2.4	0	7.7	1	1.2	1	0.314	-1	2.049	0	6.524	0	1803	44	1.0
43944.6	10000	41.8067	92.4042	-377	QK	2.6	0	7.7	1	1.1	0	0.342	0	2.334	0	6.823	0	1791	51	1.0
43944.5	10000	41.8067	92.4033	-372	QK	2.8	1	8.0	1	1.1	0	0.346	0	2.450	0	7.073	1	1795	56	1.0
43944.4	10000	41.8067	92.4024	-366	QK	2.7	0	8.1	1	1.1	0	0.338	0	2.476	0	7.323	1	1808	39	1.0
43944.3	10000	41.8067	92.4016	-360	QK	2.8	1	7.7	1	1.1	0	0.364	0	2.578	1	7.078	1	1812	62	1.0
43944.2	10000	41.8067	92.4007	-353	QK	2.5	0	7.6	1	1.2	0	0.333	0	2.162	0	6.483	0	1831	44	1.0
43944.1	10000	41.8067	92.3998	-347	QK	2.8	1	7.8	1	1.3	0	0.360	0	2.248	0	6.246	0	1857	38	1.0
43944.0	10000	41.8067	92.3989	-340	QK	2.7	0	7.8	1	1.3	0	0.349	0	2.153	0	6.172	0	1854	44	1.0
43943.9	10000	41.8067	92.3981	-332	QK	2.4	0	8.0	2	1.3	0	0.303	-1	1.838	-1	6.066	-1	1851	47	1.0
43943.8	10000	41.8067	92.3972	-325	QK	2.3	-1	7.5	1	1.3	0	0.300	-1	1.753	-1	5.839	-1	1813	56	1.0
43943.7	10000	41.8067	92.3963	-317	QK	1.9	-1	7.2	1	1.3	0	0.270	-1	1.527	-2	5.661	-1	1770	30	1.0
43943.6	10000	41.8067	92.3954	-310	QK	1.9	-1	7.3	1	1.3	0	0.265	-1	1.527	-2	5.760	-1	1753	46	1.0
43943.5	10000	41.8066	92.3946	-303	QK	2.0	-1	7.3	1	1.2	0	0.275	-1	1.647	-1	5.992	-1	1736	50	1.0
43943.4	10000	41.8066	92.3937	-296	QK	1.9	-1	7.2	1	1.2	0	0.262	-1	1.579	-1	6.038	-1	1733	49	1.0
43943.3	10000	41.8066	92.3928	-291	QK	1.9	-1	7.3	1	1.2	0	0.256	-1	1.578	-1	6.177	0	1738	43	1.0
43943.2	10000	41.8066	92.3920	-288	QK	2.1	-1	7.2	1	1.2	0	0.295	-1	1.786	-1	6.063	-1	1763	51	1.0
43943.1	10000	41.8066	92.3911	-286	QK	2.3	0	7.1	1	1.2	0	0.323	0	1.906	-1	5.899	-1	1795	27	1.0
43943.0	10000	41.8066	92.3902	-286	QK	2.7	1	7.5	1	1.2	0	0.366	0	2.257	0	6.166	0	1833	46	1.0
43942.9	10000	41.8066	92.3893	-289	QK	3.0	1	7.4	1	1.2	0	0.399	0	2.428	0	6.088	-1	1837	40	1.0
43942.8	10000	41.8066	92.3885	-295	QK	2.9	1	7.7	1	1.3	0	0.375	0	2.246	0	5.985	-1	1861	44	1.0
43942.7	10000	41.8066	92.3876	-304	QK	3.0	1	7.7	1	1.3	0	0.386	0	2.326	0	6.031	-1	1851	49	1.0
43942.6	10000	41.8066	92.3867	-316	QK	2.9	1	8.0	1	1.3	0	0.364	0	2.249	0	6.181	0	1859	49	1.0
43942.5	10000	41.8066	92.3858	-329	QK	2.6	0	8.1	1	1.3	0	0.324	0	2.065	0	6.372	0	1857	53	1.0
43942.4	10000	41.8066	92.3850	-346	QK	2.6	0	8.4	2	1.3	0	0.313	-1	2.027	-1	6.481	0	1858	40	1.0
43942.3	10000	41.8066	92.3841	-366	QK	2.6	0	8.1	1	1.3	0	0.324	-1	2.052	-1	6.325	0	1856	43	1.0
43942.2	10000	41.8066	92.3832	-387	QK	2.5	0	8.3	1	1.3	0	0.297	-1	1.922	-1	6.479	0	1869	50	1.0
43942.1	10000	41.8066	92.3823	-411	QK	2.5	0	8.0	1	1.3	0	0.311	-1	1.936	-1	6.235	0	1856	52	1.0
43942.0	10000	41.8066	92.3815	-436	QK	2.5	0	8.1	1	1.3	0	0.305	-1	1.957	-1	6.415	0	1847	53	1.0
43941.9	10000	41.8066	92.3806	-463	QK	2.6	0	7.4	1	1.3	0	0.350	0	2.051	0	5.855	-1	1834	39	1.0
43941.8	10000	41.8066	92.3797	-490	QK	2.8	0	7.4	1	1.3	0	0.382	0	2.210	0	5.781	-1	1831	50	1.0
43941.7	10000	41.8066	92.3788	-517	QK	2.8	0	7.4	1	1.3	0	0.371	0	2.189	0	5.900	-1	1816	42	1.0
43941.6	10000	41.8066	92.3780	-546	QK	2.5	0	7.3	0	1.2	1	0.337	0	2.000	-1	5.929	-1	1790	37	1.0

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43941.5	10000	41.8065	92.3771	-573	QK	2.4	0	7.3	0	1.2	1	0.331	0	1.953	-1	5.899	-1	1760	42	1.0
43941.4	10000	41.8065	92.3762	-600	QK	2.8	1	7.3	0	1.2	0	0.380	0	2.357	0	6.199	0	1744	32	1.0
43941.3	10000	41.8065	92.3754	-625	QK	2.7	0	7.2	0	1.2	0	0.372	0	2.281	0	6.131	-1	1751	41	1.0
43941.2	10000	41.8065	92.3745	-649	QK	2.7	0	7.4	0	1.1	0	0.372	0	2.437	0	6.556	0	1758	39	1.0
43941.1	10000	41.8065	92.3736	-672	QK	2.6	0	7.5	0	1.1	0	0.348	0	2.410	0	6.914	1	1741	46	1.0
43941.0	10000	41.8065	92.3727	-692	QK	2.5	0	7.4	0	1.1	0	0.344	0	2.300	0	6.687	0	1725	28	1.0
43940.9	10000	41.8065	92.3719	-711	QK	2.3	0	7.7	1	1.1	0	0.305	-1	2.103	0	6.896	1	1699	54	1.0
43940.8	10000	41.8065	92.3710	-728	QK	2.3	0	7.5	0	1.1	0	0.307	-1	2.095	0	6.822	0	1691	41	0.9
43940.7	10000	41.8065	92.3701	-744	QK	2.1	-1	7.6	0	1.1	0	0.271	-1	1.904	-1	7.014	1	1688	37	0.9
43940.6	10000	41.8065	92.3692	-758	QK	2.1	-1	7.3	0	1.1	0	0.290	-1	1.945	-1	6.704	0	1657	36	0.9
43940.5	10000	41.8065	92.3684	-771	QK	2.0	-1	7.3	0	1.1	0	0.273	-1	1.781	-1	6.517	0	1645	47	0.9
43940.4	10000	41.8065	92.3675	-782	QK	2.0	-1	7.1	0	1.1	0	0.283	-1	1.814	-1	6.407	0	1623	42	0.9
43940.3	10000	41.8065	92.3666	-791	QK	2.0	-1	6.5	-1	1.1	0	0.309	-1	1.881	-1	6.097	-1	1611	37	0.9
43940.2	10000	41.8065	92.3657	-799	QK	2.3	0	6.6	-1	1.1	0	0.351	0	2.181	0	6.213	0	1621	47	0.9
43940.1	10000	41.8065	92.3649	-805	QK	2.5	0	6.8	-1	1.0	-1	0.371	0	2.421	0	6.523	0	1632	49	0.9
43940.0	10000	41.8065	92.3640	-809	QK	2.6	0	6.8	-1	1.1	-1	0.373	0	2.423	0	6.502	0	1633	38	0.9
43939.9	10000	41.8065	92.3631	-813	QK	2.5	0	7.2	0	1.0	-1	0.351	0	2.403	0	6.847	1	1668	49	0.9
43939.8	10000	41.8065	92.3622	-816	QK	2.5	0	7.1	0	1.1	0	0.351	0	2.282	0	6.510	0	1683	57	0.9
43939.7	10000	41.8065	92.3614	-817	QK	2.6	0	6.8	-1	1.1	0	0.381	0	2.282	0	5.994	-1	1705	41	0.9
43939.6	10000	41.8064	92.3605	-817	QK	2.6	0	7.7	1	1.1	0	0.334	0	2.312	0	6.916	1	1727	46	0.9
43939.5	10000	41.8064	92.3596	-816	QK	2.5	0	7.7	1	1.1	0	0.324	0	2.203	0	6.810	0	1744	48	0.9
43939.4	10000	41.8064	92.3587	-814	QK	2.4	0	7.6	1	1.2	0	0.316	0	2.038	0	6.439	0	1759	46	0.9
43939.3	10000	41.8064	92.3579	-809	QK	2.5	0	7.8	1	1.2	1	0.319	0	2.066	0	6.486	0	1774	47	0.9
43939.2	10000	41.8064	92.3570	-804	QK	2.6	0	7.9	1	1.2	0	0.333	0	2.224	0	6.683	0	1765	53	0.9
43939.1	10000	41.8064	92.3561	-803	QK	2.9	1	7.8	1	1.1	0	0.365	0	2.567	1	7.031	1	1753	45	0.9
43939.0	10000	41.8064	92.3552	-803	QK	3.0	1	8.2	1	1.1	0	0.361	0	2.741	1	7.591	2	1746	40	0.9
43938.9	10000	41.8064	92.3543	-798	QK	3.3	2	7.8	1	1.1	-1	0.418	1	3.114	2	7.448	1	1743	51	0.9
43938.8	10000	41.8063	92.3535	-795	QK	3.3	2	7.5	1	1.0	-1	0.443	1	3.142	2	7.097	1	1740	39	0.9
43938.7	10000	41.8063	92.3526	-791	QK	3.3	2	7.4	1	1.0	-1	0.446	1	3.289	2	7.381	1	1727	52	0.9
43938.6	10000	41.8063	92.3517	-788	QK	3.2	1	7.3	1	1.1	-1	0.425	1	3.099	2	7.288	1	1723	54	0.9
43938.5	10000	41.8062	92.3508	-785	QK	3.1	1	7.5	1	1.1	0	0.422	1	2.871	1	6.801	0	1746	41	0.9
43938.4	10000	41.8062	92.3499	-782	QK	2.9	1	7.5	1	1.1	0	0.407	1	2.764	1	6.784	0	1765	41	0.9
43938.3	10000	41.8062	92.3490	-780	QK	2.9	1	7.4	1	1.2	0	0.392	1	2.579	1	6.586	0	1790	51	0.9
43938.2	10000	41.8062	92.3481	-778	QK	3.1	1	7.6	1	1.2	0	0.377	1	2.382	1	6.321	0	1812	27	0.9
43938.1	10000	41.8061	92.3473	-778	QK	3.1	1	7.6	1	1.2	0	0.404	1	2.567	1	6.353	0	1815	51	0.9
43938.0	10000	41.8061	92.3464	-777	QK	3.1	1	7.8	1	1.2	0	0.394	1	2.500	1	6.344	0	1832	52	0.9
43937.9	10000	41.8061	92.3455	-778	QK	3.1	1	7.9	1	1.2	0	0.389	1	2.619	1	6.724	1	1840	55	0.9
43937.8	10000	41.8061	92.3446	-780	QK	3.0	1	8.0	1	1.2	0	0.376	1	2.543	1	6.770	1	1838	45	0.9
43937.7	10000	41.8060	92.3437	-782	QK	2.8	1	7.4	1	1.2	0	0.372	1	2.363	1	6.360	0	1830	49	0.8
43937.6	10000	41.8060	92.3428	-784	QK	2.9	1	7.6	1	1.2	0	0.381	1	2.400	1	6.300	0	1824	47	0.8
43937.5	10000	41.8060	92.3419	-787	QK	2.8	1	7.1	1	1.2	0	0.387	1	2.362	1	6.101	-1	1806	39	0.8
43937.4	10000	41.8060	92.3411	-790	QK	2.7	1	7.4	1	1.2	0	0.363	1	2.320	1	6.383	0	1812	53	0.8
43937.3	10000	41.8059	92.3402	-794	QK	2.8	1	7.5	1	1.2	0	0.375	1	2.364	1	6.298	0	1805	46	0.8
43937.2	10000	41.8059	92.3393	-797	QL	3.0	1	7.2	1	1.2	0	0.417	1	2.491	1	5.969	0	1797	45	0.8
43937.1	10000	41.8059	92.3384	-801	QL	3.1	2	7.1	1	1.2	0	0.443	1	2.608	1	5.894	-1	1776	37	0.8
43937.0	10000	41.8059	92.3375	-805	QL	3.2	2	7.7	1	1.2	0	0.415	1	2.720	1	6.556	1	1779	53	0.8
43936.9	10000	41.8058	92.3366	-809	QL	3.5	2	7.7	1	1.1	-1	0.451	1	3.008	2	6.667	1	1759	47	0.8
43936.8	10000	41.8058	92.3358	-812	QL	3.2	1	7.9	1	1.1	0	0.397	1	2.836	1	7.137	2	1755	40	0.8
43936.7	10000	41.8058	92.3349	-816	QL	3.1	1	7.6	1	1.1	-1	0.404	1	2.713	1	6.722	1	1750	57	0.8
43936.6	10000	41.8058	92.3340	-820	QL	2.9	1	7.2	1	1.1	-1	0.401	1	2.646	1	6.598	1	1742	42	0.8
43936.5	10000	41.8057	92.3331	-823	QL	2.6	1	6.9	-1	1.1	-1	0.378	1	2.327	1	6.153	1	1735	50	0.8
43936.4	10000	41.8057	92.3322	-825	QL	2.6	1	7.2	0	1.1	-1	0.366	0	2.337	0	6.393	0	1733	48	0.8

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43936.3	10000	41.8057	92.3313	-828	QL	2.7	0	7.0	0	1.1	0	0.390	0	2.384	0	6.108	0	1716	40	0.8
43936.2	10000	41.8056	92.3304	-830	QL	2.5	0	7.1	0	1.2	0	0.353	0	2.117	0	5.998	0	1728	39	0.8
43936.1	10000	41.8056	92.3295	-832	QL	2.4	0	6.8	-1	1.2	0	0.353	0	1.964	-1	5.571	-1	1724	38	0.8
43936.0	10000	41.8056	92.3287	-833	QL	2.4	0	6.9	-1	1.2	0	0.350	0	2.041	0	5.838	-1	1727	34	0.8
43935.9	10000	41.8056	92.3278	-834	QL	2.7	0	6.9	-1	1.2	0	0.386	0	2.269	0	5.878	-1	1728	37	0.8
43935.8	10000	41.8055	92.3269	-835	QL	2.9	1	7.2	0	1.2	0	0.403	1	2.462	1	6.114	0	1746	48	0.8
43935.7	10000	41.8055	92.3260	-837	QL	3.0	1	7.3	0	1.2	0	0.407	1	2.439	1	5.986	0	1770	50	0.8
43935.6	10000	41.8055	92.3251	-838	QL	2.9	1	7.3	0	1.2	0	0.395	1	2.368	0	5.992	0	1775	33	0.8
43935.5	10000	41.8055	92.3242	-838	QL	2.8	1	7.2	0	1.2	1	0.392	0	2.253	0	5.755	-1	1770	44	0.8
43935.4	10000	41.8054	92.3233	-838	QL	3.0	1	7.1	0	1.2	1	0.415	1	2.412	0	5.817	-1	1792	48	0.8
43935.3	10000	41.8054	92.3225	-837	QL	3.0	1	7.0	0	1.3	1	0.422	1	2.332	0	5.523	-1	1805	36	0.8
43935.2	10000	41.8054	92.3216	-837	QL	2.8	0	7.3	0	1.3	1	0.378	0	2.115	0	5.591	-1	1809	52	0.8
43935.1	10000	41.8054	92.3207	-836	QL	2.6	0	7.1	0	1.3	1	0.365	0	1.993	-1	5.455	-1	1801	47	0.8
43935.0	10000	41.8053	92.3198	-835	QL	2.5	0	7.1	0	1.3	1	0.354	0	1.917	-1	5.418	-1	1791	47	0.8
43934.9	10000	41.8053	92.3189	-833	QL	2.6	0	7.2	0	1.3	1	0.358	0	2.011	0	5.615	-1	1793	45	0.8
43934.8	10000	41.8053	92.3180	-831	QL	2.8	0	7.2	0	1.2	0	0.389	0	2.347	0	6.038	0	1800	47	0.8
43934.7	10000	41.8053	92.3172	-829	QL	2.8	0	7.3	0	1.2	0	0.384	0	2.407	0	6.273	0	1774	45	0.8
43934.6	10000	41.8052	92.3163	-826	QL	2.6	0	7.6	0	1.1	-1	0.349	0	2.349	0	6.723	1	1749	47	0.8
43934.5	10000	41.8052	92.3154	-823	QL	2.6	0	7.5	0	1.1	-1	0.343	0	2.390	0	6.960	1	1740	53	0.8
43934.4	10000	41.8052	92.3145	-820	QL	2.5	0	7.8	1	1.0	-1	0.322	-1	2.423	0	7.528	2	1735	58	0.8
43934.3	10000	41.8051	92.3136	-815	QL	2.5	0	7.6	1	1.0	-2	0.324	-1	2.445	1	7.546	2	1736	49	0.8
43934.2	10000	41.8051	92.3127	-811	QL	2.3	-1	7.7	1	1.1	-1	0.295	-1	2.094	0	7.103	2	1736	44	0.9
43934.1	10000	41.8051	92.3118	-805	QL	2.2	-1	7.6	1	1.1	0	0.288	-1	1.933	-1	6.703	1	1731	39	0.9
43934.0	10000	41.8051	92.3109	-799	QL	2.0	-1	7.3	1	1.2	0	0.279	-1	1.699	-1	6.096	0	1748	45	0.9
43933.9	10000	41.8050	92.3101	-792	QL	2.1	-1	7.0	0	1.2	1	0.302	-1	1.711	-1	5.663	-1	1762	51	0.9
43933.8	10000	41.8050	92.3092	-785	QL	2.2	-1	7.1	1	1.2	1	0.311	-1	1.745	-1	5.614	-1	1783	53	0.9
43933.7	10000	41.8050	92.3083	-778	QL	2.5	-1	7.1	1	1.3	2	0.350	0	1.876	-1	5.356	-1	1795	53	0.9
43933.6	10000	41.8050	92.3074	-771	QL	2.3	-1	6.9	0	1.3	2	0.339	0	1.798	-1	5.309	-1	1785	41	0.9
43933.5	10000	41.8049	92.3065	-764	QL	2.3	-1	7.1	1	1.3	2	0.326	-1	1.777	-1	5.443	-1	1772	53	0.9
43933.4	10000	41.8049	92.3056	-756	QL	2.0	-1	7.7	1	1.3	2	0.266	-2	1.546	-2	5.807	-1	1780	51	0.9
43933.3	10000	41.8049	92.3047	-749	QL	2.1	-1	7.3	1	1.3	2	0.288	-2	1.540	-2	6.206	0	1785	47	0.9
43933.2	10000	41.8049	92.3039	-741	QL	2.0	-1	6.4	0	1.4	2	0.230	-2	1.452	-2	6.298	0	1785	48	0.9
43933.1	10000	41.8048	92.3030	-734	QL	1.8	-2	6.3	0	1.3	2	0.211	-2	1.299	-2	6.160	0	1759	37	0.9
43933.0	10000	41.8048	92.3021	-727	QL	1.6	-2	6.2	0	1.3	2	0.190	-2	1.193	-2	6.286	0	1721	58	0.9
43932.9	10000	41.8048	92.3012	-719	QL	1.9	-1	6.8	1	1.3	2	0.236	-2	1.513	-2	6.411	0	1704	50	0.9
43932.8	10000	41.8048	92.3003	-712	QL	2.2	-1	7.0	1	1.3	2	0.274	-1	1.680	-1	6.142	0	1715	35	0.9
43932.7	10000	41.8047	92.2994	-705	QL	2.2	-1	7.5	1	1.2	2	0.284	-1	1.793	-1	6.308	0	1689	48	0.9
43932.6	10000	41.8047	92.2986	-698	QL	2.1	-1	7.3	1	1.2	2	0.281	-1	1.752	-1	6.226	0	1675	46	0.9
43932.5	10000	41.8047	92.2977	-691	QL	2.1	-1	7.2	1	1.2	2	0.292	-1	1.814	-1	6.222	0	1661	46	0.9
43932.4	10000	41.8046	92.2968	-684	QL	2.3	-1	7.5	1	1.2	2	0.306	-1	1.988	-1	6.506	0	1680	44	0.9
43932.3	10000	41.8046	92.2959	-677	QL	2.6	0	7.3	1	1.2	1	0.354	0	2.262	0	6.382	0	1701	38	0.9
43932.2	10000	41.8046	92.2950	-671	QL	2.4	0	7.6	1	1.2	2	0.317	-1	2.053	0	6.485	0	1719	47	0.9
43932.1	10000	41.8046	92.2941	-664	QL	2.3	0	7.8	1	1.2	2	0.298	-1	2.002	0	6.709	0	1727	38	0.9
43932.0	10000	41.8045	92.2932	-657	QL	2.4	0	7.8	1	1.2	2	0.308	-1	1.967	-1	6.380	0	1753	50	0.9
43931.9	10000	41.8045	92.2924	-651	QL	2.4	0	7.8	1	1.2	2	0.307	-1	2.015	-1	6.169	0	1771	33	0.9
43931.8	10000	41.8045	92.2915	-644	QL	2.5	0	7.8	1	1.3	2	0.323	-1	2.074	-1	6.212	0	1781	50	0.9
43931.7	10000	41.8045	92.2906	-638	QL	2.5	0	7.6	1	1.3	2	0.328	-1	2.278	-1	6.090	0	1771	55	0.9
43931.6	10000	41.8044	92.2897	-632	QL	2.5	0	7.8	1	1.3	2	0.309	-1	1.916	-1	6.206	0	1787	46	0.9
43931.5	10000	41.8044	92.2888	-627	QL	2.5	0	7.9	1	1.3	2	0.306	-1	1.855	-1	6.070	0	1798	46	0.9
43931.4	10000	41.8044	92.2879	-621	QL	2.5	0	7.8	1	1.3	2	0.286	-1	1.827	-1	6.384	0	1792	48	0.9
43931.3	10000	41.8044	92.2870	-616	QL	2.5	0	7.8	1	1.3	2	0.322	-1	1.972	-1	6.118	0	1788	43	0.9
43931.2	10000	41.8043	92.2861	-612	QL	2.6	0	7.6	0	1.2	1	0.349	0	2.151	0	6.158	0	1782	41	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43931.1	10000	41.8043	92.2853	-608	QL	2.9	1	7.5	0	1.2	0	0.384	0	2.439	1	6.351	0	1790	42	0.9
43931.0	10000	41.8043	92.2844	-606	QL	3.0	1	7.3	0	1.2	0	0.407	0	2.479	1	6.094	0	1797	42	0.9
43930.9	10000	41.8043	92.2835	-604	QL	2.9	1	6.9	-1	1.1	0	0.469	1	2.850	1	6.079	0	1783	37	0.9
43930.8	10000	41.8042	92.2826	-603	QL	2.9	1	7.0	0	1.1	0	0.462	2	2.858	2	6.180	0	1781	46	0.9
43930.7	10000	41.8042	92.2817	-603	QL	2.7	1	6.5	-1	1.2	0	0.497	2	2.797	1	5.625	-1	1768	59	0.9
43930.6	10000	41.8042	92.2808	-605	QL	2.8	1	6.7	-1	1.2	0	0.474	2	2.714	1	5.731	-1	1758	55	0.9
43930.5	10000	41.8041	92.2800	-607	QL	2.8	0	6.8	-1	1.2	0	0.410	1	2.388	0	5.822	-1	1746	44	0.9
43930.4	10000	41.8041	92.2791	-610	QL	2.4	0	6.9	0	1.2	0	0.340	0	1.906	-1	5.609	-1	1724	50	0.9
43930.3	10000	41.8041	92.2782	-614	QL	2.3	-1	7.4	0	1.2	0	0.311	-1	1.922	-1	6.178	0	1697	42	0.9
43930.2	10000	41.8041	92.2773	-619	QL	2.1	-1	7.9	1	1.2	0	0.268	-1	1.774	-1	6.630	1	1702	54	0.9
43930.1	10000	41.8040	92.2764	-625	QL	2.3	-1	7.6	1	1.2	0	0.300	-1	1.903	-1	6.354	0	1702	51	0.9
43930.0	10000	41.8040	92.2755	-631	QL	2.6	0	7.6	0	1.2	0	0.342	0	2.147	0	6.275	0	1724	42	0.9
43929.9	10000	41.8040	92.2746	-638	QL	2.7	0	7.4	0	1.2	0	0.367	0	2.278	0	6.201	0	1724	47	0.9
43929.8	10000	41.8040	92.2738	-645	QL	2.7	0	7.3	0	1.2	0	0.371	0	2.185	0	5.892	-1	1731	55	0.9
43929.7	10000	41.8039	92.2729	-652	QL	2.9	1	7.1	0	1.2	0	0.404	1	2.388	0	5.908	0	1742	31	0.9
43929.6	10000	41.8039	92.2720	-658	QL	3.2	1	6.9	0	1.2	0	0.462	2	2.603	1	5.630	-1	1754	41	0.9
43929.5	10000	41.8039	92.2711	-666	QL	3.4	2	6.6	-1	1.3	1	0.512	2	2.699	1	5.275	-2	1751	48	0.9
43929.4	10000	41.8038	92.2702	-673	QL	3.4	2	6.5	-1	1.2	1	0.521	2	2.752	1	5.285	-2	1749	47	0.9
43929.3	10000	41.8038	92.2693	-679	QL	3.1	1	6.7	-1	1.2	0	0.469	2	2.559	1	5.456	-1	1736	50	0.9
43929.2	10000	41.8038	92.2684	-685	QL	2.8	1	7.0	0	1.2	0	0.405	1	2.358	0	5.825	-1	1734	43	0.9
43929.1	10000	41.8038	92.2676	-692	QL	2.9	1	7.2	0	1.2	0	0.401	1	2.414	0	6.019	0	1732	48	0.9
43929.0	10000	41.8037	92.2667	-697	QL	3.0	1	7.1	0	1.2	0	0.416	1	2.428	1	5.833	-1	1725	54	0.9
43928.9	10000	41.8037	92.2658	-702	QL	2.8	1	7.0	0	1.3	1	0.406	1	2.246	0	5.531	-1	1748	40	0.9
43928.8	10000	41.8037	92.2649	-707	QL	2.8	1	7.1	0	1.3	1	0.390	0	2.071	0	5.306	-1	1756	59	0.9
43928.7	10000	41.8037	92.2640	-711	QL	2.6	0	6.8	-1	1.3	1	0.378	0	1.920	-1	5.075	-2	1749	49	0.9
43928.6	10000	41.8036	92.2631	-715	QL	2.6	0	7.0	-1	1.3	1	0.368	0	1.975	-1	5.367	-1	1742	49	0.9
43928.5	10000	41.8036	92.2622	-718	QL	2.9	1	7.1	0	1.3	1	0.404	1	2.151	0	5.319	-1	1745	41	0.9
43928.4	10000	41.8036	92.2614	-721	QL	2.9	1	6.7	-1	1.3	1	0.441	1	2.347	0	5.322	-1	1726	36	0.9
43928.3	10000	41.8036	92.2605	-723	QL	2.8	1	6.6	-1	1.2	1	0.419	1	2.305	0	5.506	-1	1714	57	1.0
43928.2	10000	41.8035	92.2596	-724	QL	2.5	1	6.5	-1	1.2	1	0.391	1	2.096	0	5.364	-1	1696	48	1.0
43928.1	10000	41.8035	92.2587	-725	QL	2.3	1	6.6	-2	1.1	1	0.372	1	1.980	0	5.328	-1	1676	43	1.0
43928.0	10000	41.8035	92.2578	-726	QL	2.8	1	6.6	-1	1.2	1	0.414	1	2.415	0	5.831	-1	1694	44	1.0
43927.9	10000	41.8035	92.2569	-729	QL	2.7	1	6.5	-1	1.2	1	0.407	1	2.237	0	5.497	-1	1711	54	1.0
43927.8	10000	41.8034	92.2560	-730	QL	2.6	1	6.2	-2	1.2	1	0.422	1	2.180	0	5.161	-2	1702	55	1.0
43927.7	10000	41.8034	92.2552	-730	QL	2.7	1	6.6	-1	1.2	1	0.406	1	2.267	0	5.584	-1	1722	41	1.0
43927.6	10000	41.8034	92.2543	-732	QL	2.8	1	6.9	0	1.2	1	0.403	1	2.325	0	5.767	-1	1747	38	1.0
43927.5	10000	41.8033	92.2534	-733	QL	2.8	1	7.2	1	1.2	1	0.392	1	2.421	0	6.180	0	1763	45	1.0
43927.4	10000	41.8033	92.2525	-734	QL	3.0	1	7.3	1	1.2	1	0.415	1	2.611	1	6.285	0	1774	51	0.9
43927.3	10000	41.8033	92.2516	-734	QL	2.5	1	7.1	0	1.2	1	0.346	0	2.124	0	6.132	0	1764	38	0.9
43927.2	10000	41.8033	92.2507	-734	QL	2.8	1	7.2	0	1.1	1	0.391	1	2.489	0	6.371	0	1774	45	0.9
43927.1	10000	41.8032	92.2498	-734	QL	2.7	1	7.5	0	1.1	1	0.362	1	2.426	0	6.699	1	1784	47	0.9
43927.0	10000	41.8032	92.2490	-734	QL	2.6	1	7.3	0	1.2	1	0.349	0	2.153	0	6.168	0	1778	47	0.9
43926.9	10000	41.8032	92.2481	-733	QL	2.7	1	7.1	0	1.2	1	0.380	1	2.323	0	6.108	0	1767	44	0.9
43926.8	10000	41.8032	92.2472	-733	QL	2.8	1	7.0	0	1.2	1	0.406	1	2.461	0	6.058	0	1746	34	0.9
43926.7	10000	41.8031	92.2463	-733	QL	2.8	1	7.0	0	1.2	1	0.391	1	2.378	0	6.085	0	1740	53	0.9
43926.6	10000	41.8031	92.2454	-732	QL	2.9	1	7.1	0	1.1	1	0.404	1	2.573	0	6.368	0	1723	52	0.9
43926.5	10000	41.8031	92.2445	-732	QL	2.8	1	7.2	0	1.1	1	0.384	1	2.591	0	6.740	1	1701	39	0.9
43926.4	10000	41.8030	92.2437	-731	QL	2.7	1	7.1	0	1.1	0	0.379	1	2.527	0	6.662	1	1713	56	0.9
43926.3	10000	41.8030	92.2428	-731	QL	2.9	1	7.5	-1	1.1	0	0.385	1	2.854	0	7.404	2	1711	53	0.9
43926.2	10000	41.8030	92.2419	-732	QL	2.6	1	7.6	-2	1.1	1	0.337	1	2.376	0	7.060	1	1712	48	0.9
43926.1	10000	41.8030	92.2410	-733	QL	2.4	1	7.5	-1	1.1	1	0.321	1	2.128	0	6.632	1	1736	45	0.9
43926.0	10000	41.8029	92.2401	-733	QL	2.6	0	7.4	-1	1.1	0	0.349	0	2.320	0	6.648	1	1727	53	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43925.9	10000	41.8029	92.2392	-733	QL	2.5	0	7.1	0	1.1	0	0.350	0	2.194	0	6.274	0	1725	42	0.9
43925.8	10000	41.8029	92.2383	-732	QL	2.3	-1	6.6	-1	1.2	0	0.343	0	1.886	-1	5.507	-1	1713	50	0.9
43925.7	10000	41.8029	92.2374	-733	QL	2.3	-1	6.9	-1	1.2	0	0.336	0	1.924	-1	5.730	-1	1686	37	0.9
43925.6	10000	41.8028	92.2366	-734	QL	2.3	-1	6.2	-2	1.2	0	0.373	0	1.973	-1	5.294	-2	1683	42	0.9
43925.5	10000	41.8028	92.2357	-734	QL	2.6	0	6.6	-1	1.1	-1	0.394	1	2.325	0	5.900	-1	1678	40	0.9
43925.4	10000	41.8028	92.2348	-734	QL	2.7	0	7.0	0	1.0	-1	0.381	0	2.575	1	6.759	1	1666	54	0.9
43925.3	10000	41.8028	92.2339	-734	QL	2.5	0	7.5	0	1.1	-1	0.328	0	2.309	0	7.038	1	1682	51	0.9
43925.2	10000	41.8028	92.2331	-732	QL	2.6	0	7.5	0	1.1	-1	0.342	0	2.329	0	6.818	1	1697	39	0.9
43925.1	10000	41.8028	92.2322	-732	QL	2.6	0	7.6	1	1.1	-1	0.345	0	2.350	0	6.820	1	1716	42	0.9
43925.0	10000	41.8028	92.2314	-733	QL	2.9	1	7.0	0	1.1	0	0.410	1	2.556	1	6.229	0	1716	38	0.9
43924.9	10000	41.8028	92.2305	-734	QL	2.8	0	7.0	0	1.2	0	0.400	1	2.394	0	5.983	0	1715	49	0.9
43924.8	10000	41.8028	92.2297	-735	QL	2.7	0	6.6	-1	1.2	0	0.403	1	2.221	0	5.508	-1	1714	40	0.9
43924.7	10000	41.8028	92.2288	-735	QL	2.7	0	6.0	-2	1.3	1	0.440	1	2.100	0	4.773	-2	1711	27	0.9
43924.6	10000	41.8029	92.2280	-735	QL	2.9	1	5.6	-3	1.3	1	0.523	2	2.234	0	4.268	-3	1726	44	0.9
43924.5	10000	41.8029	92.2271	-734	QL	2.2	1	5.9	-2	1.3	1	0.541	3	2.460	1	4.546	-3	1732	52	0.9
43924.4	10000	41.8029	92.2263	-735	QL	2.2	1	5.9	-2	1.3	1	0.551	3	2.542	1	4.616	-3	1737	38	0.9
43924.3	10000	41.8029	92.2254	-735	QL	2.0	1	6.2	-2	1.3	1	0.511	2	2.489	1	4.868	-2	1757	52	0.9
43924.2	10000	41.8029	92.2246	-735	QL	2.0	1	6.8	-1	1.3	1	0.447	1	2.414	0	5.406	-1	1768	35	0.9
43924.1	10000	41.8029	92.2237	-735	QL	2.2	1	7.3	0	1.2	1	0.413	1	2.459	1	5.949	0	1784	55	0.9
43924.0	10000	41.8029	92.2229	-734	QL	2.0	1	7.8	1	1.2	0	0.387	0	2.519	1	6.509	1	1767	59	0.9
43923.9	10000	41.8029	92.2220	-734	QL	2.3	0	7.9	1	1.1	0	0.331	0	2.300	0	6.943	1	1746	48	0.9
43923.8	10000	41.8029	92.2212	-734	QL	2.4	-1	8.0	1	1.2	0	0.289	-1	1.964	-1	6.783	1	1738	35	0.9
43923.7	10000	41.8029	92.2203	-733	QL	2.3	0	8.1	1	1.2	0	0.293	-1	2.010	0	6.850	1	1731	52	0.9
43923.6	10000	41.8029	92.2195	-733	QL	2.3	-1	8.1	1	1.2	0	0.284	-1	1.977	-1	6.958	1	1722	44	0.9
43923.5	10000	41.8029	92.2186	-733	QL	2.5	0	7.7	1	1.2	0	0.319	-1	2.025	0	6.345	0	1739	45	0.9
43923.4	10000	41.8030	92.2177	-733	QL	2.3	-1	7.5	0	1.2	1	0.304	-1	1.825	-1	5.999	0	1747	22	0.9
43923.3	10000	41.8030	92.2169	-733	QL	2.4	0	7.5	0	1.3	1	0.316	-1	1.825	-1	5.767	-1	1782	47	0.9
43923.2	10000	41.8030	92.2160	-733	QL	2.7	0	7.5	1	1.3	1	0.356	-1	2.125	-1	5.972	0	1796	44	0.9
43923.1	10000	41.8030	92.2152	-732	QL	2.9	1	7.5	1	1.2	1	0.410	0	2.399	0	5.850	-1	1797	46	0.9
43923.0	10000	41.8030	92.2143	-732	QL	2.8	1	7.6	1	1.2	1	0.405	0	2.268	0	5.605	-1	1798	51	0.9
43922.9	10000	41.8030	92.2135	-731	QL	2.8	1	7.9	1	1.2	1	0.405	0	2.277	0	5.625	-1	1805	40	0.9
43922.8	10000	41.8030	92.2126	-731	QL	2.7	0	7.6	1	1.2	1	0.355	0	2.199	0	6.199	0	1790	30	0.9
43922.7	10000	41.8030	92.2118	-731	QL	2.7	0	7.4	1	1.2	1	0.371	0	2.319	0	6.245	0	1772	52	0.9
43922.6	10000	41.8030	92.2109	-730	QL	2.8	1	7.1	1	1.2	1	0.398	0	2.475	0	6.225	0	1754	46	0.9
43922.5	10000	41.8030	92.2101	-728	QK	2.8	1	7.0	2	1.2	1	0.395	0	2.393	0	6.056	-1	1747	46	0.9
43922.4	10000	41.8030	92.2092	-728	QK	2.5	1	7.3	2	1.2	1	0.345	0	2.078	0	6.030	-1	1758	43	0.9
43922.3	10000	41.8031	92.2084	-727	QK	2.5	1	7.5	2	1.2	1	0.346	0	2.098	0	6.060	-1	1760	43	0.9
43922.2	10000	41.8031	92.2075	-726	QK	2.4	1	7.5	2	1.2	1	0.325	0	2.049	0	6.297	0	1751	38	0.9
43922.1	10000	41.8031	92.2067	-725	QK	2.5	1	7.6	2	1.2	1	0.362	0	2.026	-1	5.594	-1	1762	45	0.9
43922.0	10000	41.8031	92.2058	-725	QK	2.5	1	7.6	2	1.2	1	0.387	0	2.102	-1	5.430	-1	1775	57	0.9
43921.9	10000	41.8031	92.2050	-723	QK	2.5	1	7.6	2	1.2	1	0.365	0	1.936	-1	5.297	-2	1778	39	0.9
43921.8	10000	41.8031	92.2041	-722	QK	2.5	1	7.6	3	1.2	1	0.358	0	1.789	-1	4.996	-2	1788	52	0.9
43921.7	10000	41.8031	92.2033	-721	QK	2.5	1	7.6	3	1.2	1	0.384	0	1.954	-1	5.083	-2	1774	48	0.9
43921.6	10000	41.8031	92.2024	-719	QK	2.7	1	7.6	3	1.2	1	0.396	0	2.153	0	5.444	-1	1778	55	0.9
43921.5	10000	41.8031	92.2016	-718	QK	2.8	1	7.7	3	1.2	1	0.424	0	2.260	0	5.325	-2	1782	50	0.9
43921.4	10000	41.8031	92.2007	-716	QK	3.0	1	7.8	3	1.2	1	0.442	0	2.470	0	5.585	-1	1767	48	0.9
43921.3	10000	41.8032	92.1998	-715	QK	3.0	1	8.0	3	1.2	1	0.399	0	2.330	0	5.840	-1	1768	35	0.9
43921.2	10000	41.8032	92.1990	-714	QK	3.0	1	8.1	3	1.2	1	0.406	0	2.494	0	6.146	0	1770	38	0.9
43921.1	10000	41.8032	92.1981	-713	QK	3.0	1	8.4	3	1.2	1	0.388	0	2.505	0	6.455	0	1759	61	0.9
43921.0	10000	41.8032	92.1973	-713	QK	3.0	1	8.4	3	1.2	1	0.353	0	2.507	0	6.600	0	1764	52	0.9
43920.9	10000	41.8032	92.1964	-713	QK	3.0	1	8.1	3	1.2	1	0.373	0	2.443	0	6.873	0	1777	50	0.9
43920.8	10000	41.8032	92.1956	-713	QK	2.7	0	8.0	3	1.2	0	0.342	0	2.310	0	6.749	0	1774	45	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43920.7	10000	41.8032	92.1947	-713	QK	2.7	0	8.1	1	1.2	1	0.332	0	2.249	0	6.766	0	1781	52	0.9
43920.6	10000	41.8032	92.1939	-712	QK	2.8	1	7.5	0	1.1	0	0.368	0	2.428	0	6.591	0	1776	50	0.9
43920.5	10000	41.8032	92.1930	-713	QK	2.6	0	7.3	0	1.1	0	0.350	0	2.227	0	6.361	0	1776	43	0.9
43920.4	10000	41.8032	92.1922	-714	QK	3.0	1	7.5	0	1.2	1	0.394	1	2.490	0	6.319	0	1792	34	0.9
43920.3	10000	41.8033	92.1913	-715	QK	2.7	0	7.5	0	1.2	1	0.363	0	2.180	0	6.008	-1	1794	44	0.9
43920.2	10000	41.8033	92.1905	-717	QK	2.6	0	7.3	0	1.3	1	0.353	0	2.028	-1	5.747	-1	1801	45	0.9
43920.1	10000	41.8033	92.1896	-719	QK	2.5	0	7.1	0	1.3	1	0.345	0	1.899	-1	5.506	-1	1804	53	0.9
43920.0	10000	41.8033	92.1888	-721	QK	2.5	0	7.3	0	1.3	1	0.338	0	1.961	-1	5.805	-1	1821	51	0.9
43919.9	10000	41.8033	92.1879	-723	QK	2.5	0	7.6	0	1.3	1	0.330	0	1.965	-1	5.948	-1	1819	54	0.9
43919.8	10000	41.8033	92.1871	-726	QK	2.7	0	8.1	1	1.2	1	0.335	0	2.162	0	6.458	0	1829	44	0.9
43919.7	10000	41.8033	92.1862	-729	QK	2.5	0	7.8	1	1.2	1	0.323	0	2.069	0	6.403	0	1826	51	0.9
43919.6	10000	41.8033	92.1854	-731	QK	2.7	0	7.8	1	1.1	0	0.340	0	2.333	0	6.863	1	1815	49	0.9
43919.5	10000	41.8033	92.1845	-734	QK	2.9	1	7.7	1	1.2	0	0.378	0	2.519	1	6.655	0	1787	56	0.9
43919.4	10000	41.8033	92.1837	-736	QK	2.8	1	7.9	1	1.1	0	0.353	0	2.476	0	7.019	1	1794	50	0.9
43919.3	10000	41.8033	92.1828	-738	QK	2.7	0	7.8	1	1.2	0	0.350	0	2.361	0	6.754	0	1778	35	0.9
43919.2	10000	41.8034	92.1819	-740	QK	2.6	1	7.7	1	1.2	1	0.341	0	2.217	0	6.498	0	1779	41	0.9
43919.1	10000	41.8034	92.1811	-742	QK	2.3	0	7.3	0	1.2	1	0.320	0	1.984	-1	6.206	0	1747	44	0.9
43919.0	10000	41.8034	92.1802	-744	QK	2.3	0	7.0	0	1.2	1	0.328	0	1.935	-1	5.908	-1	1716	44	0.9
43918.9	10000	41.8034	92.1794	-745	QK	2.5	-1	6.8	-1	1.2	1	0.373	0	2.092	0	5.614	-1	1695	57	0.9
43918.8	10000	41.8034	92.1785	-747	QK	2.4	-1	6.6	-1	1.2	1	0.362	0	1.960	-1	5.408	-2	1677	48	0.9
43918.7	10000	41.8034	92.1777	-748	QK	2.7	-1	6.4	-1	1.2	1	0.426	1	2.262	0	5.307	-2	1656	47	0.9
43918.6	10000	41.8034	92.1768	-748	QK	2.8	0	6.0	-2	1.2	0	0.474	2	2.458	0	5.183	-2	1624	37	0.9
43918.5	10000	41.8034	92.1760	-749	QK	2.7	0	5.9	-2	1.2	0	0.455	1	2.328	0	5.115	-2	1605	44	0.9
43918.4	10000	41.8034	92.1751	-748	QK	2.8	1	5.8	-2	1.2	1	0.483	2	2.336	0	4.835	-2	1621	53	0.9
43918.3	10000	41.8034	92.1743	-749	QK	2.7	0	6.3	-1	1.2	1	0.423	1	2.178	0	5.150	-2	1643	40	0.9
43918.2	10000	41.8034	92.1734	-750	QK	2.4	-1	6.7	-1	1.2	1	0.356	1	1.919	-1	5.390	-2	1660	50	0.9
43918.1	10000	41.8034	92.1726	-752	QK	2.5	0	6.9	-1	1.2	1	0.358	1	2.079	-1	5.800	-1	1677	47	0.9
43918.0	10000	41.8035	92.1717	-753	QK	2.4	0	7.1	0	1.2	1	0.343	1	1.997	-1	5.827	-1	1697	41	0.9
43917.9	10000	41.8035	92.1709	-753	QK	2.2	0	7.3	0	1.3	1	0.305	1	1.763	-1	5.789	-1	1719	39	0.9
43917.8	10000	41.8035	92.1700	-753	QK	2.5	0	7.4	0	1.3	1	0.333	1	2.012	-1	6.049	-1	1732	61	0.9
43917.7	10000	41.8035	92.1692	-752	QK	2.5	0	7.3	0	1.2	1	0.340	1	2.004	-1	5.887	-1	1721	38	0.9
43917.6	10000	41.8035	92.1683	-752	QK	2.8	0	6.9	0	1.2	1	0.401	1	2.291	0	5.719	-1	1708	36	0.9
43917.5	10000	41.8035	92.1675	-751	QK	2.9	0	6.5	0	1.2	1	0.438	1	2.444	0	5.579	-1	1684	62	0.9
43917.4	10000	41.8035	92.1666	-750	QK	2.9	0	6.4	0	1.2	1	0.458	1	2.405	0	5.254	-2	1666	49	0.9
43917.3	10000	41.8035	92.1658	-747	QK	2.9	0	6.5	0	1.2	1	0.489	1	2.489	0	5.086	-2	1629	61	0.9
43917.2	10000	41.8035	92.1649	-743	QK	2.8	0	6.8	0	1.1	1	0.487	1	2.556	0	5.248	-2	1613	49	0.9
43917.1	10000	41.8035	92.1640	-744	QK	2.8	0	6.9	0	1.1	1	0.480	1	2.363	0	4.923	-2	1604	59	0.9
43917.0	10000	41.8036	92.1632	-748	QK	2.8	0	6.9	0	1.1	1	0.473	1	2.571	0	5.437	-1	1596	43	0.9
43916.9	10000	41.8036	92.1623	-749	QK	2.6	0	6.9	0	1.1	1	0.441	1	2.462	0	5.588	-1	1572	46	0.9
43916.8	10000	41.8036	92.1615	-749	QK	2.7	0	6.9	0	1.1	1	0.454	1	2.566	0	5.647	-1	1584	41	0.9
43916.7	10000	41.8036	92.1606	-748	QK	2.6	0	6.9	0	1.1	0	0.429	1	2.530	0	5.891	-1	1592	48	0.9
43916.6	10000	41.8036	92.1598	-748	QK	2.7	0	6.9	0	1.1	1	0.456	1	2.492	0	5.461	-1	1595	53	0.9
43916.5	10000	41.8036	92.1589	-748	QK	2.7	0	6.9	0	1.1	1	0.441	1	2.479	0	5.625	-1	1580	37	0.9
43916.4	10000	41.8036	92.1581	-747	QK	2.4	-1	6.9	-1	1.1	0	0.397	1	2.318	0	5.833	-1	1580	56	0.9
43916.3	10000	41.8036	92.1572	-746	QK	2.2	-1	6.8	-1	1.1	0	0.363	1	2.195	0	6.040	-1	1570	54	0.9
43916.2	10000	41.8036	92.1564	-746	QK	2.1	-1	6.6	-1	1.1	0	0.314	1	2.008	-1	6.400	-1	1581	48	0.9
43916.1	10000	41.8036	92.1555	-746	QK	1.7	-2	6.6	-1	1.1	-1	0.262	1	1.607	-1	6.127	-1	1583	41	0.9
43916.0	10000	41.8036	92.1547	-745	QK	1.7	-2	6.6	-1	1.1	-1	0.238	2	1.481	-2	6.224	0	1585	44	0.9
43915.9	10000	41.8036	92.1538	-745	QK	1.3	-3	6.6	-1	1.1	-2	0.162	2	1.110	-2	6.835	0	1595	49	0.9
43915.8	10000	41.8036	92.1530	-745	QK	1.4	-2	6.6	-1	1.1	-2	0.188	2	1.157	-2	6.165	0	1599	48	0.9
43915.7	10000	41.8037	92.1521	-744	QK	1.7	-1	7.4	0	1.1	-2	0.234	2	1.499	-2	6.408	0	1591	49	0.9
43915.6	10000	41.8037	92.1513	-743	QK	1.8	-1	7.2	0	1.2	-1	0.251	2	1.524	-2	6.063	-1	1604	48	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43915.5	10000	41.8037	92.1504	-743	QK	1.8	-1	6.9	0	1.2	0	0.269	-1	1.583	-1	5.889	-1	1606	56	0.9
43915.4	10000	41.8037	92.1496	-743	QK	2.3	0	6.9	0	1.2	1	0.330	0	1.872	-1	5.666	-1	1606	46	0.9
43915.3	10000	41.8037	92.1487	-742	QK	2.3	0	6.6	-1	1.2	1	0.345	0	1.960	-1	5.686	-1	1609	47	0.9
43915.2	10000	41.8037	92.1479	-741	QK	2.5	0	6.7	-1	1.1	0	0.380	0	2.217	0	5.834	-1	1616	34	0.9
43915.1	10000	41.8037	92.1470	-740	QK	2.4	0	6.9	0	1.1	0	0.347	0	2.174	0	6.268	0	1622	38	0.9
43915.0	10000	41.8037	92.1461	-740	QK	2.1	-1	7.2	0	1.1	0	0.291	-1	1.834	-1	6.296	0	1620	53	0.9
43914.9	10000	41.8037	92.1453	-739	QK	2.2	-1	7.0	0	1.1	0	0.317	0	1.950	-1	6.146	0	1617	46	0.9
43914.8	10000	41.8037	92.1444	-737	QK	2.4	0	6.8	-1	1.2	1	0.355	0	2.042	0	5.748	-1	1617	29	0.9
43914.7	10000	41.8037	92.1436	-736	QK	2.2	-1	7.0	0	1.1	0	0.318	0	1.978	-1	6.224	0	1615	38	0.9
43914.6	10000	41.8038	92.1427	-735	QK	2.2	-1	6.9	0	1.1	0	0.324	0	1.960	-1	6.056	-1	1606	48	0.9
43914.5	10000	41.8038	92.1419	-734	QK	2.0	-1	6.8	-1	1.1	0	0.296	-1	1.775	-1	6.002	-1	1595	41	0.9
43914.4	10000	41.8038	92.1410	-732	QK	2.1	-1	7.0	0	1.2	0	0.295	-1	1.781	-1	6.043	-1	1594	46	0.9
43914.3	10000	41.8038	92.1402	-730	QK	2.3	0	6.8	-1	1.2	0	0.338	0	1.990	-1	5.884	-1	1588	44	0.9
43914.2	10000	41.8038	92.1393	-729	QK	2.1	-1	6.7	-1	1.1	0	0.315	-1	1.926	-1	6.122	-1	1563	38	0.9
43914.1	10000	41.8038	92.1385	-727	QK	2.0	-1	6.9	0	1.1	-1	0.288	-1	1.897	-1	6.582	0	1549	37	0.9
43914.0	10000	41.8038	92.1376	-725	QAL	1.7	-1	6.8	0	1.0	0	0.256	-1	1.672	-1	6.539	1	1540	53	0.9
43913.9	10000	41.8038	92.1368	-723	QAL	1.8	-1	6.8	0	1.0	0	0.265	-1	1.726	-1	6.521	1	1537	51	0.9
43913.8	10000	41.8038	92.1359	-722	QAL	1.8	-1	6.6	0	1.0	0	0.280	-1	1.772	-1	6.337	0	1521	39	0.9
43913.7	10000	41.8038	92.1351	-720	QAL	1.8	-1	6.3	0	1.0	-1	0.292	-1	1.848	-1	6.322	0	1502	49	0.9
43913.6	10000	41.8038	92.1342	-719	QAL	1.7	-1	6.4	0	1.0	-1	0.270	-1	1.738	-1	6.426	0	1493	44	0.9
43913.5	10000	41.8038	92.1334	-717	QAL	1.5	-2	6.6	0	1.0	0	0.230	-2	1.496	-1	6.515	0	1505	32	0.9
43913.4	10000	41.8039	92.1325	-715	QAL	1.4	-2	6.6	0	1.0	0	0.205	-2	1.308	-2	6.370	0	1511	46	0.9
43913.3	10000	41.8039	92.1317	-714	QAL	1.7	-1	6.5	0	1.0	0	0.253	-1	1.598	-1	6.315	0	1525	40	0.9
43913.2	10000	41.8039	92.1308	-712	QAL	1.5	-2	6.7	0	1.0	0	0.223	-2	1.431	-2	6.412	0	1548	52	0.9
43913.1	10000	41.8039	92.1300	-711	QAL	1.7	-1	6.6	0	1.1	0	0.253	-1	1.550	-2	6.131	0	1564	52	0.9
43913.0	10000	41.8039	92.1291	-710	QAL	1.9	-1	6.6	0	1.1	0	0.302	-1	1.737	-1	5.746	0	1603	52	0.9
43912.9	10000	41.8039	92.1283	-709	QAL	2.2	-1	6.6	0	1.1	0	0.357	-1	2.063	-1	5.777	0	1637	46	0.9
43912.8	10000	41.8039	92.1274	-709	QAL	2.7	-1	6.6	0	1.1	0	0.450	-1	2.585	-1	5.746	0	1653	56	0.9
43912.7	10000	41.8039	92.1265	-708	QAL	2.9	-1	6.6	0	1.1	0	0.472	-1	2.852	-1	6.040	0	1665	34	0.9
43912.6	10000	41.8039	92.1257	-707	QAL	2.8	-1	6.6	0	1.1	0	0.451	-1	2.835	-1	6.286	0	1662	41	0.9
43912.5	10000	41.8039	92.1248	-706	QAL	3.0	-1	6.6	0	1.1	0	0.490	-1	3.266	-1	6.664	0	1669	36	0.9
43912.4	10000	41.8039	92.1240	-705	QAL	3.4	-1	6.6	0	1.1	0	0.538	-1	3.669	-1	6.815	0	1674	63	0.9
43912.3	10000	41.8039	92.1231	-704	QAL	3.2	-1	6.5	0	1.1	0	0.457	-1	3.504	-1	7.671	0	1666	44	0.9
43912.2	10000	41.8040	92.1223	-704	QAL	3.0	-1	6.5	0	1.1	0	0.428	-1	3.032	-1	7.080	0	1661	47	0.9
43912.1	10000	41.8040	92.1214	-703	QAL	2.8	-1	6.5	0	1.1	0	0.399	-1	2.760	-1	6.915	0	1677	45	0.9
43912.0	10000	41.8040	92.1206	-703	QAL	2.6	-1	6.5	0	1.1	0	0.426	-1	2.734	-1	6.423	0	1694	54	0.9
43911.9	10000	41.8040	92.1197	-702	QAL	2.6	-1	6.5	0	1.1	0	0.404	-1	2.582	-1	6.386	0	1700	44	0.9
43911.8	10000	41.8040	92.1189	-701	QAL	2.4	-1	6.5	0	1.1	0	0.364	-1	2.193	-1	6.032	0	1679	42	0.9
43911.7	10000	41.8040	92.1180	-700	QAL	2.3	-1	6.5	0	1.1	0	0.307	-1	1.887	-1	6.138	0	1683	46	0.9
43911.6	10000	41.8040	92.1172	-699	QAL	2.3	-1	6.5	0	1.1	0	0.312	-1	1.912	-1	6.125	0	1679	45	0.9
43911.5	10000	41.8040	92.1163	-697	QAL	2.3	-1	6.5	0	1.1	0	0.310	-1	1.916	-1	6.181	0	1686	59	0.9
43911.4	10000	41.8040	92.1155	-696	QAL	2.2	-1	6.5	0	1.1	0	0.294	-1	1.854	-1	6.309	0	1642	38	0.9
43911.3	10000	41.8040	92.1146	-695	QAL	2.2	-1	6.5	0	1.1	0	0.272	-1	1.688	-1	6.198	0	1625	40	0.9
43911.2	10000	41.8040	92.1138	-693	QAL	2.2	-1	6.5	0	1.1	0	0.261	-1	1.624	-1	6.210	0	1612	44	0.9
43911.1	10000	41.8041	92.1129	-691	QAL	2.2	-1	6.5	0	1.1	0	0.284	-1	1.763	-1	6.216	0	1601	40	0.9
43911.0	10000	41.8041	92.1121	-689	QAL	2.2	-1	6.5	0	1.1	0	0.264	-1	1.722	-1	6.533	0	1594	46	0.9
43910.9	10000	41.8041	92.1112	-688	QAL	2.2	-1	6.5	0	1.1	0	0.288	-1	1.795	-1	6.242	0	1591	52	0.9
43910.8	10000	41.8041	92.1104	-686	QAL	2.2	-1	6.5	0	1.1	0	0.313	-1	2.036	-1	6.508	0	1577	37	0.9
43910.7	10000	41.8041	92.1095	-684	QAL	2.2	-1	6.5	0	1.1	0	0.295	-1	2.079	-1	6.690	0	1584	58	0.9
43910.6	10000	41.8041	92.1086	-682	QAL	2.2	-1	6.5	0	1.1	0	0.340	-1	1.991	-2	6.742	0	1560	31	0.9
43910.5	10000	41.8041	92.1078	-680	QAL	2.2	-1	6.5	0	1.1	0	0.371	-1	2.192	-2	6.441	0	1559	51	0.9
43910.4	10000	41.8041	92.1069	-678	QAL	2.5	-1	6.7	0	1.0	0	0.377	-1	2.447	-2	6.594	0	1560	45	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43910.3	10000	41.8041	92.1061	-676	QAL	2.7	0	6.4	0	1.0	0	0.413	0	2.594	1	6.274	0	1546	43	0.8
43910.2	10000	41.8041	92.1052	-674	QAL	2.8	1	6.4	0	1.0	0	0.432	1	2.725	1	6.309	0	1529	35	0.8
43910.1	10000	41.8041	92.1044	-672	QAL	2.6	0	6.2	0	1.0	-1	0.421	1	2.602	1	6.174	0	1516	51	0.8
43910.0	10000	41.8042	92.1035	-670	QAL	2.6	0	6.2	0	1.0	0	0.417	0	2.537	0	6.089	0	1521	42	0.8
43909.9	10000	41.8042	92.1027	-667	QAL	2.9	1	6.2	0	1.0	0	0.464	1	2.767	1	5.964	0	1539	56	0.8
43909.8	10000	41.8042	92.1018	-665	QAL	2.9	1	6.2	0	1.0	0	0.463	1	2.757	1	5.953	0	1536	42	0.8
43909.7	10000	41.8042	92.1010	-663	QAL	2.6	0	6.3	0	1.1	0	0.409	0	2.436	0	5.963	0	1548	47	0.8
43909.6	10000	41.8042	92.1001	-660	QAL	2.3	0	6.1	0	1.1	0	0.382	0	2.141	0	5.600	-1	1560	58	0.8
43909.5	10000	41.8042	92.0993	-659	QAL	2.1	-1	6.2	0	1.1	0	0.342	0	1.906	-1	5.577	-1	1566	53	0.8
43909.4	10000	41.8042	92.0984	-657	QAL	2.1	-1	6.3	0	1.1	0	0.340	0	1.894	-1	5.564	-1	1568	40	0.8
43909.3	10000	41.8042	92.0976	-655	QAL	2.2	0	6.0	-1	1.1	0	0.368	0	1.979	-1	5.383	-1	1554	53	0.8
43909.2	10000	41.8042	92.0967	-653	QAL	2.0	-1	6.2	0	1.1	0	0.328	-1	1.922	-1	5.860	0	1536	45	0.8
43909.1	10000	41.8042	92.0959	-651	QAL	2.2	0	6.2	0	1.0	0	0.355	0	2.114	0	5.947	0	1528	38	0.8
43909.0	10000	41.8042	92.0950	-649	QAL	2.4	0	6.0	-1	1.0	0	0.394	0	2.329	0	5.908	0	1503	46	0.8
43908.9	10000	41.8042	92.0941	-648	QAL	2.6	0	6.0	0	0.9	-1	0.430	1	2.774	1	6.457	0	1482	48	0.8
43908.8	10000	41.8042	92.0933	-647	QAL	2.6	0	5.9	-1	0.9	-1	0.441	1	2.847	1	6.451	0	1471	42	0.8
43908.7	10000	41.8043	92.0924	-645	QAL	2.5	0	6.2	0	0.9	-1	0.401	0	2.714	1	6.775	1	1482	47	0.8
43908.6	10000	41.8043	92.0916	-644	QAL	2.4	0	5.9	-1	0.9	-1	0.413	0	2.711	1	6.558	1	1489	38	0.8
43908.5	10000	41.8043	92.0907	-642	QAL	2.4	0	5.8	-1	0.9	-1	0.408	0	2.566	0	6.284	0	1508	47	0.8
43908.4	10000	41.8043	92.0899	-640	QAL	2.5	0	6.1	0	0.9	-1	0.409	0	2.632	1	6.429	0	1526	52	0.8
43908.3	10000	41.8043	92.0890	-638	QAL	2.4	0	6.0	-1	0.9	-1	0.395	0	2.598	1	6.570	1	1541	56	0.8
43908.2	10000	41.8043	92.0882	-636	QAL	2.5	0	6.3	0	0.9	-1	0.403	0	2.692	1	6.674	1	1569	47	0.8
43908.1	10000	41.8043	92.0873	-634	QAL	2.7	0	6.2	0	1.0	-1	0.432	1	2.788	1	6.452	0	1591	50	0.8
43908.0	10000	41.8043	92.0865	-633	QAL	2.9	1	6.1	0	1.0	-1	0.479	1	3.154	2	6.578	1	1592	47	0.8
43907.9	10000	41.8043	92.0856	-631	QAL	3.0	1	6.5	0	0.9	-1	0.454	1	3.166	2	6.970	1	1609	41	0.8
43907.8	10000	41.8043	92.0847	-629	QAL	3.1	1	6.8	0	0.9	-1	0.453	1	3.305	2	7.298	1	1610	52	0.8
43907.7	10000	41.8043	92.0839	-627	QAL	2.6	0	6.6	0	0.9	-1	0.398	1	2.798	1	7.035	1	1595	51	0.8
43907.6	10000	41.8043	92.0830	-625	QAL	2.5	0	6.7	0	1.0	-1	0.379	0	2.626	1	6.931	1	1566	42	0.8
43907.5	10000	41.8043	92.0822	-622	QAL	2.3	0	6.3	0	1.0	-1	0.372	0	2.448	1	6.588	1	1521	57	0.8
43907.4	10000	41.8043	92.0813	-620	QAL	2.2	0	6.3	0	0.9	-1	0.348	0	2.309	1	6.631	1	1491	38	0.8
43907.3	10000	41.8043	92.0805	-618	QAL	2.0	-1	6.0	-1	0.9	-1	0.331	-1	2.119	0	6.411	0	1462	44	0.8
43907.2	10000	41.8044	92.0796	-616	QAL	2.0	-1	5.8	-1	1.0	-1	0.349	0	2.089	0	5.982	0	1457	50	0.8
43907.1	10000	41.8044	92.0788	-614	QAL	2.1	-1	5.5	-1	0.9	-1	0.374	0	2.162	0	5.783	0	1453	48	0.8
43907.0	10000	41.8044	92.0779	-612	QAL	2.2	0	5.8	-1	0.9	-1	0.386	0	2.391	0	6.201	0	1459	42	0.8
43906.9	10000	41.8044	92.0770	-610	QAL	2.5	0	5.5	-1	0.9	-1	0.454	1	2.685	1	5.911	0	1492	35	0.8
43906.8	10000	41.8044	92.0762	-608	QAL	2.4	0	5.7	-1	1.0	-1	0.433	1	2.532	1	5.847	0	1526	45	0.8
43906.7	10000	41.8044	92.0753	-606	QAL	2.6	0	6.0	-1	1.0	0	0.438	1	2.542	1	5.804	0	1536	25	0.9
43906.6	10000	41.8044	92.0745	-604	QAL	2.5	0	6.4	0	1.0	0	0.387	1	2.391	0	6.186	0	1546	54	0.9
43906.5	10000	41.8044	92.0736	-603	QAL	2.3	0	6.4	0	1.0	-1	0.361	0	2.325	0	6.437	0	1511	53	0.9
43906.4	10000	41.8044	92.0728	-601	QAL	2.3	0	6.0	-1	1.0	-1	0.380	0	2.271	0	5.977	0	1478	44	0.9
43906.3	10000	41.8044	92.0719	-599	QAL	2.2	0	5.6	-1	1.0	-1	0.401	0	2.258	0	5.634	-1	1436	46	0.9
43906.2	10000	41.8044	92.0711	-597	QAL	2.0	-1	5.5	-1	1.0	-1	0.361	0	2.032	-1	5.636	-1	1384	50	0.9
43906.1	10000	41.8044	92.0702	-596	QAL	1.8	-1	5.2	-1	0.9	-1	0.349	-1	1.905	-1	5.464	-1	1334	51	0.9
43906.0	10000	41.8044	92.0694	-592	QAL	1.8	-1	5.0	-1	0.9	-1	0.364	0	2.067	0	5.672	-1	1307	31	0.9
43905.9	10000	41.8044	92.0685	-589	QAL	2.0	-1	4.4	-2	0.9	-1	0.466	1	2.311	1	4.963	-1	1265	40	0.9
43905.8	10000	41.8045	92.0676	-588	QAL	1.9	-1	4.5	-2	0.8	-2	0.437	1	2.320	1	5.313	-1	1236	46	0.9
43905.7	10000	41.8045	92.0668	-586	QAL	1.9	-1	4.7	-2	0.8	-2	0.404	1	2.280	1	5.648	-1	1215	42	0.9
43905.6	10000	41.8045	92.0659	-585	QAL	1.9	-1	4.5	-2	0.9	-2	0.423	1	2.260	1	5.346	-1	1218	46	0.9
43905.5	10000	41.8045	92.0651	-582	QAL	1.8	-1	5.0	-2	0.9	-1	0.353	0	1.993	-1	5.638	-1	1234	44	0.9
43905.4	10000	41.8045	92.0642	-579	QAL	1.8	-1	5.3	-1	0.9	-1	0.340	0	1.984	-1	5.844	0	1262	34	0.9
43905.3	10000	41.8045	92.0634	-576	QAL	1.6	-2	5.4	-1	0.9	-1	0.304	-1	1.737	-1	5.709	-1	1291	37	0.9
43905.2	10000	41.8045	92.0625	-574	QAL	1.4	-2	5.6	-1	1.0	-1	0.256	-1	1.476	-2	5.759	0	1329	47	0.9

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43905.1	10000	41.8045	92.0616	-572	QAL	1.6	-2	6.3	0	1.0	-1	0.250	-1	1.610	-1	6.447	0	1373	48	0.9
43905.0	10000	41.8045	92.0608	-569	QAL	1.7	-1	6.5	0	1.0	0	0.257	-1	1.628	-1	6.340	0	1417	31	0.9
43904.9	10000	41.8045	92.0599	-566	QAL	1.6	-2	6.8	0	1.1	0	0.233	-2	1.492	-1	6.399	0	1458	46	0.9
43904.8	10000	41.8045	92.0591	-563	QAL	1.9	-1	6.6	0	1.1	0	0.291	-1	1.771	-1	6.081	0	1478	32	0.9
43904.7	10000	41.8045	92.0582	-560	QAL	1.9	-1	6.6	0	1.1	0	0.295	-1	1.754	-1	5.940	0	1491	38	0.9
43904.6	10000	41.8045	92.0574	-558	QAL	1.9	-1	6.6	0	1.1	0	0.289	-1	1.734	-1	5.996	0	1476	41	0.9
43904.5	10000	41.8045	92.0565	-556	QAL	2.0	-1	6.9	0	1.1	0	0.294	-1	1.930	-1	6.564	1	1468	48	0.9
43904.4	10000	41.8046	92.0557	-555	QAL	2.1	-1	6.5	0	1.1	0	0.317	-1	1.952	-1	6.152	0	1459	39	0.9
43904.3	10000	41.8046	92.0548	-554	QAL	1.9	-1	6.5	0	1.0	-1	0.288	-1	1.915	-1	6.641	1	1445	51	1.0
43904.2	10000	41.8046	92.0540	-554	QAL	2.0	-1	6.1	0	0.9	-1	0.325	-1	2.269	0	6.983	1	1412	50	1.0
43904.1	10000	41.8046	92.0531	-554	QAL	1.9	-1	6.2	0	0.8	-2	0.306	-1	2.316	0	7.562	2	1391	44	1.0
43904.0	10000	41.8046	92.0522	-554	QAL	2.1	-1	6.2	0	0.8	-2	0.334	-1	2.682	1	8.031	2	1357	41	1.0
43903.9	10000	41.8046	92.0514	-554	QAL	2.0	-1	6.2	0	0.8	-2	0.318	-1	2.602	1	8.180	3	1330	44	1.0
43903.8	10000	41.8046	92.0505	-555	QAL	1.8	-1	5.9	-1	0.8	-2	0.309	-1	2.382	0	7.703	2	1297	41	1.0
43903.7	10000	41.8046	92.0497	-556	QAL	1.7	-1	5.4	-1	0.8	-2	0.308	-1	2.155	0	6.998	1	1265	47	1.0
43903.6	10000	41.8046	92.0488	-557	QAL	1.8	-1	5.2	-1	0.8	-2	0.339	0	2.242	0	6.623	1	1235	52	1.0
43903.5	10000	41.8046	92.0480	-558	QAL	1.6	-1	5.5	-1	0.8	-2	0.297	-1	2.032	-1	6.836	1	1235	42	1.0
43903.4	10000	41.8046	92.0471	-559	QAL	1.4	-2	5.4	-1	0.8	-2	0.259	-1	1.737	-1	6.706	1	1235	59	1.0
43903.3	10000	41.8046	92.0462	-560	QAL	1.3	-2	5.2	-1	0.8	-2	0.242	-2	1.586	-1	6.538	1	1246	44	1.0
43903.2	10000	41.8046	92.0454	-562	QAL	1.4	-2	5.3	-1	0.8	-2	0.256	-1	1.665	-1	6.499	0	1273	45	1.0
43903.1	10000	41.8046	92.0445	-563	QAL	1.4	-2	5.1	-1	0.8	-2	0.276	-1	1.738	-1	6.291	0	1305	43	1.0
43903.0	10000	41.8046	92.0437	-563	QAL	1.5	-2	5.4	-1	0.8	-2	0.280	-1	1.862	-1	6.642	1	1354	40	1.0
43902.9	10000	41.8046	92.0428	-564	QAL	1.5	-2	5.6	-1	0.9	-1	0.270	-1	1.722	-1	6.376	0	1407	38	1.0
43902.8	10000	41.8046	92.0420	-565	QAL	1.6	-2	5.5	-1	1.0	-1	0.294	-1	1.648	-1	5.607	-1	1438	44	1.0
43902.7	10000	41.8046	92.0411	-566	QAL	1.8	-1	5.7	-1	1.0	0	0.311	-1	1.743	-1	5.605	-1	1462	48	1.0
43902.6	10000	41.8047	92.0403	-566	QAL	1.8	-1	5.9	-1	1.1	0	0.312	-1	1.700	-1	5.442	-1	1490	34	1.0
43902.5	10000	41.8047	92.0394	-566	QAL	1.8	-1	6.0	-1	1.1	0	0.297	-1	1.625	-1	5.478	-1	1523	47	1.0
43902.4	10000	41.8047	92.0386	-566	QAL	1.9	-1	6.2	0	1.1	0	0.302	-1	1.646	-1	5.458	-1	1534	37	1.0
43902.3	10000	41.8047	92.0377	-567	QAL	1.8	-1	5.8	-1	1.2	0	0.315	-1	1.531	-1	4.862	-2	1552	53	1.0
43902.2	10000	41.8047	92.0368	-566	QAL	2.0	-1	5.8	-1	1.2	0	0.344	0	1.654	-1	4.814	-2	1545	46	1.1
43902.1	10000	41.8047	92.0360	-566	QAL	1.8	-1	5.6	-1	1.1	0	0.318	-1	1.611	-1	5.071	-1	1542	50	1.1
43902.0	10000	41.8047	92.0351	-565	QAL	1.9	-1	5.2	-1	1.1	0	0.366	0	1.776	-1	4.858	-2	1538	59	1.1
43901.9	10000	41.8047	92.0343	-565	QAL	1.9	-1	5.1	-1	1.1	0	0.367	0	1.730	-1	4.713	-2	1538	34	1.1
43901.8	10000	41.8047	92.0334	-564	QAL	2.0	-1	5.2	-1	1.1	0	0.391	0	1.925	-1	4.925	-2	1527	57	1.1
43901.7	10000	41.8047	92.0326	-563	QAL	2.0	-1	5.3	-1	1.1	0	0.382	0	1.891	-1	4.949	-1	1532	50	1.1
43901.6	10000	41.8047	92.0317	-562	QAL	2.0	-1	5.8	-1	1.0	0	0.347	0	1.940	-1	5.588	-1	1504	45	1.1
43901.5	10000	41.8047	92.0309	-561	QAL	2.0	-1	5.6	-1	1.0	-1	0.361	0	2.099	0	5.817	0	1495	54	1.1
43901.4	10000	41.8047	92.0300	-560	QAL	2.0	-1	5.8	-1	1.0	-1	0.349	0	2.060	0	5.910	0	1496	52	1.1
43901.3	10000	41.8047	92.0292	-559	QAL	1.9	-1	6.2	0	1.1	0	0.297	-1	1.751	-1	5.906	0	1503	48	1.1
43901.2	10000	41.8047	92.0283	-557	QAL	1.8	-1	6.5	0	1.0	0	0.284	-1	1.778	-1	6.251	0	1518	39	1.1
43901.1	10000	41.8048	92.0274	-556	QAL	1.7	-1	6.4	0	1.1	0	0.269	-1	1.573	-1	5.853	0	1532	44	1.1
43901.0	10000	41.8048	92.0266	-555	QAL	1.6	-1	6.4	0	1.1	0	0.256	-1	1.509	-1	5.896	0	1530	46	1.1
43900.9	10000	41.8048	92.0257	-554	QAL	1.5	-2	6.3	0	1.1	0	0.244	-2	1.453	-2	5.964	0	1530	42	1.1
43900.8	10000	41.8048	92.0249	-554	QAL	1.3	-2	7.1	1	1.1	0	0.178	-2	1.159	-2	6.505	0	1533	46	1.1
43900.7	10000	41.8048	92.0240	-553	QAL	1.3	-2	7.2	1	1.1	0	0.183	-2	1.228	-2	6.720	1	1520	43	1.1
43900.6	10000	41.8048	92.0232	-553	QAL	1.3	-2	7.4	1	1.1	0	0.175	-2	1.221	-2	6.961	1	1515	42	1.1
43900.5	10000	41.8048	92.0223	-552	QAL	1.5	-2	7.1	1	1.0	0	0.207	-2	1.449	-2	6.986	1	1499	48	1.1
43900.4	10000	41.8048	92.0215	-551	QAL	1.6	-2	7.3	1	1.0	-1	0.216	-2	1.619	-1	7.510	2	1495	34	1.1
43900.3	10000	41.8048	92.0206	-550	QAL	1.6	-1	7.4	1	1.0	-1	0.221	-2	1.714	-1	7.762	2	1511	47	1.1
43900.2	10000	41.8048	92.0197	-550	QAL	1.8	-1	7.5	1	1.0	0	0.234	-2	1.748	-1	7.465	2	1540	42	1.1
43900.1	10000	41.8048	92.0189	-549	QAL	2.0	-1	7.5	1	1.1	0	0.270	-1	1.928	-1	7.130	1	1571	60	1.1
43900.0	10000	41.8048	92.0180	-549	QAL	2.0	-1	7.4	1	1.1	0	0.273	-1	1.764	-1	6.467	0	1591	45	1.1

LINE 270 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43899.9	10000	41.8048	92.0172	-549	QAL	2.0	-1	7.2	1	1.1	0	0.285	-1	1.796	-1	6.305	0	1622	37	1.1
43899.8	10000	41.8048	92.0163	-549	QAL	1.7	-1	7.4	1	1.2	1	0.232	-2	1.475	-2	6.364	0	1636	31	1.1
43899.7	10000	41.8048	92.0155	-548	QAL	1.6	-2	7.0	0	1.2	1	0.231	-2	1.357	-2	5.867	0	1630	45	1.1
43899.6	10000	41.8048	92.0146	-548	QAL	1.6	-1	7.2	1	1.2	1	0.226	-2	1.320	-2	5.846	0	1636	54	1.1
43899.5	10000	41.8049	92.0138	-548	QAL	1.5	-2	7.1	1	1.2	1	0.205	-2	1.211	-2	5.898	0	1642	49	1.1
43899.4	10000	41.8049	92.0129	-547	QAL	1.3	-2	6.9	0	1.2	1	0.190	-2	1.075	-2	5.663	-1	1632	52	1.1
43899.3	10000	41.8049	92.0121	-547	QAL	1.4	-2	7.0	0	1.2	1	0.204	-2	1.190	-2	5.837	0	1639	39	1.1
43899.2	10000	41.8049	92.0112	-547	QAL	1.4	-2	7.2	1	1.2	1	0.199	-2	1.171	-2	5.895	0	1643	55	1.1
43899.1	10000	41.8049	92.0103	-546	QAL	1.6	-1	6.8	0	1.2	1	0.240	-2	1.350	-2	5.622	-1	1639	47	1.1
43899.0	10000	41.8049	92.0095	-545	QAL	1.7	-1	6.9	0	1.2	1	0.250	-1	1.375	-2	5.500	-1	1662	28	1.1
43898.9	10000	41.8049	92.0086	-544	QAL	1.8	-1	6.2	0	1.2	1	0.288	-1	1.485	-2	5.154	-1	1668	33	1.1
43898.8	10000	41.8049	92.0078	-542	QAL	2.1	-1	6.4	0	1.2	1	0.327	-1	1.734	-1	5.294	-1	1659	59	1.1
43898.7	10000	41.8049	92.0069	-542	QAL	2.3	0	6.2	0	1.2	1	0.367	0	1.912	-1	5.214	-1	1660	50	1.1
43898.6	10000	41.8049	92.0061	-540	QAL	2.1	-1	6.2	0	1.2	1	0.342	0	1.820	-1	5.322	-1	1661	42	1.1
43898.5	10000	41.8049	92.0052	-538	QAL	2.2	0	6.3	0	1.2	1	0.351	0	1.852	-1	5.281	-1	1662	53	1.1
43898.4	10000	41.8049	92.0043	-537	QAL	2.1	-1	6.5	0	1.2	1	0.328	-1	1.768	-1	5.384	-1	1668	49	1.1
43898.3	10000	41.8049	92.0035	-536	QAL	2.1	-1	6.8	0	1.2	1	0.305	-1	1.686	-1	5.520	-1	1656	40	1.1
43898.2	10000	41.8049	92.0026	-535	QAL	2.0	-1	7.0	0	1.2	1	0.290	-1	1.647	-1	5.673	-1	1639	56	1.1
43898.1	10000	41.8049	92.0018	-534	QAL	1.9	-1	6.6	0	1.2	1	0.283	-1	1.519	-1	5.366	-1	1632	38	1.1
43898.0	10000	41.8050	92.0009	-533	QAL	1.7	-1	6.7	0	1.2	1	0.258	-1	1.409	-2	5.471	-1	1626	48	1.1
43897.9	10000	41.8049	92.0001	-533	QAL	1.8	-1	6.5	0	1.2	1	0.276	-1	1.503	-1	5.439	-1	1614	44	1.1

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42460.4	10000	41.7197	93.9999	-843	QW	1.4	-2	5.4	0	1.1	0	0.252	-1	1.278	-1	5.064	0	1498	41	1.4
42460.5	10000	41.7197	93.9991	-843	QW	1.6	-1	5.3	0	1.0	0	0.299	-1	1.528	-1	5.112	0	1494	44	1.4
42460.6	10000	41.7197	93.9983	-844	QW	1.6	-1	5.3	0	1.0	0	0.306	-1	1.571	-1	5.131	0	1505	33	1.4
42460.7	10000	41.7197	93.9975	-844	QW	1.6	-1	5.2	0	1.1	0	0.310	-1	1.529	-1	4.924	0	1514	54	1.4
42460.8	10000	41.7197	93.9967	-844	QW	1.9	0	5.4	0	1.1	0	0.352	0	1.784	0	5.071	0	1526	41	1.4
42460.9	10000	41.7197	93.9959	-844	QW	1.8	0	5.4	0	1.1	0	0.333	0	1.677	0	5.030	0	1525	54	1.5
42461.0	10000	41.7197	93.9951	-844	QW	1.8	0	5.5	0	1.1	0	0.326	0	1.642	-1	5.030	0	1528	46	1.5
42461.1	10000	41.7197	93.9943	-843	QW	1.7	-1	5.5	0	1.2	1	0.314	-1	1.495	-1	4.767	-1	1523	51	1.5
42461.2	10000	41.7197	93.9935	-843	QW	1.6	-1	5.6	0	1.2	1	0.283	-1	1.326	-1	4.693	-1	1536	41	1.5
42461.3	10000	41.7197	93.9927	-843	QW	1.7	-1	5.7	0	1.2	2	0.288	-1	1.352	-1	4.687	-1	1533	41	1.5
42461.4	10000	41.7197	93.9919	-842	QW	1.8	-1	5.9	1	1.2	2	0.300	-1	1.443	-1	4.808	-1	1536	46	1.5
42461.5	10000	41.7197	93.9911	-842	QW	1.6	-1	5.8	1	1.2	1	0.270	-1	1.326	-1	4.911	0	1522	47	1.5
42461.6	10000	41.7197	93.9903	-842	QW	1.8	0	5.9	1	1.1	1	0.311	-1	1.592	-1	5.127	0	1542	53	1.5
42461.7	10000	41.7197	93.9895	-841	QW	2.0	0	5.9	1	1.2	1	0.338	0	1.730	0	5.124	0	1550	35	1.5
42461.8	10000	41.7197	93.9887	-841	QW	2.0	0	6.0	1	1.1	1	0.340	0	1.830	0	5.381	0	1561	44	1.5
42461.9	10000	41.7197	93.9879	-842	QW	1.9	0	6.0	1	1.1	0	0.323	-1	1.753	0	5.421	0	1569	49	1.5
42462.0	10000	41.7196	93.9871	-842	QW	1.9	0	6.0	1	1.1	0	0.324	0	1.805	0	5.568	1	1570	38	1.5
42462.1	10000	41.7196	93.9863	-841	QW	1.9	0	6.1	1	1.1	0	0.314	-1	1.797	0	5.727	1	1559	52	1.5
42462.2	10000	41.7196	93.9855	-841	QW	2.1	0	6.2	1	1.1	0	0.341	0	1.991	0	5.836	1	1581	53	1.5
42462.3	10000	41.7196	93.9847	-841	QW	2.2	0	6.2	1	1.1	0	0.346	0	2.001	0	5.782	1	1595	31	1.5
42462.4	10000	41.7196	93.9839	-841	QW	2.1	0	5.9	1	1.1	0	0.355	0	1.914	0	5.393	0	1594	50	1.5
42462.5	10000	41.7196	93.9831	-840	QW	2.2	0	6.0	1	1.1	1	0.366	0	1.948	0	5.323	0	1594	49	1.5
42462.6	10000	41.7196	93.9823	-840	QW	2.3	1	5.9	1	1.1	1	0.385	0	2.039	0	5.294	0	1597	36	1.5
42462.7	10000	41.7196	93.9815	-840	QW	2.3	1	6.1	1	1.1	0	0.375	0	2.070	0	5.517	1	1606	54	1.5
42462.8	10000	41.7196	93.9807	-840	QW	2.4	1	6.5	2	1.1	1	0.376	0	2.140	0	5.699	1	1627	45	1.6
42462.9	10000	41.7196	93.9799	-839	QW	2.3	1	6.1	1	1.1	1	0.375	0	2.004	0	5.345	1	1627	38	1.6
42463.0	10000	41.7196	93.9791	-839	QW	2.2	0	5.9	1	1.1	0	0.367	0	1.904	0	5.190	0	1601	46	1.6
42463.1	10000	41.7196	93.9783	-839	QW	2.2	1	6.6	2	1.1	1	0.325	0	1.957	0	6.023	1	1603	55	1.6
42463.2	10000	41.7196	93.9775	-839	QW	2.2	1	6.8	2	1.1	1	0.325	0	2.029	0	6.241	2	1606	45	1.6
42463.3	10000	41.7196	93.9767	-839	QW	2.2	1	6.5	2	1.1	1	0.339	0	2.069	0	6.106	1	1613	51	1.6
42463.4	10000	41.7196	93.9759	-839	QW	2.0	1	6.3	1	1.1	0	0.321	-1	1.861	0	5.801	1	1599	39	1.6
42463.5	10000	41.7196	93.9751	-838	QW	1.8	0	6.2	1	1.1	0	0.289	-1	1.704	0	5.890	1	1590	47	1.6
42463.6	10000	41.7196	93.9743	-838	QW	1.8	0	6.5	1	1.1	0	0.281	-1	1.674	0	5.948	1	1587	43	1.6
42463.7	10000	41.7196	93.9735	-838	QW	1.7	-1	6.8	2	1.1	0	0.252	-1	1.549	-1	6.134	2	1608	37	1.6
42463.8	10000	41.7196	93.9727	-838	QW	2.0	0	6.4	1	1.1	1	0.305	-1	1.754	0	5.742	1	1621	48	1.6
42463.9	10000	41.7196	93.9719	-837	QW	2.2	0	5.8	1	1.1	1	0.369	0	1.985	0	5.376	0	1627	57	1.6
42464.0	10000	41.7196	93.9711	-837	QW	1.9	0	6.3	1	1.1	0	0.300	-1	1.791	0	5.968	1	1595	48	1.6
42464.1	10000	41.7196	93.9703	-836	QW	2.0	0	6.1	1	1.1	1	0.327	0	1.843	0	5.639	1	1603	45	1.6
42464.2	10000	41.7196	93.9695	-836	QW	2.0	0	5.7	1	1.1	1	0.348	0	1.813	0	5.208	0	1595	41	1.6
42464.3	10000	41.7196	93.9687	-836	QW	2.2	0	5.7	1	1.1	1	0.379	0	1.978	0	5.215	0	1599	46	1.6
42464.4	10000	41.7196	93.9679	-835	QW	2.4	1	5.3	1	1.1	1	0.446	1	2.177	1	4.882	0	1584	44	1.6
42464.5	10000	41.7195	93.9671	-833	QW	2.2	1	5.1	1	1.1	1	0.419	1	2.001	0	4.771	-1	1573	39	1.6
42464.6	10000	41.7195	93.9663	-833	QW	1.9	0	5.6	1	1.1	0	0.329	0	1.634	-1	4.969	0	1568	43	1.6
42464.7	10000	41.7195	93.9655	-833	QW	2.0	0	5.8	1	1.2	0	0.350	0	1.694	0	4.839	-1	1578	50	1.6
42464.8	10000	41.7195	93.9647	-835	QW	2.0	0	5.8	1	1.2	0	0.349	0	1.692	0	4.846	-1	1579	51	1.6
42464.9	10000	41.7195	93.9639	-835	QW	1.9	0	5.9	1	1.2	0	0.343	0	1.632	-1	4.756	-1	1586	39	1.6
42465.0	10000	41.7195	93.9631	-835	QW	1.9	0	5.9	1	1.3	0	0.321	-1	1.493	-1	4.648	-1	1575	53	1.6
42465.1	10000	41.7195	93.9623	-834	QW	1.6	-1	6.1	1	1.3	0	0.260	-1	1.234	-1	4.747	-1	1579	56	1.6
42465.2	10000	41.7195	93.9615	-834	QW	1.5	-1	6.1	1	1.4	0	0.240	-1	1.080	-2	4.494	-1	1581	52	1.6
42465.3	10000	41.7195	93.9607	-833	QW	1.6	-1	5.8	1	1.3	0	0.281	-1	1.215	-1	4.328	-1	1579	55	1.6
42465.4	10000	41.7195	93.9599	-834	QW	1.7	-1	5.4	1	1.3	0	0.318	-1	1.286	-1	4.044	-2	1599	53	1.6
42465.5	10000	41.7195	93.9591	-833	QW	1.6	-1	5.6	0	1.3	3	0.282	-1	1.189	-2	4.209	-2	1592	57	1.6

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42465.6	10000	41.7195	93.9583	-833	QW	1.6	-1	5.7	0	1.3	2	0.282	-1	1.258	-1	4.459	-1	1582	35	1.6
42465.7	10000	41.7195	93.9575	-832	QW	1.6	-1	5.5	0	1.2	2	0.297	-1	1.330	-1	4.477	-1	1594	44	1.6
42465.8	10000	41.7195	93.9567	-832	QW	1.6	-1	5.7	0	1.2	1	0.280	-1	1.368	-1	4.887	0	1597	49	1.6
42465.9	10000	41.7195	93.9559	-831	QW	1.8	0	5.6	0	1.1	0	0.326	0	1.665	-1	5.106	0	1604	34	1.6
42466.0	10000	41.7195	93.9551	-831	QW	1.6	-1	5.6	0	1.1	0	0.291	-1	1.472	-1	5.065	0	1610	48	1.6
42466.1	10000	41.7195	93.9543	-831	QW	1.6	-1	5.6	0	1.1	0	0.282	-1	1.496	-1	5.315	0	1592	45	1.6
42466.2	10000	41.7195	93.9535	-831	QW	1.7	-1	5.7	0	1.0	0	0.291	-1	1.612	-1	5.532	1	1592	34	1.6
42466.3	10000	41.7195	93.9527	-830	QW	1.7	-1	5.6	0	1.0	0	0.310	-1	1.698	0	5.475	0	1600	36	1.6
42466.4	10000	41.7195	93.9519	-830	QW	1.8	-1	5.5	0	1.0	-1	0.322	-1	1.800	0	5.599	1	1600	51	1.6
42466.5	10000	41.7195	93.9510	-830	QW	1.9	0	5.3	0	1.0	0	0.365	0	1.903	0	5.217	0	1594	49	1.6
42466.6	10000	41.7195	93.9503	-830	QW	1.9	0	5.5	0	1.1	0	0.357	0	1.825	0	5.116	0	1586	41	1.6
42466.7	10000	41.7195	93.9495	-829	QW	2.2	0	5.5	0	1.0	0	0.397	0	2.090	0	5.260	0	1578	53	1.6
42466.8	10000	41.7194	93.9487	-830	QW	2.2	0	5.6	0	1.1	0	0.384	0	2.018	0	5.250	0	1588	46	1.6
42466.9	10000	41.7194	93.9479	-827	QW	2.2	1	5.5	0	1.1	0	0.410	0	2.082	0	5.083	0	1587	44	1.6
42467.0	10000	41.7194	93.9471	-327	QW	2.2	0	5.4	0	1.1	1	0.402	0	1.971	0	4.908	0	1582	46	1.6
42467.1	10000	41.7194	93.9463	-826	QW	2.1	0	5.8	1	1.2	1	0.368	0	1.838	0	4.998	0	1592	49	1.6
42467.2	10000	41.7194	93.9454	-826	QW	2.2	0	5.9	1	1.1	1	0.369	0	1.908	0	5.171	0	1582	33	1.6
42467.3	10000	41.7194	93.9447	-826	QW	2.1	0	5.7	0	1.1	0	0.362	0	1.898	0	5.241	0	1571	51	1.6
42467.4	10000	41.7194	93.9438	-826	QW	1.8	0	5.7	0	1.1	0	0.321	-1	1.683	0	5.243	0	1558	48	1.6
42467.5	10000	41.7194	93.9431	-825	QW	1.8	0	5.5	0	1.1	0	0.333	0	1.731	0	5.193	0	1548	48	1.6
42467.6	10000	41.7194	93.9422	-825	QW	1.7	-1	5.9	1	1.1	0	0.295	-1	1.633	-1	5.539	1	1559	54	1.6
42467.7	10000	41.7194	93.9415	-824	QW	1.8	-1	6.0	1	1.0	0	0.293	-1	1.680	0	5.736	1	1569	42	1.6
42467.8	10000	41.7194	93.9406	-824	QW	1.7	-1	5.8	1	1.1	0	0.294	-1	1.607	-1	5.465	0	1566	58	1.6
42467.9	10000	41.7194	93.9398	-824	QW	1.6	-1	6.0	1	1.0	0	0.268	-1	1.526	-1	5.685	1	1578	56	1.6
42468.0	10000	41.7194	93.9390	-823	QW	1.5	-1	6.4	1	1.1	0	0.234	-1	1.425	-1	6.087	1	1584	44	1.6
42468.1	10000	41.7194	93.9382	-823	QW	1.7	-1	6.3	1	1.0	0	0.270	-1	1.642	-1	6.091	1	1594	34	1.6
42468.2	10000	41.7194	93.9374	-822	QW	1.7	-1	6.4	1	1.0	0	0.259	-1	1.610	-1	6.216	2	1597	52	1.6
42468.3	10000	41.7194	93.9366	-822	QW	1.9	0	6.0	1	1.0	0	0.316	-1	1.841	0	5.832	1	1581	59	1.6
42468.4	10000	41.7194	93.9358	-822	QW	1.9	0	5.7	1	1.0	-1	0.334	0	1.918	0	5.749	1	1574	42	1.6
42468.5	10000	41.7194	93.9350	-822	QW	1.9	0	5.7	1	0.9	-1	0.327	0	1.960	0	5.987	1	1563	39	1.5
42468.6	10000	41.7194	93.9342	-821	QW	2.1	0	5.4	1	1.0	-1	0.391	0	2.196	1	5.613	1	1576	59	1.5
42468.7	10000	41.7194	93.9334	-821	QW	2.1	0	5.2	1	1.0	-1	0.401	0	2.081	0	5.187	0	1583	48	1.5
42468.8	10000	41.7194	93.9326	-820	QW	2.1	0	5.6	1	1.1	0	0.368	0	1.931	0	5.254	0	1592	42	1.5
42468.9	10000	41.7194	93.9318	-820	QW	2.0	0	5.3	1	1.1	0	0.384	0	1.868	0	4.866	-1	1596	58	1.5
42469.0	10000	41.7193	93.9310	-820	QW	1.8	0	5.5	1	1.1	1	0.337	0	1.638	-1	4.863	-1	1606	49	1.5
42469.1	10000	41.7193	93.9302	-819	QW	1.8	0	5.9	1	1.2	1	0.304	-1	1.558	-1	5.115	-1	1603	55	1.5
42469.2	10000	41.7193	93.9294	-818	QW	1.9	0	6.0	1	1.2	1	0.323	-1	1.638	-1	5.070	-1	1602	62	1.5
42469.3	10000	41.7193	93.9286	-818	QW	1.9	0	5.8	1	1.2	1	0.319	-1	1.610	-1	5.044	0	1584	46	1.5
42469.4	10000	41.7193	93.9278	-817	QW	2.0	0	5.8	1	1.2	1	0.342	0	1.694	0	4.952	0	1578	31	1.5
42469.5	10000	41.7193	93.9270	-817	QW	2.1	0	5.6	1	1.1	1	0.368	0	1.792	0	4.870	-1	1574	46	1.5
42469.6	10000	41.7193	93.9262	-817	QW	2.0	0	5.3	1	1.2	1	0.357	0	1.732	0	4.846	-1	1567	41	1.5
42469.7	10000	41.7193	93.9254	-817	QW	2.0	0	5.3	1	1.1	1	0.367	0	1.768	0	4.812	-1	1546	39	1.5
42469.8	10000	41.7194	93.9245	-816	QW	2.0	0	5.9	1	1.1	0	0.402	0	1.807	0	4.493	-1	1539	40	1.5
42469.9	10000	41.7194	93.9237	-816	QW	1.8	0	5.1	1	1.0	0	0.362	0	1.773	0	4.895	-1	1522	48	1.5
42470.0	10000	41.7194	93.9229	-816	QW	1.7	-1	5.1	1	1.0	0	0.343	0	1.661	-1	4.847	-1	1527	49	1.5
42470.1	10000	41.7194	93.9220	-816	QW	1.7	-1	5.4	1	1.0	0	0.324	0	1.718	0	5.308	-1	1527	40	1.5
42470.2	10000	41.7194	93.9212	-815	QW	1.5	-1	5.4	1	0.9	-1	0.278	-1	1.523	-1	5.475	-1	1516	52	1.5
42470.3	10000	41.7194	93.9204	-816	QW	1.6	-1	5.9	1	0.9	-1	0.274	-1	1.730	0	6.315	0	1505	64	1.5
42470.4	10000	41.7194	93.9195	-815	QW	1.9	0	5.9	1	0.9	-1	0.321	-1	2.033	1	6.333	2	1524	36	1.5
42470.5	10000	41.7194	93.9187	-815	QW	1.9	0	5.8	1	0.9	-2	0.322	-1	2.105	1	6.542	2	1522	33	1.5
42470.6	10000	41.7194	93.9179	-815	QW	1.9	0	5.8	1	0.9	-2	0.334	0	2.200	1	6.594	2	1526	39	1.5
42470.7	10000	41.7195	93.9170	-815	QW	2.0	0	5.6	0	0.9	-2	0.362	0	2.358	1	6.506	2	1516	43	1.5

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42470.8	10000	41.7195	93.9162	-814	QW	2.1	0	5.5	0	0.9	-1	0.394	0	2.363	1	5.999	1	1516	40	1.5
42470.9	10000	41.7195	93.9154	-814	QW	2.4	1	5.5	0	0.9	-1	0.433	1	2.565	1	5.926	1	1537	53	1.5
42471.0	10000	41.7195	93.9146	-814	QW	2.4	1	5.2	0	1.0	-1	0.463	1	2.477	1	5.352	0	1551	46	1.5
42471.1	10000	41.7195	93.9137	-814	QW	2.3	1	5.3	0	1.0	-1	0.437	1	2.349	1	5.372	0	1554	35	1.5
42471.2	10000	41.7195	93.9129	-814	QW	2.4	1	5.3	0	1.0	0	0.450	1	2.274	1	5.050	0	1568	55	1.5
42471.3	10000	41.7195	93.9120	-813	QW	2.3	1	5.0	-1	1.1	1	0.469	1	2.030	0	4.325	-1	1582	49	1.5
42471.4	10000	41.7195	93.9112	-812	QW	2.3	1	5.0	-1	1.1	1	0.452	1	1.961	0	4.334	-1	1586	50	1.5
42471.5	10000	41.7196	93.9104	-813	QW	2.1	0	4.9	-1	1.1	1	0.417	0	1.804	0	4.324	-1	1590	46	1.5
42471.6	10000	41.7196	93.9095	-813	QW	2.1	0	5.0	-1	1.2	1	0.428	1	1.856	0	4.340	-1	1577	41	1.5
42471.7	10000	41.7196	93.9087	-812	QW	2.1	0	5.0	-1	1.2	1	0.422	1	1.807	0	4.281	-1	1577	47	1.5
42471.8	10000	41.7196	93.9079	-812	QW	1.9	0	5.2	0	1.2	1	0.373	0	1.655	-1	4.431	-1	1553	48	1.4
42471.9	10000	41.7196	93.9070	-812	QW	2.0	0	5.4	0	1.1	1	0.360	0	1.701	0	4.725	-1	1541	45	1.4
42472.0	10000	41.7196	93.9062	-812	QW	1.8	0	5.8	0	1.1	0	0.316	-1	1.660	-1	5.248	0	1536	51	1.4
42472.1	10000	41.7196	93.9054	-812	QW	1.8	-1	5.9	1	1.1	0	0.298	-1	1.614	-1	5.419	0	1527	41	1.4
42472.2	10000	41.7196	93.9046	-813	QW	1.9	0	6.1	1	1.1	0	0.305	-1	1.734	0	5.694	1	1511	51	1.4
42472.3	10000	41.7196	93.9037	-813	QW	1.7	-1	5.9	1	1.0	0	0.290	-1	1.651	-1	5.683	1	1498	42	1.4
42472.4	10000	41.7196	93.9029	-809	QW	1.9	0	6.0	1	1.0	-1	0.311	-1	1.897	0	6.101	1	1490	52	1.4
42472.5	10000	41.7197	93.9021	-797	QW	1.7	-1	6.0	1	1.0	0	0.283	-1	1.652	-1	5.841	1	1516	31	1.4
42472.6	10000	41.7197	93.9012	-799	QW	1.6	-1	6.1	1	1.0	0	0.255	-1	1.513	-1	5.933	1	1530	45	1.4
42472.7	10000	41.7197	93.9004	-810	QW	1.6	-1	6.1	1	1.0	0	0.255	-1	1.503	-1	5.905	1	1542	55	1.4
42472.8	10000	41.7197	93.8996	-812	QW	1.6	-1	6.4	1	1.0	0	0.253	-1	1.563	-1	6.182	2	1549	28	1.4
42472.9	10000	41.7197	93.8987	-812	QW	1.7	-1	6.3	1	1.0	0	0.266	-1	1.640	-1	6.160	2	1545	43	1.4
42473.0	10000	41.7197	93.8979	-810	QW	1.7	-1	6.5	1	1.1	0	0.270	-1	1.621	-1	6.001	1	1561	35	1.4
42473.1	10000	41.7197	93.8970	-810	QW	1.5	-1	6.5	2	1.2	1	0.229	-2	1.297	-1	5.669	1	1568	43	1.4
42473.2	10000	41.7197	93.8962	-809	QW	1.7	-1	6.5	1	1.1	0	0.261	-1	1.559	-1	5.964	1	1565	42	1.4
42473.3	10000	41.7197	93.8954	-809	QW	1.7	-1	6.2	1	1.1	1	0.271	-1	1.478	-1	5.462	0	1557	58	1.5
42473.4	10000	41.7198	93.8946	-809	QW	2.0	0	6.1	1	1.1	1	0.322	-1	1.757	0	5.452	0	1549	42	1.5
42473.5	10000	41.7198	93.8937	-808	QW	2.0	0	5.6	1	1.1	1	0.356	-1	1.748	0	4.909	0	1549	41	1.5
42473.6	10000	41.7198	93.8929	-808	QW	1.9	0	5.4	1	1.2	1	0.346	-1	1.570	-1	4.534	-1	1560	56	1.5
42473.7	10000	41.7198	93.8921	-808	QW	1.8	-1	5.5	1	1.2	1	0.320	-1	1.498	-1	4.689	-1	1569	37	1.5
42473.8	10000	41.7198	93.8912	-807	QW	1.7	-1	5.3	1	1.2	1	0.328	-1	1.485	-1	4.530	-1	1563	42	1.5
42473.9	10000	41.7198	93.8904	-807	QW	1.9	0	5.4	1	1.2	1	0.346	-1	1.557	-1	4.505	-1	1568	55	1.5
42474.0	10000	41.7198	93.8896	-807	QW	2.0	0	5.2	1	1.1	1	0.391	-1	1.781	0	4.556	-1	1565	38	1.5
42474.1	10000	41.7198	93.8887	-807	QW	1.9	0	5.1	1	1.1	1	0.376	-1	1.700	0	4.518	-1	1566	52	1.5
42474.2	10000	41.7198	93.8879	-807	QW	2.0	0	5.2	1	1.1	1	0.388	-1	1.820	0	4.695	-1	1573	46	1.5
42474.3	10000	41.7198	93.8871	-807	QW	2.0	0	5.4	1	1.1	1	0.373	-1	1.857	0	4.978	0	1588	48	1.5
42474.4	10000	41.7199	93.8862	-806	QW	2.0	0	5.4	1	1.0	1	0.366	-1	1.901	0	5.196	0	1574	45	1.5
42474.5	10000	41.7199	93.8854	-806	QW	2.0	0	5.6	1	1.1	1	0.363	-1	1.902	0	5.235	0	1581	51	1.5
42474.6	10000	41.7199	93.8846	-806	QW	1.8	0	5.3	1	1.1	0	0.346	-1	1.732	0	5.005	0	1566	41	1.5
42474.7	10000	41.7199	93.8837	-806	QW	1.8	0	5.7	1	1.1	0	0.325	-1	1.753	0	5.396	1	1578	39	1.5
42474.8	10000	41.7199	93.8829	-806	QW	1.9	0	5.9	1	1.1	1	0.314	-1	1.767	0	5.629	1	1581	48	1.5
42474.9	10000	41.7199	93.8821	-806	QW	1.7	-1	6.1	1	1.1	1	0.272	-1	1.570	-1	5.781	1	1580	46	1.5
42475.0	10000	41.7199	93.8812	-806	QW	1.7	-1	5.9	1	1.1	1	0.297	-1	1.638	-1	5.524	1	1579	41	1.5
42475.1	10000	41.7199	93.8804	-807	QW	1.9	0	5.5	1	1.1	1	0.348	0	1.744	0	5.006	1	1589	33	1.5
42475.2	10000	41.7199	93.8796	-807	QW	2.3	1	5.7	1	1.1	1	0.408	0	2.166	1	5.313	1	1602	49	1.5
42475.3	10000	41.7200	93.8787	-807	QW	2.2	1	5.8	1	1.1	1	0.377	0	2.043	1	5.426	1	1614	44	1.5
42475.4	10000	41.7200	93.8779	-807	QW	2.2	1	5.7	1	1.1	1	0.381	0	1.993	1	5.229	1	1618	40	1.5
42475.5	10000	41.7200	93.8771	-807	QW	2.4	1	5.3	1	1.1	2	0.450	1	2.049	1	4.557	-1	1631	52	1.5
42475.6	10000	41.7200	93.8762	-808	QW	2.6	1	5.2	1	1.2	2	0.491	1	2.122	1	4.323	-1	1639	38	1.5
42475.7	10000	41.7200	93.8754	-808	QW	2.7	1	5.4	1	1.2	2	0.535	1	2.281	1	4.264	-1	1630	38	1.5
42475.8	10000	41.7200	93.8746	-808	QW	2.5	1	5.4	1	1.2	2	0.456	1	2.030	1	4.448	-1	1637	56	1.5
42475.9	10000	41.7200	93.8737	-808	QW	2.3	1	5.0	-1	1.2	2	0.461	1	1.939	0	4.208	-2	1622	42	1.5

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42476.0	10000	41.7200	93.8729	-808	QQEW	2.5	1	4.9	-1	1.2	1	0.515	2	2.170	1	4.211	-2	1610	33	1.5
42476.1	10000	41.7200	93.8721	-807	QQEW	2.6	1	4.9	-1	1.2	1	0.524	2	2.161	1	4.126	-2	1601	41	1.5
42476.2	10000	41.7201	93.8712	-807	QQEW	2.3	1	4.9	-1	1.1	1	0.468	1	2.068	0	4.423	-1	1579	46	1.5
42476.3	10000	41.7201	93.8704	-808	QQEW	2.3	1	4.8	-1	1.0	0	0.485	1	2.216	1	4.570	-1	1566	41	1.5
42476.4	10000	41.7201	93.8696	-808	QQEW	2.3	1	5.0	-1	1.0	0	0.467	1	2.269	1	4.863	-1	1566	37	1.5
42476.5	10000	41.7201	93.8687	-808	QQEW	2.6	2	5.2	0	1.0	0	0.512	1	2.627	2	5.134	0	1554	42	1.5
42476.6	10000	41.7201	93.8679	-809	QQEW	2.5	1	5.2	0	1.0	0	0.483	1	2.426	1	5.027	0	1556	59	1.5
42476.7	10000	41.7201	93.8671	-809	QQEW	2.4	1	5.6	0	1.1	0	0.438	1	2.295	1	5.240	0	1569	56	1.5
42476.8	10000	41.7201	93.8662	-810	QQEW	2.4	1	5.7	0	1.0	0	0.427	1	2.416	1	5.665	1	1569	65	1.5
42476.9	10000	41.7201	93.8654	-810	QQEW	2.5	1	5.8	0	1.0	-1	0.440	1	2.534	1	5.760	1	1572	49	1.5
42477.0	10000	41.7201	93.8646	-810	QQEW	2.3	1	5.8	0	1.1	0	0.405	1	2.212	1	5.467	0	1574	60	1.5
42477.1	10000	41.7202	93.8637	-811	QQEW	2.1	0	5.8	0	1.1	0	0.365	1	1.923	0	5.265	0	1580	47	1.5
42477.2	10000	41.7202	93.8629	-811	QQEW	2.1	0	5.6	0	1.1	1	0.365	1	1.835	0	5.026	0	1588	44	1.5
42477.3	10000	41.7202	93.8621	-811	QQEW	2.2	0	5.6	0	1.1	0	0.384	0	2.012	0	5.240	0	1583	42	1.5
42477.4	10000	41.7202	93.8612	-812	QQEW	2.2	1	5.1	0	1.1	0	0.433	1	2.117	0	4.892	0	1581	42	1.5
42477.5	10000	41.7202	93.8604	-812	QQEW	2.1	0	5.1	0	1.1	1	0.410	0	1.903	0	4.642	-1	1576	50	1.5
42477.6	10000	41.7202	93.8596	-812	QQEW	1.9	0	5.1	0	1.1	1	0.375	0	1.690	0	4.503	-1	1562	50	1.5
42477.7	10000	41.7202	93.8587	-813	QQEW	2.0	0	5.2	0	1.1	1	0.392	0	1.819	0	4.637	-1	1565	54	1.5
42477.8	10000	41.7202	93.8579	-813	QQEW	2.0	0	5.1	-1	1.1	1	0.404	0	1.842	0	4.560	-1	1556	40	1.5
42477.9	10000	41.7202	93.8571	-814	QQEW	1.9	0	4.9	-1	1.1	1	0.386	0	1.704	0	4.417	-1	1544	47	1.5
42478.0	10000	41.7202	93.8562	-814	QQEW	1.6	-1	4.8	-1	1.1	1	0.339	0	1.419	-1	4.190	-2	1546	50	1.5
42478.1	10000	41.7203	93.8554	-815	QQEW	1.7	-1	4.7	-1	1.2	1	0.358	0	1.456	-1	4.063	-2	1542	39	1.5
42478.2	10000	41.7203	93.8546	-815	QQEW	1.7	-1	4.6	-1	1.1	1	0.362	0	1.457	-1	4.025	-2	1528	41	1.6
42478.3	10000	41.7203	93.8537	-815	QQEW	1.8	-1	4.4	-1	1.1	1	0.395	0	1.537	-1	3.890	-2	1535	53	1.6
42478.4	10000	41.7203	93.8529	-816	QQEW	1.8	0	4.8	-1	1.1	1	0.379	0	1.572	-1	4.145	-2	1525	45	1.6
42478.5	10000	41.7203	93.8521	-816	QQEW	1.7	-1	4.9	-1	1.2	1	0.344	0	1.455	-1	4.232	-2	1533	46	1.6
42478.6	10000	41.7203	93.8512	-816	QQEW	1.6	-1	5.2	0	1.1	1	0.314	-1	1.426	-1	4.537	-1	1526	43	1.6
42478.7	10000	41.7203	93.8504	-817	QQEW	1.8	0	5.9	-1	1.2	1	0.302	-1	1.534	-1	5.076	-1	1530	49	1.6
42478.8	10000	41.7203	93.8496	-818	QQEW	1.7	-1	6.2	-1	1.1	1	0.265	-1	1.440	-1	5.432	0	1520	59	1.6
42478.9	10000	41.7203	93.8488	-818	QQEW	1.6	-1	6.1	-1	1.1	1	0.260	-1	1.377	-1	5.294	0	1516	36	1.6
42479.0	10000	41.7203	93.8479	-819	QQEW	1.7	-1	6.3	-1	1.2	1	0.269	-1	1.476	-1	5.477	0	1519	42	1.6
42479.1	10000	41.7204	93.8471	-821	QQEW	1.6	-1	5.8	-1	1.1	1	0.270	-1	1.375	-1	5.085	0	1520	43	1.6
42479.2	10000	41.7204	93.8463	-821	QQEW	1.6	-1	5.8	0	1.1	1	0.284	-1	1.466	-1	5.152	0	1502	44	1.6
42479.3	10000	41.7204	93.8454	-821	QQEW	1.9	0	5.6	0	1.1	1	0.329	-1	1.647	-1	5.000	0	1507	44	1.6
42479.4	10000	41.7204	93.8446	-822	QQEW	1.8	0	5.1	-1	1.1	1	0.359	0	1.676	0	4.663	-1	1503	52	1.6
42479.5	10000	41.7204	93.8438	-823	QQEW	1.9	0	5.0	0	1.1	1	0.376	0	1.709	0	4.550	-1	1510	68	1.6
42479.6	10000	41.7204	93.8429	-824	QQEW	2.0	0	5.2	0	1.1	1	0.380	0	1.790	0	4.711	-1	1529	44	1.6
42479.7	10000	41.7204	93.8421	-824	QQEW	1.9	0	5.3	0	1.1	1	0.347	0	1.731	0	4.981	0	1534	44	1.6
42479.8	10000	41.7204	93.8412	-825	QQEW	1.8	0	5.5	0	1.0	1	0.328	0	1.719	0	5.238	0	1533	51	1.6
42479.9	10000	41.7204	93.8404	-825	QQEW	2.0	0	5.5	0	1.0	1	0.359	0	1.895	0	5.284	0	1542	40	1.6
42480.0	10000	41.7205	93.8396	-826	QQEW	1.8	0	5.4	0	1.1	1	0.333	0	1.695	0	5.092	0	1551	50	1.6
42480.1	10000	41.7205	93.8388	-827	QQEW	1.9	0	5.3	0	1.1	1	0.364	0	1.795	0	4.926	0	1542	50	1.6
42480.2	10000	41.7205	93.8379	-827	QQEW	1.9	0	5.2	0	1.1	1	0.366	0	1.744	0	4.766	-1	1536	46	1.6
42480.3	10000	41.7205	93.8371	-827	QQEW	1.9	0	4.7	0	1.1	1	0.399	0	1.759	0	4.405	-1	1529	39	1.6
42480.4	10000	41.7205	93.8363	-829	QQEW	1.8	0	4.7	-1	1.1	1	0.385	0	1.669	0	4.332	-1	1534	63	1.6
42480.5	10000	41.7205	93.8354	-829	QQEW	1.8	0	4.9	-1	1.1	1	0.369	0	1.592	-1	4.317	-1	1549	42	1.6
42480.6	10000	41.7205	93.8346	-830	QQEW	1.6	-1	5.0	-1	1.1	1	0.319	-1	1.423	-1	4.466	-1	1549	47	1.6
42480.7	10000	41.7205	93.8338	-831	QQEW	1.7	-1	5.2	0	1.1	1	0.333	-1	1.525	-1	4.576	-1	1540	58	1.6
42480.8	10000	41.7205	93.8329	-832	QQEW	1.5	-1	5.2	0	1.1	1	0.281	-1	1.304	-1	4.635	-1	1546	51	1.6
42480.9	10000	41.7205	93.8321	-833	QQEW	1.7	-1	5.0	-1	1.1	1	0.341	-1	1.571	-1	4.606	-1	1539	41	1.6
42481.0	10000	41.7206	93.8313	-834	QQEW	1.7	-1	5.4	0	1.1	1	0.308	-1	1.523	-1	4.943	0	1531	40	1.6
42481.1	10000	41.7206	93.8304	-835	QQEW	1.7	-1	4.8	-1	1.1	1	0.353	0	1.518	-1	4.304	-1	1507	47	1.6

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42481.2	10000	41.7206	93.8296	-835	QW	1.7	-1	4.5	-1	1.1	0	0.382	0	1.643	-1	4.304	-1	1480	39	1.6
42481.3	10000	41.7206	93.8288	-835	QO	1.8	-1	4.1	-1	1.1	0	0.437	0	1.710	-1	3.913	-2	1468	49	1.6
42481.4	10000	41.7206	93.8279	-834	QO	1.9	0	4.2	-1	1.0	0	0.453	0	1.874	0	4.138	-1	1470	41	1.6
42481.5	10000	41.7206	93.8271	-834	QO	2.1	0	4.2	-1	1.0	0	0.494	1	2.124	0	4.296	-1	1457	44	1.6
42481.6	10000	41.7206	93.8263	-837	QO	1.9	0	4.4	-1	1.0	0	0.417	0	1.792	0	4.294	-1	1460	50	1.6
42481.7	10000	41.7206	93.8254	-839	QO	1.9	0	4.4	-1	1.0	0	0.432	0	1.856	0	4.295	-1	1468	47	1.6
42481.8	10000	41.7206	93.8246	-840	QO	2.1	0	5.2	0	1.0	0	0.396	0	2.046	0	5.172	0	1496	44	1.6
42481.9	10000	41.7206	93.8238	-840	QO	2.2	0	5.6	0	1.1	0	0.395	0	2.067	0	5.229	0	1519	40	1.6
42482.0	10000	41.7207	93.8229	-841	QO	2.4	1	5.7	0	1.1	0	0.429	0	2.226	0	5.185	0	1543	38	1.6
42482.1	10000	41.7207	93.8221	-842	QO	2.3	0	5.4	0	1.1	1	0.421	0	2.004	0	4.763	-1	1557	46	1.6
42482.2	10000	41.7207	93.8213	-842	QO	2.3	0	5.6	0	1.2	1	0.406	0	1.917	0	4.718	-1	1575	45	1.6
42482.3	10000	41.7207	93.8204	-843	QO	2.3	1	5.8	0	1.2	1	0.404	0	1.929	0	4.775	-1	1595	40	1.6
42482.4	10000	41.7207	93.8196	-843	QO	2.6	1	5.3	0	1.3	1	0.494	1	2.079	0	4.208	-1	1601	49	1.6
42482.5	10000	41.7207	93.8188	-844	QO	2.7	1	4.5	-1	1.3	1	0.607	2	2.180	0	3.591	-2	1596	44	1.6
42482.6	10000	41.7207	93.8179	-844	QO	2.7	1	4.1	-1	1.2	1	0.670	2	2.219	0	3.314	-2	1598	58	1.6
42482.7	10000	41.7207	93.8171	-842	QO	2.6	1	4.0	-1	1.2	1	0.648	2	2.115	0	3.266	-2	1598	37	1.6
42482.8	10000	41.7207	93.8163	-840	QO	2.5	1	3.8	-1	1.2	1	0.646	2	2.134	0	3.302	-2	1574	41	1.6
42482.9	10000	41.7208	93.8154	-841	QO	2.5	1	3.4	-2	1.2	1	0.745	3	2.195	0	2.948	-3	1587	42	1.6
42483.0	10000	41.7208	93.8146	-845	QO	2.6	1	3.2	-2	1.1	1	0.793	3	2.300	0	2.902	-3	1589	51	1.6
42483.1	10000	41.7208	93.8138	-847	QO	2.3	1	3.7	-2	1.1	0	0.631	2	2.175	0	3.448	-2	1591	50	1.6
42483.2	10000	41.7208	93.8129	-849	QO	2.2	0	3.9	-1	1.0	0	0.563	1	2.116	0	3.759	-2	1581	39	1.6
42483.3	10000	41.7208	93.8121	-850	QO	2.0	0	4.0	-1	1.0	0	0.509	1	2.071	0	4.068	-1	1568	47	1.6
42483.4	10000	41.7208	93.8113	-850	QO	2.1	0	4.3	-1	1.0	0	0.493	1	2.104	0	4.270	-1	1569	39	1.6
42483.5	10000	41.7208	93.8104	-850	QO	2.2	0	4.8	-1	1.0	0	0.463	1	2.115	0	4.571	-1	1583	53	1.6
42483.6	10000	41.7208	93.8096	-851	QO	2.1	0	5.0	0	1.0	0	0.415	1	2.058	0	4.963	0	1576	52	1.6
42483.7	10000	41.7208	93.8088	-851	QO	2.1	0	5.2	0	1.0	0	0.414	1	2.159	0	5.221	0	1574	50	1.6
42483.8	10000	41.7208	93.8080	-852	QO	2.2	0	5.5	0	1.0	0	0.412	1	2.238	0	5.430	0	1585	60	1.6
42483.9	10000	41.7207	93.8072	-853	QO	2.2	0	5.5	0	1.1	0	0.407	1	2.206	0	5.421	0	1597	37	1.6
42484.0	10000	41.7207	93.8063	-854	QO	2.1	0	5.4	0	1.1	0	0.360	0	1.943	0	5.403	0	1605	46	1.6
42484.1	10000	41.7207	93.8055	-854	QO	2.0	0	5.2	0	1.1	0	0.351	0	1.838	0	5.242	0	1600	49	1.6
42484.2	10000	41.7207	93.8047	-855	QO	2.0	0	5.1	0	1.1	0	0.391	0	1.926	0	4.930	0	1588	39	1.6
42484.3	10000	41.7206	93.8039	-855	QO	2.1	0	5.2	0	1.1	0	0.422	0	2.101	0	4.975	0	1575	50	1.6
42484.4	10000	41.7206	93.8031	-856	QO	2.1	0	5.1	0	1.1	0	0.431	0	2.035	0	4.718	-1	1567	44	1.6
42484.5	10000	41.7206	93.8023	-856	QO	2.1	0	5.0	0	1.1	0	0.424	0	2.029	0	4.790	-1	1539	46	1.6
42484.6	10000	41.7206	93.8014	-857	QO	2.1	0	5.5	0	1.1	0	0.335	0	1.794	0	5.355	0	1514	41	1.6
42484.7	10000	41.7205	93.8006	-857	QO	2.1	0	5.1	0	1.1	0	0.362	0	1.817	0	5.024	0	1487	40	1.6
42484.8	10000	41.7205	93.7998	-857	QO	2.1	0	5.3	0	1.1	0	0.360	0	1.874	0	5.211	0	1476	44	1.6
42484.9	10000	41.7205	93.7990	-858	QO	2.0	0	5.1	0	1.1	0	0.319	-1	1.598	-1	5.003	0	1476	41	1.6
42485.0	10000	41.7205	93.7982	-858	QO	1.8	0	4.7	-1	1.1	0	0.275	-1	1.381	-1	5.023	0	1470	49	1.6
42485.1	10000	41.7204	93.7974	-859	QO	1.8	0	4.5	-1	1.1	0	0.240	-1	1.195	-1	4.973	0	1463	44	1.7
42485.2	10000	41.7204	93.7965	-859	QO	1.7	0	4.3	-1	1.1	0	0.190	-2	0.890	-2	4.688	-1	1465	38	1.7
42485.3	10000	41.7204	93.7957	-860	QO	1.7	0	4.4	-1	1.2	0	0.287	-1	1.226	-1	4.276	-1	1478	47	1.7
42485.4	10000	41.7204	93.7949	-861	QO	1.8	0	4.8	-1	1.2	1	0.368	0	1.536	-1	4.179	-1	1500	42	1.7
42485.5	10000	41.7203	93.7941	-861	QO	1.9	1	4.8	-1	1.2	1	0.391	0	1.619	-1	4.141	-1	1514	41	1.7
42485.6	10000	41.7203	93.7933	-862	QO	2.0	1	4.9	-1	1.1	1	0.412	0	1.818	0	4.411	-1	1510	41	1.7
42485.7	10000	41.7203	93.7924	-863	QO	2.2	1	5.0	-1	1.1	1	0.415	0	1.770	0	4.261	-1	1520	45	1.7
42485.8	10000	41.7203	93.7916	-863	QO	2.2	1	5.1	-1	1.1	1	0.434	0	1.944	0	4.482	-1	1522	59	1.7
42485.9	10000	41.7202	93.7908	-863	QO	2.3	1	5.3	-1	1.1	1	0.506	1	2.215	0	4.379	-1	1511	57	1.7
42486.0	10000	41.7202	93.7900	-864	QO	2.3	1	5.4	-1	1.1	1	0.423	1	1.930	0	4.557	-1	1495	42	1.7
42486.1	10000	41.7202	93.7892	-865	QO	2.3	1	5.4	-1	1.1	1	0.387	1	1.745	0	4.508	-1	1482	41	1.7
42486.2	10000	41.7201	93.7884	-865	QO	2.2	1	5.4	-1	1.1	1	0.352	1	1.619	-1	4.604	-1	1465	36	1.7
42486.3	10000	41.7201	93.7876	-865	QO	1.6	-1	4.7	-1	1.0	0	0.344	0	1.569	-1	4.561	-1	1464	43	1.7

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42486.4	10000	41.7201	93.7867	-865	QD	1.8	-1	4.5	-1	1.0	0	0.393	0	1.698	-1	4.320	-1	1446	46	1.7
42486.5	10000	41.7201	93.7859	-865	QD	1.7	-1	4.3	-1	1.0	0	0.388	0	1.635	-1	4.211	-1	1428	47	1.7
42486.6	10000	41.7200	93.7851	-865	QD	1.7	-1	4.5	-1	1.0	0	0.377	0	1.622	-1	4.299	-1	1422	41	1.7
42486.7	10000	41.7200	93.7843	-866	QD	1.8	-1	3.9	-1	1.0	0	0.448	0	1.684	-1	3.757	-2	1412	48	1.7
42486.8	10000	41.7200	93.7835	-867	QD	1.7	-1	4.2	-1	1.0	0	0.406	0	1.708	-1	4.202	-1	1409	51	1.7
42486.9	10000	41.7200	93.7827	-866	QD	1.9	0	4.1	-1	1.0	0	0.463	1	1.815	0	3.915	-2	1409	47	1.7
42487.0	10000	41.7199	93.7818	-865	QD	1.9	0	4.2	-1	1.1	0	0.457	1	1.791	0	3.921	-2	1416	39	1.7
42487.1	10000	41.7199	93.7810	-866	QD	2.0	0	4.6	-1	1.1	0	0.432	0	1.846	0	4.278	-1	1412	40	1.7
42487.2	10000	41.7199	93.7802	-867	QD	2.1	0	4.5	-1	1.1	0	0.475	1	1.961	0	4.129	-1	1416	43	1.7
42487.3	10000	41.7199	93.7794	-867	QD	2.1	0	4.6	-1	1.1	0	0.459	1	1.916	0	4.178	-1	1417	44	1.7
42487.4	10000	41.7198	93.7786	-866	QD	2.1	0	4.9	0	1.1	0	0.431	0	1.915	0	4.447	-1	1422	42	1.7
42487.5	10000	41.7198	93.7778	-867	QD	2.2	0	4.8	-1	1.1	0	0.474	1	2.040	0	4.307	-1	1414	40	1.7
42487.6	10000	41.7198	93.7769	-867	QD	2.2	0	4.7	-1	1.1	0	0.456	0	2.014	0	4.419	-1	1408	52	1.7
42487.7	10000	41.7198	93.7761	-868	QD	2.2	0	4.6	-1	1.1	0	0.467	1	2.033	0	4.349	-1	1393	42	1.7
42487.8	10000	41.7197	93.7753	-868	QD	2.0	0	4.2	-1	1.0	0	0.481	1	1.973	0	4.105	-1	1388	50	1.7
42487.9	10000	41.7197	93.7745	-868	QD	1.9	0	4.3	-1	1.0	0	0.443	0	1.836	0	4.141	-1	1377	43	1.7
42488.0	10000	41.7197	93.7737	-868	QD	1.8	-1	4.0	-1	1.0	0	0.435	0	1.741	0	4.001	-1	1368	43	1.7
42488.1	10000	41.7197	93.7729	-868	QD	1.7	-1	4.0	-1	1.0	0	0.418	0	1.619	-1	3.875	-2	1369	45	1.7
42488.2	10000	41.7196	93.7720	-869	QD	1.7	-1	4.2	-1	1.0	0	0.398	0	1.678	-1	4.215	-1	1379	47	1.7
42488.3	10000	41.7196	93.7712	-869	QD	1.6	-1	4.4	-1	1.0	0	0.358	0	1.623	-1	4.528	-1	1387	46	1.7
42488.4	10000	41.7196	93.7704	-870	QD	1.4	-1	4.4	-1	1.0	0	0.313	-1	1.448	-1	4.620	-1	1393	42	1.7
42488.5	10000	41.7196	93.7696	-871	QD	1.3	-2	4.7	-1	1.0	0	0.278	-1	1.293	-1	4.645	-1	1403	50	1.7
42488.6	10000	41.7195	93.7688	-871	QD	1.2	-2	4.7	-1	1.0	0	0.254	-1	1.133	-1	4.468	-1	1428	55	1.7
42488.7	10000	41.7195	93.7680	-870	QD	1.3	-1	4.8	-1	1.1	0	0.275	-1	1.221	-1	4.439	-1	1447	43	1.7
42488.8	10000	41.7195	93.7672	-870	QD	1.5	-1	5.1	0	1.0	0	0.297	-1	1.450	-1	4.875	0	1470	40	1.7
42488.9	10000	41.7195	93.7663	-870	QD	1.3	-1	4.8	-1	1.1	0	0.281	-1	1.237	-1	4.409	-1	1471	57	1.7
42489.0	10000	41.7194	93.7655	-870	QAL	1.3	-2	4.8	-2	1.1	0	0.274	-1	1.149	-2	4.192	-2	1483	37	1.7
42489.1	10000	41.7194	93.7647	-870	QAL	1.4	-2	5.0	-2	1.2	1	0.286	-1	1.187	-2	4.153	-3	1490	46	1.7
42489.2	10000	41.7194	93.7639	-869	QAL	1.6	-2	5.1	-1	1.2	1	0.316	-1	1.356	-2	4.289	-2	1494	48	1.7
42489.3	10000	41.7194	93.7631	-870	QAL	1.8	-1	4.9	-2	1.1	0	0.367	0	1.609	-1	4.387	-2	1479	46	1.7
42489.4	10000	41.7193	93.7623	-869	QAL	1.9	-1	5.1	-1	1.0	0	0.367	0	1.808	-1	4.926	-2	1463	45	1.7
42489.5	10000	41.7193	93.7614	-869	QAL	1.8	-1	4.9	-2	1.0	0	0.374	0	1.742	-1	4.659	-2	1435	46	1.7
42489.6	10000	41.7193	93.7606	-869	QAL	1.7	-1	5.0	-2	1.0	0	0.349	0	1.650	-1	4.729	-2	1408	45	1.7
42489.7	10000	41.7192	93.7598	-869	QD	1.6	-1	4.7	-1	1.0	0	0.347	0	1.660	-1	4.786	-1	1359	46	1.7
42489.8	10000	41.7192	93.7590	-868	QD	1.8	-1	4.5	-1	0.9	-1	0.406	0	1.942	0	4.783	-1	1331	50	1.7
42489.9	10000	41.7192	93.7582	-868	QD	1.7	-1	4.3	-1	0.9	-1	0.396	0	1.916	0	4.839	-1	1316	40	1.7
42490.0	10000	41.7192	93.7574	-867	QD	1.6	-1	4.5	-1	0.9	-1	0.344	0	1.713	0	4.979	0	1302	50	1.7
42490.1	10000	41.7191	93.7565	-867	QD	1.4	-1	4.2	-1	1.0	0	0.331	-1	1.428	-1	4.319	-1	1307	43	1.7
42490.2	10000	41.7191	93.7557	-865	QD	1.4	-1	4.4	-1	1.0	0	0.324	-1	1.455	-1	4.493	-1	1307	44	1.7
42490.3	10000	41.7191	93.7549	-865	QD	1.4	-1	4.1	-1	1.0	0	0.351	0	1.459	-1	4.159	-1	1322	42	1.7
42490.4	10000	41.7191	93.7541	-865	QD	1.4	-1	4.1	-1	1.0	0	0.331	-1	1.338	-1	4.045	-1	1353	46	1.7
42490.5	10000	41.7190	93.7533	-866	QD	1.3	-1	4.1	-1	1.1	0	0.325	-1	1.238	-1	3.805	-2	1381	44	1.7
42490.6	10000	41.7190	93.7524	-865	QD	1.4	-1	4.3	-1	1.1	0	0.319	-1	1.234	-1	3.864	-2	1396	46	1.7
42490.7	10000	41.7190	93.7516	-865	QD	1.3	-2	4.4	-1	1.1	0	0.290	-1	1.126	-1	3.880	-2	1417	52	1.7
42490.8	10000	41.7190	93.7508	-865	QD	1.4	-1	4.2	-1	1.1	0	0.330	-1	1.274	-1	3.863	-2	1423	46	1.7
42490.9	10000	41.7189	93.7500	-867	QD	1.5	-1	4.2	-1	1.1	0	0.367	0	1.352	-1	3.689	-2	1448	42	1.7
42491.0	10000	41.7189	93.7492	-869	QD	1.6	-1	4.5	-1	1.1	0	0.350	0	1.398	-1	3.995	-1	1459	40	1.7
42491.1	10000	41.7189	93.7484	-870	QD	1.8	-1	4.3	-1	1.1	0	0.421	0	1.626	-1	3.861	-2	1448	41	1.7
42491.2	10000	41.7189	93.7475	-870	QD	1.9	0	4.3	-1	1.1	0	0.434	0	1.765	0	4.066	-1	1433	46	1.7
42491.3	10000	41.7188	93.7467	-869	QD	1.8	-1	4.2	-1	1.0	0	0.419	-1	1.711	-1	4.082	-1	1420	49	1.7
42491.4	10000	41.7188	93.7459	-868	QD	1.9	0	4.0	-1	1.0	0	0.488	1	1.989	0	4.077	-1	1414	39	1.7
42491.5	10000	41.7188	93.7451	-868	QD	2.0	0	4.5	-1	1.0	0	0.444	0	2.033	0	4.583	-1	1412	42	1.7

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42491.6	10000	41.7188	93.7443	-867	QO	1.8	-1	4.5	-1	0.9	-1	0.402	0	2.020	0	5.024	0	1382	47	1.7
42491.7	10000	41.7187	93.7435	-866	QO	1.7	-1	4.7	-1	0.9	-1	0.356	0	1.914	0	5.377	0	1396	44	1.7
42491.8	10000	41.7187	93.7426	-865	QO	1.8	-1	5.2	0	0.8	-1	0.341	0	2.178	0	6.385	1	1416	40	1.7
42491.9	10000	41.7187	93.7418	-864	QO	1.9	0	5.1	0	0.8	-1	0.362	0	2.242	0	6.199	1	1444	41	1.7
42492.0	10000	41.7187	93.7410	-862	QO	2.1	0	5.3	0	0.9	-1	0.388	0	2.317	0	5.970	1	1477	35	1.7
42492.1	10000	41.7186	93.7402	-861	QAL	2.2	-1	5.5	-1	0.9	-1	0.396	0	2.448	0	6.189	0	1498	51	1.7
42492.2	10000	41.7186	93.7394	-860	QAL	2.3	0	5.5	-1	0.9	-1	0.424	1	2.553	0	6.017	0	1529	38	1.7
42492.3	10000	41.7186	93.7386	-859	QAL	2.3	0	5.3	-1	0.9	-1	0.442	1	2.463	0	5.567	-1	1558	40	1.7
42492.4	10000	41.7185	93.7377	-858	QAL	2.7	0	5.0	-2	1.0	-1	0.546	2	2.736	1	5.010	-1	1558	47	1.7
42492.5	10000	41.7185	93.7369	-857	QAL	2.5	0	4.8	-2	1.0	0	0.527	2	2.434	0	4.621	-2	1547	48	1.7
42492.6	10000	41.7185	93.7361	-855	QAL	2.3	0	5.0	-2	1.0	0	0.462	1	2.217	0	4.804	-2	1534	34	1.7
42492.7	10000	41.7185	93.7353	-854	QAL	2.2	0	4.7	-2	1.0	0	0.475	1	2.149	0	4.524	-2	1526	42	1.7
42492.8	10000	41.7184	93.7345	-852	QAL	2.3	0	4.5	-2	1.1	0	0.522	2	2.192	0	4.203	-2	1530	54	1.7
42492.9	10000	41.7184	93.7337	-852	QAL	2.3	0	4.3	-2	1.1	0	0.543	2	2.106	0	3.877	-3	1518	41	1.7
42493.0	10000	41.7184	93.7328	-852	QAL	2.4	0	4.3	-2	1.1	0	0.546	2	2.164	0	3.963	-3	1511	61	1.7
42493.1	10000	41.7185	93.7320	-851	QO	2.3	0	4.4	-1	1.0	0	0.516	1	2.178	0	4.224	-1	1515	45	1.7
42493.2	10000	41.7185	93.7312	-850	QO	2.4	1	4.2	-1	1.0	0	0.561	1	2.276	0	4.056	-1	1530	48	1.7
42493.3	10000	41.7185	93.7304	-849	QO	2.4	1	4.3	-1	1.0	0	0.562	1	2.303	0	4.096	-1	1537	40	1.7
42493.4	10000	41.7185	93.7296	-849	QO	2.4	1	4.6	-1	1.0	0	0.507	1	2.307	0	4.554	-1	1524	58	1.7
42493.5	10000	41.7185	93.7288	-849	QO	2.1	0	4.7	-1	1.0	0	0.450	0	2.077	0	4.614	-1	1510	47	1.7
42493.6	10000	41.7186	93.7279	-847	QO	2.0	0	4.9	0	1.0	0	0.413	0	2.039	0	4.942	0	1508	39	1.7
42493.7	10000	41.7186	93.7271	-846	QO	1.9	0	5.2	0	1.0	0	0.374	0	1.855	0	4.956	0	1510	33	1.7
42493.8	10000	41.7186	93.7263	-846	QO	1.7	-1	5.3	0	1.1	0	0.330	-1	1.601	-1	4.857	0	1501	41	1.7
42493.9	10000	41.7186	93.7255	-845	QO	1.9	0	5.7	0	1.1	0	0.329	-1	1.689	-1	5.137	0	1499	37	1.7
42494.0	10000	41.7187	93.7247	-843	QW	2.0	0	5.4	0	1.0	0	0.376	0	1.950	0	5.184	0	1483	51	1.7
42494.1	10000	41.7187	93.7238	-843	QW	1.8	0	5.5	0	1.1	0	0.332	0	1.751	0	5.270	0	1483	47	1.6
42494.2	10000	41.7187	93.7230	-843	QW	1.8	-1	5.6	0	1.1	0	0.315	-1	1.671	0	5.299	0	1485	50	1.6
42494.3	10000	41.7187	93.7222	-842	QW	1.6	-1	5.7	0	1.0	0	0.286	-1	1.587	-1	5.550	1	1497	44	1.6
42494.4	10000	41.7187	93.7214	-843	QW	1.8	0	5.8	0	1.0	0	0.310	-1	1.744	0	5.634	1	1517	43	1.6
42494.5	10000	41.7188	93.7206	-842	QW	1.8	0	5.7	0	1.0	0	0.318	-1	1.765	0	5.550	1	1538	49	1.6
42494.6	10000	41.7188	93.7198	-841	QW	1.5	-1	5.4	0	1.0	0	0.282	-1	1.477	-1	5.239	0	1547	47	1.6
42494.7	10000	41.7188	93.7189	-840	QW	1.4	-1	6.0	1	1.1	0	0.228	-2	1.240	-1	5.448	0	1567	40	1.6
42494.8	10000	41.7188	93.7181	-839	QW	1.5	-1	5.7	0	1.1	0	0.261	-1	1.364	-1	5.228	0	1586	49	1.6
42494.9	10000	41.7188	93.7173	-837	QW	1.6	-1	5.7	0	1.1	0	0.282	-1	1.497	-1	5.314	0	1592	43	1.6
42495.0	10000	41.7189	93.7165	-833	QW	1.6	-1	5.4	0	1.1	1	0.293	-1	1.407	-1	4.799	-1	1574	40	1.6
42495.1	10000	41.7189	93.7157	-832	QW	1.6	-1	5.2	0	1.1	1	0.297	-1	1.372	-1	4.613	-1	1563	44	1.7
42495.2	10000	41.7189	93.7148	-832	QW	1.5	-1	5.2	0	1.1	0	0.286	-1	1.349	-1	4.718	-1	1551	42	1.7
42495.3	10000	41.7189	93.7140	-832	QW	1.7	-1	5.2	0	1.1	1	0.322	-1	1.488	-1	4.623	-1	1545	54	1.7
42495.4	10000	41.7189	93.7132	-832	QW	1.7	-1	4.8	-1	1.1	0	0.358	0	1.604	-1	4.480	-1	1527	50	1.7
42495.5	10000	41.7190	93.7124	-831	QW	1.8	-1	4.7	-1	1.0	0	0.378	0	1.726	0	4.563	-1	1505	31	1.7
42495.6	10000	41.7190	93.7116	-831	QW	1.7	-1	4.8	-1	1.0	0	0.360	0	1.713	0	4.753	-1	1501	43	1.7
42495.7	10000	41.7190	93.7108	-830	QW	1.7	-1	4.9	-1	1.0	-1	0.345	0	1.788	0	5.183	0	1503	49	1.7
42495.8	10000	41.7190	93.7099	-830	QW	1.6	-1	5.1	-1	0.9	-1	0.310	-1	1.705	0	5.492	0	1498	49	1.7
42495.9	10000	41.7191	93.7091	-830	QW	1.8	0	5.0	-1	0.9	-1	0.354	0	1.899	0	5.357	0	1489	48	1.7
42496.0	10000	41.7191	93.7083	-829	QW	1.7	-1	4.9	-1	0.9	-2	0.342	0	1.892	0	5.530	1	1473	48	1.7
42496.1	10000	41.7191	93.7075	-829	QW	1.6	-1	4.9	-1	0.9	-1	0.324	0	1.696	0	5.239	0	1464	54	1.7
42496.2	10000	41.7191	93.7066	-828	QW	1.5	-1	4.9	-1	1.0	-1	0.310	-1	1.571	-1	5.063	0	1444	39	1.7
42496.3	10000	41.7191	93.7058	-827	QW	1.4	-1	4.5	-1	1.0	-1	0.306	-1	1.399	-1	4.580	-1	1401	50	1.7
42496.4	10000	41.7192	93.7050	-827	QAL	1.5	-2	4.1	-2	0.9	-1	0.361	0	1.612	-1	4.467	-2	1332	41	1.7
42496.5	10000	41.7192	93.7042	-826	QAL	1.4	-2	3.6	-3	0.9	-1	0.378	0	1.565	-1	4.144	-3	1228	38	1.7
42496.6	10000	41.7192	93.7034	-826	QAL	1.2	-2	3.0	-3	0.7	-2	0.406	1	1.627	-1	4.008	-3	1096	56	1.7
42496.7	10000	41.7192	93.7026	-826	QAL	1.2	-2	2.5	-4	0.6	-3	0.485	1	1.976	-1	4.074	-3	956	44	1.7

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42496.8	10000	41.7193	93.7017	-825	QAL	1.2	-2	1.9	-5	0.5	-4	0.598	2	2.490	0	4.164	-2	811	38	1.7
42496.9	10000	41.7193	93.7009	-824	QAL	1.0	-3	1.2	-5	0.3	-5	0.785	5	3.117	-1	3.969	-3	674	45	1.7
42497.0	10000	41.7193	93.7001	-823	QAL	1.0	-3	0.8	-6	0.2	-6	1.192	9	6.016	7	5.046	-1	561	46	1.7
42497.1	10101	41.7193	93.6993	-822	QAL	1.0	-3	0.6	-6	0.1	-7	0.000	-4	0.000	-4	0.000	-8	481	39	1.7
42497.2	10101	41.7193	93.6985	-821	QAL	1.1	-2	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	427	53	1.7
42497.3	10101	41.7194	93.6976	-821	QAL	1.1	-2	0.5	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	414	39	1.7
42497.4	10101	41.7194	93.6968	-821	QAL	1.0	-3	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	404	51	1.7
42497.5	10101	41.7194	93.6960	-820	QAL	1.0	-3	0.3	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	408	43	1.7
42497.6	10101	41.7194	93.6952	-820	QAL	1.0	-3	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	403	52	1.7
42497.7	10101	41.7195	93.6944	-820	QAL	0.9	-3	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	396	44	1.7
42497.8	10111	41.7195	93.6936	-819	QAL	0.8	-3	0.3	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	391	51	1.7
42497.9	10111	41.7195	93.6927	-818	QAL	0.8	-3	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	392	51	1.7
42498.0	10101	41.7195	93.6919	-818	QAL	0.9	-3	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	390	42	1.7
42498.1	10111	41.7195	93.6911	-817	QAL	0.8	-3	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	392	55	1.7
42498.2	10111	41.7196	93.6903	-817	WATER	0.7	999	0.4	999	0.0	999	0.000	999	0.000	999	0.000	999	384	43	1.7
42498.3	10111	41.7196	93.6895	-817	WATER	0.7	999	0.3	999	0.0	999	0.000	999	0.000	999	0.000	999	388	37	1.7
42498.4	10111	41.7196	93.6886	-817	WATER	0.7	999	0.5	999	0.0	999	0.000	999	0.000	999	0.000	999	388	44	1.7
42498.5	10111	41.7196	93.6878	-817	WATER	0.5	999	0.5	999	0.0	999	0.000	999	0.000	999	0.000	999	379	40	1.7
42498.6	10111	41.7196	93.6870	-817	QAL	0.4	-4	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	371	44	1.7
42498.7	10111	41.7197	93.6862	-816	QAL	0.2	-4	0.3	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	367	29	1.7
42498.8	10111	41.7197	93.6854	-816	QAL	0.3	-4	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	359	43	1.7
42498.9	10111	41.7197	93.6846	-816	QAL	0.3	-4	0.4	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	351	38	1.7
42499.0	10111	41.7197	93.6837	-816	QAL	0.3	-4	0.5	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	352	45	1.7
42499.1	10111	41.7197	93.6829	-816	QAL	0.4	-4	0.5	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	357	50	1.7
42499.2	10111	41.7198	93.6821	-815	QAL	0.6	-3	0.5	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	373	55	1.8
42499.3	10111	41.7198	93.6813	-815	QAL	0.6	-3	0.5	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	390	37	1.8
42499.4	10111	41.7198	93.6805	-815	QAL	0.6	-3	0.7	-6	0.0	-7	0.000	-4	0.000	-4	0.000	-8	422	31	1.8
42499.5	10110	41.7198	93.6796	-816	QW	0.7	-3	0.9	-7	0.1	-10	0.000	-4	0.000	-4	0.000	-8	490	35	1.8
42499.6	10000	41.7199	93.6788	-816	QW	0.9	-3	1.3	-6	0.2	-9	0.715	4	5.025	7	7.029	3	575	48	1.8
42499.7	10000	41.7199	93.6780	-816	QW	1.2	-2	1.3	-6	0.3	-7	0.940	6	3.824	4	4.067	-2	689	51	1.8
42499.8	10000	41.7199	93.6772	-816	QW	1.4	-1	1.3	-6	0.5	-6	1.015	7	2.991	2	2.946	-4	814	57	1.8
42499.9	10000	41.7199	93.6764	-816	QW	1.3	-2	2.0	-5	0.6	-4	0.633	3	2.086	0	3.298	-3	948	48	1.8
42500.0	10000	41.7199	93.6756	-815	QW	1.5	-1	2.7	-4	0.7	-3	0.558	2	2.099	0	3.763	-2	1079	54	1.8
42500.1	10000	41.7200	93.6747	-815	QW	1.6	-1	3.1	-3	0.8	-2	0.514	2	1.979	0	3.846	-2	1186	45	1.8
42500.2	10000	41.7200	93.6739	-815	QW	1.6	-1	3.4	-3	0.9	-2	0.469	1	1.852	0	3.948	-2	1257	48	1.8
42500.3	10000	41.7200	93.6731	-815	QW	1.8	0	3.6	-3	0.9	-1	0.515	2	1.983	0	3.352	-2	1338	47	1.8
42500.4	10000	41.7200	93.6723	-815	QW	1.7	-1	4.0	-2	1.0	-1	0.428	1	1.737	0	4.058	-2	1378	50	1.8
42500.5	10000	41.7201	93.6714	-815	QW	1.6	-1	4.7	-1	1.0	-1	0.338	1	1.624	-1	4.806	-1	1410	42	1.8
42500.6	10000	41.7201	93.6706	-815	QW	1.7	-1	4.8	-1	1.0	0	0.343	1	1.600	-1	4.660	-1	1433	47	1.8
42500.7	10000	41.7201	93.6698	-815	QW	1.7	-1	4.7	-1	1.1	0	0.366	1	1.625	-1	4.443	-1	1458	48	1.8
42500.8	10000	41.7201	93.6690	-815	QW	1.8	0	4.9	-1	1.1	0	0.366	1	1.688	0	4.612	-1	1486	39	1.8
42500.9	10000	41.7201	93.6682	-815	QW	1.5	-1	5.1	-1	1.1	0	0.298	0	1.367	-1	4.586	-1	1507	56	1.8
42501.0	10000	41.7202	93.6674	-815	QW	1.6	-1	5.2	0	1.1	0	0.302	-1	1.425	-1	4.711	-1	1515	61	1.8
42501.1	10000	41.7202	93.6665	-815	QW	1.8	-1	5.1	0	1.1	0	0.347	-1	1.710	0	4.934	0	1530	37	1.8
42501.2	10000	41.7202	93.6657	-815	QW	1.8	0	5.2	0	1.1	0	0.345	-1	1.681	0	4.870	-1	1543	49	1.8
42501.3	10000	41.7202	93.6649	-815	QW	1.7	-1	5.4	0	1.1	0	0.320	-1	1.673	0	5.229	0	1548	36	1.8
42501.4	10000	41.7202	93.6641	-815	QW	1.6	-1	5.6	0	1.1	0	0.281	-1	1.541	-1	5.478	0	1557	43	1.8
42501.5	10000	41.7203	93.6633	-814	QW	1.7	-1	5.6	0	1.1	0	0.302	-1	1.530	-1	5.069	0	1577	54	1.8
42501.6	10000	41.7203	93.6624	-813	QW	1.9	0	5.6	0	1.1	0	0.337	-1	1.681	0	4.982	0	1597	33	1.8
42501.7	10000	41.7203	93.6616	-813	QW	1.7	-1	5.7	0	1.1	0	0.299	-1	1.497	-1	5.013	0	1595	59	1.8
42501.8	10000	41.7203	93.6608	-813	QW	1.5	-1	5.7	0	1.2	0	0.265	-1	1.253	-1	4.730	-1	1597	47	1.8
42501.9	10000	41.7203	93.6600	-813	QW	1.3	-2	5.2	0	1.1	1	0.245	-1	1.120	-2	4.573	-1	1590	50	1.8

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42502.0	10000	41.7204	93.6592	-814	QW	1.5	-1	5.2	0	1.1	1	0.283	-1	1.285	-1	4.537	-1	1604	43	1.8
42502.1	10000	41.7204	93.6584	-814	QW	1.8	-1	5.1	-1	1.2	1	0.349	0	1.542	-1	4.413	-1	1602	46	1.8
42502.2	10000	41.7204	93.6575	-815	QW	1.8	-1	5.4	0	1.1	0	0.332	0	1.635	-1	4.932	0	1583	47	1.8
42502.3	10000	41.7204	93.6567	-814	QW	1.7	-1	5.4	0	1.1	0	0.319	-1	1.607	-1	5.046	0	1564	60	1.8
42502.4	10000	41.7205	93.6559	-814	QW	1.6	-1	5.6	0	1.0	0	0.284	-1	1.530	-1	5.379	0	1551	44	1.8
42502.5	10000	41.7205	93.6551	-814	QW	1.7	-1	5.8	0	1.1	0	0.300	-1	1.646	-1	5.486	0	1558	42	1.8
42502.6	10000	41.7205	93.6543	-814	QW	2.0	0	6.1	1	1.1	0	0.334	0	1.879	0	5.624	1	1574	39	1.8
42502.7	10000	41.7205	93.6534	-815	QW	2.0	0	6.0	1	1.1	0	0.341	0	1.886	0	5.533	1	1581	42	1.8
42502.8	10000	41.7205	93.6526	-815	QW	1.8	-1	6.0	1	1.1	1	0.294	-1	1.587	-1	5.400	0	1590	40	1.8
42502.9	10000	41.7206	93.6518	-815	QW	1.7	-1	5.7	0	1.1	1	0.301	-1	1.542	-1	5.115	0	1594	39	1.8
42503.0	10000	41.7206	93.6510	-815	QW	1.7	-1	5.6	0	1.1	1	0.312	-1	1.560	-1	4.996	0	1611	52	1.8
42503.1	10000	41.7206	93.6502	-814	QW	2.0	0	5.5	1	1.1	1	0.363	0	1.735	0	4.773	-1	1621	43	1.8
42503.2	10000	41.7206	93.6494	-814	QW	1.9	0	5.4	0	1.1	1	0.353	0	1.759	0	4.978	0	1602	52	1.8
42503.3	10000	41.7206	93.6485	-814	QW	1.9	0	4.9	-1	1.1	1	0.384	0	1.708	0	4.450	-1	1594	49	1.8
42503.4	10000	41.7207	93.6477	-813	QW	1.7	-1	4.8	-1	1.1	1	0.359	0	1.552	-1	4.328	-1	1578	41	1.7
42503.5	10000	41.7207	93.6469	-812	QW	1.8	-1	4.9	-1	1.0	0	0.359	0	1.695	0	4.715	-1	1555	49	1.7
42503.6	10000	41.7207	93.6461	-813	QW	1.7	-1	4.8	-1	1.0	0	0.358	0	1.714	0	4.788	-1	1543	46	1.7
42503.7	10000	41.7207	93.6453	-815	QW	1.9	0	4.9	-1	1.0	-1	0.381	0	1.928	0	5.057	0	1532	55	1.7
42503.8	10000	41.7207	93.6444	-816	QW	1.9	0	5.0	-1	1.0	-1	0.373	0	1.958	0	5.245	0	1536	52	1.7
42503.9	10000	41.7208	93.6436	-814	QW	1.9	0	5.2	0	1.0	-1	0.357	0	1.921	0	5.381	0	1540	48	1.7
42504.0	10000	41.7208	93.6428	-811	QW	1.8	-1	5.8	0	0.9	-1	0.309	-1	1.879	0	6.088	1	1537	60	1.7
42504.1	10000	41.7208	93.6420	-810	QW	2.1	0	5.7	0	0.9	-1	0.378	0	2.302	1	6.087	1	1550	47	1.7
42504.2	10000	41.7208	93.6412	-812	QW	2.1	0	5.5	0	1.0	-1	0.384	0	2.143	0	5.576	1	1563	36	1.7
42504.3	10000	41.7209	93.6404	-815	QW	2.1	0	5.6	0	1.0	0	0.379	0	2.058	0	5.433	0	1572	57	1.7
42504.4	10000	41.7209	93.6395	-818	QW	1.8	0	5.4	0	1.0	0	0.342	0	1.801	0	5.264	0	1568	47	1.7
42504.5	10000	41.7209	93.6387	-820	QW	1.8	0	5.5	0	1.1	0	0.328	0	1.661	-1	5.069	0	1575	36	1.7
42504.6	10000	41.7209	93.6379	-820	QW	1.8	0	5.2	0	1.1	0	0.353	0	1.686	0	4.776	-1	1582	51	1.7
42504.7	10000	41.7209	93.6371	-820	QW	1.8	0	5.0	-1	1.1	0	0.361	0	1.670	0	4.622	-1	1583	43	1.7
42504.8	10000	41.7210	93.6362	-822	QW	1.8	-1	5.1	-1	1.1	1	0.346	0	1.552	-1	4.481	-1	1581	42	1.7
42504.9	10000	41.7210	93.6354	-822	QW	1.7	-1	5.2	0	1.1	0	0.316	-1	1.444	-1	4.575	-1	1581	45	1.7
42505.0	10000	41.7210	93.6346	-823	QW	1.7	-1	5.4	0	1.1	0	0.308	-1	1.527	-1	4.961	0	1569	61	1.7
42505.1	10000	41.7210	93.6338	-824	QW	1.9	0	5.6	0	1.1	0	0.342	0	1.790	0	5.240	0	1565	34	1.7
42505.2	10000	41.7210	93.6330	-822	QW	1.9	0	5.6	0	1.0	0	0.331	0	1.842	0	5.559	1	1527	53	1.7
42505.3	10000	41.7210	93.6322	-810	QW	2.1	0	5.5	0	0.9	0	0.376	0	2.245	1	5.966	1	1491	40	1.7
42505.4	10000	41.7210	93.6314	-764	QW	2.1	0	5.3	0	0.9	-1	0.393	0	2.309	1	5.870	1	1461	40	1.7
42505.5	10000	41.7210	93.6306	-660	QW	1.9	0	5.3	0	0.8	-2	0.363	0	2.334	2	6.421	2	1418	47	1.7
42505.6	10000	41.7210	93.6298	-604	QW	2.1	0	5.0	-1	0.8	-3	0.426	0	2.806	2	6.590	2	1366	44	1.7
42505.7	10000	41.7210	93.6290	-655	QW	2.1	0	4.8	-1	0.7	-3	0.486	0	2.934	3	6.033	1	1317	36	1.7
42505.8	10000	41.7210	93.6282	-697	QW	2.1	0	4.6	-2	0.7	-4	0.579	0	3.223	3	5.567	1	1270	53	1.7
42505.9	10000	41.7210	93.6274	-689	QW	2.2	0	4.4	-2	0.6	-4	0.694	0	3.524	4	5.076	0	1245	57	1.7
42506.0	10000	41.7210	93.6266	-644	QW	2.2	0	4.2	-3	0.6	-4	0.710	0	3.399	4	4.791	-1	1239	46	1.7
42506.1	10000	41.7210	93.6257	-626	QW	2.4	0	4.1	-3	0.6	-4	0.806	0	3.777	4	4.686	-1	1228	51	1.7
42506.2	10000	41.7210	93.6249	-673	QW	2.4	0	4.1	-3	0.6	-4	0.782	0	3.804	4	4.865	-1	1244	39	1.7
42506.3	10000	41.7210	93.6241	-730	QW	2.6	0	4.1	-3	0.7	-4	0.823	0	3.945	4	4.794	-1	1283	48	1.6
42506.4	10000	41.7210	93.6233	-777	QW	2.7	0	4.3	-3	0.8	-3	0.776	0	3.638	3	4.686	-1	1341	52	1.6
42506.5	10000	41.7210	93.6225	-804	QW	2.6	0	4.5	-2	0.8	-2	0.661	0	3.184	3	4.821	-1	1380	49	1.6
42506.6	10000	41.7210	93.6217	-822	QW	2.7	0	4.5	-2	0.9	-1	0.588	0	3.040	2	5.166	0	1434	44	1.6
42506.7	10000	41.7210	93.6209	-832	QW	2.7	0	4.6	-2	0.9	-1	0.575	0	2.857	2	4.966	0	1496	41	1.6
42506.8	10000	41.7210	93.6201	-835	QW	2.7	0	4.7	-1	1.0	-1	0.509	0	2.758	2	5.416	0	1539	35	1.6
42506.9	10000	41.7210	93.6193	-835	QW	2.7	0	4.8	-1	1.0	-1	0.515	0	2.733	2	5.303	0	1570	45	1.6
42507.0	10000	41.7210	93.6185	-835	QW	2.7	0	4.9	-1	1.1	-1	0.445	0	2.236	2	5.022	0	1582	40	1.6
42507.1	10000	41.7210	93.6177	-834	QW	2.0	0	5.9	1	1.0	0	0.336	0	1.910	0	5.678	1	1577	47	1.6

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42507.2	10000	41.7210	93.6169	-833	QW	1.9	0	6.0	1	1.1	0	0.324	0	1.803	0	5.571	1	1610	49	1.6
42507.3	10000	41.7210	93.6161	-833	QW	1.8	-1	5.8	1	1.1	1	0.306	-1	1.570	-1	5.134	0	1619	42	1.6
42507.4	10000	41.7210	93.6153	-833	QW	1.7	-1	6.1	1	1.2	1	0.279	-1	1.469	-1	5.260	0	1607	56	1.6
42507.5	10000	41.7210	93.6145	-833	QW	1.6	-1	5.7	0	1.2	1	0.285	-1	1.409	-1	4.940	0	1607	37	1.6
42507.6	10000	41.7210	93.6136	-834	QW	1.8	-1	5.4	0	1.1	1	0.326	0	1.572	-1	4.824	-1	1587	48	1.6
42507.7	10000	41.7210	93.6128	-834	QW	1.8	0	5.8	1	1.1	0	0.308	-1	1.644	-1	5.335	0	1585	53	1.6
42507.8	10000	41.7210	93.6120	-834	QW	2.0	0	5.6	0	1.1	1	0.353	0	1.779	0	5.035	0	1596	50	1.6
42507.9	10000	41.7210	93.6112	-835	QW	2.0	0	5.5	0	1.1	0	0.365	0	1.820	0	4.992	0	1575	45	1.6
42508.0	10000	41.7210	93.6104	-836	QW	2.0	0	5.5	0	1.1	0	0.362	0	1.883	0	5.203	0	1566	41	1.6
42508.1	10000	41.7210	93.6096	-836	QW	2.1	0	5.2	0	1.0	0	0.410	0	2.085	0	5.086	0	1569	31	1.6
42508.2	10000	41.7210	93.6088	-836	QW	2.2	1	5.3	0	1.0	0	0.422	1	2.200	1	5.217	0	1568	54	1.6
42508.3	10000	41.7210	93.6080	-837	QW	2.2	1	5.4	0	1.1	0	0.406	0	2.087	0	5.141	0	1585	51	1.6
42508.4	10000	41.7210	93.6072	-837	QW	2.2	1	5.0	-1	1.1	0	0.443	1	2.079	0	4.689	-1	1591	48	1.6
42508.5	10000	41.7210	93.6064	-837	QW	2.5	1	4.9	-1	1.1	0	0.516	2	2.363	1	4.582	-1	1594	42	1.6
42508.6	10000	41.7210	93.6056	-837	QW	2.5	1	5.0	-1	1.1	0	0.503	1	2.294	1	4.559	-1	1599	42	1.6
42508.7	10000	41.7210	93.6048	-837	QW	2.5	1	5.0	-1	1.1	0	0.498	1	2.253	1	4.528	-1	1604	50	1.6
42508.8	10000	41.7210	93.6040	-838	QW	2.3	1	5.3	0	1.1	1	0.439	1	2.062	0	4.699	-1	1597	43	1.6
42508.9	10000	41.7210	93.6032	-838	QW	2.1	0	5.3	0	1.2	1	0.390	0	1.798	0	4.612	-1	1608	42	1.6
42509.0	10000	41.7210	93.6024	-838	QW	2.2	0	5.3	0	1.1	1	0.410	0	1.941	0	4.731	-1	1603	43	1.5
42509.1	10000	41.7210	93.6015	-838	CULTRL	2.3	999	5.1	999	1.1	999	0.454	999	2.136	999	4.701	999	1594	42	1.6
42509.2	10000	41.7210	93.6007	-839	CULTRL	2.2	999	5.2	999	1.1	999	0.418	999	1.893	999	4.528	999	1583	55	1.6
42509.3	10000	41.7210	93.5999	-839	CULTRL	2.2	999	5.1	999	1.1	999	0.430	999	1.961	999	4.558	999	1576	51	1.6
42509.4	10000	41.7210	93.5991	-840	CULTRL	2.2	999	4.8	999	1.1	999	0.449	999	1.955	999	4.351	999	1549	50	1.6
42509.5	10000	41.7210	93.5983	-840	CULTRL	2.3	999	4.7	999	1.1	999	0.488	999	2.148	999	4.406	999	1529	57	1.6
42509.6	10000	41.7210	93.5975	-838	CULTRL	2.4	999	4.9	999	1.0	999	0.491	999	2.324	999	4.733	999	1484	40	1.6
42509.7	10000	41.7210	93.5967	-837	CULTRL	2.3	999	4.7	999	1.0	999	0.490	999	2.295	999	4.683	999	1457	49	1.6
42509.8	10000	41.7210	93.5959	-836	CULTRL	2.3	999	4.7	999	1.0	999	0.490	999	2.416	999	4.929	999	1421	51	1.6
42509.9	10000	41.7210	93.5951	-836	CULTRL	2.2	999	4.9	999	0.9	999	0.459	999	2.495	999	5.441	999	1416	38	1.6
42510.0	10000	41.7210	93.5943	-835	CULTRL	2.2	999	4.9	999	0.9	999	0.442	999	2.507	999	5.666	999	1403	45	1.6
42510.1	10000	41.7210	93.5935	-837	CULTRL	2.1	999	4.8	999	0.9	999	0.432	999	2.439	999	5.645	999	1397	42	1.6
42510.2	10000	41.7210	93.5927	-839	CULTRL	2.0	999	4.7	999	0.8	999	0.423	999	2.323	999	5.489	999	1397	47	1.6
42510.3	10000	41.7210	93.5919	-840	CULTRL	2.0	999	4.5	999	0.8	999	0.447	999	2.427	999	5.425	999	1403	40	1.7
42510.4	10000	41.7210	93.5910	-841	CULTRL	2.1	999	4.6	999	0.8	999	0.458	999	2.492	999	5.442	999	1407	39	1.7
42510.5	10000	41.7211	93.5903	-840	CULTRL	2.0	999	4.7	999	0.9	999	0.420	999	2.226	999	5.295	999	1419	42	1.7
42510.6	10000	41.7211	93.5894	-840	CULTRL	1.9	999	4.4	999	0.9	999	0.424	999	2.114	999	4.991	999	1392	53	1.7
42510.7	10000	41.7211	93.5886	-841	QW	2.0	0	4.4	-2	0.8	-2	0.454	1	2.371	1	5.226	0	1381	47	1.7
42510.8	10000	41.7211	93.5878	-839	QW	2.2	1	4.5	-1	0.8	-2	0.490	1	2.705	2	5.519	1	1394	39	1.7
42510.9	10000	41.7211	93.5870	-834	QW	2.1	1	4.8	-1	0.8	-2	0.425	1	2.476	1	5.827	1	1392	44	1.7
42511.0	10000	41.7211	93.5862	-825	QW	2.2	1	4.6	-1	0.9	-2	0.482	1	2.530	2	5.246	1	1414	57	1.7
42511.1	10000	41.7211	93.5854	-827	QW	2.2	1	4.5	-1	0.8	-2	0.474	1	2.538	2	5.351	1	1414	41	1.7
42511.2	10000	41.7211	93.5846	-838	QW	2.4	1	4.5	-2	0.8	-2	0.532	2	2.954	3	5.553	1	1423	37	1.7
42511.3	10000	41.7211	93.5838	-841	QW	2.5	1	4.3	-2	0.8	-2	0.579	2	3.177	3	5.491	1	1455	53	1.7
42511.4	10000	41.7211	93.5830	-842	QW	2.5	1	4.2	-2	0.8	-2	0.586	2	2.962	3	5.053	1	1485	40	1.7
42511.5	10000	41.7211	93.5822	-843	QW	2.5	1	4.3	-2	0.9	-1	0.581	2	2.696	3	5.089	1	1496	56	1.7
42511.6	10000	41.7211	93.5814	-844	QW	2.5	1	4.3	-2	0.9	-1	0.534	2	2.793	3	4.811	0	1518	52	1.7
42511.7	10000	41.7211	93.5806	-844	QW	2.5	1	4.7	-1	0.9	-1	0.460	2	2.684	3	5.025	0	1519	46	1.7
42511.8	10000	41.7211	93.5798	-844	QW	2.5	1	4.7	-1	1.0	0	0.370	1	2.154	2	4.678	-1	1531	54	1.7
42511.9	10000	41.7211	93.5789	-844	QW	2.4	1	4.9	-1	1.0	0	0.391	1	1.704	2	4.609	-1	1551	47	1.7
42512.0	10000	41.7211	93.5781	-844	QW	2.3	1	5.1	-1	1.0	0	0.422	1	1.849	2	4.731	-1	1550	47	1.7
42512.1	10000	41.7211	93.5773	-844	QW	2.2	1	5.2	-1	1.0	0	0.421	1	2.003	2	4.748	-1	1555	54	1.7
42512.2	10000	41.7211	93.5765	-844	QW	2.3	1	5.4	0	1.0	0	0.421	1	2.171	3	5.151	0	1547	43	1.7
42512.3	10000	41.7211	93.5757	-844	QW	2.1	0	5.4	0	1.0	-1	0.401	0	2.216	1	5.531	1	1544	53	1.8

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42512.4	10000	41.7211	93.5749	-844	QW	1.9	0	5.3	0	0.9	-1	0.369	0	2.120	0	5.742	1	1531	49	1.8
42512.5	10000	41.7211	93.5741	-844	QW	2.1	0	5.6	0	0.9	-1	0.385	0	2.369	1	6.160	2	1523	33	1.8
42512.6	10000	41.7211	93.5733	-844	QW	2.2	0	5.3	0	0.9	-2	0.413	0	2.554	1	6.192	2	1496	44	1.8
42512.7	10000	41.7211	93.5725	-844	QW	2.1	0	5.1	0	0.9	-2	0.402	0	2.414	1	6.000	1	1481	43	1.8
42512.8	10000	41.7211	93.5717	-843	QW	1.8	0	5.1	-1	0.8	-2	0.365	0	2.175	1	5.967	1	1451	45	1.8
42512.9	10000	41.7211	93.5709	-843	QW	1.7	-1	5.0	-1	0.9	-1	0.340	0	1.829	0	5.386	0	1451	47	1.8
42513.0	10000	41.7211	93.5701	-843	QW	1.5	-1	4.6	-1	0.9	-1	0.335	0	1.651	-1	4.929	0	1423	51	1.8
42513.1	10000	41.7211	93.5693	-844	QW	1.4	-1	4.6	-1	1.0	-1	0.300	-1	1.450	-1	4.837	-1	1430	42	1.8
42513.2	10000	41.7211	93.5685	-844	QW	1.6	-1	4.5	-1	0.9	-1	0.349	0	1.653	-1	4.736	-1	1439	41	1.8
42513.3	10000	41.7211	93.5677	-844	QW	1.5	-1	4.3	-2	1.0	0	0.355	0	1.507	-1	4.240	-2	1456	41	1.8
42513.4	10000	41.7211	93.5668	-844	QW	1.3	-2	4.6	-1	1.0	0	0.272	-1	1.222	-1	4.495	-1	1472	44	1.8
42513.5	10000	41.7211	93.5660	-844	QW	1.1	-2	5.0	-1	1.1	0	0.223	-2	1.045	-2	4.692	-1	1490	36	1.8
42513.6	10000	41.7211	93.5652	-844	QW	1.4	-2	4.8	-1	1.0	0	0.285	-1	1.204	-1	4.578	-1	1487	46	1.8
42513.7	10000	41.7211	93.5644	-844	QW	1.3	-2	4.8	-1	1.1	0	0.271	-1	1.191	-1	4.394	-1	1495	38	1.8
42513.8	10000	41.7211	93.5636	-844	QW	1.2	-2	4.7	-1	1.1	0	0.254	-1	1.084	-2	4.261	-2	1482	45	1.8
42513.9	10010	41.7211	93.5628	-844	QW	0.9	-3	4.6	-1	1.1	1	0.000	-4	0.000	-4	4.172	-2	1478	39	1.8
42514.0	10000	41.7211	93.5620	-844	QW	1.0	-2	4.7	-1	1.1	0	0.222	-2	0.954	-2	4.306	-1	1467	39	1.9
42514.1	10000	41.7211	93.5612	-844	QW	1.0	-2	4.6	-1	1.1	1	0.230	-1	0.930	-2	4.035	-2	1472	44	1.9
42514.2	10000	41.7211	93.5604	-845	QW	1.2	-2	4.4	-1	1.1	0	0.268	-1	1.075	-2	4.017	-2	1479	34	1.9
42514.3	10000	41.7211	93.5596	-845	QW	0.9	-3	4.3	-2	1.1	1	0.217	-2	0.829	-2	3.813	-2	1499	52	1.9
42514.4	10000	41.7211	93.5588	-845	QW	0.9	-3	4.3	-2	1.2	1	0.215	-2	0.811	-2	3.766	-2	1506	38	1.9
42514.5	10000	41.7211	93.5580	-846	QW	1.0	-2	4.7	-1	1.2	1	0.222	-2	0.885	-2	3.984	-2	1544	46	1.9
42514.6	10000	41.7211	93.5571	-846	QW	1.2	-2	5.0	-1	1.2	1	0.230	-1	0.993	-2	4.310	-1	1551	45	1.9
42514.7	10000	41.7211	93.5563	-846	QW	1.2	-2	5.3	0	1.2	1	0.219	-2	0.994	-2	4.531	-1	1562	43	1.9
42514.8	10000	41.7211	93.5555	-846	QW	1.3	-2	5.1	-1	1.1	1	0.259	-1	1.195	-1	4.613	-1	1559	46	1.9
42514.9	10000	41.7211	93.5547	-846	QW	1.3	-2	5.2	0	1.1	1	0.251	-1	1.195	-1	4.755	-1	1560	55	1.9
42515.0	10000	41.7211	93.5538	-846	QW	1.5	-1	5.7	0	1.0	1	0.264	-1	1.427	-1	5.414	0	1557	42	1.9
42515.1	10000	41.7211	93.5530	-846	QW	1.7	-1	6.0	0	1.0	1	0.292	-1	1.718	0	5.884	1	1572	38	1.9
42515.2	10000	41.7211	93.5522	-846	QW	1.8	0	5.7	0	1.0	0	0.314	-1	1.842	0	5.863	1	1558	38	1.9
42515.3	10000	41.7211	93.5513	-846	QW	1.7	-1	5.5	0	1.0	0	0.312	-1	1.746	0	5.589	1	1552	46	1.9
42515.4	10000	41.7211	93.5505	-846	QW	1.8	0	5.6	0	1.0	0	0.326	0	1.858	0	5.702	1	1564	48	1.9
42515.5	10000	41.7211	93.5497	-847	QW	1.7	-1	6.0	1	1.0	-1	0.289	-1	1.662	-1	5.746	1	1566	49	1.9
42515.6	10000	41.7211	93.5488	-848	QW	1.7	-1	5.8	1	1.1	-1	0.293	-1	1.612	-1	5.503	1	1561	48	1.9
42515.7	10000	41.7211	93.5480	-848	QW	1.7	-1	5.5	0	1.0	0	0.316	-1	1.683	0	5.321	0	1550	38	1.9
42515.8	10000	41.7210	93.5472	-849	QW	1.8	-1	5.6	0	1.1	0	0.313	-1	1.652	-1	5.287	0	1552	56	1.9
42515.9	10000	41.7210	93.5463	-850	QW	1.7	-1	5.9	1	1.1	0	0.294	-1	1.638	-1	5.573	1	1556	41	1.9
42516.0	10000	41.7210	93.5455	-850	QW	1.7	-1	6.0	1	1.1	0	0.274	-1	1.541	-1	5.625	1	1564	44	1.9
42516.1	10000	41.7210	93.5447	-850	QW	1.5	-1	6.1	1	1.1	0	0.249	-1	1.439	-1	5.784	1	1552	59	1.9
42516.2	10000	41.7210	93.5438	-851	QW	1.5	-1	5.9	1	1.0	0	0.263	-1	1.503	-1	5.714	1	1548	45	1.9
42516.3	10000	41.7210	93.5430	-852	QW	1.7	-1	5.9	1	1.0	0	0.282	-1	1.651	-1	5.860	1	1558	52	1.9
42516.4	10000	41.7210	93.5422	-853	QW	1.4	-1	6.0	1	1.0	0	0.237	-1	1.402	-1	5.915	1	1560	46	1.9
42516.5	10000	41.7210	93.5414	-853	QW	1.4	-1	5.6	1	1.0	0	0.253	-1	1.397	-1	5.519	1	1560	63	1.9
42516.6	10000	41.7210	93.5405	-854	QW	1.5	-1	5.6	1	1.0	0	0.262	-1	1.477	-1	5.633	1	1553	52	1.9
42516.7	10000	41.7210	93.5397	-855	QW	1.6	-1	6.0	1	1.0	0	0.272	-1	1.565	-1	5.761	1	1567	55	1.9
42516.8	10000	41.7210	93.5389	-855	QW	1.6	-1	5.8	1	1.1	0	0.268	-1	1.455	-1	5.426	0	1584	55	1.9
42516.9	10000	41.7210	93.5380	-856	QW	1.6	-1	6.1	1	1.1	0	0.254	-1	1.441	-1	5.683	1	1594	51	1.9
42517.0	10000	41.7210	93.5372	-856	QW	1.4	-1	6.0	1	1.1	0	0.238	-1	1.313	-1	5.520	1	1589	59	1.9
42517.1	10000	41.7210	93.5364	-857	QW	1.7	-1	5.9	1	1.1	0	0.289	-1	1.529	-1	5.288	0	1604	41	1.9
42517.2	10000	41.7210	93.5355	-857	QW	1.7	-1	6.3	1	1.1	0	0.278	-1	1.588	-1	5.709	1	1607	53	1.9
42517.3	10000	41.7210	93.5347	-858	QW	1.8	0	5.9	1	1.1	0	0.307	-1	1.611	-1	5.254	0	1614	52	1.9
42517.4	10000	41.7210	93.5339	-858	QW	1.8	-1	5.4	0	1.1	0	0.327	0	1.591	-1	4.865	-1	1619	42	1.9
42517.5	10000	41.7210	93.5330	-859	QW	1.9	0	5.6	0	1.1	0	0.346	0	1.775	0	5.133	0	1603	45	1.9

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
42517.6	10000	41.7210	93.5322	-860	QW	2.0	0	5.3	0	1.0	0	0.375	0	1.918	0	5.119	0	1587	35	1.9
42517.7	10000	41.7210	93.5314	-860	QW	2.1	0	5.4	0	1.0	0	0.390	0	2.068	0	5.298	0	1573	54	1.9
42517.8	10000	41.7210	93.5305	-861	QW	1.9	0	5.7	0	1.0	-1	0.330	0	1.884	0	5.707	1	1575	46	1.9
42517.9	10000	41.7210	93.5297	-862	QW	1.7	-1	5.6	0	1.0	-1	0.304	-1	1.704	0	5.604	1	1555	36	1.9
42518.0	10000	41.7210	93.5289	-862	QW	1.8	0	5.6	0	1.0	-1	0.328	0	1.854	0	5.651	1	1538	57	1.9
42518.1	10000	41.7210	93.5280	-863	QW	1.9	0	5.7	0	0.9	-1	0.329	0	1.983	0	6.037	1	1515	53	1.9
42518.2	10000	41.7210	93.5272	-863	QW	1.7	-1	5.4	0	1.0	-1	0.321	-1	1.805	0	5.630	1	1511	45	1.9
42518.3	10000	41.7209	93.5264	-864	QW	1.7	-1	5.5	0	1.0	0	0.307	-1	1.655	-1	5.398	0	1500	59	1.9
42518.4	10000	41.7210	93.5256	-865	QW	1.5	-1	5.8	0	1.1	0	0.255	-1	1.397	-1	5.476	0	1521	55	1.9
42518.5	10000	41.7210	93.5247	-865	QW	1.9	0	5.5	0	1.1	0	0.342	0	1.797	0	5.259	0	1517	46	1.9
42518.6	10000	41.7209	93.5239	-866	QW	2.1	0	5.4	0	1.1	0	0.383	0	1.937	0	5.054	0	1527	42	1.9
42518.7	10000	41.7209	93.5231	-866	QW	1.7	-1	5.7	0	1.1	0	0.293	-1	1.569	-1	5.357	0	1531	53	1.9
42518.8	10000	41.7209	93.5222	-867	QW	1.6	-1	5.5	0	1.1	0	0.301	-1	1.539	-1	5.109	0	1535	44	1.9
42518.9	10000	41.7209	93.5214	-867	QW	1.6	-1	5.3	0	1.0	0	0.297	-1	1.521	-1	5.124	0	1540	46	1.9
42519.0	10000	41.7209	93.5206	-868	QW	1.6	-1	5.1	0	1.0	0	0.316	-1	1.571	-1	4.974	0	1555	48	1.9
42519.1	10000	41.7209	93.5197	-868	QW	1.7	-1	4.6	-1	1.0	-1	0.360	0	1.670	0	4.643	-1	1544	41	1.8
43238.7	10000	41.7213	93.5190	-854	QW	1.1	-2	6.5	1	1.1	1	0.172	-2	0.972	-2	5.637	1	1483	45	1.3
43238.8	10000	41.7213	93.5182	-855	QW	1.2	-2	6.5	1	1.2	1	0.185	-2	1.046	-2	5.646	1	1481	43	1.3
43238.9	10000	41.7213	93.5175	-855	QW	1.2	-2	6.5	1	1.1	1	0.180	-2	1.035	-2	5.754	1	1478	49	1.3
43239.0	10000	41.7213	93.5167	-855	QW	1.4	-1	6.7	2	1.2	1	0.216	-2	1.234	-1	5.726	1	1484	36	1.3
43239.1	10000	41.7213	93.5159	-856	QW	1.3	-2	6.4	1	1.1	1	0.209	-2	1.185	-2	5.679	1	1479	39	1.3
43239.2	10000	41.7213	93.5152	-857	QW	1.3	-2	6.6	2	1.1	1	0.199	-2	1.185	-2	5.944	1	1481	45	1.3
43239.3	10000	41.7213	93.5144	-858	QW	1.7	-1	6.6	2	1.1	0	0.249	-1	1.535	-1	6.164	2	1462	45	1.3
43239.4	10000	41.7213	93.5136	-858	QW	1.8	0	6.3	1	1.1	1	0.283	-1	1.588	-1	5.611	1	1451	43	1.3
43239.5	10000	41.7213	93.5128	-859	QW	1.6	-1	5.9	1	1.2	1	0.278	-1	1.427	-1	5.124	0	1464	48	1.3
43239.6	10000	41.7213	93.5121	-859	QW	2.0	0	5.5	1	1.2	2	0.359	0	1.643	-1	4.570	-1	1478	43	1.3
43239.7	10000	41.7213	93.5113	-859	QW	1.9	0	5.4	1	1.2	2	0.391	1	1.612	-1	4.119	-2	1472	68	1.3
43239.8	10000	41.7213	93.5105	-860	QW	2.0	0	5.4	1	1.2	2	0.431	1	1.676	0	3.892	-2	1476	45	1.3
43239.9	10000	41.7213	93.5098	-860	QW	2.1	0	5.7	1	1.2	2	0.453	1	1.706	0	3.764	-2	1485	60	1.3
43240.0	10000	41.7213	93.5090	-860	QW	1.9	0	5.0	0	1.3	2	0.381	0	1.493	-1	3.920	-2	1507	42	1.3
43240.1	10000	41.7213	93.5082	-860	QW	1.9	0	5.4	0	1.3	2	0.374	0	1.499	-1	4.012	-2	1525	51	1.3
43240.2	10000	41.7213	93.5075	-861	QW	2.0	0	5.4	0	1.2	2	0.377	0	1.664	-1	4.409	-1	1524	46	1.3
43240.3	10000	41.7213	93.5067	-861	QW	1.9	0	5.4	0	1.2	2	0.356	0	1.647	-1	4.625	-1	1517	36	1.3
43240.4	10000	41.7213	93.5059	-862	QW	1.8	0	5.8	1	1.2	1	0.305	-1	1.529	-1	5.010	0	1522	37	1.3
43240.5	10000	41.7213	93.5052	-862	QW	1.8	0	6.1	1	1.2	1	0.294	-1	1.551	-1	5.279	0	1519	47	1.3
43240.6	10000	41.7213	93.5044	-862	QW	1.7	-1	5.9	1	1.1	0	0.286	-1	1.560	-1	5.447	0	1504	55	1.3
43240.7	10000	41.7213	93.5036	-862	QW	2.0	0	5.6	1	1.1	1	0.351	0	1.843	0	5.248	0	1480	35	1.3
43240.8	10000	41.7213	93.5028	-860	QW	2.0	0	5.4	0	1.1	1	0.372	0	1.931	0	5.195	0	1455	45	1.3
43240.9	10000	41.7213	93.5021	-853	QW	1.9	0	5.4	0	1.0	1	0.383	0	1.855	0	4.850	-1	1441	58	1.3
43241.0	10000	41.7213	93.5013	-835	QW	1.7	-1	5.3	0	1.0	0	0.324	-1	1.694	0	5.231	0	1433	41	1.3
43241.1	10000	41.7213	93.5005	-831	QW	1.8	0	5.5	0	1.0	0	0.325	-1	1.769	0	5.440	0	1429	39	1.3
43241.2	10000	41.7213	93.4998	-848	QW	1.8	0	5.5	0	1.0	0	0.331	-1	1.818	0	5.489	0	1428	41	1.3
43241.3	10000	41.7213	93.4990	-858	QW	1.9	0	5.4	0	1.0	0	0.354	0	1.858	0	5.252	0	1447	51	1.3
43241.4	10000	41.7213	93.4982	-862	QW	2.0	0	5.5	0	1.0	0	0.355	0	1.865	0	5.255	0	1482	37	1.3
43241.5	10000	41.7213	93.4975	-863	QW	2.0	0	5.6	0	1.1	0	0.371	0	1.912	0	5.153	0	1504	49	1.3
43241.6	10000	41.7212	93.4967	-862	QW	2.2	0	5.4	0	1.1	0	0.393	0	2.060	0	5.238	0	1512	37	1.3
43241.7	10000	41.7212	93.4959	-862	QW	2.0	0	5.4	0	1.1	0	0.413	0	2.132	0	5.163	0	1509	49	1.3
43241.8	10000	41.7212	93.4951	-862	QW	2.0	0	5.7	0	1.1	0	0.372	0	1.909	0	5.125	0	1505	54	1.3
43241.9	10000	41.7212	93.4944	-862	QW	1.7	-1	5.8	0	1.0	0	0.345	-1	1.878	0	5.439	-1	1503	46	1.3
43242.0	10000	41.7212	93.4936	-862	QW	1.7	-1	5.8	0	1.0	0	0.294	-1	1.645	-1	5.595	-1	1487	49	1.3
43242.1	10000	41.7212	93.4928	-861	QW	1.5	-1	5.9	1	1.0	-1	0.251	-1	1.643	-1	5.722	-1	1463	49	1.3
43242.2	10000	41.7212	93.4921	-861	QW	1.5	-1	5.9	1	1.0	-1	0.251	-1	1.502	-1	5.991	1	1445	49	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43242.3	10000	41.7212	93.4913	-861	QW	1.4	-1	6.0	1	1.0	-1	0.227	-2	1.432	-1	6.316	2	1435	51	1.3
43242.4	10000	41.7212	93.4905	-862	QW	1.3	-2	5.8	1	1.0	-1	0.229	-2	1.393	-1	6.080	1	1429	46	1.3
43242.5	10000	41.7212	93.4897	-867	QW	1.4	-1	5.8	1	0.9	-1	0.246	-1	1.535	-1	6.230	2	1422	49	1.3
43242.6	10000	41.7212	93.4890	-871	QW	1.5	-1	5.7	0	1.0	-1	0.260	-1	1.537	-1	5.902	1	1418	49	1.4
43242.7	10000	41.7212	93.4882	-871	QW	1.7	-1	5.7	0	1.0	-1	0.302	-1	1.812	0	6.004	1	1423	48	1.4
43242.8	10000	41.7212	93.4874	-871	QW	1.6	-1	5.8	1	1.0	-1	0.272	-1	1.626	-1	5.979	1	1441	46	1.4
43242.9	10000	41.7212	93.4867	-871	QW	1.7	-1	6.1	1	1.0	-1	0.276	-1	1.708	0	6.180	2	1459	44	1.4
43243.0	10000	41.7212	93.4859	-870	QW	1.8	-1	6.2	1	1.0	0	0.289	-1	1.735	0	6.015	1	1465	39	1.4
43243.1	10000	41.7212	93.4851	-870	QW	1.8	0	6.6	2	1.1	0	0.279	-1	1.703	0	6.094	1	1490	35	1.4
43243.2	10000	41.7212	93.4844	-870	QW	1.9	0	6.2	1	1.1	1	0.305	-1	1.694	0	5.544	1	1504	47	1.4
43243.3	10000	41.7212	93.4836	-869	QW	1.9	0	6.1	1	1.1	1	0.312	-1	1.664	-1	5.334	0	1518	38	1.4
43243.4	10000	41.7212	93.4828	-868	QW	1.9	0	5.9	1	1.1	1	0.329	0	1.701	0	5.177	0	1520	40	1.4
43243.5	10000	41.7212	93.4821	-865	QW	2.0	0	6.0	1	1.2	1	0.335	0	1.726	0	5.161	0	1509	38	1.4
43243.6	10000	41.7212	93.4813	-863	QW	1.9	0	5.5	0	1.2	1	0.347	0	1.600	-1	4.617	-1	1507	43	1.4
43243.7	10000	41.7212	93.4805	-865	QW	1.6	-1	5.8	0	1.2	1	0.285	-1	1.394	-1	4.895	0	1500	52	1.4
43243.8	10000	41.7212	93.4797	-868	QW	1.6	-1	5.2	0	1.2	1	0.304	-1	1.331	-1	4.381	-1	1494	64	1.4
43243.9	10000	41.7212	93.4790	-868	QW	1.6	-1	5.2	0	1.2	1	0.304	-1	1.357	-1	4.462	-1	1491	56	1.4
43244.0	10000	41.7212	93.4782	-868	QW	1.7	-1	5.1	-1	1.1	1	0.332	0	1.504	-1	4.528	-1	1490	59	1.4
43244.1	10000	41.7212	93.4774	-869	QW	1.7	-1	5.1	-1	1.1	1	0.329	0	1.484	-1	4.515	-1	1492	41	1.4
43244.2	10000	41.7212	93.4767	-869	QW	1.5	-1	5.4	0	1.1	0	0.273	-1	1.361	-1	4.986	0	1495	44	1.4
43244.3	10000	41.7212	93.4759	-869	QW	1.6	-1	5.8	1	1.1	0	0.268	-1	1.426	-1	5.331	0	1494	48	1.4
43244.4	10000	41.7212	93.4751	-869	QW	1.6	-1	5.5	0	1.1	0	0.296	-1	1.528	-1	5.164	0	1513	45	1.4
43244.5	10000	41.7212	93.4743	-868	QW	1.6	-1	5.7	0	1.0	0	0.279	-1	1.535	-1	5.501	1	1518	42	1.4
43244.6	10000	41.7212	93.4736	-868	QW	1.6	-1	5.8	0	1.0	0	0.273	-1	1.551	-1	5.691	1	1514	48	1.4
43244.7	10000	41.7212	93.4728	-868	QW	1.4	-1	5.8	1	1.0	0	0.235	-1	1.342	-1	5.712	1	1506	45	1.4
43244.8	10000	41.7211	93.4720	-868	QW	1.3	-2	5.7	0	1.0	-1	0.234	-1	1.342	-1	5.739	1	1503	51	1.4
43244.9	10000	41.7211	93.4713	-868	QW	1.6	-1	5.4	0	1.0	0	0.297	-1	1.595	-1	5.365	1	1508	42	1.4
43245.0	10000	41.7211	93.4705	-867	QW	1.7	-1	5.4	0	1.0	-1	0.309	-1	1.732	0	5.603	1	1499	36	1.4
43245.1	10000	41.7211	93.4697	-868	QW	1.7	-1	5.3	0	1.0	-1	0.313	-1	1.677	0	5.359	1	1487	56	1.4
43245.2	10000	41.7211	93.4690	-868	QW	1.6	-1	5.4	0	1.0	0	0.307	-1	1.629	-1	5.312	0	1485	37	1.4
43245.3	10000	41.7211	93.4682	-868	QW	1.6	-1	5.3	0	1.0	0	0.309	-1	1.643	-1	5.317	0	1488	53	1.4
43245.4	10000	41.7211	93.4674	-868	QW	1.8	0	5.2	0	1.0	0	0.353	0	1.816	0	5.145	0	1498	44	1.4
43245.5	10000	41.7211	93.4666	-869	QW	1.8	0	5.2	0	1.0	0	0.346	0	1.775	0	5.134	0	1494	43	1.4
43245.6	10000	41.7211	93.4659	-869	QW	1.8	0	5.3	0	1.0	0	0.343	0	1.771	0	5.161	0	1490	46	1.4
43245.7	10000	41.7211	93.4651	-869	QW	1.7	-1	5.4	0	1.1	0	0.324	0	1.602	-1	4.948	0	1517	52	1.4
43245.8	10000	41.7211	93.4643	-869	QW	1.7	-1	5.3	0	1.1	0	0.328	0	1.623	-1	4.944	0	1514	54	1.4
43245.9	10000	41.7211	93.4636	-869	QW	1.7	-1	5.4	0	1.1	-1	0.318	-1	1.572	-1	4.948	0	1510	53	1.4
43246.0	10000	41.7211	93.4628	-869	QW	1.7	-1	5.3	0	1.0	-1	0.319	-1	1.624	-1	5.098	0	1495	46	1.4
43246.1	10000	41.7211	93.4620	-870	QW	1.5	-1	5.4	0	1.0	-1	0.285	-1	1.472	-1	5.168	0	1496	41	1.4
43246.2	10000	41.7211	93.4613	-870	QW	1.5	-1	6.1	1	1.1	-1	0.254	-1	1.388	-1	5.457	0	1507	51	1.4
43246.3	10000	41.7211	93.4605	-870	QW	1.5	-1	6.1	1	1.1	-1	0.239	-1	1.305	-1	5.460	0	1510	48	1.4
43246.4	10000	41.7211	93.4597	-870	QW	1.4	-1	5.6	1	1.1	-1	0.244	-1	1.266	-1	5.181	0	1493	42	1.4
43246.5	10000	41.7211	93.4590	-871	QW	1.5	-1	5.9	1	1.1	-1	0.250	-1	1.335	-1	5.340	0	1498	55	1.4
43246.6	10000	41.7211	93.4582	-871	QW	1.7	-1	6.0	1	1.1	-1	0.278	-1	1.582	-1	5.686	1	1499	43	1.4
43246.7	10000	41.7211	93.4574	-871	QW	1.8	-1	6.1	1	1.1	-1	0.289	-1	1.622	-1	5.608	1	1512	38	1.4
43246.8	10000	41.7211	93.4566	-872	QW	1.8	0	5.7	1	1.1	-1	0.298	-1	1.687	0	5.664	1	1505	59	1.4
43246.9	10000	41.7211	93.4559	-872	QW	1.9	0	5.6	1	1.1	0	0.326	0	1.832	0	5.624	1	1494	48	1.4
43247.0	10000	41.7211	93.4551	-872	QW	1.9	0	5.4	0	1.1	0	0.354	0	1.824	0	5.467	0	1500	42	1.5
43247.1	10000	41.7211	93.4543	-873	QW	1.9	0	6.4	1	1.1	-1	0.303	-1	1.929	0	6.362	2	1497	44	1.5
43247.2	10000	41.7211	93.4536	-873	QW	1.8	0	6.3	1	1.1	-1	0.288	-1	1.915	0	6.639	2	1497	54	1.5
43247.3	10000	41.7211	93.4528	-873	QW	1.8	0	6.0	1	0.9	-1	0.305	-1	1.959	0	6.414	2	1489	42	1.5
43247.4	10000	41.7211	93.4520	-873	QW	1.8	-1	6.2	1	1.0	-1	0.285	-1	1.850	0	6.485	2	1486	57	1.5

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43247.5	10000	41.7211	93.4512	-873	QW	1.7	-1	6.4	1	1.0	-1	0.271	-1	1.783	0	6.567	2	1490	58	1.5
43247.6	10000	41.7211	93.4505	-874	QW	1.6	-1	6.3	1	1.0	-1	0.252	-1	1.645	-1	6.530	2	1497	43	1.5
43247.7	10000	41.7211	93.4497	-874	QW	1.4	-1	6.4	1	1.0	-1	0.222	-2	1.442	-1	6.493	2	1486	49	1.5
43247.8	10000	41.7211	93.4489	-874	QW	1.6	-1	5.9	1	1.0	-1	0.281	-1	1.676	0	5.973	1	1482	45	1.5
43247.9	10000	41.7210	93.4482	-875	QW	1.7	-1	6.0	1	1.0	-1	0.287	-1	1.724	0	5.996	1	1486	53	1.5
43248.0	10000	41.7210	93.4474	-875	QW	1.7	-1	6.0	1	1.0	0	0.274	-1	1.631	-1	5.948	1	1486	46	1.5
43248.1	10000	41.7210	93.4466	-875	QW	1.7	-1	5.8	1	1.0	0	0.296	-1	1.698	0	5.747	1	1476	45	1.5
43248.2	10000	41.7210	93.4459	-875	QW	1.5	-1	5.5	0	1.0	0	0.276	-1	1.457	-1	5.283	0	1481	49	1.5
43248.3	10000	41.7210	93.4451	-876	QW	1.6	-1	5.3	0	1.1	0	0.306	-1	1.513	-1	4.952	0	1479	35	1.5
43248.4	10000	41.7210	93.4443	-876	QW	1.7	-1	5.4	0	1.1	0	0.316	-1	1.609	-1	5.087	0	1493	53	1.5
43248.5	10000	41.7210	93.4435	-876	QW	1.4	-1	5.3	0	1.1	0	0.271	-1	1.345	-1	4.956	0	1500	26	1.5
43248.6	10000	41.7210	93.4428	-877	QW	1.5	-1	5.1	-1	1.1	0	0.291	-1	1.355	-1	4.648	-1	1495	69	1.4
43248.7	10000	41.7210	93.4420	-877	QW	1.5	-1	5.3	0	1.1	0	0.286	-1	1.399	-1	4.896	0	1501	53	1.4
43248.8	10000	41.7210	93.4412	-877	QW	1.6	-1	5.3	0	1.1	1	0.292	-1	1.394	-1	4.775	-1	1526	42	1.4
43248.9	10000	41.7210	93.4405	-878	QW	1.9	0	5.9	1	1.1	0	0.324	0	1.755	0	5.421	0	1538	46	1.4
43249.0	10000	41.7210	93.4397	-879	QW	2.1	0	6.3	1	1.1	0	0.337	0	2.001	0	5.938	1	1547	42	1.4
43249.1	10000	41.7210	93.4389	-879	QW	2.2	0	6.2	1	1.0	0	0.352	0	2.119	0	6.020	1	1534	43	1.4
43249.2	10000	41.7210	93.4382	-879	QW	2.3	1	6.1	1	1.0	0	0.382	0	2.245	1	5.870	1	1541	55	1.4
43249.3	10000	41.7210	93.4374	-880	QW	2.3	1	6.4	1	1.1	0	0.360	0	2.182	1	6.055	1	1547	50	1.4
43249.4	10000	41.7210	93.4366	-880	QW	2.1	0	6.3	1	1.1	0	0.329	0	1.944	0	5.904	1	1555	58	1.4
43249.5	10000	41.7210	93.4359	-880	QW	2.0	0	6.6	2	1.1	0	0.308	-1	1.900	0	6.166	2	1556	46	1.4
43249.6	10000	41.7210	93.4351	-880	QW	2.0	0	6.3	1	1.1	0	0.317	-1	1.864	0	5.883	1	1547	56	1.4
43249.7	10000	41.7210	93.4343	-880	QW	1.7	-1	6.0	1	1.1	0	0.289	-1	1.604	-1	5.556	1	1551	62	1.4
43249.8	10000	41.7210	93.4335	-881	QW	1.8	-1	5.9	1	1.1	0	0.299	-1	1.627	-1	5.431	0	1560	41	1.4
43249.9	10000	41.7210	93.4328	-881	QW	1.7	-1	6.0	1	1.1	1	0.286	-1	1.552	-1	5.434	0	1552	44	1.4
43250.0	10000	41.7210	93.4320	-881	QW	1.8	0	5.8	1	1.1	0	0.318	-1	1.673	-1	5.259	0	1556	43	1.4
43250.1	10000	41.7210	93.4312	-882	QW	2.1	0	5.8	1	1.1	0	0.364	0	1.952	0	5.359	0	1548	46	1.4
43250.2	10000	41.7210	93.4305	-883	QW	2.0	0	5.7	1	1.1	0	0.353	0	1.847	0	5.229	0	1545	36	1.4
43250.3	10000	41.7210	93.4297	-883	QW	2.0	0	5.7	1	1.1	0	0.361	0	1.867	0	5.167	0	1535	55	1.4
43250.4	10000	41.7210	93.4289	-884	QW	2.0	0	5.7	1	1.1	0	0.355	0	1.916	0	5.398	0	1522	38	1.4
43250.5	10000	41.7210	93.4281	-884	QW	1.9	0	6.0	1	1.1	0	0.311	-1	1.727	0	5.550	1	1521	63	1.4
43250.6	10000	41.7210	93.4274	-885	QW	1.8	0	6.1	1	1.1	0	0.299	-1	1.734	0	5.804	1	1524	51	1.4
43250.7	10000	41.7210	93.4266	-885	QW	1.8	0	6.2	1	1.1	0	0.292	-1	1.793	0	6.141	2	1528	41	1.4
43250.8	10000	41.7209	93.4258	-886	QW	1.7	-1	6.3	1	1.1	0	0.265	-1	1.671	0	6.306	2	1525	63	1.4
43250.9	10000	41.7209	93.4251	-886	QW	1.7	-1	6.1	1	1.1	0	0.274	-1	1.714	0	6.250	2	1524	52	1.4
43251.0	10000	41.7209	93.4243	-887	QW	1.7	-1	6.3	1	1.1	0	0.264	-1	1.729	0	6.553	2	1540	53	1.4
43251.1	10000	41.7209	93.4235	-887	QW	1.8	0	6.2	1	1.1	0	0.285	-1	1.847	0	6.473	2	1554	46	1.4
43251.2	10000	41.7209	93.4228	-887	QW	2.0	0	6.2	1	1.1	0	0.324	0	2.053	0	6.335	2	1575	40	1.4
43251.3	10000	41.7209	93.4220	-888	QW	2.1	0	5.9	1	1.1	0	0.363	0	2.117	0	5.832	1	1580	43	1.4
43251.4	10000	41.7209	93.4212	-889	QW	2.0	0	5.6	0	1.1	0	0.348	0	1.873	0	5.383	0	1562	44	1.4
43251.5	10000	41.7209	93.4204	-889	QW	2.0	0	5.6	1	1.1	0	0.364	0	1.859	0	5.101	0	1573	43	1.4
43251.6	10000	41.7209	93.4197	-889	QW	2.2	0	5.5	1	1.1	0	0.406	0	1.961	0	4.835	-1	1565	37	1.4
43251.7	10000	41.7209	93.4189	-890	QW	2.0	0	5.1	0	1.1	0	0.397	0	1.762	0	4.437	-1	1545	60	1.4
43251.8	10000	41.7209	93.4181	-890	QW	2.0	-1	5.0	0	1.2	0	0.395	0	1.685	0	4.268	-1	1531	42	1.4
43251.9	10000	41.7209	93.4174	-891	QW	1.9	-1	4.9	0	1.2	0	0.385	0	1.625	-1	4.221	-2	1511	53	1.4
43252.0	10000	41.7209	93.4165	-891	QW	1.9	-1	5.2	0	1.2	0	0.361	0	1.616	-1	4.476	-1	1499	42	1.4
43252.1	10000	41.7209	93.4157	-890	QW	1.9	-1	5.0	0	1.2	0	0.384	0	1.686	-1	4.391	-1	1496	50	1.4
43252.2	10000	41.7209	93.4149	-889	QW	1.8	-1	5.1	0	1.1	0	0.358	0	1.603	-1	4.481	-1	1489	54	1.4
43252.3	10000	41.7209	93.4141	-891	QW	1.6	-1	4.9	0	1.1	0	0.307	-1	1.513	-1	4.935	-1	1499	45	1.4
43252.4	10000	41.7209	93.4133	-893	QW	1.6	-1	5.7	0	1.1	0	0.280	-1	1.516	-1	5.408	0	1501	48	1.4
43252.5	10000	41.7209	93.4125	-894	QW	1.6	-1	5.7	0	1.1	0	0.279	-1	1.456	-1	5.223	0	1514	45	1.4
43252.6	10000	41.7209	93.4116	-894	QW	1.6	-1	5.6	0	1.1	0	0.288	-1	1.503	-1	5.212	0	1509	38	1.4

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43252.7	10000	41.7209	93.4108	-895	QW	1.6	-1	5.4	0	1.1	1	0.293	-1	1.440	-1	4.910	0	1511	53	1.4
43252.8	10000	41.7209	93.4100	-895	QW	1.6	-1	5.5	0	1.1	0	0.298	-1	1.487	-1	4.991	0	1522	50	1.4
43252.9	10000	41.7209	93.4092	-896	QW	1.8	0	5.3	0	1.1	0	0.338	0	1.654	-1	4.897	0	1516	53	1.4
43253.0	10000	41.7210	93.4084	-897	QW	1.7	-1	5.2	0	1.1	0	0.328	0	1.590	-1	4.851	-1	1499	56	1.4
43253.1	10000	41.7210	93.4075	-898	QW	1.8	-1	5.1	0	1.1	0	0.346	0	1.656	-1	4.787	-1	1501	61	1.4
43253.2	10000	41.7210	93.4067	-898	QW	1.8	0	5.3	0	1.0	0	0.347	0	1.759	0	5.072	0	1486	47	1.4
43253.3	10000	41.7210	93.4059	-899	QW	1.8	0	5.2	0	1.1	0	0.345	0	1.681	0	4.869	-1	1481	53	1.4
43253.4	10000	41.7210	93.4051	-900	QW	1.5	-1	5.4	0	1.0	0	0.282	-1	1.493	-1	5.290	0	1469	42	1.4
43253.5	10000	41.7210	93.4043	-900	QW	1.5	-1	5.8	0	1.0	0	0.256	-1	1.440	-1	5.616	1	1472	46	1.4
43253.6	10000	41.7210	93.4035	-901	QW	1.4	-1	6.0	1	1.0	0	0.230	-1	1.347	-1	5.847	1	1477	50	1.4
43253.7	10000	41.7210	93.4026	-901	QW	1.7	-1	6.0	1	1.1	0	0.279	-1	1.568	-1	5.621	1	1486	56	1.4
43253.8	10000	41.7210	93.4018	-901	QW	1.6	-1	6.0	1	1.1	0	0.264	-1	1.459	-1	5.527	1	1481	52	1.4
43253.9	10000	41.7210	93.4010	-902	QW	1.4	-2	6.1	1	1.1	1	0.223	-2	1.223	-1	5.485	0	1467	53	1.4
43254.0	10000	41.7210	93.4002	-902	QW	1.4	-1	6.2	1	1.1	0	0.230	-1	1.320	-1	5.735	1	1471	49	1.4
43254.1	10000	41.7210	93.3994	-902	QW	1.7	-1	6.1	1	1.1	0	0.282	-1	1.619	-1	5.736	1	1477	48	1.4
43254.2	10000	41.7210	93.3986	-903	QW	1.7	-1	5.9	1	1.0	0	0.287	-1	1.623	-1	5.661	1	1465	48	1.4
43254.3	10000	41.7210	93.3978	-903	QW	1.8	0	5.5	0	1.0	0	0.325	0	1.741	0	5.361	0	1470	49	1.4
43254.4	10000	41.7210	93.3969	-904	QW	1.6	-1	5.2	0	1.0	-1	0.307	-1	1.624	-1	5.286	0	1449	31	1.4
43254.5	10000	41.7210	93.3961	-904	QW	1.8	0	5.0	-1	0.9	-1	0.362	0	1.935	0	5.350	0	1426	34	1.4
43254.6	10000	41.7210	93.3953	-905	QW	2.0	0	4.8	-1	0.9	-1	0.408	0	2.142	0	5.255	0	1425	43	1.4
43254.7	10000	41.7210	93.3945	-905	QW	2.0	0	4.4	-2	0.9	-2	0.455	1	2.213	1	4.860	-1	1415	41	1.4
43254.8	10000	41.7210	93.3937	-905	QW	2.0	0	4.4	-2	1.0	-1	0.450	1	2.031	0	4.509	-1	1418	42	1.4
43254.9	10000	41.7210	93.3928	-906	QW	2.0	0	4.4	-2	1.0	-1	0.459	1	2.013	0	4.386	-1	1421	51	1.4
43255.0	10000	41.7210	93.3920	-906	QW	1.8	0	4.5	-1	1.0	-1	0.402	0	1.816	0	4.521	-1	1419	44	1.4
43255.1	10000	41.7210	93.3912	-906	QW	2.0	0	4.9	-1	1.0	0	0.415	1	1.963	0	4.726	-1	1437	34	1.4
43255.2	10000	41.7210	93.3904	-906	QW	1.9	0	5.0	-1	1.1	0	0.386	0	1.807	0	4.688	-1	1458	59	1.4
43255.3	10000	41.7210	93.3896	-907	QW	1.9	0	5.2	0	1.1	0	0.363	0	1.812	0	4.992	0	1468	59	1.4
43255.4	10000	41.7210	93.3887	-908	QW	1.9	0	5.4	0	1.1	0	0.358	0	1.810	0	5.055	0	1462	54	1.4
43255.5	10000	41.7211	93.3879	-909	QW	1.9	0	5.5	0	1.0	0	0.338	0	1.857	0	5.485	0	1447	50	1.4
43255.6	10000	41.7211	93.3871	-908	QW	1.6	-1	5.4	0	1.0	-1	0.298	-1	1.653	-1	5.548	0	1420	46	1.4
43255.7	10000	41.7211	93.3863	-908	QW	1.7	-1	5.1	0	1.0	-1	0.332	0	1.741	0	5.241	0	1381	47	1.4
43255.8	10000	41.7211	93.3855	-909	QW	1.6	-1	4.7	-1	0.9	-1	0.332	0	1.686	0	5.081	-1	1348	54	1.4
43255.9	10000	41.7211	93.3847	-909	QW	1.7	-1	4.4	-2	0.9	-1	0.393	0	1.860	0	4.728	-1	1326	47	1.4
43256.0	10000	41.7211	93.3839	-910	QW	1.7	-1	4.2	-2	0.9	-1	0.398	0	1.794	0	4.506	-1	1326	50	1.4
43256.1	10000	41.7211	93.3830	-911	QW	1.4	-1	4.3	-2	0.9	-1	0.330	0	1.485	-1	4.507	-1	1340	51	1.4
43256.2	10000	41.7211	93.3822	-911	QW	1.3	-2	4.5	-1	1.0	0	0.285	-1	1.302	-1	4.564	-1	1359	45	1.4
43256.3	10000	41.7211	93.3814	-911	QW	1.7	-1	4.7	-1	1.0	0	0.363	-1	1.633	-1	4.498	-1	1397	42	1.4
43256.4	10000	41.7211	93.3806	-912	QW	1.5	-1	5.2	0	1.0	0	0.294	-1	1.489	-1	5.062	0	1448	66	1.4
43256.5	10000	41.7211	93.3798	-913	QW	1.6	-1	5.7	1	1.1	0	0.282	-1	1.492	-1	5.287	0	1506	41	1.4
43256.6	10000	41.7211	93.3789	-914	QW	1.7	-1	6.3	1	1.1	0	0.268	-1	1.512	-1	5.636	0	1568	50	1.4
43256.7	10000	41.7211	93.3781	-914	QW	1.9	0	6.7	1	1.1	0	0.283	-1	1.717	0	6.057	1	1591	46	1.4
43256.8	10000	41.7211	93.3773	-914	QW	2.2	0	7.0	1	1.1	0	0.310	-1	1.994	0	6.429	1	1600	48	1.3
43256.9	10000	41.7211	93.3765	-914	QW	2.3	0	6.6	1	1.1	0	0.347	-1	2.135	0	6.145	1	1608	31	1.3
43257.0	10000	41.7211	93.3757	-915	QW	2.2	0	6.6	1	1.1	0	0.341	-1	2.183	0	6.410	1	1594	45	1.3
43257.1	10000	41.7211	93.3748	-916	QW	2.2	0	6.5	1	1.1	0	0.353	-1	2.178	0	6.173	1	1591	53	1.3
43257.2	10000	41.7211	93.3740	-917	QW	2.1	0	6.5	1	1.1	0	0.342	-1	2.092	0	6.118	1	1586	51	1.3
43257.3	10000	41.7211	93.3732	-917	QW	2.1	0	6.4	1	1.1	0	0.327	-1	2.026	0	6.202	1	1571	38	1.3
43257.4	10000	41.7211	93.3724	-918	QW	2.1	0	6.4	1	1.1	0	0.339	-1	2.057	0	6.063	1	1581	44	1.3
43257.5	10000	41.7211	93.3716	-918	QW	2.1	0	6.2	1	1.0	0	0.347	-1	2.038	0	5.878	1	1584	57	1.3
43257.6	10000	41.7211	93.3708	-918	QW	2.2	0	6.6	1	1.1	0	0.338	-1	2.185	0	6.457	1	1597	39	1.3
43257.7	10000	41.7211	93.3699	-919	QW	2.2	0	6.7	1	1.1	0	0.323	-1	2.050	0	6.348	1	1619	34	1.3
43257.8	10000	41.7211	93.3691	-919	QW	2.3	0	6.7	1	1.0	0	0.343	0	2.296	0	6.698	2	1613	46	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43257.9	10000	41.7211	93.3683	-919	QO	2.2	0	6.5	1	1.0	0	0.345	0	2.271	0	6.589	1	1586	43	1.3
43258.0	10000	41.7212	93.3675	-920	QO	2.1	0	6.6	1	1.0	0	0.319	-1	2.061	0	6.453	1	1566	34	1.3
43258.1	10000	41.7212	93.3667	-921	QO	1.8	0	6.3	1	1.0	0	0.292	-1	1.843	0	6.305	1	1532	41	1.3
43258.2	10000	41.7212	93.3659	-921	QO	1.9	0	6.1	1	1.0	0	0.304	-1	1.917	0	6.303	1	1513	36	1.3
43258.3	10000	41.7212	93.3650	-923	QO	1.7	-1	5.7	0	1.0	0	0.305	-1	1.726	0	5.655	0	1472	45	1.3
43258.4	10000	41.7212	93.3642	-923	QO	1.5	-1	5.3	0	1.0	0	0.274	-1	1.502	-1	5.484	0	1432	39	1.3
43258.5	10000	41.7212	93.3634	-924	QO	1.3	-1	5.2	0	1.0	0	0.254	-1	1.303	-1	5.126	0	1399	41	1.3
43258.6	10000	41.7212	93.3626	-924	QO	1.2	-2	5.2	0	1.0	0	0.234	-1	1.215	-1	[illegible]97	0	1380	47	1.3
43258.7	10000	41.7212	93.3618	-925	QO	1.2	-2	4.8	-1	1.0	0	0.256	-1	1.272	-1	[illegible]68	0	1352	52	1.3
43258.8	10000	41.7212	93.3610	-926	QO	1.3	-2	4.6	-1	1.0	0	0.271	-1	1.294	-1	4.[illegible]74	-1	1331	55	1.3
43258.9	10000	41.7212	93.3601	-927	QO	1.1	-2	4.8	-1	1.0	0	0.221	-1	1.026	-2	4.639	-1	1324	40	1.3
43259.0	10000	41.7212	93.3593	-927	QO	1.1	-2	4.9	0	1.0	0	0.225	-1	1.107	-1	4.927	0	1322	44	1.3
43259.1	10000	41.7212	93.3585	-928	QO	1.4	-1	4.9	-1	1.0	0	0.291	-1	1.462	-1	5.018	0	1320	37	1.3
43259.2	10000	41.7212	93.3577	-929	QO	1.6	-1	4.6	-1	0.9	-1	0.349	0	1.764	0	5.048	0	1330	31	1.3
43259.3	10000	41.7212	93.3569	-929	QO	1.7	-1	4.7	-1	0.9	-1	0.356	0	1.934	0	5.428	0	1338	44	1.3
43259.4	10000	41.7212	93.3560	-930	QO	1.7	-1	4.8	-1	0.9	-1	0.362	0	2.037	0	5.629	0	1351	38	1.3
43259.5	10000	41.7212	93.3552	-931	QO	1.7	-1	5.1	0	0.8	-1	0.342	0	2.083	0	6.090	1	1359	42	1.3
43259.6	10000	41.7212	93.3544	-931	QO	1.6	-1	5.0	0	0.7	-2	0.326	-1	2.182	0	6.699	2	1351	43	1.3
43259.7	10000	41.7212	93.3536	-932	QO	1.6	-1	4.9	0	0.7	-2	0.333	-1	2.275	0	6.826	2	1334	42	1.3
43259.8	10000	41.7212	93.3528	-932	QO	1.4	-1	5.1	0	0.7	-2	0.276	-1	1.959	0	7.092	2	1335	38	1.3
43259.9	10000	41.7212	93.3520	-933	QO	1.2	-2	5.7	0	0.7	-2	0.209	-2	1.608	-1	7.705	3	1325	46	1.3
43260.0	10000	41.7212	93.3512	-933	QO	1.2	-2	5.4	0	0.8	-2	0.214	-1	1.475	-1	6.879	2	1315	49	1.3
43260.1	10000	41.7212	93.3503	-934	QO	1.2	-2	5.4	0	0.8	-2	0.220	-1	1.518	-1	6.900	2	1304	51	1.3
43260.2	10000	41.7212	93.3495	-933	QO	1.2	-2	4.9	0	0.8	-2	0.252	-1	1.608	-1	6.377	1	1289	41	1.3
43260.3	10000	41.7212	93.3487	-931	QO	1.6	-1	4.8	-1	0.8	-2	0.321	-1	2.003	0	6.245	1	1274	61	1.3
43260.4	10000	41.7212	93.3479	-934	QO	1.5	-1	5.0	0	0.7	-2	0.305	-1	2.079	0	6.819	2	1270	37	1.3
43260.5	10000	41.7212	93.3471	-936	QO	1.8	-1	5.1	0	0.8	-2	0.346	0	2.352	0	6.798	2	1264	45	1.3
43260.6	10000	41.7212	93.3462	-937	QO	1.8	-1	4.7	-1	0.7	-2	0.376	0	2.346	1	6.240	1	1259	35	1.3
43260.7	10000	41.7212	93.3454	-937	QO	1.8	-1	4.9	0	0.7	-2	0.369	0	2.500	1	6.777	2	1270	59	1.3
43260.8	10000	41.7213	93.3446	-938	QO	1.9	0	4.7	-1	0.8	-2	0.409	1	2.508	1	6.129	1	1284	36	1.3
43260.9	10000	41.7213	93.3438	-939	QO	1.9	0	4.8	-1	0.8	-2	0.404	1	2.453	1	6.066	1	1298	54	1.3
43261.0	10000	41.7213	93.3430	-939	QO	1.9	0	5.0	0	0.8	-1	0.370	0	2.302	1	6.228	1	1310	41	1.3
43261.1	10000	41.7213	93.3421	-940	QO	1.7	-1	4.9	0	0.9	-1	0.353	0	1.994	0	5.647	0	1328	42	1.3
43261.2	10000	41.7213	93.3413	-941	QO	1.6	-1	4.7	-1	0.9	-1	0.339	0	1.860	0	5.483	0	1342	35	1.3
43261.3	10000	41.7213	93.3405	-941	QO	1.6	-1	5.1	0	0.9	-1	0.308	0	1.736	0	5.642	0	1367	50	1.3
43261.4	10000	41.7213	93.3397	-942	QO	1.5	-1	5.1	0	0.9	-1	0.299	-1	1.667	-1	5.574	1	1375	46	1.3
43261.5	10000	41.7213	93.3389	-942	QO	1.4	-1	5.4	0	0.9	-1	0.269	-1	1.619	-1	6.031	1	1391	53	1.3
43261.6	10000	41.7213	93.3381	-943	QO	1.4	-1	5.3	0	0.9	-1	0.268	-1	1.554	-1	5.788	1	1404	50	1.3
43261.7	10000	41.7213	93.3372	-943	QO	1.4	-1	5.4	0	0.9	-1	0.258	-1	1.560	-1	6.035	1	1426	45	1.3
43261.8	10000	41.7213	93.3364	-945	QO	1.5	-1	5.4	0	0.9	-1	0.284	-1	1.743	0	6.142	1	1436	43	1.3
43261.9	10000	41.7213	93.3356	-945	QO	1.6	-1	5.3	0	0.9	-1	0.301	-1	1.831	0	6.087	1	1430	44	1.3
43262.0	10000	41.7213	93.3348	-946	QO	1.6	-1	5.0	0	0.9	-1	0.317	-1	1.710	-1	5.402	1	1423	41	1.3
43262.1	10000	41.7213	93.3340	-947	QO	1.7	-1	4.8	-1	0.9	-1	0.362	0	1.830	0	5.055	0	1419	50	1.3
43262.2	10000	41.7213	93.3332	-948	QO	1.5	-1	5.1	0	1.0	0	0.295	-1	1.555	-1	5.272	1	1399	35	1.3
43262.3	10000	41.7213	93.3323	-948	QO	1.5	-1	5.4	0	1.1	0	0.275	-1	1.508	-1	5.495	1	1392	42	1.3
43262.4	10000	41.7213	93.3315	-949	QO	1.4	-1	5.1	0	1.1	0	0.267	-1	1.296	-1	4.862	0	1393	36	1.3
43262.5	10000	41.7213	93.3307	-949	QO	1.5	-1	5.2	0	1.1	0	0.285	-1	1.332	-1	4.667	-1	1409	34	1.3
43262.6	10000	41.7213	93.3299	-949	QO	1.5	-1	5.1	0	1.1	0	0.308	-1	1.339	-1	4.346	-1	1401	29	1.3
43262.7	10000	41.7213	93.3291	-950	QO	1.7	-1	5.2	0	1.1	0	0.331	-1	1.508	-1	4.555	-1	1408	32	1.3
43262.8	10000	41.7213	93.3282	-951	QO	1.5	-1	4.7	-1	1.1	1	0.286	-1	1.324	-1	4.630	-1	1414	45	1.3
43262.9	10000	41.7213	93.3274	-951	QO	1.6	-1	4.7	-1	1.1	1	0.349	0	1.447	-1	4.144	-1	1425	56	1.2
43263.0	10000	41.7213	93.3266	-952	QO	1.5	-1	4.6	-1	1.1	1	0.334	0	1.327	-1	3.971	-1	1422	48	1.2

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43263.1	10000	41.7213	93.3258	-953	QQ	1.8	-1	4.6	-1	1.1	0	0.384	0	1.585	-1	4.124	-1	1409	40	1.2
43263.2	10000	41.7213	93.3250	-953	QQ	1.7	-1	4.2	-1	1.1	0	0.400	0	1.506	-1	3.771	-2	1388	44	1.2
43263.3	10000	41.7213	93.3242	-955	QQ	1.7	-1	4.2	-1	1.1	0	0.402	0	1.518	-1	3.777	-2	1394	45	1.2
43263.4	10000	41.7213	93.3233	-956	QQ	1.7	-1	4.2	-1	1.1	0	0.394	0	1.584	-1	4.023	-1	1380	54	1.2
43263.5	10000	41.7213	93.3225	-957	QQW	1.6	-1	4.1	-2	1.0	0	0.398	0	1.590	-1	3.990	-2	1361	44	1.2
43263.6	10000	41.7213	93.3217	-957	QQW	1.5	-1	4.3	-2	1.0	0	0.339	0	1.397	-1	4.116	-2	1340	52	1.2
43263.7	10000	41.7213	93.3209	-958	QQW	1.7	-1	4.1	-2	1.0	0	0.409	0	1.626	-1	3.973	-2	1333	40	1.2
43263.8	10000	41.7214	93.3201	-959	QQW	1.6	-1	4.0	-2	1.0	0	0.400	0	1.572	-1	3.931	-2	1317	45	1.2
43263.9	10000	41.7214	93.3193	-959	QQW	1.7	-1	4.3	-2	1.0	-1	0.393	0	1.767	0	4.499	-1	1304	39	1.2
43264.0	10000	41.7214	93.3184	-960	QQW	1.5	-1	4.4	-1	0.9	-1	0.347	0	1.674	0	4.818	-1	1279	54	1.2
43264.1	10000	41.7214	93.3176	-961	QQW	1.6	-1	4.3	-2	1.0	-1	0.374	0	1.689	0	4.519	-1	1272	40	1.2
43264.2	10000	41.7214	93.3168	-962	QQW	1.6	-1	4.3	-2	1.0	-1	0.377	0	1.678	0	4.449	-1	1263	28	1.2
43264.3	10000	41.7214	93.3160	-963	QQW	1.7	-1	3.9	-2	0.9	-1	0.446	1	1.850	0	4.144	-2	1259	43	1.2
43264.4	10000	41.7214	93.3152	-964	QQW	1.8	-1	4.1	-2	0.9	-1	0.432	1	1.899	0	4.399	-1	1258	43	1.2
43264.5	10000	41.7214	93.3143	-965	QQW	1.6	-1	3.9	-2	0.9	-1	0.414	0	1.759	0	4.249	-2	1258	31	1.2
43264.6	10000	41.7214	93.3135	-965	QQW	1.7	-1	3.8	-2	0.9	-1	0.449	1	1.792	0	3.992	-2	1268	52	1.1
43264.7	10000	41.7214	93.3127	-967	QQW	1.9	0	4.1	-2	0.9	-1	0.468	1	2.011	0	4.300	-1	1297	50	1.1
43264.8	10000	41.7214	93.3119	-968	QQW	1.8	0	4.2	-2	0.9	-1	0.434	1	1.936	0	4.464	-1	1311	36	1.1
43264.9	10000	41.7214	93.3111	-969	QQW	1.8	0	4.3	-2	0.9	-1	0.424	1	1.942	0	4.582	-1	1319	59	1.1
43265.0	10000	41.7214	93.3103	-969	QQW	1.9	0	4.7	-1	0.9	-1	0.395	0	2.023	0	5.119	0	1323	63	1.1
43265.1	10000	41.7214	93.3094	-971	QQW	1.7	-1	4.7	-1	0.9	-1	0.369	0	1.905	0	5.159	0	1311	48	1.1
43265.2	10000	41.7214	93.3086	-972	QQW	1.9	0	4.7	-1	0.9	-2	0.398	0	2.141	0	5.381	0	1299	48	1.1
43265.3	10000	41.7214	93.3078	-972	QQW	1.7	-1	4.8	-1	0.9	-1	0.347	0	1.845	0	5.312	0	1278	47	1.1
43265.4	10000	41.7214	93.3070	-973	QQW	1.5	-1	4.2	-2	0.9	-1	0.353	0	1.607	-1	4.558	-1	1247	48	1.1
43265.5	10000	41.7214	93.3062	-974	QQW	1.3	-2	3.9	-2	0.9	-1	0.341	0	1.452	-1	4.261	-2	1233	47	1.1
43265.6	10000	41.7214	93.3054	-976	QQW	1.3	-2	3.9	-2	0.9	-1	0.326	0	1.360	-1	4.170	-2	1230	33	1.1
43265.7	10000	41.7214	93.3046	-977	QQW	1.3	-2	3.8	-2	1.0	-1	0.335	0	1.333	-1	3.982	-2	1240	48	1.1
43265.8	10000	41.7214	93.3037	-979	QQW	1.1	-2	3.9	-2	1.0	-1	0.290	-1	1.154	-2	3.979	-2	1253	53	1.1
43265.9	10000	41.7214	93.3029	-980	QQW	1.2	-2	3.9	-2	1.0	0	0.298	-1	1.120	-2	3.759	-2	1266	46	1.1
43266.0	10000	41.7214	93.3021	-981	QQW	1.2	-2	3.7	-3	1.0	-1	0.333	0	1.217	-1	3.658	-2	1271	45	1.1
43266.1	10000	41.7214	93.3013	-983	QQW	1.0	-2	4.0	-2	1.0	-1	0.255	-1	1.026	-2	4.022	-2	1272	48	1.0
43266.2	10000	41.7214	93.3005	-984	QQW	1.2	-2	4.0	-2	1.0	0	0.289	-1	1.157	-2	4.001	-2	1258	44	1.0
43266.3	10000	41.7214	93.2996	-985	QQW	1.4	-1	4.0	-2	1.0	-1	0.360	0	1.479	-1	4.107	-2	1255	39	1.0
43266.4	10000	41.7214	93.2988	-984	QQW	1.5	-1	3.5	-3	0.9	-1	0.417	0	1.546	-1	3.709	-2	1231	46	1.0
43266.5	10000	41.7214	93.2980	-984	QQW	1.6	-1	3.2	-3	1.0	-1	0.488	1	1.644	-1	3.368	-3	1208	48	1.0
43266.6	10000	41.7214	93.2972	-985	QQW	1.6	-1	3.4	-3	0.9	-1	0.460	0	1.697	0	3.689	-2	1185	40	1.0
43266.7	10000	41.7214	93.2964	-988	QQW	1.4	-1	3.4	-3	0.9	-1	0.409	0	1.515	-1	3.702	-2	1178	38	1.0
43266.8	10000	41.7215	93.2955	-989	QQW	1.6	-1	3.7	-3	0.9	-1	0.447	1	1.746	0	3.904	-2	1179	39	1.0
43266.9	10000	41.7215	93.2947	-990	QQL	1.6	-2	3.5	-6	0.9	-3	0.460	1	1.759	-1	3.825	-4	1190	46	1.0
43267.0	10000	41.7215	93.2939	-992	QQL	1.5	-2	3.7	-5	0.9	-2	0.393	1	1.544	-2	3.928	-4	1186	51	1.0
43267.1	10000	41.7215	93.2931	-994	QQL	1.5	-2	4.2	-5	0.9	-2	0.358	0	1.606	-1	4.488	-3	1213	53	1.0
43267.2	10000	41.7215	93.2923	-995	QQL	1.7	-2	5.0	-3	1.0	-2	0.334	0	1.750	-1	5.241	-2	1268	34	1.0
43267.3	10000	41.7215	93.2915	-996	QQL	1.7	-2	5.2	-3	1.0	-2	0.321	-1	1.650	-1	5.132	-2	1328	44	1.0
43267.4	10000	41.7215	93.2906	-996	QQL	2.0	-1	5.2	-3	1.0	-2	0.385	0	1.992	-1	5.181	-2	1383	47	1.0
43267.5	10000	41.7215	93.2898	-997	QQL	2.1	-1	5.5	-2	1.0	-1	0.375	0	2.051	0	5.476	-1	1458	49	1.0
43267.6	10000	41.7215	93.2890	-994	QQL	2.3	-1	6.2	-2	1.1	-1	0.363	0	2.157	0	5.937	0	1531	47	1.0
43267.7	10000	41.7215	93.2882	-991	QQL	2.5	0	6.7	-1	1.1	-1	0.373	0	2.352	0	6.298	0	1619	39	1.0
43267.8	10000	41.7215	93.2874	-994	QQL	2.5	0	7.0	-1	1.1	-1	0.352	0	2.185	0	6.211	0	1681	47	1.0
43267.9	10000	41.7215	93.2866	-999	QQL	2.5	0	6.7	-1	1.1	-1	0.375	0	2.239	0	5.973	0	1716	52	0.9
43268.0	10000	41.7215	93.2858	-1002	QQL	2.5	0	6.7	-1	1.1	-1	0.367	0	2.247	0	6.122	0	1744	38	0.9
43268.1	10000	41.7215	93.2850	-1003	QQL	2.4	-1	7.3	0	1.1	-1	0.321	-1	2.115	0	6.579	1	1776	60	0.9
43268.2	10000	41.7215	93.2842	-1004	QQL	2.4	-1	7.3	0	1.1	-1	0.323	-1	2.108	0	6.530	1	1767	46	0.9

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43268.3	10000	41.7215	93.2834	-1005	QL	2.4	0	7.0	0	1.1	-1	0.342	0	2.130	0	6.221	0	1761	53	0.9
43268.4	10000	41.7215	93.2826	-1007	QL	2.4	0	6.7	-1	1.1	-1	0.359	0	2.159	0	6.012	0	1747	52	0.9
43268.5	10000	41.7215	93.2818	-1008	QL	2.4	0	6.7	-1	1.1	-1	0.365	0	2.244	0	6.152	0	1726	42	0.9
43268.6	10000	41.7215	93.2810	-1008	QL	2.7	0	6.7	-1	1.1	-1	0.398	1	2.507	1	6.304	0	1728	47	0.9
43268.7	10000	41.7215	93.2802	-1008	QL	2.9	1	6.7	-1	1.1	-1	0.431	1	2.735	1	6.352	0	1714	43	0.9
43268.8	10000	41.7215	93.2794	-1009	QL	3.0	1	6.7	-1	1.1	-1	0.450	1	2.789	1	6.198	0	1701	44	0.9
43268.9	10000	41.7215	93.2786	-1009	QL	3.0	1	6.7	-1	1.1	-1	0.453	1	2.744	1	6.056	0	1723	31	0.9
43269.0	10000	41.7215	93.2778	-1010	QL	3.1	1	7.2	0	1.1	0	0.437	1	2.766	1	6.326	0	1736	53	0.9
43269.1	10000	41.7215	93.2770	-1011	QL	3.2	1	7.3	0	1.1	-1	0.442	1	3.009	2	6.811	1	1736	62	0.9
43269.2	10000	41.7215	93.2762	-1011	QL	3.2	1	7.4	0	1.1	-1	0.424	1	2.867	2	6.757	1	1756	44	0.9
43269.3	10000	41.7215	93.2754	-1012	QL	3.0	1	7.7	1	1.1	-1	0.386	0	2.652	1	6.870	1	1765	46	0.9
43269.4	10000	41.7216	93.2746	-1012	QL	2.9	1	7.8	1	1.2	0	0.369	0	2.470	1	6.696	1	1735	43	0.9
43269.5	10000	41.7216	93.2738	-1012	QL	2.7	0	7.7	1	1.2	0	0.353	0	2.309	1	6.541	1	1797	50	0.9
43269.6	10000	41.7216	93.2731	-1014	QL	2.8	0	7.8	1	1.2	0	0.359	0	2.325	0	6.484	0	1795	42	0.9
43269.7	10000	41.7216	93.2723	-1013	QL	2.5	0	7.9	1	1.2	0	0.317	-1	2.136	0	6.735	1	1774	39	0.9
43269.8	10000	41.7216	93.2715	-1012	QL	2.5	0	7.6	1	1.2	1	0.322	-1	1.983	-1	6.150	0	1765	53	0.9
43269.9	10000	41.7216	93.2707	-1014	QL	2.8	1	7.6	1	1.2	1	0.372	0	2.310	0	6.206	0	1753	49	0.9
43270.0	10000	41.7216	93.2699	-1015	QL	2.9	1	7.3	0	1.2	0	0.401	1	2.392	0	5.968	0	1736	51	0.9
43270.1	10000	41.7216	93.2691	-1015	QL	2.9	1	7.3	0	1.2	0	0.394	1	2.371	0	6.021	0	1739	42	0.9
43270.2	10000	41.7216	93.2683	-1015	QL	3.0	1	7.3	0	1.2	0	0.409	1	2.517	1	6.158	0	1748	46	0.9
43270.3	10000	41.7216	93.2675	-1016	QL	3.1	1	7.0	0	1.1	0	0.450	1	2.746	1	6.101	0	1757	41	0.9
43270.4	10000	41.7216	93.2667	-1016	QL	3.5	2	6.7	-1	1.1	1	0.524	2	3.072	2	5.860	-1	1785	51	0.9
43270.5	10000	41.7216	93.2659	-1018	QL	3.5	2	6.7	-1	1.1	1	0.522	2	3.075	2	5.891	-1	1807	51	0.9
43270.6	10000	41.7216	93.2651	-1019	QL	3.4	2	6.7	-1	1.1	1	0.515	2	3.003	2	5.835	-1	1830	41	0.9
43270.7	10000	41.7216	93.2643	-1017	QL	3.4	2	7.0	0	1.1	0	0.488	2	3.006	2	6.160	0	1838	31	0.9
43270.8	10000	41.7216	93.2635	-1019	QL	3.5	2	7.3	0	1.1	-1	0.485	2	3.165	2	6.524	1	1839	61	0.9
43270.9	10000	41.7216	93.2627	-1021	QL	3.6	2	7.2	0	1.1	0	0.499	2	3.127	2	6.269	0	1831	53	0.9
43271.0	10000	41.7216	93.2619	-1021	QL	3.4	2	7.5	0	1.2	0	0.453	1	2.892	2	6.376	0	1810	55	0.9
43271.1	10000	41.7216	93.2611	-1021	QL	3.2	2	7.5	0	1.2	0	0.430	1	2.665	2	6.193	0	1793	55	0.9
43271.2	10000	41.7216	93.2603	-1020	QL	3.0	1	7.4	0	1.2	0	0.404	1	2.400	2	5.943	0	1787	46	0.9
43271.3	10000	41.7216	93.2595	-1019	QL	2.8	1	7.3	0	1.2	0	0.379	1	2.248	2	5.927	0	1760	39	0.9
43271.4	10000	41.7217	93.2587	-1018	QL	2.7	1	7.1	0	1.3	0	0.379	1	2.151	2	5.674	-1	1754	54	0.9
43271.5	10000	41.7217	93.2579	-1020	QL	2.6	1	6.9	-1	1.3	0	0.374	1	2.015	1	5.393	-1	1745	37	0.9
43271.6	10000	41.7217	93.2571	-1021	QL	2.5	1	6.8	-1	1.3	0	0.367	1	1.905	1	5.195	-2	1744	32	0.9
43271.7	10000	41.7217	93.2563	-1022	QL	2.4	1	6.9	-1	1.3	0	0.343	1	1.861	1	5.418	-1	1756	48	0.9
43271.8	10000	41.7217	93.2556	-1022	QL	2.6	1	6.6	-1	1.3	0	0.389	1	2.030	2	5.217	-2	1764	37	0.9
43271.9	10000	41.7217	93.2548	-1021	QL	2.7	1	6.6	-1	1.3	0	0.410	1	2.136	2	5.214	-2	1761	43	0.9
43272.0	10000	41.7217	93.2540	-1021	QL	2.8	1	6.6	-1	1.3	0	0.418	1	2.218	2	5.303	-1	1768	36	0.9
43272.1	10000	41.7217	93.2532	-1021	QL	2.9	1	6.6	-1	1.3	0	0.445	1	2.360	2	5.305	-1	1772	44	1.0
43272.2	10000	41.7217	93.2524	-1021	QL	3.0	1	6.8	-1	1.3	0	0.439	1	2.350	2	5.359	-1	1781	44	1.0
43272.3	10000	41.7217	93.2516	-1023	QL	2.8	1	6.9	-1	1.2	0	0.399	1	2.280	2	5.709	-1	1776	41	1.0
43272.4	10000	41.7217	93.2508	-1023	QL	2.8	1	7.0	0	1.2	0	0.406	1	2.289	2	5.642	-1	1778	44	1.0
43272.5	10000	41.7217	93.2500	-1024	QL	2.8	1	7.3	0	1.2	0	0.376	1	2.198	2	5.841	-1	1775	54	1.0
43272.6	10000	41.7217	93.2492	-1024	QL	2.7	1	7.5	0	1.2	0	0.356	1	2.170	2	6.092	0	1777	52	1.0
43272.7	10000	41.7217	93.2484	-1024	QL	2.7	1	7.6	0	1.2	0	0.352	1	2.147	2	6.100	0	1779	46	1.0
43272.8	10000	41.7217	93.2476	-1024	QL	2.5	1	7.7	0	1.2	0	0.322	-1	1.955	-1	6.066	0	1780	52	1.0
43272.9	10000	41.7217	93.2468	-1023	QL	2.5	1	7.5	0	1.2	0	0.311	-1	1.936	-1	6.218	0	1765	56	1.0
43273.0	10000	41.7217	93.2460	-1023	QL	2.5	1	7.5	0	1.2	0	0.339	1	2.110	2	6.228	0	1758	33	1.0
43273.1	10000	41.7217	93.2452	-1022	QL	2.6	1	7.4	0	1.2	0	0.354	1	2.163	2	6.116	0	1763	51	1.0
43273.2	10000	41.7217	93.2444	-1022	QL	2.5	1	7.4	0	1.2	0	0.340	1	2.107	2	6.203	0	1766	44	1.0
43273.3	10000	41.7217	93.2436	-1021	QL	2.6	1	7.4	0	1.2	0	0.351	1	2.196	2	6.253	0	1767	54	1.0
43273.4	10000	41.7217	93.2428	-1021	QL	2.5	0	7.0	0	1.2	1	0.356	0	2.025	0	5.694	-1	1763	49	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43273.5	10000	41.7218	93.2420	-1021	QL	2.3	-1	7.0	0	1.2	0	0.333	0	1.930	-1	5.800	-1	1772	46	1.0
43273.6	10000	41.7218	93.2412	-1022	QL	2.3	-1	7.3	0	1.3	1	0.308	-1	1.776	-1	5.771	-1	1772	52	1.0
43273.7	10000	41.7218	93.2404	-1023	QL	2.0	-1	7.6	0	1.3	1	0.271	-1	1.569	-1	5.792	-1	1773	52	1.0
43273.8	10000	41.7218	93.2396	-1022	QL	2.0	-1	7.2	0	1.2	1	0.272	-1	1.584	-1	5.829	-1	1763	49	1.0
43273.9	10000	41.7218	93.2388	-1021	QL	2.0	-1	7.2	0	1.2	1	0.270	-1	1.580	-1	5.859	-1	1753	51	1.0
43274.0	10000	41.7218	93.2381	-1021	QL	1.7	-2	7.4	0	1.3	1	0.233	-2	1.355	-2	5.815	-1	1753	48	1.1
43274.1	10000	41.7218	93.2373	-1020	QL	1.6	-2	7.7	0	1.2	1	0.211	-2	1.310	-2	6.218	0	1768	42	1.1
43274.2	10000	41.7218	93.2365	-1021	QL	1.7	-2	7.6	0	1.2	1	0.227	-2	1.407	-2	6.206	0	1760	46	1.1
43274.3	10000	41.7218	93.2357	-1021	QL	2.0	-1	7.4	0	1.2	1	0.276	-1	1.662	-1	6.012	0	1760	62	1.1
43274.4	10000	41.7218	93.2349	-1021	QL	2.2	-1	7.2	0	1.2	0	0.304	-1	1.852	-1	6.089	0	1768	37	1.1
43274.5	10000	41.7218	93.2341	-1020	QL	2.2	-1	7.0	0	1.2	1	0.312	-1	1.764	-1	5.660	-1	1753	52	1.1
43274.6	10000	41.7218	93.2333	-1019	QL	2.1	-1	6.9	-1	1.2	1	0.309	-1	1.752	-1	5.668	-1	1741	52	1.1
43274.7	10000	41.7218	93.2325	-1017	QL	2.1	-1	6.9	-1	1.2	0	0.308	-1	1.826	-1	5.918	0	1715	44	1.1
43274.8	10000	41.7218	93.2317	-1012	QL	2.2	-1	7.0	0	1.2	0	0.319	-1	1.899	-1	5.950	0	1707	43	1.1
43274.9	10000	41.7218	93.2309	-1006	QL	2.2	-1	7.0	0	1.2	0	0.316	-1	1.882	-1	5.953	0	1708	48	1.1
43275.0	10000	41.7218	93.2301	-1011	QL	2.2	-1	7.1	0	1.2	0	0.303	-1	1.850	-1	6.100	0	1732	41	1.1
43275.1	10000	41.7218	93.2293	-1016	QL	2.2	-1	7.1	0	1.2	0	0.313	-1	1.827	-1	5.843	-1	1738	46	1.1
43275.2	10000	41.7218	93.2285	-1017	QL	2.3	-1	7.5	0	1.2	1	0.301	-1	1.838	-1	6.105	0	1763	54	1.1
43275.3	10000	41.7218	93.2277	-1017	QL	2.2	-1	7.8	1	1.3	1	0.286	-1	1.755	-1	6.142	0	1780	55	1.1
43275.4	10000	41.7218	93.2269	-1017	QL	2.6	0	8.0	1	1.3	1	0.321	-1	1.952	-1	6.080	0	1836	45	1.1
43275.5	10000	41.7218	93.2261	-1016	QL	2.7	0	7.9	1	1.3	1	0.346	0	2.153	0	6.214	0	1839	43	1.1
43275.6	10000	41.7218	93.2253	-1016	QL	2.5	0	8.0	1	1.3	1	0.307	-1	1.922	-1	6.262	0	1842	50	1.1
43275.7	10000	41.7219	93.2245	-1016	QL	2.5	0	7.6	1	1.3	1	0.332	0	1.932	-1	5.816	-1	1835	52	1.1
43275.8	10000	41.7219	93.2237	-1015	QAL	2.5	0	7.5	1	1.3	1	0.341	0	1.975	-1	5.792	0	1842	48	1.1
43275.9	10000	41.7219	93.2229	-1015	QAL	2.6	0	7.3	1	1.3	2	0.349	0	1.961	-1	5.615	-1	1839	57	1.1
43276.0	10000	41.7219	93.2221	-1015	QAL	2.6	0	7.1	1	1.3	2	0.365	0	1.988	-1	5.448	-1	1838	39	1.1
43276.1	10000	41.7219	93.2213	-1014	QAL	2.3	0	6.8	1	1.3	1	0.334	-1	1.759	-1	5.270	-1	1795	39	1.1
43276.2	10000	41.7219	93.2206	-1014	QAL	1.9	-1	6.7	0	1.3	2	0.290	-1	1.490	-1	5.138	-1	1759	61	1.1
43276.3	10000	41.7219	93.2198	-1013	QAL	2.2	-1	6.6	0	1.2	1	0.327	-1	1.740	-1	5.322	-1	1720	55	1.1
43276.4	10000	41.7219	93.2190	-1014	QAL	2.0	-1	6.7	0	1.2	1	0.304	-1	1.712	-1	5.633	-1	1686	51	1.1
43276.5	10000	41.7219	93.2182	-1013	QAL	2.0	-1	6.7	0	1.1	1	0.296	-1	1.721	-1	5.810	0	1639	62	1.1
43276.6	10000	41.7219	93.2174	-1012	QAL	2.0	-1	6.7	0	1.1	0	0.295	-1	1.803	-1	6.109	0	1610	45	1.2
43276.7	10000	41.7219	93.2166	-1012	QAL	2.1	-1	6.4	0	1.0	0	0.322	-1	1.980	-1	6.150	0	1583	57	1.2
43276.8	10000	41.7219	93.2158	-1012	QAL	2.1	-1	6.3	0	1.0	-1	0.336	-1	2.148	0	6.398	0	1556	43	1.2
43276.9	10000	41.7219	93.2150	-1011	QAL	2.1	-1	6.3	0	1.0	-1	0.331	-1	2.115	0	6.393	0	1539	49	1.2
43277.0	10000	41.7219	93.2142	-1011	QAL	2.0	-1	5.7	-1	1.0	-1	0.355	0	2.087	0	5.884	0	1523	37	1.2
43277.1	10000	41.7219	93.2134	-1011	QAL	2.0	-1	6.0	-1	1.0	-1	0.325	-1	2.015	-1	6.201	0	1498	32	1.2
43277.2	10000	41.7219	93.2126	-1010	QAL	2.0	-1	6.0	0	0.9	-1	0.329	-1	2.124	0	6.461	0	1474	44	1.2
43277.3	10000	41.7219	93.2118	-1010	QAL	1.8	-1	5.7	-1	1.0	-1	0.316	-1	1.881	-1	5.953	0	1456	41	1.2
43277.4	10000	41.7219	93.2110	-1010	QAL	1.6	-2	6.0	-1	1.0	0	0.268	-1	1.580	-1	5.900	0	1438	49	1.2
43277.5	10000	41.7219	93.2102	-1010	QAL	1.6	-1	6.0	-1	1.0	0	0.272	-1	1.592	-1	5.856	0	1414	47	1.2
43277.6	10000	41.7219	93.2094	-1010	QAL	1.7	-1	6.2	0	1.0	0	0.272	-1	1.686	-1	6.195	0	1417	52	1.2
43277.7	10000	41.7219	93.2086	-1010	QAL	1.5	-2	6.2	0	1.0	0	0.248	-2	1.493	-1	6.027	0	1422	56	1.2
43277.8	10000	41.7219	93.2078	-1010	QAL	1.7	-1	6.1	0	1.1	0	0.276	-1	1.599	-1	5.793	0	1441	39	1.2
43277.9	10000	41.7219	93.2070	-1010	QAL	1.7	-1	6.3	0	1.1	0	0.271	-1	1.530	-1	5.639	-1	1476	49	1.2
43278.0	10000	41.7220	93.2062	-1010	QAL	1.9	-1	6.4	0	1.1	0	0.300	-1	1.706	-1	5.693	-1	1499	47	1.2
43278.1	10000	41.7220	93.2054	-1010	QAL	2.1	-1	6.3	0	1.1	0	0.341	0	1.987	-1	5.835	0	1523	48	1.2
43278.2	10000	41.7220	93.2047	-1010	QAL	2.1	-1	6.1	0	1.1	0	0.352	0	2.027	-1	5.756	0	1565	35	1.2
43278.3	10000	41.7220	93.2038	-1011	QAL	2.3	0	5.9	-1	1.1	0	0.393	0	2.214	0	5.633	-1	1581	57	1.2
43278.4	10000	41.7220	93.2030	-1011	QAL	2.5	0	6.5	0	1.1	0	0.387	0	2.383	0	6.162	0	1603	48	1.1
43278.5	10000	41.7220	93.2023	-1011	QAL	2.5	0	6.8	0	1.1	0	0.375	0	2.367	0	6.314	0	1626	43	1.1
43278.6	10000	41.7220	93.2015	-1011	QAL	2.5	0	6.8	0	1.0	0	0.365	0	2.383	0	6.521	1	1631	52	1.1

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43278.7	10000	41.7220	93.2007	-1011	QAL	2.5	0	7.0	0	1.0	0	0.358	0	2.453	0	6.848	1	1624	45	1.1
43278.8	10000	41.7220	93.1999	-1012	QAL	2.5	0	6.9	0	1.0	0	0.359	0	2.478	0	6.896	1	1623	41	1.1
43278.9	10000	41.7220	93.1991	-1012	QAL	2.6	0	6.9	0	1.0	0	0.371	0	2.496	0	6.727	1	1613	41	1.1
43279.0	10000	41.7220	93.1983	-1013	QAL	2.5	0	7.0	0	1.0	0	0.360	0	2.424	0	6.733	1	1614	45	1.1
43279.1	10000	41.7220	93.1975	-1013	QAL	2.5	0	6.3	0	1.0	0	0.396	0	2.474	0	6.255	0	1583	49	1.1
43279.2	10000	41.7220	93.1967	-1013	QAL	2.4	0	6.1	0	1.0	-1	0.386	0	2.368	0	6.136	0	1546	50	1.1
43279.3	10000	41.7220	93.1959	-1014	QAL	2.3	0	5.7	-1	1.0	0	0.401	0	2.225	0	5.544	-1	1515	50	1.1
43279.4	10000	41.7220	93.1951	-1014	QAL	2.2	0	5.6	-1	1.0	0	0.387	0	2.154	0	5.568	-1	1474	49	1.1
43279.5	10000	41.7220	93.1943	-1015	QAL	2.0	-1	5.4	-1	1.0	0	0.362	0	1.942	-1	5.360	-1	1418	41	1.1
43279.6	10000	41.7220	93.1935	-1015	QAL	1.6	-2	5.2	-1	1.0	-1	0.309	-1	1.608	-1	5.210	-1	1352	53	1.1
43279.7	10000	41.7220	93.1927	-1015	QAL	1.6	-2	4.8	-2	0.9	-1	0.331	-1	1.695	-1	5.119	-1	1297	37	1.1
43279.8	10000	41.7220	93.1919	-1017	QL	1.6	-2	4.7	-2	0.9	-2	0.338	0	1.666	-1	4.928	-2	1257	49	1.1
43279.9	10000	41.7220	93.1911	-1017	QL	1.7	-2	4.4	-4	0.9	-3	0.382	0	1.831	-1	4.787	-2	1222	40	1.1
43280.0	10000	41.7220	93.1903	-1017	QL	1.6	-2	4.4	-4	0.9	-3	0.353	0	1.821	-1	5.156	-2	1185	51	1.1
43280.1	10000	41.7220	93.1895	-1018	QL	1.4	-3	4.1	-5	0.9	-3	0.332	0	1.561	-2	4.708	-2	1184	65	1.1
43280.2	10000	41.7220	93.1887	-1019	QL	1.4	-3	4.1	-5	0.9	-3	0.332	0	1.579	-1	4.758	-2	1193	44	1.1
43280.3	10000	41.7220	93.1879	-1019	QL	1.6	-2	4.2	-5	0.9	-3	0.378	0	1.883	-1	4.983	-2	1241	47	1.1
43280.4	10000	41.7221	93.1871	-1019	QL	1.5	-2	4.4	-5	0.9	-3	0.352	0	1.641	-1	4.666	-3	1302	41	1.1
43280.5	10000	41.7221	93.1863	-1020	QL	1.6	-2	5.0	-3	1.0	-2	0.325	0	1.708	-1	5.253	-2	1385	47	1.0
43280.6	10000	41.7221	93.1855	-1021	QL	1.7	-2	5.4	-3	1.0	-2	0.315	-1	1.706	-1	5.412	-1	1470	46	1.0
43280.7	10000	41.7221	93.1848	-1022	QL	2.0	-1	5.8	-2	1.1	-1	0.339	0	1.828	-1	5.389	-1	1561	40	1.0
43280.8	10000	41.7221	93.1840	-1023	QL	2.4	0	6.4	-1	1.1	-1	0.379	0	2.252	0	5.942	0	1630	42	1.0
43280.9	10000	41.7221	93.1832	-1024	QL	2.6	0	6.9	-1	1.1	0	0.372	0	2.250	0	6.042	0	1700	46	1.0
43281.0	10000	41.7221	93.1824	-1025	QL	2.6	0	7.2	0	1.2	1	0.368	0	2.117	0	5.750	-1	1753	32	1.0
43281.1	10000	41.7221	93.1816	-1025	QL	2.9	1	7.5	0	1.2	1	0.389	0	2.322	0	5.973	0	1781	46	1.0
43281.2	10000	41.7221	93.1808	-1026	QL	2.7	0	7.4	0	1.2	1	0.364	0	2.165	0	5.943	0	1788	37	1.0
43281.3	10000	41.7221	93.1800	-1026	QL	2.6	0	7.4	0	1.2	1	0.346	0	2.000	-1	5.779	-1	1789	55	1.0
43281.4	10000	41.7221	93.1792	-1027	QL	2.3	0	7.2	0	1.2	1	0.324	0	1.937	-1	5.771	-1	1789	33	1.0
43281.5	10000	41.7221	93.1784	-1029	QL	2.3	0	7.1	0	1.2	1	0.332	0	1.744	-1	5.379	-1	1783	55	1.0
43281.6	10000	41.7221	93.1776	-1030	QL	2.4	0	7.2	0	1.2	1	0.368	0	1.795	-1	5.405	-1	1793	39	1.0
43281.7	10000	41.7221	93.1768	-1030	QL	2.7	0	7.3	0	1.2	1	0.370	0	2.166	-1	5.888	-1	1793	35	1.0
43281.8	10000	41.7221	93.1760	-1030	QL	2.7	0	7.3	0	1.2	1	0.395	0	2.203	0	5.946	0	1805	39	1.0
43281.9	10000	41.7221	93.1752	-1032	QL	2.9	1	7.4	0	1.2	1	0.429	0	2.368	0	5.998	0	1796	56	1.0
43282.0	10000	41.7221	93.1744	-1033	QL	3.1	1	7.3	0	1.2	1	0.450	0	2.677	0	6.239	0	1790	39	1.0
43282.1	10000	41.7221	93.1736	-1032	QL	3.4	1	7.4	0	1.2	1	0.452	0	2.871	0	6.383	0	1786	51	1.0
43282.2	10000	41.7221	93.1728	-1032	QL	3.3	1	7.5	0	1.2	1	0.465	0	2.917	0	6.459	0	1791	49	1.0
43282.3	10000	41.7221	93.1720	-1034	QL	3.2	1	7.1	0	1.2	1	0.428	0	2.820	0	6.064	0	1783	52	0.9
43282.4	10000	41.7221	93.1712	-1035	QL	3.2	1	7.4	0	1.2	1	0.432	0	2.567	0	6.003	0	1784	41	0.9
43282.5	10000	41.7221	93.1704	-1036	QL	3.2	1	7.4	0	1.2	1	0.458	0	2.651	0	6.137	0	1773	32	0.9
43282.6	10000	41.7221	93.1696	-1037	QL	3.2	1	7.1	0	1.2	1	0.435	0	2.696	0	5.892	0	1793	40	0.9
43282.7	10000	41.7221	93.1689	-1037	QL	3.2	1	7.2	0	1.2	1	0.423	0	2.582	0	5.939	0	1801	45	0.9
43282.8	10000	41.7221	93.1680	-1038	QL	3.3	1	7.3	0	1.2	1	0.415	0	2.541	0	6.014	0	1824	55	0.9
43282.9	10000	41.7222	93.1673	-1038	QL	3.0	1	7.6	0	1.2	1	0.400	0	2.411	0	5.813	0	1837	58	0.9
43283.0	10000	41.7222	93.1665	-1039	QL	3.1	1	7.3	0	1.2	1	0.425	0	2.456	0	6.142	0	1843	49	0.9
43283.1	10000	41.7222	93.1657	-1039	QL	3.1	1	7.6	0	1.2	1	0.382	0	2.561	0	6.020	0	1838	46	0.9
43283.2	10000	41.7222	93.1649	-1039	QL	3.7	1	8.1	0	1.2	1	0.330	0	2.412	0	6.317	0	1837	50	0.9
43283.3	10000	41.7222	93.1641	-1040	QL	3.6	1	8.0	0	1.2	1	0.318	0	2.246	0	6.813	0	1827	45	0.9
43283.4	10000	41.7222	93.1633	-1042	QL	3.4	1	7.6	0	1.2	1	0.298	0	2.121	0	6.661	0	1828	48	0.9
43283.5	10000	41.7222	93.1625	-1043	QL	3.6	1	7.6	0	1.2	1	0.300	0	2.039	0	6.849	0	1809	52	0.9
43283.6	10000	41.7222	93.1617	-1044	QL	3.6	1	7.6	0	1.2	1	0.316	0	2.198	0	7.321	0	1806	47	0.9
43283.7	10000	41.7222	93.1609	-1045	QAL	3.4	1	8.0	0	1.2	1	0.290	-1	2.272	0	7.845	0	1792	35	0.9
43283.8	10000	41.7222	93.1601	-1046	QAL	2.4	0	6.3	-1	1.1	-1	0.337	0	2.337	0	7.402	0	1773	43	0.9

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43283.9	10000	41.7222	93.1593	-1046	QAL	2.6	0	7.8	1	1.1	0	0.327	-1	2.310	0	7.069	1	1763	47	0.9
43284.0	10000	41.7222	93.1585	-1046	QAL	2.7	0	7.5	1	1.1	0	0.361	0	2.425	0	6.714	1	1749	43	0.9
43284.1	10000	41.7222	93.1577	-1047	QAL	2.4	0	7.5	1	1.1	0	0.326	-1	2.235	0	6.853	1	1722	39	0.9
43284.2	10000	41.7222	93.1569	-1048	QAL	2.5	0	7.5	1	1.1	0	0.338	0	2.278	0	6.746	1	1727	42	0.9
43284.3	10000	41.7222	93.1561	-1048	QL	2.6	0	7.0	0	1.1	-1	0.366	0	2.386	0	6.526	1	1709	44	0.9
43284.4	10000	41.7222	93.1553	-1047	QL	2.3	-1	7.2	0	1.1	-1	0.320	-1	2.143	0	6.702	1	1706	53	0.9
43284.5	10000	41.7222	93.1545	-1048	QL	2.3	-1	7.4	0	1.1	-1	0.306	-1	2.014	0	6.588	1	1710	44	0.9
43284.6	10000	41.7222	93.1537	-1049	QL	2.1	-1	7.6	1	1.1	-1	0.276	-1	1.902	-1	6.891	1	1709	35	0.9
43284.7	10000	41.7222	93.1529	-1049	QL	2.2	-1	7.3	0	1.1	0	0.305	-1	1.940	-1	6.362	0	1719	35	0.9
43284.8	10000	41.7222	93.1521	-1048	QL	2.5	0	7.4	0	1.1	-1	0.330	0	2.196	0	6.652	1	1732	55	0.9
43284.9	10000	41.7222	93.1514	-1047	QL	2.1	-1	7.6	1	1.1	0	0.280	-1	1.890	-1	6.756	1	1722	50	0.9
43285.0	10000	41.7222	93.1506	-1047	QL	2.3	-1	7.4	0	1.2	0	0.304	-1	1.936	-1	6.368	0	1741	47	0.9
43285.1	10000	41.7222	93.1498	-1047	QL	2.5	0	7.4	0	1.2	0	0.336	0	2.105	0	6.258	0	1745	58	0.9
43285.2	10000	41.7222	93.1490	-1047	QL	2.6	0	7.3	0	1.2	0	0.355	0	2.175	0	6.122	0	1762	54	0.9
43285.3	10000	41.7222	93.1482	-1048	QL	2.5	0	7.1	0	1.2	0	0.351	0	2.136	0	6.086	0	1775	50	0.9
43285.4	10000	41.7222	93.1474	-1050	QL	2.5	0	7.5	0	1.2	0	0.331	0	2.102	0	6.349	0	1784	43	0.9
43285.5	10000	41.7222	93.1466	-1050	QL	2.3	-1	7.5	0	1.2	0	0.314	-1	1.941	-1	6.181	0	1800	42	0.9
43285.6	10000	41.7222	93.1458	-1050	QL	2.5	0	7.5	0	1.2	0	0.338	0	2.119	0	6.274	0	1818	35	0.9
43285.7	10000	41.7222	93.1451	-1050	QL	2.5	0	7.7	1	1.2	1	0.327	0	2.049	0	6.258	0	1831	45	0.9
43285.8	10000	41.7222	93.1443	-1051	QL	2.2	-1	7.6	1	1.3	1	0.293	-1	1.795	-1	6.136	0	1833	58	0.9
43285.9	10000	41.7222	93.1435	-1051	QL	2.3	-1	7.5	1	1.3	1	0.301	-1	1.727	-1	5.729	-1	1831	50	0.9
43286.0	10000	41.7222	93.1427	-1050	QL	2.4	0	7.5	1	1.3	1	0.315	-1	1.825	-1	5.793	-1	1823	51	0.9
43286.1	10000	41.7222	93.1419	-1051	QL	2.5	0	7.4	1	1.3	1	0.330	0	1.937	-1	5.866	-1	1807	60	0.9
43286.2	10000	41.7222	93.1411	-1051	QL	2.5	0	7.2	1	1.3	1	0.342	0	1.930	-1	5.640	-1	1792	46	0.9
43286.3	10000	41.7222	93.1403	-1051	QL	2.5	0	7.3	1	1.3	1	0.346	0	1.994	-1	5.766	-1	1782	47	0.9
43286.4	10000	41.7222	93.1395	-1052	QL	2.4	0	7.4	1	1.2	0	0.329	0	2.040	0	6.194	0	1762	54	0.9
43286.5	10000	41.7222	93.1388	-1053	QL	2.7	0	7.5	0	1.2	0	0.366	0	2.293	0	6.259	0	1770	47	0.9
43286.6	10000	41.7222	93.1380	-1053	QL	2.6	-1	7.5	0	1.1	-1	0.349	0	2.340	0	6.694	1	1761	54	0.9
43286.7	10000	41.7222	93.1372	-1052	QL	2.9	1	7.7	1	1.2	0	0.371	0	2.412	0	6.500	1	1763	42	0.9
43286.8	10000	41.7222	93.1364	-1052	QL	2.7	0	7.6	1	1.2	0	0.351	0	2.244	0	6.384	0	1763	44	0.9
43286.9	10000	41.7221	93.1356	-1052	QL	2.8	1	7.8	1	1.2	0	0.360	0	2.421	0	6.717	1	1762	51	0.9
43287.0	10000	41.7221	93.1348	-1052	QL	2.9	1	7.3	0	1.2	0	0.389	0	2.409	0	6.184	0	1738	43	1.0
43287.1	10000	41.7221	93.1340	-1053	QL	2.9	1	6.9	-1	1.2	-1	0.421	0	2.389	0	5.680	-1	1710	46	1.0
43287.2	10000	41.7221	93.1333	-1052	QL	3.0	1	6.7	-1	1.2	-1	0.449	0	2.523	1	5.613	-1	1681	35	1.0
43287.3	10000	41.7221	93.1325	-1053	QL	2.9	1	6.8	-1	1.1	-1	0.451	0	2.706	1	5.998	0	1660	49	1.0
43287.4	10000	41.7221	93.1317	-1054	QL	2.9	1	6.7	-1	1.0	-1	0.429	0	2.734	1	6.379	0	1647	54	1.0
43287.5	10000	41.7221	93.1309	-1055	QL	3.1	2	7.0	-1	1.0	-2	0.452	0	3.076	2	6.810	1	1655	58	1.0
43287.6	10000	41.7221	93.1301	-1054	QL	2.9	1	6.9	-1	1.0	-2	0.465	0	3.184	2	6.852	1	1656	46	1.0
43287.7	10000	41.7221	93.1293	-1053	QL	3.2	2	7.2	-1	1.0	-2	0.445	0	3.216	2	7.234	2	1686	39	1.0
43287.8	10000	41.7221	93.1285	-1053	QL	2.5	0	7.7	-1	1.1	-2	0.387	0	2.954	2	7.636	2	1721	47	1.0
43287.9	10000	41.7221	93.1277	-1053	QL	2.4	0	7.9	-1	1.2	-1	0.354	0	2.623	1	7.413	2	1751	54	1.0
43288.0	10000	41.7221	93.1270	-1053	QL	2.5	0	7.9	0	1.2	0	0.319	-1	2.166	0	6.789	1	1770	49	1.0
43288.1	10000	41.7221	93.1262	-1053	QL	2.4	0	8.0	0	1.2	0	0.299	-1	1.996	-1	6.675	1	1779	38	1.0
43288.2	10000	41.7221	93.1254	-1051	QL	2.3	-1	8.0	0	1.2	0	0.293	-1	1.980	-1	6.761	1	1783	45	1.0
43288.3	10000	41.7221	93.1246	-1050	QL	2.3	-1	8.1	0	1.2	0	0.277	-1	1.818	-1	6.553	1	1800	42	1.0
43288.4	10000	41.7221	93.1238	-1050	QL	2.4	0	8.1	0	1.2	0	0.289	-1	1.883	-1	6.527	1	1792	46	1.0
43288.5	10000	41.7221	93.1230	-1052	QL	2.4	0	8.1	0	1.2	0	0.297	-1	1.939	-1	6.530	1	1785	45	1.0
43288.6	10000	41.7221	93.1222	-1052	QL	2.2	-1	8.1	0	1.2	0	0.275	-1	1.894	-1	6.899	1	1780	57	1.0
43288.7	10000	41.7221	93.1214	-1052	QL	2.6	0	8.1	0	1.2	0	0.321	-1	2.283	0	7.114	2	1785	52	1.0
43288.8	10000	41.7221	93.1207	-1052	QL	2.8	0	8.1	0	1.2	0	0.341	0	2.588	0	6.701	1	1790	51	1.0
43288.9	10000	41.7221	93.1199	-1051	QL	2.6	0	8.0	0	1.2	0	0.330	0	2.168	0	6.560	1	1792	46	1.0
43289.0	10000	41.7221	93.1191	-1050	QL	2.8	0	7.5	0	1.2	0	0.373	0	2.354	0	6.313	0	1785	54	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43289.1	10000	41.7220	93.1183	-1049	QL	2.7	0	7.6	1	1.2	1	0.355	0	2.190	0	6.168	0	1782	54	1.0
43289.2	10000	41.7220	93.1175	-1048	QL	2.8	0	7.4	0	1.2	0	0.376	0	2.292	0	6.092	0	1780	40	1.0
43289.3	10000	41.7220	93.1167	-1049	QL	2.8	1	7.3	0	1.2	1	0.385	0	2.263	0	5.870	-1	1783	40	1.0
43289.4	10000	41.7220	93.1159	-1049	QL	2.5	0	6.9	-1	1.3	1	0.361	0	1.941	-1	5.370	-1	1789	49	1.0
43289.5	10000	41.7220	93.1152	-1048	QL	2.5	0	6.6	-1	1.3	1	0.374	0	1.954	-1	5.231	-2	1779	57	1.0
43289.6	10000	41.7220	93.1144	-1047	QL	2.6	0	6.4	-1	1.3	1	0.399	1	2.020	0	5.063	-2	1777	51	1.0
43289.7	10000	41.7220	93.1136	-1046	QL	2.7	0	6.4	-1	1.2	0	0.415	1	2.185	0	5.263	-2	1759	49	1.0
43289.8	10000	41.7220	93.1128	-1045	QL	2.8	0	6.3	-1	1.2	0	0.442	1	2.433	0	5.502	-1	1769	46	1.0
43289.9	10000	41.7220	93.1120	-1046	QL	2.8	0	6.8	-1	1.2	0	0.414	1	2.372	0	5.731	-1	1780	48	1.0
43290.0	10000	41.7220	93.1112	-1046	QL	3.0	1	6.8	-1	1.1	0	0.452	1	2.694	0	5.964	0	1779	27	1.1
43290.1	10000	41.7220	93.1104	-1046	QL	3.5	2	7.2	0	1.1	-1	0.484	2	3.161	2	6.538	1	1787	40	1.1
43290.2	10000	41.7220	93.1096	-1045	QL	3.4	2	7.5	0	1.1	-1	0.457	1	3.098	2	6.775	1	1803	56	1.1
43290.3	10000	41.7220	93.1089	-1044	QL	3.4	2	7.5	0	1.1	-1	0.460	1	3.123	2	6.783	1	1799	38	1.1
43290.4	10000	41.7220	93.1081	-1043	QL	3.2	1	7.6	1	1.1	0	0.423	1	2.834	1	6.706	1	1817	56	1.1
43290.5	10000	41.7220	93.1073	-1042	QL	3.0	1	7.6	0	1.1	0	0.402	1	2.646	1	6.582	1	1813	42	1.1
43290.6	10000	41.7220	93.1065	-1041	QL	3.2	1	7.1	0	1.2	0	0.457	1	2.719	1	5.953	0	1819	52	1.1
43290.7	10000	41.7220	93.1057	-1041	QL	3.0	1	7.1	0	1.2	1	0.421	1	2.400	1	5.695	-1	1818	50	1.1
43290.8	10000	41.7220	93.1049	-1040	QL	2.7	0	6.8	-1	1.3	1	0.404	1	2.159	0	5.345	-1	1816	38	1.1
43290.9	10000	41.7220	93.1041	-1040	QL	2.8	0	6.3	-1	1.3	1	0.445	1	2.237	0	5.033	-2	1804	38	1.1
43291.0	10000	41.7220	93.1033	-1038	QL	2.7	0	6.3	-2	1.3	1	0.424	1	2.108	0	4.969	-2	1800	49	1.1
43291.1	10000	41.7220	93.1026	-1036	QL	2.8	1	6.1	-2	1.2	1	0.464	2	2.311	0	4.977	-2	1775	45	1.1
43291.2	10000	41.7220	93.1018	-1034	QL	3.1	1	6.0	-2	1.3	1	0.514	2	2.423	0	4.717	-2	1773	67	1.1
43291.3	10000	41.7219	93.1010	-1032	QL	2.7	0	6.2	-2	1.2	0	0.443	1	2.246	0	5.067	-2	1753	41	1.1
43291.4	10000	41.7219	93.1002	-1033	QL	3.0	1	6.1	-2	1.2	0	0.489	2	2.573	1	5.262	-2	1748	39	1.1
43291.5	10000	41.7219	93.0994	-1034	QK	2.9	1	6.4	-1	1.1	0	0.459	1	2.612	1	5.686	-1	1729	53	1.1
43291.6	10000	41.7219	93.0986	-1035	QK	3.0	1	6.7	-2	1.1	0	0.424	1	2.815	1	6.641	0	1716	55	1.1
43291.7	10000	41.7219	93.0978	-1034	QK	2.9	1	6.6	-1	1.1	0	0.408	1	2.925	1	7.174	1	1725	33	1.1
43291.8	10000	41.7219	93.0971	-1033	QK	2.7	1	7.3	0	1.1	0	0.368	1	2.608	1	7.080	1	1745	45	1.1
43291.9	10000	41.7219	93.0963	-1032	QK	3.0	1	8.3	0	1.1	0	0.331	1	2.471	1	7.461	1	1754	45	1.1
43292.0	10000	41.7219	93.0955	-1031	QK	3.0	1	8.0	1	1.1	0	0.382	1	2.667	1	6.987	1	1767	44	1.1
43292.1	10000	41.7219	93.0947	-1030	QK	2.9	1	7.8	0	1.2	0	0.325	1	2.261	1	6.956	1	1778	30	1.1
43292.2	10000	41.7219	93.0939	-1029	QK	2.7	1	8.0	1	1.2	0	0.326	1	2.301	1	7.069	1	1804	35	1.1
43292.3	10000	41.7219	93.0931	-1029	QK	3.0	1	8.4	0	1.3	0	0.324	1	2.081	1	6.414	1	1827	52	1.1
43292.4	10000	41.7219	93.0923	-1028	QK	2.9	1	8.8	0	1.2	0	0.319	1	1.988	1	6.238	1	1837	36	1.1
43292.5	10000	41.7219	93.0916	-1027	QK	2.7	1	7.6	0	1.2	0	0.353	1	2.306	1	6.529	1	1826	47	1.1
43292.6	10000	41.7219	93.0908	-1026	QK	2.6	1	7.6	0	1.1	0	0.343	1	2.295	1	6.691	1	1820	49	1.1
43292.7	10000	41.7219	93.0900	-1024	QK	2.5	1	7.8	0	1.1	0	0.325	1	2.279	1	7.021	1	1812	54	1.1
43292.8	10000	41.7219	93.0892	-1022	QK	2.6	1	7.5	0	1.1	0	0.352	1	2.502	1	7.114	1	1788	46	1.1
43292.9	10000	41.7219	93.0884	-1021	QK	2.5	1	7.0	0	1.1	0	0.355	1	2.418	1	6.803	1	1741	48	1.1
43293.0	10000	41.7219	93.0876	-1020	QK	2.4	1	7.3	0	1.1	0	0.331	1	2.412	1	7.275	1	1726	53	1.1
43293.1	10000	41.7219	93.0868	-1021	QK	2.3	1	6.9	0	1.1	0	0.338	1	2.260	1	6.682	1	1705	54	1.1
43293.2	10000	41.7219	93.0860	-1020	QK	2.2	1	6.8	0	1.1	0	0.310	1	1.953	1	6.305	1	1701	43	1.1
43293.3	10000	41.7219	93.0853	-1019	QK	2.1	0	6.6	-1	1.1	0	0.334	1	2.011	1	6.026	1	1678	48	1.1
43293.4	10000	41.7219	93.0845	-1018	QK	2.0	0	6.5	-1	1.1	0	0.321	1	1.952	1	6.073	1	1666	47	1.1
43293.5	10000	41.7218	93.0837	-1018	QAL	2.2	1	6.2	-1	1.1	0	0.321	1	1.735	1	5.398	1	1657	49	1.2
43293.6	10000	41.7218	93.0829	-1017	QAL	2.1	1	6.1	-1	1.1	0	0.358	1	1.886	1	5.271	1	1666	44	1.2
43293.7	10000	41.7218	93.0821	-1016	QAL	2.1	1	6.2	-1	1.1	0	0.352	1	1.870	1	5.312	1	1660	45	1.2
43293.8	10000	41.7218	93.0813	-1016	QAL	2.4	1	6.2	-1	1.1	0	0.393	1	2.236	1	5.685	1	1636	43	1.2
43293.9	10000	41.7218	93.0805	-1016	QAL	2.5	1	6.3	-1	1.1	0	0.414	1	2.334	1	5.641	1	1629	47	1.2
43294.0	10000	41.7218	93.0797	-1014	QK	2.3	1	6.4	-1	1.1	0	0.369	1	2.196	1	5.944	1	1618	54	1.2
43294.1	10000	41.7218	93.0790	-1014	QK	2.4	1	6.4	-1	1.1	0	0.374	1	2.241	1	5.986	1	1615	53	1.2
43294.2	10000	41.7218	93.0782	-1013	QK	2.6	1	6.8	-1	1.0	-1	0.383	0	2.517	1	6.569	0	1617	35	1.2

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43294.3	10000	41.7218	93.0774	-1011	QK	2.6	0	6.9	0	1.0	-1	0.369	0	2.538	1	6.880	1	1613	37	1.2
43294.4	10000	41.7218	93.0766	-1010	QK	2.7	0	6.5	-1	1.0	-1	0.412	1	2.665	1	6.469	0	1607	44	1.2
43294.5	10000	41.7218	93.0758	-1008	QK	2.5	0	6.8	-1	1.0	-1	0.369	0	2.510	1	6.798	0	1632	40	1.2
43294.6	10000	41.7218	93.0750	-1006	QK	2.2	-1	7.3	0	1.0	-1	0.302	-1	2.138	0	7.072	1	1646	46	1.2
43294.7	10000	41.7218	93.0742	-1005	QK	2.4	0	7.2	0	1.1	0	0.339	0	2.275	0	6.704	0	1663	49	1.2
43294.8	10000	41.7218	93.0735	-1003	QK	2.3	0	6.9	0	1.1	0	0.335	0	2.163	0	6.458	0	1664	44	1.2
43294.9	10000	41.7218	93.0727	-1001	QK	2.2	-1	6.9	0	1.1	0	0.314	-1	1.982	-1	6.322	0	1662	58	1.2
43295.0	10000	41.7218	93.0719	-1001	QK	2.2	-1	7.0	0	1.1	0	0.318	0	2.019	-1	6.342	0	1662	44	1.2
43295.1	10000	41.7218	93.0711	-1000	QK	2.2	-1	7.0	0	1.1	0	0.320	0	2.044	0	6.378	0	1661	52	1.2
43295.2	10000	41.7218	93.0703	-999	QK	1.9	-1	6.8	-1	1.1	0	0.279	-1	1.764	-1	6.329	0	1633	50	1.2
43295.3	10000	41.7218	93.0695	-997	QK	2.0	-1	6.6	-1	1.0	-1	0.308	-1	1.979	-1	6.428	0	1617	38	1.2
43295.4	10000	41.7218	93.0687	-996	QK	2.1	-1	6.4	-1	1.0	-1	0.322	0	2.036	0	6.326	0	1615	57	1.2
43295.5	10000	41.7218	93.0679	-994	QK	2.1	-1	6.4	-1	1.0	-1	0.326	0	2.125	0	6.511	0	1606	57	1.2
43295.6	10000	41.7217	93.0672	-993	QK	2.2	-1	6.5	-1	0.9	-1	0.342	0	2.344	0	6.850	1	1594	41	1.2
43295.7	10000	41.7217	93.0664	-992	QK	2.0	-1	6.1	-2	0.9	-2	0.333	0	2.242	0	6.739	0	1575	41	1.2
43295.8	10000	41.7217	93.0656	-991	QK	2.1	-1	6.0	-2	1.0	-1	0.349	0	2.161	0	6.189	0	1563	45	1.2
43295.9	10000	41.7217	93.0648	-989	QK	2.4	0	5.7	-2	1.0	-1	0.425	1	2.447	0	5.763	-1	1566	44	1.2
43296.0	10000	41.7217	93.0640	-987	QK	2.5	0	5.4	-3	1.0	-1	0.459	2	2.490	0	5.420	-2	1565	44	1.2
43296.1	10000	41.7217	93.0632	-986	QK	2.2	-1	5.6	-2	1.0	-1	0.396	1	2.320	0	5.864	-1	1558	47	1.2
43296.2	10000	41.7217	93.0624	-985	QK	2.2	-1	5.7	-2	1.0	-1	0.387	0	2.315	0	5.984	-1	1563	50	1.2
43296.3	10000	41.7217	93.0616	-983	QK	2.1	-1	5.6	-2	1.0	-1	0.375	0	2.172	0	5.796	-1	1574	44	1.2
43296.4	10000	41.7217	93.0609	-981	QK	2.3	0	5.8	-2	1.0	-1	0.403	1	2.260	0	5.607	-1	1604	41	1.2
43296.5	10000	41.7217	93.0601	-980	QK	2.2	-1	5.8	-2	0.9	-2	0.373	0	2.312	0	6.195	0	1595	45	1.2
43296.6	10000	41.7217	93.0593	-978	QK	2.2	-1	6.1	-2	1.0	-1	0.353	0	2.243	0	6.358	0	1587	43	1.2
43296.7	10000	41.7217	93.0585	-976	QK	2.2	-1	6.0	-2	1.0	-1	0.373	0	2.218	0	5.954	-1	1583	47	1.2
43296.8	10000	41.7217	93.0577	-973	QK	2.1	-1	5.9	-2	1.0	-1	0.362	0	2.149	0	5.929	-1	1562	44	1.2
43296.9	10000	41.7217	93.0569	-963	QK	2.2	-1	5.8	-2	1.1	-1	0.390	1	2.138	0	5.476	-1	1577	55	1.2
43297.0	10000	41.7217	93.0561	-953	QK	2.5	0	5.6	-2	1.1	0	0.442	1	2.311	0	5.235	-2	1591	51	1.2
43297.1	10000	41.7217	93.0554	-963	QK	2.4	-1	5.7	-2	1.1	0	0.410	1	2.179	0	5.319	-2	1596	50	1.2
43297.2	10000	41.7217	93.0546	-970	QK	2.4	0	6.0	-2	1.1	0	0.395	1	2.055	0	5.200	-2	1623	38	1.2
43297.3	10000	41.7217	93.0538	-971	QK	2.5	0	6.1	-2	1.2	0	0.407	1	2.079	0	5.111	-2	1656	42	1.2
43297.4	10000	41.7216	93.0530	-970	QK	2.5	0	6.5	-1	1.2	0	0.381	1	2.164	0	5.679	-1	1691	49	1.2
43297.5	10000	41.7217	93.0522	-970	QK	2.7	0	6.7	-1	1.2	0	0.397	1	2.217	0	5.584	-1	1747	47	1.2
43297.6	10000	41.7216	93.0514	-969	QK	2.7	0	7.2	0	1.2	0	0.375	1	2.349	0	6.264	0	1759	33	1.2
43297.7	10000	41.7216	93.0506	-969	QK	2.7	0	7.8	0	1.2	0	0.343	1	2.298	0	6.691	0	1791	26	1.2
43297.8	10000	41.7216	93.0499	-970	QK	2.7	0	8.0	0	1.2	0	0.341	1	2.338	0	6.866	0	1813	40	1.2
43297.9	10000	41.7216	93.0491	-971	QK	2.8	0	7.7	0	1.1	0	0.365	1	2.430	0	6.665	0	1824	46	1.2
43298.0	10000	41.7216	93.0483	-972	QK	2.6	0	7.7	0	1.1	0	0.339	1	2.310	0	6.811	0	1824	36	1.2
43298.1	10000	41.7216	93.0475	-974	QK	2.6	0	7.9	0	1.2	0	0.328	1	2.205	0	6.725	0	1823	39	1.2
43298.2	10000	41.7216	93.0467	-976	QK	2.6	0	7.6	0	1.2	0	0.347	1	2.274	0	6.556	0	1801	44	1.2
43298.3	10000	41.7216	93.0459	-977	QK	2.4	0	7.8	0	1.2	0	0.312	1	2.099	0	6.733	0	1790	50	1.2
43298.4	10000	41.7216	93.0451	-980	QK	2.3	0	7.7	0	1.1	0	0.304	1	2.079	0	6.833	0	1759	48	1.2
43298.5	10000	41.7216	93.0443	-983	QK	2.5	0	7.6	0	1.1	0	0.327	1	2.299	0	7.038	1	1738	39	1.2
43298.6	10000	41.7216	93.0435	-985	QK	2.7	0	7.7	0	1.1	0	0.349	1	2.552	0	7.314	1	1726	42	1.2
43298.7	10000	41.7216	93.0428	-988	QK	2.9	0	7.2	0	1.1	0	0.396	1	2.837	0	7.166	1	1703	55	1.2
43298.8	10000	41.7216	93.0420	-991	QK	3.0	0	6.8	-1	1.1	0	0.431	1	2.964	0	6.871	1	1701	44	1.2
43298.9	10000	41.7216	93.0412	-994	QK	2.7	-1	6.7	-1	1.1	0	0.392	1	2.795	0	7.137	1	1706	46	1.2
43299.0	10000	41.7216	93.0404	-998	QK	2.8	-1	6.6	-1	1.1	0	0.419	1	2.807	0	6.697	0	1709	46	1.2
43299.1	10000	41.7216	93.0396	-1001	QK	2.4	-1	6.4	-1	1.1	0	0.412	1	2.742	0	6.649	0	1714	48	1.2
43299.2	10000	41.7216	93.0388	-1003	QK	2.3	-1	6.4	-1	1.1	0	0.381	1	2.326	0	6.113	-1	1729	57	1.3
43299.3	10000	41.7216	93.0380	-1005	QK	2.3	-1	6.4	-1	1.1	0	0.341	1	2.150	0	6.299	0	1747	44	1.3
43299.4	10000	41.7216	93.0373	-1008	QK	2.2	-1	7.4	0	1.1	0	0.301	-1	2.022	-1	6.726	0	1784	54	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43299.5	10000	41.7216	93.0365	-1010	QK	2.1	-1	8.1	1	1.1	0	0.263	-1	1.864	-1	7.079	1	1802	31	1.3
43299.6	10000	41.7215	93.0357	-1012	QK	2.0	-1	8.4	2	1.2	0	0.239	-2	1.709	-1	7.145	1	1798	47	1.3
43299.7	10000	41.7215	93.0349	-1015	QK	1.9	-1	8.5	2	1.2	1	0.227	-2	1.558	-1	6.863	1	1793	44	1.3
43299.8	10000	41.7215	93.0341	-1017	QK	2.0	-1	8.5	2	1.3	1	0.236	-2	1.598	-1	6.757	0	1782	51	1.3
43299.9	10000	41.7215	93.0333	-1020	QK	2.1	-1	8.5	2	1.2	1	0.249	-1	1.730	-1	6.939	1	1758	45	1.3
43300.0	10000	41.7215	93.0325	-1021	QK	2.1	-1	8.0	1	1.2	1	0.265	-1	1.747	-1	6.591	0	1715	45	1.3
43300.1	10000	41.7215	93.0318	-1024	QK	2.1	-1	7.7	1	1.2	0	0.269	-1	1.802	-1	6.701	0	1673	27	1.3
43300.2	10000	41.7215	93.0310	-1024	QK	2.0	-1	7.2	0	1.1	0	0.279	-1	1.854	-1	6.653	0	1616	50	1.3
43300.3	10000	41.7215	93.0302	-1024	QK	2.2	-1	6.7	-1	1.0	-1	0.329	0	2.212	0	6.733	0	1574	54	1.3
43300.4	10000	41.7215	93.0294	-1024	QK	2.2	-1	6.5	-1	1.0	-1	0.338	0	2.281	0	6.750	0	1555	38	1.2
43300.5	10000	41.7215	93.0286	-1023	QK	2.0	-1	5.8	-2	1.0	-1	0.340	0	2.018	-1	5.928	-1	1554	53	1.2
43300.6	10000	41.7215	93.0278	-1023	QK	2.0	-1	5.9	-2	1.0	-1	0.347	0	2.005	-1	5.782	-1	1568	46	1.2
43300.7	10000	41.7215	93.0270	-1027	QK	1.9	-1	6.3	-1	1.0	-1	0.301	-1	1.853	-1	6.159	0	1607	48	1.2
43300.8	10000	41.7215	93.0262	-1030	QK	2.0	-1	6.4	-1	1.1	0	0.303	-1	1.801	-1	5.938	-1	1638	50	1.2
43300.9	10000	41.7215	93.0254	-1033	QK	2.1	-1	6.5	-1	1.1	0	0.324	0	1.878	-1	5.796	-1	1669	58	1.2
43301.0	10000	41.7215	93.0246	-1035	QK	2.3	0	6.9	0	1.2	0	0.330	0	1.952	-1	5.913	-1	1714	40	1.2
43301.1	10000	41.7215	93.0237	-1036	QK	2.4	0	6.9	0	1.2	0	0.346	0	2.049	0	5.926	-1	1731	47	1.2
43301.2	10000	41.7215	93.0229	-1037	QK	2.6	0	7.3	0	1.2	0	0.358	0	2.257	0	6.307	0	1755	41	1.2
43301.3	10000	41.7215	93.0220	-1038	QK	2.4	0	7.5	0	1.1	0	0.322	0	2.161	0	6.722	0	1760	42	1.2
43301.4	10000	41.7215	93.0212	-1039	QK	2.3	0	7.3	0	1.1	0	0.318	0	2.105	0	6.614	0	1756	44	1.2
43301.5	10000	41.7215	93.0204	-1040	QK	2.5	0	7.4	0	1.1	0	0.338	0	2.208	0	6.524	0	1761	33	1.2
43301.6	10000	41.7215	93.0195	-1041	QK	2.4	0	7.6	1	1.1	0	0.320	0	2.137	0	6.673	0	1781	53	1.2
43301.7	10000	41.7214	93.0187	-1041	QK	2.3	0	7.6	1	1.2	1	0.301	-1	1.929	-1	6.399	0	1790	53	1.2
43301.8	10000	41.7214	93.0178	-1043	QK	2.0	-1	8.2	1	1.2	1	0.245	-1	1.652	-1	6.749	0	1805	48	1.2
43301.9	10000	41.7214	93.0170	-1043	QK	1.9	-1	8.3	1	1.2	1	0.231	-2	1.624	-1	7.042	1	1795	40	1.2
43302.0	10000	41.7214	93.0161	-1044	QK	2.0	-1	8.3	1	1.2	1	0.239	-2	1.655	-1	6.911	1	1789	63	1.2
43302.1	10000	41.7214	93.0153	-1044	QK	2.0	-1	8.6	2	1.2	1	0.236	-2	1.642	-1	6.965	1	1813	46	1.2
43302.2	10000	41.7214	93.0145	-1046	QK	1.9	-1	8.5	2	1.3	1	0.224	-2	1.518	-2	6.765	0	1819	37	1.2
43302.3	10000	41.7214	93.0136	-1046	QK	1.9	-1	8.1	2	1.2	1	0.240	-2	1.562	-1	6.495	0	1817	45	1.2
43302.4	10000	41.7214	93.0128	-1047	QK	2.0	-1	8.2	2	1.3	1	0.238	-2	1.553	-2	6.513	0	1820	41	1.2
43302.5	10000	41.7214	93.0119	-1048	QK	2.1	-1	7.9	2	1.3	1	0.270	-1	1.710	-1	6.343	0	1829	38	1.2
43302.6	10000	41.7214	93.0111	-1049	QK	2.2	-1	7.7	2	1.3	1	0.289	-1	1.731	-1	5.982	-1	1857	49	1.2
43302.7	10000	41.7214	93.0103	-1049	QK	2.5	0	7.5	2	1.3	1	0.336	0	1.904	-1	5.662	-1	1875	47	1.2
43302.8	10000	41.7214	93.0094	-1049	QK	2.8	0	7.3	2	1.3	1	0.381	0	2.083	0	5.470	-1	1874	38	1.2
43302.9	10000	41.7214	93.0086	-1049	QK	2.7	0	7.4	2	1.3	1	0.358	0	1.986	-1	5.544	-1	1867	65	1.2
43303.0	10000	41.7214	93.0077	-1049	QK	2.5	0	7.9	2	1.3	1	0.320	0	1.873	-1	5.846	-1	1860	40	1.2
43303.1	10000	41.7214	93.0069	-1048	QK	2.6	0	7.3	2	1.3	1	0.357	0	1.948	-1	5.457	-1	1849	52	1.2
43303.2	10000	41.7214	93.0060	-1048	QK	2.8	0	7.0	2	1.4	1	0.405	0	2.089	0	5.154	-2	1850	50	1.2
43303.3	10000	41.7214	93.0052	-1049	QK	2.9	0	6.9	2	1.3	1	0.419	0	2.161	0	5.156	-2	1840	60	1.2
43303.4	10000	41.7214	93.0044	-1050	QK	2.5	0	7.2	2	1.3	1	0.352	-1	1.952	-1	5.541	-1	1831	64	1.2
43303.5	10000	41.7214	93.0035	-1049	QK	2.4	0	7.3	2	1.3	1	0.323	-1	1.829	-1	5.657	-1	1822	52	1.1
43303.6	10000	41.7214	93.0027	-1048	QK	2.6	0	7.6	2	1.3	1	0.341	-1	2.003	-1	5.879	-1	1837	54	1.1
43303.7	10000	41.7214	93.0018	-1048	QK	2.4	0	7.4	2	1.3	1	0.332	-1	1.890	-1	5.700	-1	1857	48	1.1
43303.8	10000	41.7213	93.0010	-1048	QK	2.4	0	7.8	2	1.2	1	0.314	-1	1.942	-1	6.190	0	1865	51	1.1
43303.9	10000	41.7213	93.0002	-1049	QK	2.3	0	7.8	2	1.2	1	0.294	-1	1.837	-1	6.243	0	1868	49	1.1
43304.0	10000	41.7213	92.9993	-1049	QK	2.5	0	8.2	2	1.2	1	0.277	-1	1.902	-1	6.864	1	1864	55	1.1
43304.1	10000	41.7213	92.9985	-1048	QK	2.4	0	7.9	2	1.1	1	0.300	-1	2.041	0	6.797	0	1846	48	1.1
43304.2	10000	41.7213	92.9976	-1047	QK	2.1	0	7.8	2	1.1	1	0.300	-1	2.083	0	6.948	1	1811	46	1.1
43304.3	10000	41.7213	92.9968	-1048	QK	2.5	-1	7.5	2	1.1	1	0.271	-1	1.877	-1	6.918	1	1781	44	1.1
43304.4	10000	41.7213	92.9959	-1048	QK	2.5	0	7.2	2	1.1	1	0.327	0	2.278	0	6.963	1	1739	52	1.1
43304.5	10000	41.7213	92.9951	-1048	QK	2.5	0	7.2	2	1.1	1	0.349	0	2.268	0	6.490	0	1716	51	1.1
43304.6	10000	41.7213	92.9943	-1048	QK	2.5	0	7.1	2	1.1	1	0.348	0	2.215	0	6.368	0	1679	53	1.1

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43304.7	10000	41.7213	92.9934	-1048	QK	2.5	0	6.5	-1	1.2	0	0.379	0	2.111	0	5.574	-1	1670	40	1.1
43304.8	10000	41.7213	92.9926	-1048	QK	2.4	0	6.8	-1	1.2	1	0.353	0	2.031	0	5.754	-1	1682	45	1.1
43304.9	10000	41.7213	92.9917	-1048	QK	2.4	0	7.2	0	1.2	1	0.327	0	1.924	-1	5.882	-1	1683	56	1.1
43305.0	10000	41.7213	92.9909	-1048	QK	2.6	0	6.9	0	1.2	1	0.373	0	2.149	0	5.766	-1	1689	49	1.1
43305.1	10000	41.7213	92.9901	-1047	QK	2.6	0	7.0	0	1.2	1	0.372	0	2.160	0	5.800	-1	1708	50	1.1
43305.2	10000	41.7213	92.9892	-1047	QK	2.5	0	7.0	0	1.2	1	0.359	0	2.097	0	5.837	-1	1718	40	1.1
43305.3	10000	41.7213	92.9884	-1047	QK	2.4	0	7.4	0	1.2	0	0.332	0	2.075	0	6.252	0	1739	55	1.1
43305.4	10000	41.7213	92.9875	-1048	QK	2.5	0	7.7	1	1.1	0	0.325	0	2.206	0	6.794	0	1751	50	1.1
43305.5	10000	41.7213	92.9867	-1048	QK	2.5	0	7.4	0	1.2	0	0.333	0	2.095	0	6.295	0	1753	49	1.1
43305.6	10000	41.7213	92.9858	-1048	QK	2.6	0	6.8	-1	1.2	1	0.391	1	2.184	0	5.582	-1	1776	40	1.1
43305.7	10000	41.7213	92.9850	-1047	QK	2.5	0	7.1	0	1.3	1	0.345	0	1.967	-1	5.703	-1	1783	45	1.1
43305.8	10000	41.7212	92.9842	-1047	QK	2.2	-1	7.3	0	1.3	1	0.306	-1	1.725	-1	5.635	-1	1776	59	1.1
43305.9	10000	41.7212	92.9833	-1046	QK	2.1	-1	7.5	0	1.3	2	0.281	-1	1.611	-1	5.736	-1	1769	51	1.1
43306.0	10000	41.7212	92.9825	-1045	QK	2.4	0	7.4	0	1.3	2	0.321	0	1.780	-1	5.551	-1	1770	48	1.1
43306.1	10000	41.7212	92.9816	-1044	QK	2.3	-1	7.2	0	1.3	2	0.316	0	1.687	-1	5.342	-2	1749	46	1.1
43306.2	10000	41.7212	92.9808	-1044	QK	2.2	-1	7.0	0	1.3	2	0.319	0	1.673	-1	5.239	-2	1737	38	1.1
43306.3	10000	41.7212	92.9799	-1044	QK	2.0	-1	7.5	0	1.3	1	0.267	-1	1.546	-2	5.798	-1	1718	40	1.2
43306.4	10000	41.7212	92.9791	-1044	QK	2.0	-1	7.3	0	1.3	1	0.272	-1	1.564	-1	5.743	-1	1711	44	1.2
43306.5	10000	41.7212	92.9783	-1043	QK	2.0	-1	7.1	0	1.3	1	0.280	-1	1.585	-1	5.655	-1	1703	42	1.2
43306.6	10000	41.7212	92.9774	-1042	QK	2.1	-1	7.1	0	1.2	1	0.292	-1	1.673	-1	5.719	-1	1715	43	1.2
43306.7	10000	41.7212	92.9766	-1042	QK	1.9	-1	6.8	-1	1.2	1	0.285	-1	1.623	-1	5.698	-1	1689	53	1.2
43306.8	10000	41.7212	92.9758	-1041	QK	1.8	-1	6.8	-1	1.2	1	0.271	-1	1.538	-2	5.665	-1	1674	48	1.2
43306.9	10000	41.7212	92.9749	-1040	QK	1.9	-1	7.0	0	1.2	1	0.271	-1	1.595	-1	5.894	-1	1687	41	1.2
43307.0	10000	41.7212	92.9741	-1039	QK	2.1	-1	7.1	0	1.2	1	0.295	-1	1.734	-1	5.872	-1	1704	47	1.2
43307.1	10000	41.7212	92.9732	-1039	QK	2.1	-1	7.0	0	1.2	1	0.303	-1	1.747	-1	5.772	-1	1714	34	1.2
43307.2	10000	41.7212	92.9724	-1038	QK	2.2	-1	7.1	0	1.2	1	0.316	0	1.813	-1	5.743	-1	1734	52	1.2
43307.3	10000	41.7212	92.9715	-1037	QK	2.3	0	7.1	0	1.2	1	0.324	0	1.911	-1	5.896	-1	1737	37	1.2
43307.4	10000	41.7212	92.9707	-1037	QK	2.3	0	7.6	1	1.2	1	0.304	-1	1.893	-1	6.229	0	1768	48	1.2
43307.5	10000	41.7212	92.9699	-1036	QK	2.4	0	7.8	1	1.2	1	0.307	-1	1.942	-1	6.334	0	1792	40	1.2
43307.6	10000	41.7212	92.9690	-1035	QK	2.3	0	7.7	1	1.2	1	0.295	-1	1.868	-1	6.328	0	1794	45	1.2
43307.7	10000	41.7211	92.9682	-1034	QK	2.1	-1	7.8	1	1.2	1	0.269	-1	1.717	-1	6.388	0	1794	54	1.2
43307.8	10000	41.7211	92.9673	-1034	QK	2.1	-1	7.6	1	1.2	1	0.273	-1	1.754	-1	6.420	0	1784	43	1.2
43307.9	10000	41.7211	92.9665	-1033	QK	2.4	0	7.7	1	1.2	1	0.307	-1	1.984	-1	6.466	0	1782	38	1.2
43308.0	10000	41.7211	92.9657	-1032	QK	2.2	-1	7.6	1	1.2	1	0.283	-1	1.784	-1	6.305	0	1772	47	1.2
43308.1	10000	41.7211	92.9648	-1031	QK	2.4	0	7.6	0	1.2	1	0.314	-1	1.948	-1	6.196	0	1766	42	1.2
43308.2	10000	41.7211	92.9640	-1030	QK	2.4	0	7.4	0	1.2	1	0.321	0	1.927	-1	6.008	-1	1775	46	1.2
43308.3	10000	41.7211	92.9631	-1029	QK	2.6	0	7.2	0	1.2	0	0.367	0	2.239	0	6.106	-1	1774	53	1.2
43308.4	10000	41.7211	92.9623	-1028	QK	2.8	1	7.2	0	1.2	0	0.390	1	2.388	0	6.118	-1	1775	50	1.2
43308.5	10000	41.7211	92.9614	-1027	QK	2.8	1	7.1	0	1.2	1	0.391	1	2.246	0	5.739	-1	1779	52	1.2
43308.6	10000	41.7211	92.9606	-1025	QK	2.5	0	7.4	0	1.2	1	0.340	0	2.100	0	6.185	0	1769	45	1.2
43308.7	10000	41.7211	92.9598	-1023	QK	2.6	0	7.1	0	1.2	1	0.364	0	2.189	0	6.006	-1	1769	48	1.2
43308.8	10000	41.7211	92.9589	-1021	QK	2.5	0	7.4	0	1.2	1	0.334	0	2.069	0	6.195	0	1757	43	1.2
43308.9	10000	41.7211	92.9581	-1019	QK	2.3	0	7.7	0	1.2	1	0.302	-1	1.947	-1	6.450	0	1740	58	1.2
43309.0	10000	41.7211	92.9572	-1019	QK	2.1	-1	8.0	1	1.2	1	0.265	-1	1.723	-1	6.513	0	1741	43	1.2
43309.1	10000	41.7211	92.9564	-1019	QK	2.1	-1	7.6	1	1.3	1	0.277	-1	1.668	-1	6.011	-1	1747	49	1.2
43309.2	10000	41.7211	92.9556	-1019	QK	2.3	-1	7.6	1	1.2	1	0.296	-1	1.852	-1	6.255	0	1758	41	1.2
43309.3	10000	41.7211	92.9547	-1018	QK	2.1	-1	7.3	0	1.2	1	0.294	-1	1.800	-1	6.118	-1	1755	51	1.2
43309.4	10000	41.7211	92.9539	-1016	QK	2.1	-1	7.6	0	1.2	1	0.283	-1	1.796	-1	6.343	0	1769	53	1.2
43309.5	10000	41.7211	92.9530	-1015	QK	2.2	-1	7.3	0	1.2	1	0.304	-1	1.807	-1	5.945	-1	1795	45	1.2
43309.6	10000	41.7211	92.9522	-1015	QK	2.4	0	6.9	-1	1.2	1	0.357	0	1.993	-1	5.583	-1	1810	35	1.2
43309.7	10000	41.7210	92.9513	-1013	QK	2.6	0	6.6	-1	1.2	1	0.394	1	2.131	0	5.407	-2	1818	40	1.2
43309.8	10000	41.7210	92.9505	-1013	QK	2.6	0	6.9	0	1.2	1	0.382	0	2.221	0	5.810	-1	1813	49	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43309.9	10000	41.7210	92.9497	-1012	QK	2.5	0	7.0	0	1.2	0	0.351	0	2.091	0	5.955	-1	1793	45	1.3
43310.0	10000	41.7210	92.9488	-1010	QK	2.4	0	6.7	-1	1.2	1	0.353	0	1.971	-1	5.578	-1	1766	48	1.3
43310.1	10000	41.7210	92.9480	-1009	QK	2.3	-1	6.6	-1	1.2	0	0.344	0	1.955	-1	5.676	-1	1730	50	1.3
43310.2	10000	41.7210	92.9471	-1007	QK	2.1	-1	6.2	-1	1.1	0	0.334	0	1.858	-1	5.566	-1	1698	53	1.3
43310.3	10000	41.7210	92.9463	-1006	QK	1.9	-1	6.4	-1	1.1	0	0.305	-1	1.799	-1	5.897	-1	1673	59	1.3
43310.4	10000	41.7210	92.9454	-1005	QK	2.1	-1	6.4	-1	1.1	-1	0.328	0	1.998	-1	6.090	-1	1649	52	1.3
43310.5	10000	41.7210	92.9446	-1004	QK	2.1	-1	6.1	-2	1.0	-1	0.344	0	2.008	-1	5.833	-1	1621	48	1.3
43310.6	10000	41.7210	92.9438	-1003	QK	2.4	0	6.3	-1	1.0	-1	0.373	0	2.343	0	6.289	0	1627	48	1.3
43310.7	10000	41.7210	92.9429	-1002	QK	2.8	0	6.5	-1	1.0	-1	0.424	1	2.835	1	6.683	0	1636	47	1.3
43310.8	10000	41.7210	92.9421	-1000	QK	2.9	1	6.6	-1	1.0	-1	0.442	1	2.918	1	6.606	0	1650	61	1.3
43310.9	10000	41.7210	92.9412	-999	QK	2.8	0	7.2	0	1.0	-1	0.383	0	2.876	1	7.514	1	1645	50	1.3
43311.0	10000	41.7210	92.9404	-998	QK	2.7	0	7.3	0	1.0	-1	0.372	0	2.805	1	7.545	2	1649	41	1.3
43311.1	10000	41.7210	92.9396	-997	QK	2.3	0	7.4	0	1.0	-1	0.313	-1	2.370	0	7.569	2	1642	58	1.3
43311.2	10000	41.7210	92.9387	-996	QK	2.2	-1	7.7	1	1.0	-1	0.281	-1	2.259	0	8.045	2	1661	40	1.3
43311.3	10000	41.7210	92.9379	-994	QK	1.9	-1	7.4	0	1.0	-1	0.251	-1	1.862	-1	7.417	1	1657	43	1.3
43311.4	10000	41.7210	92.9370	-993	QK	2.0	-1	7.3	0	1.0	-1	0.266	-1	1.932	-1	7.259	1	1663	48	1.3
43311.5	10000	41.7209	92.9362	-991	QK	1.9	-1	7.3	0	1.0	-1	0.265	-1	1.898	-1	7.169	1	1671	39	1.3
43311.6	10000	41.7209	92.9353	-991	QK	2.1	-1	7.0	0	1.1	0	0.297	-1	1.936	-1	6.524	0	1694	41	1.3
43311.7	10000	41.7209	92.9345	-989	QK	2.1	-1	6.7	-1	1.1	0	0.317	0	1.956	-1	6.164	0	1704	43	1.3
43311.8	10000	41.7209	92.9337	-988	QK	2.5	0	6.9	0	1.1	0	0.365	0	2.282	0	6.251	0	1722	55	1.3
43311.9	10000	41.7209	92.9328	-987	QK	2.4	0	6.7	-1	1.1	0	0.361	0	2.145	0	5.937	-1	1730	50	1.3
43312.0	10000	41.7209	92.9320	-985	QK	2.7	0	6.8	-1	1.2	0	0.394	1	2.313	0	5.867	-1	1743	49	1.3
43312.1	10000	41.7209	92.9312	-983	QAL	2.3	0	6.8	0	1.2	1	0.330	-1	1.867	-1	5.650	-1	1746	60	1.3
43312.2	10000	41.7209	92.9303	-981	QAL	2.3	0	7.2	1	1.3	1	0.315	-1	1.808	-1	5.742	0	1745	43	1.3
43312.3	10000	41.7209	92.9295	-980	QAL	2.3	0	7.0	0	1.3	1	0.320	-1	1.781	-1	5.566	-1	1737	44	1.3
43312.4	10000	41.7209	92.9286	-979	QAL	2.3	0	7.4	1	1.2	1	0.313	-1	1.875	-1	6.000	0	1719	37	1.3
43312.5	10000	41.7209	92.9278	-978	QAL	1.9	-1	7.0	0	1.2	1	0.269	-1	1.553	-1	5.765	0	1717	51	1.3
43312.6	10000	41.7209	92.9269	-976	QAL	2.2	0	6.9	0	1.2	1	0.316	-1	1.760	-1	5.572	-1	1694	48	1.3
43312.7	10000	41.7209	92.9261	-974	QAL	2.0	-1	6.7	0	1.2	1	0.295	-1	1.664	-1	5.641	-1	1672	40	1.3
43312.8	10000	41.7209	92.9253	-973	QAL	1.9	-1	6.6	0	1.2	1	0.287	-1	1.586	-1	5.535	-1	1660	49	1.3
43312.9	10000	41.7209	92.9244	-971	QAL	1.9	-1	6.2	0	1.2	1	0.306	-1	1.600	-1	5.225	-1	1669	42	1.3
43313.0	10000	41.7209	92.9236	-970	QAL	1.9	-1	6.4	0	1.2	1	0.297	-1	1.627	-1	5.485	-1	1666	44	1.2
43313.1	10000	41.7209	92.9227	-968	QAL	1.8	-1	6.6	0	1.2	1	0.274	-1	1.501	-1	5.486	-1	1689	40	1.2
43313.2	10000	41.7209	92.9219	-966	QAL	2.0	-1	6.8	0	1.2	1	0.287	-1	1.650	-1	5.753	0	1688	44	1.2
43313.3	10000	41.7209	92.9211	-964	QAL	1.9	-1	7.0	0	1.2	1	0.278	-1	1.681	-1	6.040	0	1694	47	1.2
43313.4	10000	41.7208	92.9202	-963	QAL	2.1	-1	7.1	1	1.2	1	0.295	-1	1.762	-1	5.968	0	1713	42	1.2
43313.5	10000	41.7208	92.9194	-961	QAL	2.4	0	7.2	1	1.2	1	0.333	-1	2.043	0	6.138	0	1738	56	1.2
43313.6	10000	41.7208	92.9185	-960	QAL	2.5	0	7.4	1	1.1	0	0.332	-1	2.157	0	6.490	0	1718	46	1.2
43313.7	10000	41.7208	92.9177	-958	QAL	2.4	0	7.3	1	1.2	1	0.327	-1	2.055	0	6.274	0	1719	60	1.2
43313.8	10000	41.7208	92.9168	-957	QAL	2.5	0	7.3	1	1.2	1	0.348	0	2.124	0	6.095	0	1723	46	1.2
43313.9	10000	41.7208	92.9160	-954	QAL	2.5	0	6.7	0	1.2	1	0.368	0	1.961	-1	5.330	-1	1725	44	1.2
43314.0	10000	41.7208	92.9152	-951	QAL	2.4	0	6.5	0	1.3	1	0.372	0	1.912	-1	5.137	-1	1725	43	1.2
43314.1	10000	41.7208	92.9143	-950	QAL	2.3	0	6.5	0	1.2	1	0.352	0	1.856	-1	5.275	-1	1704	36	1.2
43314.2	10000	41.7208	92.9135	-948	QK	2.2	-1	7.0	0	1.3	1	0.310	-1	1.732	-1	5.596	-1	1689	43	1.2
43314.3	10000	41.7208	92.9126	-946	QK	2.3	-1	6.9	0	1.3	1	0.331	0	1.813	-1	5.483	-1	1701	54	1.2
43314.4	10000	41.7208	92.9118	-944	QK	2.2	-1	7.2	0	1.2	1	0.314	-1	1.824	-1	5.817	-1	1681	43	1.2
43314.5	10000	41.7208	92.9109	-942	QK	2.1	-1	6.9	-1	1.2	0	0.306	-1	1.800	-1	5.874	-1	1629	39	1.2
43314.6	10000	41.7208	92.9101	-941	QK	2.0	-1	7.2	0	1.1	0	0.285	-1	1.802	-1	6.313	0	1577	49	1.2
43314.7	10000	41.7208	92.9093	-939	QK	1.9	-1	7.0	0	1.1	0	0.270	-1	1.755	-1	6.506	0	1536	42	1.2
43314.8	10000	41.7208	92.9084	-937	QK	2.0	-1	6.5	-1	1.0	-1	0.310	-1	1.928	-1	6.226	0	1499	44	1.2
43314.9	10000	41.7208	92.9076	-934	QK	2.0	-1	5.9	-2	1.0	-1	0.338	0	2.044	0	6.053	-1	1475	47	1.2
43315.0	10000	41.7208	92.9067	-932	QK	1.8	-1	6.1	-2	0.9	-2	0.300	-1	2.006	-1	6.677	0	1452	49	1.2

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43315.1	10000	41.7207	92.9059	-932	QK	1.9	-1	6.0	-2	0.9	-2	0.319	0	2.238	0	7.023	1	1448	45	1.2
43315.2	10000	41.7207	92.9051	-930	QK	2.1	-1	6.2	-1	0.8	-2	0.332	0	2.458	0	7.401	1	1471	50	1.2
43315.3	10000	41.7207	92.9042	-927	QK	2.2	-1	6.3	-1	0.8	-2	0.346	0	2.601	1	7.513	1	1504	42	1.2
43315.4	10000	41.7207	92.9034	-924	QK	2.4	0	6.6	-1	0.9	-2	0.361	0	2.804	1	7.758	2	1539	46	1.2
43315.5	10000	41.7207	92.9025	-919	QK	2.3	0	7.1	0	0.9	-2	0.323	0	2.605	1	8.066	2	1580	45	1.1
43315.6	10000	41.7207	92.9017	-915	QK	2.4	0	7.5	0	0.9	-2	0.314	-1	2.587	1	8.236	2	1599	53	1.1
43315.7	10000	41.7207	92.9008	-912	QK	2.2	-1	6.9	0	1.0	-1	0.322	0	2.291	0	7.127	1	1608	45	1.1
43315.8	10000	41.7207	92.9000	-908	QK	2.4	0	6.7	-1	1.0	-1	0.358	0	2.462	0	6.881	1	1605	43	1.1
43315.9	10000	41.7207	92.8992	-905	QK	2.3	0	6.7	-1	1.0	-1	0.340	0	2.277	0	6.706	0	1589	50	1.1
43316.0	10000	41.7207	92.8983	-902	QK	2.3	0	6.3	-1	1.0	-1	0.371	0	2.413	0	6.501	0	1561	36	1.1
43316.1	10000	41.7207	92.8975	-899	QK	2.1	-1	5.9	-2	0.9	-2	0.360	0	2.285	0	6.356	0	1527	51	1.1
43316.2	10000	41.7208	92.8967	-898	QK	2.1	-1	5.8	-2	0.9	-2	0.369	0	2.324	0	6.290	0	1503	45	1.1
43316.3	10000	41.7208	92.8958	-896	QK	2.2	-1	5.6	-2	0.9	-2	0.387	0	2.388	0	6.174	0	1481	47	1.1
43316.4	10000	41.7208	92.8950	-894	QK	2.5	0	5.9	-2	0.9	-2	0.419	1	2.796	1	6.676	0	1476	47	1.1
43316.5	10000	41.7208	92.8941	-892	QK	2.2	-1	6.0	-2	0.9	-2	0.360	0	2.317	0	6.444	0	1487	56	1.1
43316.6	10000	41.7208	92.8933	-890	QK	2.2	-1	5.9	-2	1.0	-1	0.373	0	2.329	0	6.250	0	1508	44	1.1
43316.7	10000	41.7208	92.8925	-889	QK	2.0	-1	6.4	-1	0.9	-1	0.305	-1	2.070	0	6.792	0	1546	58	1.1
43316.8	10000	41.7208	92.8916	-887	QK	2.2	-1	7.2	0	1.0	-1	0.301	-1	2.248	0	7.465	1	1605	46	1.1
43316.9	10000	41.7209	92.8908	-884	QK	2.5	0	7.2	0	1.0	-1	0.353	0	2.656	1	7.523	1	1660	54	1.1
43317.0	10000	41.7209	92.8900	-883	QK	2.6	0	7.2	0	1.0	-1	0.366	0	2.726	1	7.454	1	1706	45	1.1
43317.1	10000	41.7209	92.8891	-881	QK	2.5	0	7.3	0	1.0	-1	0.348	0	2.578	1	7.412	1	1731	47	1.1
43317.2	10000	41.7209	92.8883	-880	QK	2.6	0	7.6	1	1.0	-1	0.339	0	2.556	1	7.540	2	1738	37	1.1
43317.3	10000	41.7209	92.8875	-878	QK	2.6	0	7.3	0	1.0	-1	0.361	0	2.546	1	7.059	1	1757	51	1.1
43317.4	10000	41.7209	92.8866	-878	QK	3.0	1	7.2	0	1.1	0	0.411	1	2.693	1	6.548	0	1779	41	1.1
43317.5	10000	41.7209	92.8858	-877	QK	3.1	1	6.5	-1	1.1	0	0.468	2	2.681	1	5.722	-1	1784	52	1.1
43317.6	10000	41.7210	92.8849	-877	QK	2.8	1	6.5	-1	1.1	0	0.428	1	2.339	1	5.462	-1	1773	49	1.1
43317.7	10000	41.7210	92.8841	-876	QK	2.7	1	6.7	-1	1.2	0	0.404	1	2.210	1	5.475	-1	1765	41	1.1
43317.8	10000	41.7210	92.8833	-875	QK	2.6	0	6.6	-1	1.2	0	0.397	1	2.129	1	5.361	-2	1755	52	1.1
43317.9	10000	41.7210	92.8824	-874	QK	2.6	0	6.4	-1	1.2	0	0.405	1	2.118	1	5.235	-2	1761	54	1.1
43318.0	10000	41.7210	92.8816	-872	QK	2.6	0	6.4	-1	1.2	0	0.411	1	2.270	1	5.525	-1	1733	51	1.1
43318.1	10000	41.7210	92.8808	-870	QK	2.5	0	6.3	-1	1.1	0	0.389	1	2.241	0	5.763	-1	1702	56	1.1
43318.2	10000	41.7210	92.8799	-871	QK	2.1	-1	6.8	-1	1.1	0	0.309	-1	1.929	-1	6.247	0	1650	52	1.1
43318.3	10000	41.7210	92.8791	-872	QK	1.8	-1	7.1	0	1.0	-1	0.260	-1	1.782	-1	6.859	1	1625	43	1.1
43318.4	10000	41.7211	92.8782	-872	QK	1.7	-2	6.9	0	1.0	-1	0.244	-1	1.703	-1	6.979	1	1608	55	1.1
43318.5	10000	41.7211	92.8774	-871	QK	1.6	-2	7.2	0	1.0	-1	0.230	-2	1.689	-1	7.353	1	1597	63	1.1
43318.6	10000	41.7211	92.8766	-870	QK	1.5	-2	7.3	0	1.0	-1	0.207	-2	1.560	-1	7.519	1	1609	53	1.1
43318.7	10000	41.7211	92.8757	-869	QK	1.3	-2	8.1	1	1.1	-1	0.163	-3	1.255	-2	7.687	2	1650	42	1.1
43318.8	10000	41.7211	92.8749	-868	QK	1.3	-2	8.3	1	1.1	0	0.156	-3	1.187	-2	7.589	2	1671	46	1.1
43318.9	10000	41.7211	92.8741	-866	QK	1.5	-2	8.3	1	1.1	0	0.177	-2	1.305	-2	7.363	1	1710	50	1.2
43319.0	10000	41.7211	92.8732	-865	QK	1.7	-2	8.3	1	1.2	0	0.207	-2	1.470	-2	7.112	1	1726	49	1.2
43319.1	10000	41.7212	92.8724	-864	QK	1.7	-2	8.3	1	1.2	0	0.207	-2	1.440	-2	6.955	1	1739	41	1.2
43319.2	10000	41.7212	92.8715	-863	QK	1.7	-2	8.2	1	1.2	0	0.205	-2	1.415	-2	6.891	1	1753	37	1.2
43319.3	10000	41.7212	92.8707	-862	QK	2.0	-1	8.1	1	1.2	0	0.250	-1	1.718	-1	6.860	1	1755	55	1.2
43319.4	10000	41.7212	92.8699	-861	QK	2.2	-1	7.8	1	1.2	0	0.279	-1	1.838	-1	6.592	0	1762	45	1.2
43319.5	10000	41.7212	92.8690	-860	QK	2.1	-1	7.9	1	1.2	0	0.270	-1	1.822	-1	6.743	0	1764	39	1.2
43319.6	10000	41.7212	92.8682	-858	QK	2.3	0	7.5	1	1.2	0	0.306	-1	1.965	-1	6.413	0	1772	52	1.2
43319.7	10000	41.7212	92.8674	-857	QK	2.4	0	7.6	1	1.2	0	0.315	0	2.045	-1	6.483	0	1791	45	1.2
43319.8	10000	41.7212	92.8665	-855	QK	2.5	0	7.9	1	1.2	0	0.321	0	2.138	0	6.658	0	1804	58	1.2
43319.9	10000	41.7213	92.8657	-854	QK	2.6	0	7.9	1	1.3	0	0.330	0	2.054	0	6.224	0	1819	43	1.2
43320.0	10000	41.7213	92.8648	-851	QK	2.4	0	8.0	1	1.3	0	0.304	-1	1.852	-1	6.097	-1	1810	43	1.2
43320.1	10000	41.7213	92.8640	-849	QK	2.3	0	7.8	1	1.3	0	0.302	-1	1.777	-1	5.883	-1	1797	46	1.2
43320.2	10000	41.7213	92.8632	-847	QK	2.4	0	7.3	0	1.4	2	0.329	0	1.784	-1	5.423	-2	1798	48	1.2

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43320.3	10000	41.7213	92.8623	-844	QK	2.3	0	7.4	0	1.3	2	0.310	-1	1.721	-1	5.543	-1	1805	42	1.2
43320.4	10000	41.7213	92.8615	-841	QK	2.3	-1	6.9	0	1.3	2	0.326	0	1.732	-1	5.304	-2	1781	46	1.2
43320.5	10000	41.7213	92.8607	-839	QK	2.5	0	6.5	-1	1.3	1	0.378	0	1.925	-1	5.090	-2	1759	44	1.2
43320.6	10000	41.7213	92.8598	-839	QK	2.7	0	6.6	-1	1.2	1	0.407	1	2.224	0	5.465	-1	1730	42	1.2
43320.7	10000	41.7214	92.8590	-838	QK	2.4	0	6.1	-1	1.1	0	0.392	1	2.111	0	5.390	-2	1696	50	1.2
43320.8	10000	41.7214	92.8581	-836	QK	2.5	0	6.4	-1	1.1	0	0.393	1	2.307	0	5.875	-1	1658	42	1.2
43320.9	10000	41.7214	92.8573	-834	QK	2.5	0	6.6	-1	1.0	-1	0.370	0	2.481	0	6.714	0	1636	46	1.2
43321.0	10000	41.7214	92.8565	-832	QK	2.5	0	6.7	-1	0.9	-1	0.376	0	2.675	1	7.116	1	1603	49	1.2
43321.1	10000	41.7214	92.8556	-830	QK	2.4	0	6.9	0	0.9	-2	0.347	0	2.589	1	7.463	1	1596	47	1.2
43321.2	10000	41.7214	92.8548	-828	QK	2.4	0	7.3	0	0.9	-2	0.330	0	2.605	1	7.902	2	1592	42	1.2
43321.3	10000	41.7214	92.8539	-826	QK	2.1	-1	7.0	0	0.9	-2	0.297	-1	2.278	0	7.679	2	1583	29	1.2
43321.4	10000	41.7215	92.8531	-824	QK	2.1	-1	7.4	0	0.9	-1	0.280	-1	2.205	0	7.862	2	1596	24	1.2
43321.5	10000	41.7215	92.8523	-822	QAL	1.9	-1	7.3	1	1.0	-1	0.267	-1	1.964	-1	7.346	2	1633	54	1.2
43321.6	10000	41.7215	92.8514	-821	QAL	1.9	-1	7.2	1	1.1	0	0.261	-1	1.777	-1	6.804	1	1651	44	1.2
43321.7	10000	41.7215	92.8506	-819	QAL	1.6	-2	7.2	1	1.1	0	0.221	-2	1.517	-1	6.875	1	1652	47	1.2
43321.8	10000	41.7215	92.8498	-818	QAL	1.5	-2	7.3	1	1.1	0	0.208	-2	1.401	-2	6.741	1	1675	28	1.2
43321.9	10000	41.7215	92.8489	-817	QAL	1.4	-2	7.0	0	1.1	0	0.208	-2	1.312	-2	6.304	0	1678	45	1.2
43322.0	10000	41.7215	92.8481	-815	QAL	1.6	-2	7.1	0	1.1	0	0.223	-2	1.398	-2	6.274	0	1691	45	1.2
43322.1	10000	41.7215	92.8472	-814	QAL	1.9	-1	6.7	0	1.2	1	0.274	-1	1.579	-1	5.754	0	1733	47	1.2
43322.2	10000	41.7216	92.8464	-813	QAL	1.7	-1	7.0	0	1.2	1	0.248	-2	1.507	-1	6.066	0	1726	43	1.2
43322.3	10000	41.7216	92.8456	-813	QK	2.0	-1	7.3	0	1.1	0	0.268	-1	1.730	-1	6.462	0	1741	48	1.2
43322.4	10000	41.7216	92.8447	-811	QK	2.1	-1	7.6	0	1.2	1	0.271	-1	1.731	-1	6.384	0	1769	44	1.2
43322.5	10000	41.7216	92.8439	-810	QK	2.1	-1	7.4	0	1.2	1	0.281	-1	1.738	-1	6.190	0	1769	37	1.2
43322.6	10000	41.7216	92.8431	-810	QK	1.9	-1	7.8	1	1.2	0	0.250	-1	1.656	-1	6.626	0	1794	49	1.2
43322.7	10000	41.7216	92.8422	-808	QK	1.8	-1	7.5	0	1.1	0	0.246	-1	1.658	-1	6.751	0	1808	49	1.2
43322.8	10000	41.7216	92.8414	-807	QK	2.0	-1	7.3	0	1.1	0	0.277	-1	1.874	-1	6.754	0	1786	61	1.2
43322.9	10000	41.7216	92.8405	-807	QK	2.1	-1	7.6	0	1.1	0	0.275	-1	1.954	-1	7.099	1	1787	39	1.2
43323.0	10000	41.7217	92.8397	-806	QK	2.0	-1	7.5	0	1.1	0	0.265	-1	1.858	-1	7.016	1	1766	39	1.2
43323.1	10000	41.7217	92.8389	-805	QK	2.2	-1	7.2	-1	1.0	0	0.308	0	2.175	0	7.072	1	1728	44	1.2
43323.2	10000	41.7217	92.8380	-804	QK	2.4	0	7.5	-1	1.0	0	0.323	0	2.419	0	7.492	1	1716	52	1.2
43323.3	10000	41.7217	92.8372	-803	QK	2.3	0	7.0	-1	1.0	0	0.334	0	2.272	0	6.802	1	1696	49	1.2
43323.4	10000	41.7217	92.8364	-802	QK	2.3	0	7.2	0	1.1	0	0.322	0	2.117	0	6.565	1	1695	47	1.2
43323.5	10000	41.7217	92.8355	-801	QK	2.3	0	7.8	0	1.1	0	0.299	-1	2.081	0	6.965	1	1699	40	1.2
43323.6	10000	41.7217	92.8347	-800	QK	2.4	0	7.2	0	1.1	0	0.336	0	2.146	0	6.396	1	1696	46	1.2
43323.7	10000	41.7217	92.8338	-799	QK	2.4	0	7.2	0	1.1	0	0.333	0	2.115	0	6.352	1	1697	53	1.2
43323.8	10000	41.7218	92.8330	-797	QK	2.3	0	7.4	0	1.2	0	0.309	-1	1.965	-1	6.354	1	1718	40	1.2
43323.9	10000	41.7218	92.8322	-797	QK	2.2	-1	7.4	1	1.2	1	0.294	-1	1.849	-1	6.292	1	1728	42	1.2
43324.0	10000	41.7218	92.8313	-796	QK	2.4	0	7.7	1	1.2	1	0.311	-1	1.964	-1	6.317	1	1756	55	1.2
43324.1	10000	41.7218	92.8305	-795	QK	2.4	0	7.6	1	1.2	1	0.319	0	1.981	-1	6.213	0	1760	47	1.2
43324.2	10000	41.7218	92.8297	-793	QK	2.1	-1	7.4	1	1.2	1	0.290	-1	1.749	-1	6.029	-1	1756	47	1.2
43324.3	10000	41.7218	92.8288	-792	QK	2.1	-1	7.4	1	1.2	1	0.291	-1	1.757	-1	6.037	-1	1739	56	1.2
43324.4	10000	41.7218	92.8280	-790	QK	2.2	-1	7.1	1	1.2	1	0.306	-1	1.842	-1	6.016	-1	1715	29	1.2
43324.5	10000	41.7219	92.8271	-789	QK	2.1	-1	6.9	1	1.2	1	0.302	-1	1.772	-1	5.862	-1	1692	53	1.2
43324.6	10000	41.7219	92.8263	-789	QK	1.9	-1	6.8	0	1.2	1	0.277	-1	1.637	-1	5.920	-1	1661	52	1.2
43324.7	10000	41.7219	92.8255	-788	QK	1.7	-2	6.9	0	1.1	1	0.246	-1	1.556	-1	6.326	0	1610	43	1.2
43324.8	10000	41.7219	92.8246	-787	QK	1.7	-2	7.0	0	1.1	1	0.238	-2	1.542	-2	6.478	0	1598	52	1.2
43324.9	10000	41.7219	92.8238	-785	QK	1.8	-1	6.8	0	1.1	1	0.267	-1	1.697	-1	6.349	0	1586	47	1.2
43325.0	10000	41.7219	92.8230	-783	QK	1.7	-2	6.7	-1	1.1	1	0.254	-1	1.566	-1	6.174	0	1576	42	1.2
43325.1	10000	41.7219	92.8221	-781	QK	1.7	-2	6.8	-1	1.1	1	0.252	-2	1.546	-2	6.133	0	1578	45	1.2
43325.2	10000	41.7219	92.8213	-781	QK	1.9	-1	6.8	-1	1.1	1	0.273	-1	1.711	-1	6.267	0	1573	39	1.2
43325.3	10000	41.7219	92.8204	-779	QK	2.2	-1	6.5	-1	1.1	1	0.332	0	1.980	-1	5.961	-1	1586	38	1.2
43325.4	10000	41.7220	92.8196	-778	QK	2.2	-1	6.5	-1	1.1	0	0.330	0	1.897	-1	5.747	-1	1605	47	1.2

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43325.5	10000	41.7220	92.8188	-777	QK	2.2	-1	6.5	-1	1.1	0	0.333	0	1.916	-1	5.757	-1	1633	60	1.2
43325.6	10000	41.7220	92.8179	-775	QK	2.3	0	6.8	-1	1.1	0	0.338	0	2.088	0	6.175	0	1654	62	1.2
43325.7	10000	41.7220	92.8171	-774	QK	2.6	0	6.9	0	1.1	0	0.374	0	2.320	0	6.210	0	1685	38	1.2
43325.8	10000	41.7220	92.8163	-772	QK	2.5	0	6.9	0	1.1	0	0.369	0	2.235	0	6.050	-1	1716	40	1.2
43325.9	10000	41.7220	92.8154	-771	QK	2.5	0	7.2	0	1.1	0	0.355	0	2.242	0	6.316	0	1751	38	1.2
43326.0	10000	41.7220	92.8146	-770	QK	2.5	0	7.5	0	1.2	1	0.336	0	2.089	0	6.208	0	1786	47	1.2
43326.1	10000	41.7220	92.8138	-768	QK	2.6	0	7.3	0	1.2	0	0.357	0	2.253	0	6.315	0	1799	52	1.2
43326.2	10000	41.7221	92.8129	-766	QK	2.7	0	7.3	0	1.1	0	0.377	0	2.401	0	6.361	0	1795	54	1.2
43326.3	10000	41.7221	92.8121	-765	QK	2.7	0	6.8	-1	1.2	0	0.401	1	2.346	0	5.843	-1	1803	34	1.2
43326.4	10000	41.7221	92.8112	-763	QK	2.5	0	7.3	0	1.2	0	0.351	0	2.207	0	6.295	0	1810	44	1.2
43326.5	10000	41.7221	92.8104	-761	QK	2.4	0	7.3	0	1.2	1	0.330	0	2.039	0	6.180	0	1818	55	1.2
43326.6	10000	41.7221	92.8096	-760	QK	2.2	-1	7.4	0	1.2	1	0.299	-1	1.796	-1	6.013	-1	1816	52	1.2
43326.7	10000	41.7221	92.8087	-758	QK	2.2	-1	7.6	1	1.2	1	0.289	-1	1.838	-1	6.357	0	1796	45	1.2
43326.8	10000	41.7221	92.8079	-755	QK	2.0	-1	7.8	1	1.2	1	0.260	-1	1.674	-1	6.427	0	1790	47	1.2
43326.9	10000	41.7222	92.8071	-754	QK	1.9	-1	7.8	1	1.2	1	0.240	-2	1.558	-1	6.499	0	1774	50	1.2
43327.0	10000	41.7222	92.8062	-752	QK	2.0	-1	8.0	1	1.2	1	0.244	-1	1.618	-1	6.630	0	1768	43	1.2
43327.1	10000	41.7222	92.8054	-750	QK	2.1	-1	7.6	1	1.2	1	0.276	-1	1.700	-1	6.159	0	1769	49	1.2
43327.2	10000	41.7222	92.8045	-748	QK	2.5	0	7.8	1	1.2	1	0.318	0	2.036	0	6.395	0	1764	49	1.2
43327.3	10000	41.7222	92.8037	-746	QK	2.7	0	7.4	0	1.2	0	0.365	0	2.302	0	6.304	0	1771	44	1.2
43327.4	10000	41.7222	92.8029	-744	QK	2.6	0	7.4	0	1.2	0	0.349	0	2.204	0	6.323	0	1787	48	1.2
43327.5	10000	41.7222	92.8020	-742	QK	2.6	0	7.1	0	1.2	1	0.363	0	2.109	0	5.811	-1	1803	37	1.2
43327.6	10000	41.7222	92.8012	-740	QK	2.7	0	7.3	0	1.3	1	0.375	0	2.184	0	5.824	-1	1814	47	1.2
43327.7	10000	41.7223	92.8004	-738	QK	2.6	0	7.4	0	1.3	1	0.355	0	2.107	0	5.930	-1	1813	38	1.2
43327.8	10000	41.7223	92.7995	-737	QK	2.3	0	7.5	0	1.2	1	0.307	-1	1.899	-1	6.182	0	1807	43	1.2
43327.9	10000	41.7223	92.7987	-735	QK	2.3	0	7.4	0	1.3	1	0.313	-1	1.849	-1	5.903	-1	1810	37	1.2
43328.0	10000	41.7223	92.7978	-733	QK	2.1	-1	7.8	1	1.3	1	0.264	-1	1.597	-1	6.038	-1	1807	31	1.2
43328.1	10000	41.7223	92.7970	-731	QK	2.2	-1	7.7	1	1.3	1	0.286	-1	1.753	-1	6.124	-1	1790	41	1.2
43328.2	10000	41.7223	92.7962	-728	QK	2.1	-1	7.9	1	1.2	1	0.270	-1	1.760	-1	6.509	0	1777	47	1.2
43328.3	10000	41.7223	92.7953	-726	QK	2.0	-1	7.7	1	1.2	1	0.263	-1	1.682	-1	6.388	0	1784	63	1.2
43328.4	10000	41.7223	92.7945	-724	QK	1.9	-1	7.7	1	1.2	1	0.248	-1	1.597	-1	6.441	0	1790	41	1.2
43328.5	10000	41.7224	92.7937	-721	QK	2.2	-1	7.5	0	1.2	0	0.298	-1	1.904	-1	6.379	0	1796	46	1.1
43328.6	10000	41.7224	92.7928	-718	QK	2.0	-1	7.8	1	1.1	0	0.261	-1	1.810	-1	6.934	1	1797	49	1.1
43328.7	10000	41.7224	92.7920	-716	QK	2.3	0	7.9	1	1.2	0	0.290	-1	1.979	-1	6.813	0	1809	53	1.1
43328.8	10000	41.7224	92.7911	-715	QK	2.0	-1	7.8	1	1.2	1	0.259	-1	1.681	-1	6.494	0	1805	37	1.1
43328.9	10000	41.7224	92.7903	-712	QK	2.1	-1	7.7	1	1.2	1	0.277	-1	1.760	-1	6.363	0	1785	54	1.1
43329.0	10000	41.7224	92.7895	-709	QK	1.9	-1	7.4	0	1.2	1	0.252	-1	1.564	-1	6.208	0	1751	39	1.1
43329.1	10000	41.7224	92.7886	-705	QK	2.1	-1	7.5	0	1.2	1	0.272	-1	1.763	-1	6.483	0	1731	55	1.1
43329.2	10000	41.7224	92.7878	-699	QK	1.8	-1	7.4	0	1.2	1	0.248	-1	1.506	-2	6.073	-1	1710	53	1.1
43329.3	10000	41.7225	92.7869	-697	QK	1.9	-1	7.0	0	1.2	1	0.268	-1	1.540	-2	5.747	-1	1676	51	1.1
43329.4	10000	41.7225	92.7861	-698	QK	1.6	-2	6.7	-1	1.2	0	0.246	-1	1.412	-2	5.746	-1	1640	40	1.1
43329.5	10000	41.7225	92.7853	-697	QAL	1.9	-1	6.5	0	1.1	0	0.288	-1	1.715	-1	5.952	0	1623	44	1.1
43329.6	10000	41.7225	92.7844	-695	QAL	2.3	0	6.7	0	1.1	0	0.345	0	2.166	0	6.273	0	1621	39	1.1
43329.7	10000	41.7225	92.7836	-693	QAL	2.5	0	6.8	0	1.1	0	0.360	0	2.445	0	6.787	1	1613	33	1.1
43329.8	10000	41.7225	92.7828	-691	QAL	2.0	-1	6.8	0	1.0	0	0.296	-1	1.991	-1	6.722	1	1589	42	1.1
43329.9	10000	41.7225	92.7819	-689	QAL	2.2	-1	7.1	-1	0.9	-1	0.307	-1	2.375	0	7.738	2	1573	42	1.1
43330.0	10000	41.7225	92.7811	-686	QAL	2.5	0	7.1	-1	0.9	-1	0.312	-1	2.480	0	7.942	2	1591	40	1.1
43330.1	10000	41.7226	92.7802	-684	QK	2.4	0	7.1	-2	0.9	-1	0.333	0	2.592	1	7.776	2	1615	51	1.1
43330.2	10000	41.7226	92.7794	-682	QK	2.5	0	7.2	-1	1.0	-1	0.345	0	2.583	1	7.479	1	1634	52	1.1
43330.3	10000	41.7226	92.7786	-680	QK	2.1	-1	7.2	-1	1.0	-1	0.289	-1	2.094	0	7.235	1	1658	47	1.1
43330.4	10000	41.7226	92.7777	-678	QK	2.3	-1	7.2	-1	1.0	-1	0.313	-1	2.208	0	7.059	1	1707	65	1.1
43330.5	10000	41.7226	92.7769	-676	QK	2.8	0	7.2	0	1.1	0	0.380	0	2.579	1	6.788	0	1751	45	1.1
43330.6	10000	41.7226	92.7761	-674	QK	2.9	1	7.4	0	1.1	0	0.391	1	2.517	1	6.439	0	1794	55	1.1

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43330.7	10000	41.7226	92.7752	-672	QK	2.7	0	7.6	1	1.2	1	0.354	0	2.186	0	6.172	0	1820	50	1.1
43330.8	10000	41.7226	92.7744	-669	QK	2.8	1	7.7	1	1.2	1	0.369	0	2.354	0	6.375	0	1814	49	1.1
43330.9	10000	41.7226	92.7735	-667	QK	2.6	0	7.9	1	1.2	1	0.331	0	2.103	0	6.354	0	1819	39	1.1
43331.0	10000	41.7227	92.7727	-664	QK	2.7	0	8.1	1	1.3	1	0.336	0	2.141	0	6.377	0	1805	42	1.1
43331.1	10000	41.7227	92.7719	-662	QK	2.6	0	8.3	1	1.3	1	0.308	-1	1.999	-1	6.481	0	1783	40	1.1
43331.2	10000	41.7227	92.7710	-659	QK	2.3	0	8.3	1	1.3	1	0.277	-1	1.808	-1	6.517	0	1759	58	1.1
43331.3	10000	41.7227	92.7702	-656	QK	2.0	-1	8.4	2	1.3	1	0.239	-2	1.587	-1	6.648	0	1741	50	1.1
43331.4	10000	41.7227	92.7694	-653	QK	2.1	-1	8.5	2	1.2	1	0.245	-1	1.736	-1	7.098	1	1721	55	1.1
43331.5	10000	41.7227	92.7685	-650	QK	2.0	-1	8.2	1	1.2	1	0.246	-1	1.657	-1	6.746	0	1723	50	1.1
43331.6	10000	41.7227	92.7677	-646	QK	2.3	-1	8.0	1	1.2	0	0.286	-1	1.961	-1	6.864	1	1704	36	1.1
43331.7	10000	41.7228	92.7668	-643	QK	2.3	0	7.8	1	1.1	0	0.297	-1	2.118	0	7.136	1	1693	53	1.1
43331.8	10000	41.7228	92.7660	-641	QK	2.5	0	7.5	0	1.1	0	0.335	0	2.369	0	7.066	1	1685	43	1.1
43331.9	10000	41.7228	92.7652	-638	QK	2.6	0	7.5	0	1.0	-1	0.354	0	2.523	1	7.123	1	1687	54	1.1
43332.0	10000	41.7228	92.7643	-635	QK	2.7	0	7.1	0	1.0	-1	0.383	0	2.681	1	6.997	1	1671	40	1.1
43332.1	10000	41.7228	92.7635	-631	QK	2.9	1	6.8	-1	1.0	-1	0.428	1	2.897	1	6.767	0	1663	55	1.1
43332.2	10000	41.7228	92.7627	-628	QK	3.0	1	7.0	0	1.0	-1	0.432	1	3.089	2	7.147	1	1644	51	1.1
43332.3	10000	41.7228	92.7618	-625	QK	2.9	1	6.8	-1	1.0	-1	0.426	1	2.960	1	6.955	1	1644	60	1.1
43332.4	10000	41.7228	92.7610	-622	QK	2.6	0	6.2	-1	1.0	-1	0.413	1	2.676	1	6.483	0	1623	37	1.1
43332.5	10000	41.7228	92.7602	-619	QK	2.4	0	6.2	-1	1.0	-1	0.381	0	2.472	0	6.481	0	1604	47	1.1
43332.6	10000	41.7228	92.7593	-615	QK	2.3	0	6.2	-1	1.0	-1	0.372	0	2.389	0	6.423	0	1576	35	1.1
43332.7	10000	41.7228	92.7585	-612	QK	2.3	0	6.3	-1	0.9	-2	0.367	0	2.482	0	6.767	0	1552	43	1.1
43332.8	10000	41.7228	92.7577	-610	QK	2.0	-1	6.5	-1	0.9	-2	0.305	-1	2.208	0	7.235	1	1525	48	1.1
43332.9	10000	41.7228	92.7568	-607	QK	1.8	-1	6.5	-1	0.9	-2	0.278	-1	2.098	0	7.545	2	1501	44	1.1
43333.0	10000	41.7228	92.7560	-604	QK	1.9	-1	6.8	-1	0.9	-2	0.275	-1	2.172	0	7.897	2	1497	34	1.1
43333.1	10000	41.7228	92.7552	-600	QK	2.1	-1	7.4	0	0.9	-2	0.286	-1	2.384	0	8.336	3	1528	27	1.1
43333.2	10000	41.7228	92.7543	-595	QK	2.3	-1	7.7	0	0.9	-2	0.292	-1	2.395	0	8.204	3	1561	55	1.1
43333.3	10000	41.7228	92.7535	-589	QK	2.2	-1	8.0	0	1.0	-1	0.282	-1	2.354	0	8.341	3	1606	48	1.1
43333.4	10000	41.7229	92.7527	-589	QK	2.5	0	8.2	0	1.0	-1	0.301	-1	2.436	0	8.097	2	1655	43	1.1
43333.5	10000	41.7229	92.7518	-590	QK	2.7	0	8.0	0	1.1	-1	0.335	0	2.537	0	7.578	2	1693	53	1.1
43333.6	10000	41.7229	92.7510	-589	QK	2.8	1	8.0	0	1.1	0	0.357	0	2.639	1	7.390	1	1736	46	1.1
43333.7	10000	41.7229	92.7502	-587	QK	2.8	1	7.8	0	1.1	0	0.364	0	2.552	1	7.011	1	1764	54	1.1
43333.8	10000	41.7229	92.7493	-586	QK	2.7	0	7.8	0	1.1	0	0.353	0	2.453	1	6.939	1	1768	45	1.1
43333.9	10000	41.7229	92.7485	-584	QK	2.9	1	7.4	0	1.1	0	0.388	1	2.658	1	6.857	1	1754	38	1.1
43334.0	10000	41.7229	92.7477	-583	QK	2.8	1	7.0	0	1.1	0	0.404	1	2.652	1	6.571	1	1730	51	1.1
43334.1	10000	41.7229	92.7468	-582	QK	2.5	0	6.8	-1	1.1	0	0.371	0	2.369	1	6.392	1	1711	51	1.2
43334.2	10000	41.7229	92.7460	-582	QK	2.5	0	6.7	-1	1.1	0	0.371	0	2.300	0	6.194	0	1699	50	1.2
43334.3	10000	41.7229	92.7452	-582	QK	2.3	-1	6.9	0	1.1	0	0.328	0	2.026	-1	6.177	0	1692	53	1.2
43334.4	10000	41.7229	92.7444	-582	QK	2.1	-1	7.3	0	1.1	0	0.290	-1	1.893	-1	6.531	0	1673	45	1.2
43334.5	10000	41.7229	92.7435	-582	QK	2.2	-1	7.1	0	1.1	0	0.312	-1	2.014	-1	6.460	0	1650	40	1.2
43334.6	10000	41.7229	92.7427	-583	QK	2.0	-1	7.0	0	1.1	0	0.280	-1	1.810	-1	6.464	0	1648	40	1.2
43334.7	10000	41.7229	92.7419	-584	QK	1.9	-1	7.2	0	1.1	0	0.258	-1	1.781	-1	6.893	1	1640	41	1.2
43334.8	10000	41.7229	92.7410	-585	QK	1.9	-1	7.3	0	1.0	-1	0.262	-1	1.843	-1	7.041	1	1629	42	1.2
43334.9	10000	41.7229	92.7402	-586	QK	1.7	-2	7.2	0	1.0	-1	0.240	-2	1.743	-1	7.262	1	1605	39	1.2
43335.0	10000	41.7229	92.7393	-586	QK	1.7	-2	6.9	0	0.9	-2	0.242	-2	1.784	-1	7.381	1	1576	52	1.2
43335.1	10000	41.7229	92.7385	-587	QK	1.9	-1	7.0	0	0.9	-2	0.269	-1	2.099	0	7.801	2	1562	38	1.2
43335.2	10000	41.7229	92.7377	-586	QK	1.8	-1	7.0	0	0.9	-2	0.258	-1	2.086	0	8.083	2	1565	46	1.2
43335.3	10000	41.7229	92.7368	-586	QK	1.8	-1	6.8	-1	0.8	-2	0.263	-1	2.191	0	8.343	3	1544	45	1.2
43335.4	10000	41.7230	92.7360	-585	QK	2.0	-1	7.1	0	0.8	-2	0.306	-1	2.592	0	8.484	3	1557	41	1.2
43335.5	10000	41.7230	92.7352	-584	QK	2.1	-1	7.4	0	0.9	-2	0.266	-1	2.323	0	8.729	3	1567	48	1.2
43335.6	10000	41.7230	92.7344	-582	QK	2.1	-1	7.3	0	0.9	-2	0.286	-1	2.383	0	8.322	3	1596	53	1.2
43335.7	10000	41.7230	92.7335	-579	QK	2.0	-1	7.6	0	1.0	-1	0.264	-1	2.097	0	7.950	2	1640	41	1.2
43335.8	10000	41.7230	92.7327	-577	QK	2.0	-1	7.2	0	0.9	-1	0.281	-1	2.144	0	7.628	2	1660	54	1.2

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43335.9	10000	41.7230	92.7319	-575	QK	2.1	-1	7.3	0	1.0	-1	0.282	-1	2.028	-1	7.179	1	1687	44	1.2
43336.0	10000	41.7230	92.7310	-572	QK	2.2	-1	7.6	1	1.1	0	0.290	-1	1.973	-1	6.803	0	1729	46	1.2
43336.1	10000	41.7230	92.7302	-569	QK	2.2	-1	7.6	1	1.2	0	0.283	-1	1.860	-1	6.562	0	1755	55	1.2
43336.2	10000	41.7230	92.7294	-566	QK	2.5	0	7.2	0	1.2	1	0.343	0	2.075	0	6.053	-1	1763	35	1.2
43336.3	10000	41.7230	92.7285	-562	QK	2.5	0	7.5	0	1.2	0	0.336	0	2.147	0	6.398	0	1766	42	1.2
43336.4	10000	41.7230	92.7277	-558	QK	2.5	0	7.1	0	1.2	0	0.357	0	2.195	0	6.157	0	1720	43	1.2
43336.5	10000	41.7230	92.7269	-551	QK	2.2	-1	7.1	0	1.2	1	0.312	-1	1.867	-1	5.980	-1	1690	50	1.2
43336.6	10000	41.7230	92.7260	-541	QK	2.0	-1	6.8	-1	1.2	0	0.291	-1	1.700	-1	5.849	-1	1658	33	1.2
43336.7	10000	41.7230	92.7252	-532	QK	2.0	-1	6.6	-1	1.1	0	0.306	-1	1.880	-1	6.152	0	1606	42	1.2
43336.8	10000	41.7230	92.7244	-520	QK	2.0	-1	5.9	-2	1.0	-1	0.340	0	1.979	-1	5.827	-1	1547	36	1.2
43336.9	10000	41.7230	92.7235	-523	QK	1.9	-1	5.8	-2	1.0	-1	0.335	0	1.980	-1	5.907	-1	1498	43	1.2
43337.0	10000	41.7230	92.7227	-528	QK	1.8	-2	5.3	-3	0.9	-2	0.339	0	1.902	-1	5.605	-1	1451	49	1.2
43337.1	10000	41.7230	92.7219	-521	QK	2.0	-1	5.3	-3	0.9	-2	0.372	0	2.195	0	5.905	-1	1435	46	1.2
43337.2	10000	41.7230	92.7210	-517	QK	2.3	0	5.1	-3	0.9	-2	0.456	1	2.628	1	5.765	-1	1436	61	1.2
43337.3	10000	41.7230	92.7202	-511	QK	2.6	0	5.0	-3	0.9	-2	0.510	2	2.862	1	5.606	-1	1440	40	1.2
43337.4	10000	41.7231	92.7194	-503	QK	2.3	0	5.2	-3	0.9	-2	0.449	1	2.573	1	5.726	-1	1447	52	1.2
43337.5	10000	41.7231	92.7185	-500	QK	2.2	-1	5.7	-2	0.9	-1	0.392	1	2.360	0	6.017	-1	1479	47	1.2
43337.6	10000	41.7231	92.7177	-498	QK	2.1	-1	6.0	-2	0.9	-1	0.353	0	2.228	0	6.317	0	1511	47	1.2
43337.7	10000	41.7231	92.7169	-493	QK	2.1	-1	6.8	-1	1.0	-1	0.307	-1	2.056	0	6.695	0	1543	38	1.2
43337.8	10000	41.7231	92.7160	-487	QK	2.0	-1	6.8	-1	1.1	0	0.296	-1	1.871	-1	6.333	0	1599	44	1.2
43337.9	10000	41.7231	92.7152	-482	QK	2.0	-1	7.2	0	1.1	0	0.278	-1	1.859	-1	6.691	0	1642	35	1.2
43338.0	10000	41.7231	92.7144	-479	QK	1.9	-1	7.4	0	1.1	0	0.260	-1	1.767	-1	6.799	0	1669	50	1.2
43338.1	10000	41.7231	92.7135	-477	QK	2.2	-1	7.2	0	1.2	1	0.308	-1	1.875	-1	6.082	-1	1707	52	1.2
43338.2	10000	41.7231	92.7127	-475	QK	2.2	-1	7.2	0	1.2	1	0.306	-1	1.812	-1	5.923	-1	1734	41	1.2
43338.3	10000	41.7231	92.7119	-474	QK	2.4	0	7.6	0	1.3	1	0.312	-1	1.875	-1	6.013	-1	1759	52	1.2
43338.4	10000	41.7231	92.7110	-472	QK	2.4	0	7.4	0	1.3	1	0.322	0	1.845	-1	5.732	-1	1783	55	1.2
43338.5	10000	41.7231	92.7102	-471	QK	2.3	-1	7.5	0	1.3	2	0.301	-1	1.740	-1	5.771	-1	1784	41	1.2
43338.6	10000	41.7231	92.7094	-470	QK	2.3	-1	7.5	0	1.3	2	0.306	-1	1.749	-1	5.719	-1	1786	32	1.2
43338.7	10000	41.7231	92.7085	-469	QK	2.4	0	7.6	0	1.3	2	0.319	0	1.825	-1	5.714	-1	1799	36	1.2
43338.8	10000	41.7231	92.7077	-468	QK	2.2	-1	8.0	1	1.3	1	0.270	-1	1.671	-1	6.193	0	1800	48	1.2
43338.9	10000	41.7231	92.7069	-468	QK	2.0	-1	8.2	1	1.3	1	0.246	-1	1.557	-1	6.320	0	1789	34	1.2
43339.0	10000	41.7231	92.7060	-468	QK	2.1	-1	7.9	1	1.3	1	0.266	-1	1.642	-1	6.166	0	1791	60	1.2
43339.1	10000	41.7231	92.7052	-467	QK	2.1	-1	7.9	1	1.2	1	0.273	-1	1.735	-1	6.361	0	1795	45	1.2
43339.2	10000	41.7231	92.7044	-467	QK	2.0	-1	8.2	1	1.3	1	0.267	-1	1.795	-1	6.722	0	1803	38	1.2
43339.3	10000	41.7231	92.7035	-467	QK	1.9	-1	8.2	1	1.3	1	0.240	-2	1.549	-2	6.466	0	1803	48	1.2
43339.4	10000	41.7231	92.7027	-467	QK	2.0	-1	8.2	1	1.3	1	0.234	-2	1.522	-2	6.494	0	1798	48	1.2
43339.5	10000	41.7232	92.7019	-467	QK	2.1	-1	7.7	1	1.3	1	0.259	-1	1.590	-1	6.152	0	1791	41	1.2
43339.6	10000	41.7232	92.7010	-468	QK	2.0	-1	7.9	1	1.3	1	0.264	-1	1.632	-1	6.188	0	1790	46	1.2
43339.7	10000	41.7232	92.7002	-467	QK	2.0	-1	7.8	1	1.3	1	0.262	-1	1.583	-1	6.036	-1	1796	41	1.2
43339.8	10000	41.7232	92.6994	-468	QK	2.2	-1	7.6	1	1.3	2	0.285	-1	1.645	-1	5.765	-1	1790	43	1.2
43339.9	10000	41.7232	92.6985	-468	QK	2.4	0	7.2	0	1.3	2	0.333	0	1.807	-1	5.425	-2	1792	44	1.2
43340.0	10000	41.7232	92.6977	-468	QK	2.5	0	6.8	0	1.3	2	0.370	0	2.021	-1	5.466	-1	1781	36	1.2
43340.1	10000	41.7232	92.6969	-468	QK	2.5	0	6.9	0	1.3	2	0.360	0	2.003	-1	5.560	-1	1774	40	1.2
43340.2	10000	41.7232	92.6960	-468	QK	2.4	0	7.3	0	1.3	2	0.327	0	1.917	-1	5.870	-1	1787	42	1.2
43340.3	10000	41.7232	92.6952	-468	QK	2.4	0	7.3	0	1.3	2	0.334	0	1.935	-1	5.791	-1	1781	45	1.2
43340.4	10000	41.7232	92.6944	-467	QK	2.2	-1	7.3	0	1.3	2	0.304	-1	1.803	-1	5.932	-1	1790	36	1.2
43340.5	10000	41.7232	92.6935	-467	QK	2.3	-1	7.3	0	1.3	2	0.312	-1	1.861	-1	5.966	-1	1786	48	1.2
43340.6	10000	41.7232	92.6927	-467	QK	2.2	-1	7.3	0	1.3	2	0.305	-1	1.848	-1	6.056	-1	1786	47	1.2
43340.7	10000	41.7232	92.6919	-467	QK	2.4	0	8.0	1	1.3	2	0.292	-1	1.814	-1	6.208	0	1801	51	1.2
43340.8	10000	41.7232	92.6910	-467	QK	2.2	-1	7.7	1	1.3	2	0.284	-1	1.666	-1	5.867	-1	1802	46	1.2
43340.9	10000	41.7232	92.6902	-466	QK	2.3	0	7.6	1	1.3	2	0.305	-1	1.797	-1	5.884	-1	1797	48	1.2
43341.0	10000	41.7232	92.6894	-466	QK	2.5	0	7.5	0	1.3	1	0.335	0	1.980	-1	5.915	-1	1797	41	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43341.1	10000	41.7232	92.6886	-466	QK	2.5	0	7.5	0	1.2	1	0.332	0	2.050	0	6.178	0	1775	47	1.3
43341.2	10000	41.7232	92.6877	-465	QK	2.1	-1	7.7	1	1.2	1	0.277	-1	1.737	-1	6.263	0	1760	57	1.3
43341.3	10000	41.7232	92.6869	-465	QK	1.8	-1	7.5	0	1.2	1	0.246	-1	1.560	-1	6.342	0	1724	53	1.3
43341.4	10000	41.7232	92.6861	-464	QK	1.6	-2	7.3	0	1.1	0	0.214	-2	1.385	-2	6.480	0	1704	51	1.3
43341.5	10000	41.7232	92.6852	-464	QK	1.8	-1	7.5	0	1.1	0	0.244	-1	1.666	-1	6.829	0	1694	52	1.3
43341.6	10000	41.7232	92.6844	-463	QK	1.7	-2	7.1	0	1.1	0	0.245	-1	1.530	-2	6.243	0	1692	53	1.3
43341.7	10000	41.7233	92.6835	-463	QK	1.7	-2	7.1	0	1.2	0	0.233	-2	1.409	-2	6.048	-1	1688	45	1.3
43341.8	10000	41.7233	92.6827	-463	QK	1.8	-1	6.8	-1	1.2	1	0.268	-1	1.532	-2	5.720	-1	1693	50	1.3
43341.9	10000	41.7233	92.6819	-462	QK	1.9	-1	6.6	-1	1.1	0	0.284	-1	1.629	-1	5.740	-1	1684	50	1.3
43342.0	10000	41.7233	92.6810	-461	QK	1.8	-1	6.9	0	1.2	1	0.265	-1	1.547	-2	5.827	-1	1693	46	1.3
43342.1	10000	41.7233	92.6802	-461	QK	1.9	-1	6.8	-1	1.2	0	0.274	-1	1.576	-1	5.760	-1	1697	42	1.3
43342.2	10000	41.7233	92.6794	-460	QK	1.8	-2	6.8	-1	1.2	0	0.259	-1	1.507	-2	5.822	-1	1705	63	1.3
43342.3	10000	41.7233	92.6786	-460	QK	1.8	-1	6.9	0	1.1	0	0.263	-1	1.584	-1	6.017	-1	1712	44	1.3
43342.4	10000	41.7233	92.6777	-460	QK	1.7	-2	6.8	-1	1.1	0	0.253	-1	1.501	-2	5.937	-1	1708	49	1.3
43342.5	10000	41.7233	92.6769	-460	QK	1.6	-2	6.7	-1	1.1	0	0.236	-2	1.396	-2	5.921	-1	1694	41	1.3
43342.6	10000	41.7233	92.6761	-460	QK	1.9	-1	6.8	-1	1.2	0	0.282	-1	1.656	-1	5.877	-1	1728	47	1.3
43342.7	10000	41.7233	92.6752	-460	QK	2.2	-1	6.8	-1	1.1	0	0.319	0	1.913	-1	5.992	-1	1745	36	1.3
43342.8	10000	41.7233	92.6744	-459	QK	2.4	0	6.6	-1	1.1	0	0.363	0	2.142	0	5.904	-1	1737	36	1.3
43342.9	10000	41.7233	92.6736	-460	QK	2.5	0	6.6	-1	1.1	0	0.382	0	2.328	0	6.092	-1	1733	41	1.3
43343.0	10000	41.7233	92.6727	-460	QK	2.6	0	6.8	-1	1.1	0	0.388	1	2.434	0	6.268	0	1717	57	1.3
43343.1	10000	41.7233	92.6719	-460	QK	2.6	0	6.9	0	1.1	0	0.372	0	2.407	0	6.478	0	1730	49	1.3
43343.2	10000	41.7233	92.6711	-461	QK	2.7	0	7.3	0	1.0	-1	0.372	0	2.601	1	6.995	1	1732	34	1.3
43343.3	10000	41.7233	92.6702	-461	QK	2.5	0	7.4	0	1.0	-1	0.341	-1	2.424	0	7.113	1	1716	45	1.3
43343.4	10000	41.7233	92.6694	-461	QK	2.5	0	7.3	0	1.0	-1	0.342	-1	2.447	0	7.159	1	1712	37	1.3
43343.5	10000	41.7233	92.6686	-462	QK	2.4	0	7.5	0	1.1	0	0.321	0	2.152	0	6.711	0	1733	50	1.3
43343.6	10000	41.7233	92.6677	-462	QK	2.3	0	7.4	0	1.1	0	0.316	0	2.042	0	6.467	0	1755	54	1.3
43343.7	10000	41.7233	92.6669	-462	QK	2.2	-1	7.6	0	1.1	0	0.294	-1	2.015	-1	6.862	0	1770	50	1.3
43343.8	10000	41.7233	92.6661	-462	QK	2.3	0	7.9	1	1.1	0	0.313	-1	2.150	0	6.880	0	1782	43	1.3
43343.9	10000	41.7233	92.6652	-463	QK	2.3	0	7.7	0	1.2	0	0.294	-1	1.875	-1	6.370	0	1792	52	1.3
43344.0	10000	41.7234	92.6644	-463	QK	2.2	-1	7.5	0	1.2	0	0.297	-1	1.836	-1	6.181	0	1803	40	1.3
43344.1	10000	41.7234	92.6636	-463	QK	2.3	0	7.8	1	1.2	0	0.295	-1	1.853	-1	6.290	0	1820	51	1.3
43344.2	10000	41.7234	92.6627	-464	QK	2.2	-1	7.9	1	1.2	0	0.278	-1	1.846	-1	6.639	0	1807	51	1.3
43344.3	10000	41.7234	92.6619	-464	QK	2.1	-1	7.9	1	1.2	0	0.267	-1	1.733	-1	6.495	0	1794	45	1.3
43344.4	10000	41.7234	92.6611	-464	QK	2.1	-1	8.2	1	1.3	0	0.255	-1	1.636	-1	6.423	0	1783	51	1.3
43344.5	10000	41.7234	92.6602	-465	QK	2.0	-1	7.8	1	1.2	0	0.250	-1	1.571	-1	6.276	0	1759	56	1.3
43344.6	10000	41.7234	92.6594	-465	QK	2.1	-1	7.7	1	1.2	0	0.270	-1	1.765	-1	6.529	0	1754	40	1.3
43344.7	10000	41.7234	92.6586	-465	QK	2.0	-1	7.8	1	1.1	0	0.258	-1	1.743	-1	6.745	0	1736	51	1.3
43344.8	10000	41.7234	92.6577	-464	QK	2.1	-1	7.6	1	1.2	0	0.271	-1	1.752	-1	6.459	0	1723	39	1.3
43344.9	10000	41.7234	92.6569	-465	QK	2.1	-1	7.2	0	1.2	0	0.286	-1	1.773	-1	6.204	0	1713	38	1.3
43345.0	10000	41.7234	92.6561	-466	QK	2.1	-1	7.4	0	1.1	0	0.276	-1	1.829	-1	6.634	0	1683	53	1.3
43345.1	10000	41.7234	92.6552	-467	QK	1.8	-1	6.9	-1	1.1	0	0.269	-1	1.699	-1	6.315	0	1669	43	1.3
43345.2	10000	41.7234	92.6544	-469	QK	1.9	-1	6.7	-1	1.1	0	0.282	-1	1.760	-1	6.236	0	1673	58	1.3
43345.3	10000	41.7234	92.6536	-469	QK	1.9	-1	6.9	-1	1.1	0	0.280	-1	1.757	-1	6.267	0	1672	48	1.3
43345.4	10000	41.7234	92.6527	-470	QK	1.9	-1	6.9	0	1.1	0	0.280	-1	1.722	-1	6.156	0	1692	39	1.3
43345.5	10000	41.7234	92.6519	-471	QK	2.0	-1	7.0	0	1.1	0	0.290	-1	1.846	-1	6.369	0	1707	35	1.3
43345.6	10000	41.7234	92.6511	-471	QK	2.0	-1	6.9	0	1.1	0	0.298	-1	1.885	-1	6.333	0	1726	59	1.3
43345.7	10000	41.7234	92.6502	-472	QK	2.2	-1	6.9	0	1.2	0	0.313	-1	1.874	-1	5.987	-1	1758	55	1.3
43345.8	10000	41.7234	92.6494	-473	QK	2.4	0	7.1	0	1.2	0	0.340	0	2.033	0	5.971	-1	1793	52	1.3
43345.9	10000	41.7234	92.6486	-473	QK	2.3	-1	7.5	0	1.2	0	0.304	-1	1.905	-1	6.267	-1	1809	48	1.3
43346.0	10000	41.7234	92.6477	-474	QK	2.1	-1	7.7	1	1.2	0	0.272	-1	1.798	-1	6.614	0	1827	46	1.3
43346.1	10000	41.7234	92.6469	-475	QK	2.2	-1	7.7	1	1.2	0	0.291	-1	1.857	-1	6.389	0	1818	51	1.3
43346.2	10000	41.7234	92.6461	-477	QK	2.1	-1	7.4	0	1.2	1	0.277	-1	1.733	-1	6.253	0	1795	47	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43346.3	10000	41.7235	92.6452	-478	QK	1.8	-1	7.8	1	1.2	1	0.236	-2	1.561	-1	6.605	0	1777	57	1.3
43346.4	10000	41.7235	92.6444	-478	QK	1.9	-1	7.7	1	1.1	0	0.243	-1	1.638	-1	6.741	0	1766	50	1.3
43346.5	10000	41.7235	92.6436	-479	QK	1.8	-2	7.6	1	1.1	0	0.234	-2	1.571	-1	6.707	0	1748	42	1.3
43346.6	10000	41.7235	92.6427	-480	QK	1.9	-1	7.7	1	1.1	0	0.250	-1	1.681	-1	6.715	0	1731	52	1.3
43346.7	10000	41.7235	92.6419	-482	QK	2.1	-1	7.2	0	1.2	1	0.285	-1	1.735	-1	6.080	-1	1723	37	1.3
43346.8	10000	41.7235	92.6411	-483	QK	2.0	-1	7.7	1	1.2	0	0.264	-1	1.745	-1	6.615	0	1732	45	1.3
43346.9	10000	41.7235	92.6402	-483	QK	2.0	-1	7.9	1	1.2	0	0.251	-1	1.706	-1	6.785	0	1745	39	1.3
43347.0	10000	41.7235	92.6394	-485	QK	2.1	-1	7.8	1	1.2	1	0.266	-1	1.729	-1	6.502	0	1776	51	1.3
43347.1	10000	41.7235	92.6386	-487	QK	2.0	-1	7.9	1	1.2	1	0.248	-1	1.659	-1	6.688	0	1770	53	1.3
43347.2	10000	41.7235	92.6377	-488	QK	2.0	-1	7.9	1	1.2	0	0.251	-1	1.696	-1	6.757	0	1774	44	1.3
43347.3	10000	41.7235	92.6369	-489	QK	2.2	-1	7.9	1	1.2	0	0.272	-1	1.838	-1	6.755	0	1772	48	1.3
43347.4	10000	41.7235	92.6361	-491	QK	2.0	-1	7.9	1	1.2	0	0.258	-1	1.741	-1	6.755	0	1754	50	1.3
43347.5	10000	41.7235	92.6352	-492	QK	2.1	-1	7.6	1	1.2	0	0.275	-1	1.812	-1	6.599	0	1752	42	1.3
43347.6	10000	41.7235	92.6344	-494	QK	2.2	-1	7.1	0	1.2	0	0.310	-1	1.882	-1	6.070	-1	1743	42	1.3
43347.7	10000	41.7235	92.6336	-495	QK	2.5	0	6.9	0	1.1	0	0.355	0	2.201	0	6.203	0	1705	48	1.3
43347.8	10000	41.7235	92.6328	-497	QK	2.4	0	6.8	-1	1.1	0	0.359	0	2.136	0	5.949	-1	1707	48	1.3
43347.9	10000	41.7235	92.6319	-498	QK	2.5	0	6.8	-1	1.1	0	0.365	0	2.193	0	6.002	-1	1681	55	1.3
43348.0	10000	41.7235	92.6311	-500	QK	2.4	0	6.7	-1	1.1	0	0.354	0	2.146	0	6.071	-1	1674	41	1.3
43348.1	10000	41.7235	92.6302	-501	QK	2.4	0	6.9	0	1.1	-1	0.356	0	2.320	0	6.516	0	1664	47	1.3
43348.2	10000	41.7235	92.6294	-502	QK	2.4	0	6.7	-1	1.0	-1	0.352	0	2.247	0	6.389	0	1641	52	1.3
43348.3	10000	41.7235	92.6286	-503	QK	2.1	-1	6.7	-1	1.0	-1	0.316	0	2.076	0	6.573	0	1622	39	1.3
43348.4	10000	41.7235	92.6277	-504	QK	2.0	-1	6.6	-1	1.0	-1	0.304	-1	1.925	-1	6.325	0	1620	52	1.3
43348.5	10000	41.7235	92.6269	-505	QK	1.9	-1	6.5	-1	1.0	-1	0.298	-1	1.877	-1	6.291	0	1613	54	1.3
43348.6	10000	41.7235	92.6261	-506	QK	2.0	-1	6.6	-1	1.0	-1	0.310	-1	1.991	-1	6.426	0	1617	62	1.3
43348.7	10000	41.7235	92.6252	-506	QK	1.9	-1	6.5	-1	1.0	-1	0.296	-1	1.838	-1	6.218	0	1629	46	1.3
43348.8	10000	41.7235	92.6244	-506	QK	2.1	-1	6.4	-1	1.1	0	0.327	0	1.942	-1	5.948	-1	1646	49	1.3
43348.9	10000	41.7234	92.6235	-505	QK	2.3	-1	6.3	-1	1.1	-1	0.360	0	2.147	0	5.968	-1	1659	47	1.3
43349.0	10000	41.7234	92.6227	-504	QK	2.5	0	6.7	-1	1.1	-1	0.373	0	2.388	0	6.398	0	1668	40	1.3
43349.1	10000	41.7234	92.6218	-503	QK	2.7	0	7.1	0	1.0	-1	0.377	0	2.591	1	6.875	1	1677	43	1.3
43349.2	10000	41.7234	92.6210	-501	QK	2.6	0	7.4	1	1.1	-1	0.349	0	2.417	0	6.925	1	1688	55	1.3
43349.3	10000	41.7233	92.6201	-500	QK	2.6	0	7.3	1	1.1	0	0.354	0	2.414	0	6.826	0	1704	48	1.3
43349.4	10000	41.7233	92.6193	-498	QK	2.8	0	7.5	1	1.1	0	0.376	0	2.625	1	6.983	1	1714	38	1.3
43349.5	10000	41.7233	92.6185	-496	QK	2.6	0	7.5	1	1.1	0	0.350	0	2.430	1	6.934	1	1722	54	1.3
43349.6	10000	41.7233	92.6176	-492	QK	2.6	0	7.6	1	1.1	0	0.339	0	2.396	1	7.059	1	1719	48	1.3
43349.7	10000	41.7232	92.6168	-488	QK	2.4	0	7.5	1	1.1	0	0.327	0	2.240	1	6.844	1	1718	55	1.3
43349.8	10000	41.7232	92.6159	-484	QK	2.4	0	7.3	1	1.1	0	0.324	0	2.130	0	6.572	1	1728	52	1.3
43349.9	10000	41.7232	92.6151	-479	QK	2.6	0	7.1	1	1.1	-1	0.367	0	2.536	1	6.910	1	1729	45	1.3
43350.0	10000	41.7232	92.6142	-474	QK	2.5	0	7.2	1	1.1	-1	0.345	0	2.438	1	7.071	1	1727	28	1.3
43350.1	10000	41.7231	92.6134	-469	QK	2.6	0	7.0	1	1.1	-1	0.363	0	2.521	1	6.950	1	1711	58	1.2
43350.2	10000	41.7231	92.6125	-463	QK	2.3	0	7.0	0	1.1	-1	0.333	0	2.265	1	6.791	0	1703	55	1.2
43350.3	10000	41.7231	92.6117	-458	QK	2.2	-1	7.0	0	1.1	0	0.319	0	2.109	0	6.620	0	1707	48	1.2
43350.4	10000	41.7231	92.6108	-452	QK	2.2	-1	7.0	0	1.1	0	0.319	0	2.062	0	6.472	0	1697	38	1.2
43350.5	10000	41.7230	92.6100	-447	QK	1.8	-1	6.8	-1	1.1	0	0.266	-1	1.673	-1	6.302	0	1672	47	1.2
43350.6	10000	41.7230	92.6092	-441	QK	1.8	-2	6.8	-1	1.1	0	0.261	-1	1.578	-1	6.047	-1	1666	41	1.2
43350.7	10000	41.7230	92.6083	-436	QK	1.8	-2	6.9	0	1.2	0	0.259	-1	1.524	-2	5.886	-1	1657	49	1.2
43350.8	10000	41.7230	92.6075	-431	QK	1.5	-2	6.9	0	1.2	0	0.214	-2	1.269	-2	5.926	-1	1656	55	1.2
43350.9	10000	41.7230	92.6066	-426	QK	1.7	-2	7.3	1	1.1	0	0.238	-2	1.547	-2	6.511	0	1647	44	1.2
43351.0	10000	41.7229	92.6058	-421	QK	1.7	-2	7.5	1	1.1	0	0.230	-2	1.529	-2	6.651	0	1641	59	1.2
43351.1	10000	41.7229	92.6049	-416	QK	1.9	-1	7.7	1	1.1	0	0.252	-1	1.760	-1	6.971	1	1669	39	1.2
43351.2	10000	41.7229	92.6041	-412	QK	2.3	0	7.9	1	1.1	0	0.293	-1	2.098	0	7.171	1	1700	52	1.2
43351.3	10000	41.7228	92.6032	-407	QK	2.3	0	7.8	1	1.1	0	0.290	-1	2.063	0	7.111	1	1716	49	1.2
43351.4	10000	41.7228	92.6024	-403	QK	2.4	0	7.8	1	1.1	0	0.311	-1	2.232	0	7.172	1	1733	41	1.2

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43351.5	10000	41.7228	92.6015	-398	QK	2.6	0	8.0	1	1.1	0	0.322	0	2.309	0	7.160	1	1750	50	1.2
43351.6	10000	41.7228	92.6007	-394	QK	2.5	0	8.0	1	1.2	1	0.312	-1	2.115	0	6.778	0	1768	48	1.2
43351.7	10000	41.7227	92.5999	-389	QK	2.5	0	7.6	1	1.2	0	0.335	0	2.182	0	6.520	0	1777	50	1.2
43351.8	10000	41.7227	92.5990	-385	QK	2.3	0	7.8	1	1.2	1	0.297	-1	1.897	-1	6.384	0	1790	38	1.2
43351.9	10000	41.7227	92.5982	-380	QK	2.1	-1	7.7	1	1.2	1	0.266	-1	1.689	-1	6.339	0	1787	44	1.2
43352.0	10000	41.7227	92.5973	-375	QK	2.3	-1	8.0	1	1.2	0	0.281	-1	1.923	-1	6.833	0	1785	46	1.2
43352.1	10000	41.7226	92.5965	-370	QK	2.2	-1	7.8	1	1.2	0	0.281	-1	1.874	-1	6.677	0	1787	58	1.2
43352.2	10000	41.7226	92.5956	-363	QK	2.0	-1	7.9	1	1.2	0	0.254	-1	1.748	-1	6.894	1	1787	40	1.2
43352.3	10000	41.7226	92.5948	-358	QK	2.2	-1	7.8	1	1.2	0	0.285	-1	1.916	-1	6.717	0	1805	38	1.2
43352.4	10000	41.7226	92.5939	-352	QK	2.2	-1	8.0	1	1.2	0	0.280	-1	1.951	-1	6.957	1	1808	58	1.2
43352.5	10000	41.7225	92.5931	-346	QK	2.4	0	8.0	1	1.1	0	0.298	-1	2.112	0	7.076	1	1802	46	1.2
43352.6	10000	41.7225	92.5922	-340	QK	2.7	0	8.0	1	1.2	0	0.341	0	2.351	0	6.903	1	1805	43	1.2
43352.7	10000	41.7225	92.5914	-335	QK	2.5	0	7.6	1	1.2	0	0.326	0	2.115	0	6.488	0	1804	32	1.2
43352.8	10000	41.7225	92.5905	-328	QK	2.5	0	7.7	1	1.2	1	0.320	0	2.034	0	6.357	0	1793	40	1.2
43352.9	10000	41.7224	92.5897	-321	QK	2.6	0	7.4	1	1.2	1	0.352	0	2.110	0	5.990	-1	1779	34	1.2
43353.0	10000	41.7224	92.5889	-314	QK	2.5	0	7.2	1	1.2	1	0.345	0	2.092	0	6.064	-1	1752	42	1.2
43353.1	10000	41.7224	92.5880	-305	QK	2.5	0	7.3	1	1.2	0	0.340	0	2.118	0	6.222	0	1747	43	1.2
43353.2	10000	41.7224	92.5872	-298	QK	2.3	0	7.0	0	1.1	0	0.331	0	2.102	0	6.356	0	1718	41	1.1
43353.3	10000	41.7223	92.5863	-292	QK	2.3	0	7.2	0	1.1	0	0.316	0	2.040	0	6.460	0	1702	59	1.1
43353.4	10000	41.7223	92.5855	-285	QK	2.2	-1	6.9	0	1.1	0	0.314	-1	1.892	-1	6.033	-1	1667	50	1.1
43353.5	10000	41.7223	92.5846	-277	QK	2.1	-1	7.3	0	1.1	0	0.287	-1	1.871	-1	6.520	0	1656	47	1.1
43353.6	10000	41.7223	92.5838	-268	QK	2.1	-1	7.2	0	1.1	0	0.296	-1	1.962	-1	6.634	0	1656	54	1.1
43353.7	10000	41.7222	92.5829	-258	QK	2.0	-1	7.3	0	1.1	0	0.282	-1	1.837	-1	6.519	0	1665	45	1.1
43353.8	10000	41.7222	92.5821	-249	QK	2.0	-1	7.1	0	1.1	0	0.282	-1	1.751	-1	6.211	0	1660	38	1.1
43353.9	10000	41.7222	92.5812	-239	QK	2.1	-1	7.0	0	1.2	1	0.303	-1	1.804	-1	5.957	-1	1664	52	1.1
43354.0	10000	41.7222	92.5804	-230	QK	2.2	-1	7.1	0	1.2	0	0.315	-1	1.925	-1	6.118	-1	1680	45	1.1
43354.1	10000	41.7221	92.5796	-220	QK	2.3	-1	7.3	0	1.1	1	0.323	-1	2.071	-1	6.409	0	1717	43	1.1
43354.2	10000	41.7221	92.5787	-210	QK	2.6	-1	7.1	0	1.1	0	0.361	0	2.277	0	6.313	0	1738	56	1.1
43354.3	10000	41.7221	92.5779	-199	QK	2.7	-1	6.8	0	1.1	0	0.390	0	2.422	0	6.206	0	1744	42	1.1
43354.4	10000	41.7221	92.5770	-189	QK	2.7	-1	7.0	0	1.1	0	0.388	0	2.598	0	6.702	0	1739	42	1.1
43354.5	10000	41.7220	92.5762	-179	QK	2.8	-1	6.9	0	1.1	0	0.401	0	2.749	0	6.859	1	1731	54	1.1
43354.6	10000	41.7220	92.5753	-168	QK	2.9	-1	6.9	0	1.1	0	0.445	0	3.122	0	7.010	1	1746	47	1.1
43354.7	10000	41.7220	92.5745	-159	QK	2.8	-1	6.7	0	1.1	0	0.430	0	3.027	0	7.043	1	1745	50	1.1
43354.8	10000	41.7220	92.5736	-149	QK	2.7	-1	6.8	0	1.1	0	0.416	0	2.852	0	6.850	1	1737	45	1.1
43354.9	10000	41.7219	92.5728	-138	QK	2.6	-1	6.5	0	1.1	0	0.415	0	2.669	0	6.433	1	1729	38	1.1
43355.0	10000	41.7219	92.5719	-129	QK	2.5	-1	6.5	0	1.1	0	0.402	0	2.547	0	6.341	1	1734	39	1.1
43355.1	10000	41.7219	92.5711	-120	QK	2.4	0	6.8	0	1.1	0	0.372	0	2.325	0	6.244	1	1733	43	1.0
43355.2	10000	41.7219	92.5703	-110	QK	2.4	0	6.3	0	1.1	0	0.329	0	2.087	0	6.333	1	1765	53	1.0
43355.3	10000	41.7218	92.5694	-101	QK	2.3	0	7.5	1	1.2	0	0.262	-1	1.613	-1	6.165	1	1774	48	1.0
43355.4	10000	41.7218	92.5686	-92	QK	2.2	0	7.7	1	1.2	0	0.274	-1	1.691	-1	6.174	1	1775	43	1.0
43355.5	10000	41.7218	92.5677	-83	QK	2.2	0	7.9	1	1.2	0	0.291	-1	1.869	-1	6.422	1	1772	47	1.0
43355.6	10000	41.7217	92.5669	-73	QK	2.1	0	8.2	1	1.3	0	0.283	-1	1.867	-1	6.602	1	1778	55	1.0
43355.7	10000	41.7217	92.5660	-64	QK	2.1	0	8.4	1	1.3	0	0.262	-1	1.649	-1	6.294	0	1789	44	1.0
43355.8	10000	41.7217	92.5652	-55	QK	2.2	0	8.8	1	1.3	0	0.309	-1	1.787	-1	5.789	-1	1805	44	1.0
43355.9	10000	41.7217	92.5643	-47	QK	2.4	0	8.7	1	1.3	0	0.334	-1	1.927	-1	5.775	-1	1807	55	1.0
43356.0	10000	41.7216	92.5635	-39	QK	2.6	0	8.8	1	1.3	0	0.362	-1	2.129	-1	5.884	-1	1814	44	1.0
43356.1	10000	41.7216	92.5626	-31	QK	2.8	0	8.6	1	1.3	0	0.394	-1	2.335	-1	5.676	-2	1799	56	1.0
43356.2	10000	41.7216	92.5618	-24	QK	2.9	0	8.8	1	1.3	0	0.396	-1	2.138	-1	5.399	-2	1802	40	1.0
43356.3	10000	41.7216	92.5609	-18	QK	3.0	0	8.6	1	1.3	0	0.372	-1	2.016	-2	5.418	-1	1789	50	1.0
43356.4	10000	41.7215	92.5601	-11	QK	2.9	0	8.4	1	1.3	0	0.381	-1	2.272	-1	5.969	-1	1788	44	1.0
43356.5	10000	41.7215	92.5592	-5	QK	2.8	0	8.2	1	1.3	0	0.341	-1	2.124	0	6.222	0	1772	36	1.0
43356.6	10000	41.7215	92.5584	0	QK	2.6	0	7.9	1	1.2	0	0.382	0	2.328	0	6.088	-1	1755	50	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43356.7	10000	41.7215	92.5576	6	QK	2.7	0	6.9	0	1.1	0	0.391	1	2.429	0	6.217	0	1747	55	1.0
43356.8	10000	41.7214	92.5567	11	QK	2.6	0	7.3	0	1.1	0	0.354	0	2.284	0	6.457	0	1766	47	1.0
43356.9	10000	41.7214	92.5559	16	QK	2.6	0	7.6	0	1.1	0	0.342	0	2.295	0	6.704	0	1771	52	0.9
43357.0	10000	41.7214	92.5550	21	QK	2.9	1	7.5	0	1.1	0	0.386	0	2.616	1	6.777	0	1785	48	0.9
43357.1	10000	41.7214	92.5542	25	QK	2.9	1	7.1	0	1.1	0	0.402	1	2.543	1	6.332	0	1769	46	0.9
43357.2	10000	41.7213	92.5533	29	QK	3.0	1	7.3	0	1.2	1	0.404	1	2.503	0	6.196	0	1784	41	0.9
43357.3	10000	41.7213	92.5525	33	QK	2.7	0	7.3	0	1.2	1	0.372	0	2.277	0	6.114	-1	1793	57	0.9
43357.4	10000	41.7213	92.5516	38	QK	2.6	0	7.1	0	1.2	1	0.363	0	2.186	0	6.022	-1	1774	46	0.9
43357.5	10000	41.7213	92.5508	42	QK	2.5	0	6.9	0	1.2	1	0.371	0	2.109	0	5.681	-1	1769	32	0.9
43357.6	10000	41.7212	92.5500	46	QK	2.6	-1	6.6	0	1.2	1	0.394	1	2.232	0	5.672	-1	1765	40	0.9
43357.7	10000	41.7212	92.5491	51	QK	2.7	-1	6.5	1	1.2	1	0.408	1	2.242	0	5.493	-1	1766	43	0.9
43357.8	10000	41.7212	92.5483	54	QK	2.6	-1	6.6	1	1.2	1	0.391	1	2.149	0	5.497	-1	1778	56	0.9
43357.9	10000	41.7212	92.5474	57	QK	2.6	-1	6.5	0	1.2	1	0.400	1	2.242	0	5.603	-1	1775	48	0.9
43358.0	10000	41.7212	92.5466	61	QK	2.5	-1	6.5	1	1.2	1	0.392	1	2.121	0	5.415	-2	1760	54	0.9
43358.1	10000	41.7212	92.5457	64	QK	2.7	0	6.9	1	1.2	1	0.398	1	2.223	0	5.581	-1	1773	42	0.9
43358.2	10000	41.7212	92.5449	66	QK	2.7	0	7.1	1	1.2	1	0.374	0	2.244	0	5.996	-1	1777	58	0.9
43358.3	10000	41.7212	92.5440	69	QK	2.6	0	7.4	1	1.2	1	0.357	0	2.162	0	6.058	-1	1778	46	0.9
43358.4	10000	41.7212	92.5432	71	QK	2.4	0	7.9	1	1.2	1	0.298	-1	1.915	-1	6.417	0	1774	59	0.9
43358.5	10000	41.7212	92.5423	73	QK	2.4	0	7.9	1	1.2	1	0.304	-1	1.977	-1	6.506	0	1763	43	0.9
43358.6	10000	41.7212	92.5415	75	QK	2.6	0	7.8	1	1.2	0	0.339	0	2.230	0	6.586	0	1734	48	0.9
43358.7	10000	41.7212	92.5406	76	QK	2.8	0	7.9	1	1.2	0	0.350	0	2.358	0	6.742	0	1730	45	0.9
43358.8	10000	41.7212	92.5398	76	QK	2.8	0	7.4	1	1.2	0	0.375	0	2.361	0	6.300	0	1710	47	0.9
43358.9	10000	41.7212	92.5389	76	QK	2.8	1	7.6	1	1.2	1	0.362	0	2.307	0	6.373	0	1705	31	0.9
43359.0	10000	41.7213	92.5381	77	QK	2.7	1	7.6	1	1.2	1	0.357	0	2.241	0	6.278	0	1702	48	0.9
43359.1	10000	41.7213	92.5372	76	QK	2.8	1	7.3	1	1.2	1	0.379	0	2.285	0	6.031	-1	1708	51	0.8
43359.2	10000	41.7213	92.5364	77	QK	2.8	1	7.5	1	1.2	1	0.374	0	2.310	0	6.176	0	1707	39	0.8
43359.3	10000	41.7213	92.5356	76	QK	2.8	1	7.4	1	1.2	1	0.373	0	2.286	0	6.128	-1	1723	49	0.8
43359.4	10000	41.7213	92.5347	76	QK	2.8	1	7.5	1	1.2	1	0.361	0	2.279	0	6.305	0	1730	39	0.8
43359.5	10000	41.7213	92.5339	75	QK	2.5	1	7.3	1	1.1	1	0.319	0	2.139	0	6.698	0	1752	43	0.8
43359.6	10000	41.7213	92.5330	75	QK	2.7	1	7.3	1	1.1	1	0.348	0	2.235	0	6.417	0	1748	56	0.8
43359.7	10000	41.7213	92.5322	75	QK	2.8	1	7.3	1	1.1	1	0.371	0	2.380	0	6.420	0	1744	37	0.8
43359.8	10000	41.7213	92.5313	75	QK	2.8	1	7.0	1	1.1	1	0.403	1	2.504	0	6.218	0	1729	42	0.8
43359.9	10000	41.7213	92.5305	74	QK	2.8	1	7.2	1	1.1	1	0.403	1	2.545	0	6.321	0	1724	33	0.8
43360.0	10000	41.7213	92.5296	74	QK	2.5	1	7.4	1	1.1	1	0.352	0	2.261	0	6.421	0	1708	41	0.8
43360.1	10000	41.7213	92.5288	74	QK	2.7	1	7.3	1	1.1	1	0.362	0	2.463	0	6.804	0	1707	40	0.8
43360.2	10000	41.7213	92.5279	74	QK	2.8	1	7.5	1	1.1	1	0.366	0	2.491	0	6.812	0	1695	55	0.8
43360.3	10000	41.7213	92.5271	73	QK	2.5	1	7.4	1	1.1	1	0.344	0	2.406	0	6.989	0	1683	47	0.8
43360.4	10000	41.7213	92.5262	72	QK	2.4	1	7.5	1	1.0	1	0.324	0	2.338	0	7.208	0	1679	49	0.8
43360.5	10000	41.7213	92.5254	71	QK	2.6	1	7.5	1	1.1	1	0.341	0	2.495	0	7.310	0	1681	40	0.8
43360.6	10000	41.7213	92.5245	70	QK	2.8	1	7.4	1	1.1	1	0.359	0	2.629	0	7.328	0	1692	30	0.8
43360.7	10000	41.7213	92.5237	69	QK	2.8	1	7.3	1	1.1	0	0.395	0	2.757	0	6.987	0	1708	42	0.8
43360.8	10000	41.7214	92.5228	67	QK	2.9	1	6.6	1	1.1	0	0.441	0	2.830	0	6.412	0	1702	49	0.8
43360.9	10000	41.7214	92.5220	65	QK	2.9	1	6.5	1	1.1	0	0.473	0	3.000	0	6.344	0	1709	39	0.8
43361.0	10000	41.7214	92.5211	64	QK	2.9	1	6.4	1	1.1	0	0.500	0	3.118	0	6.233	0	1724	52	0.8
43361.1	10000	41.7214	92.5203	62	QK	2.9	1	6.5	1	1.1	0	0.506	0	3.128	0	6.180	0	1748	41	0.8
43361.2	10000	41.7214	92.5195	61	QK	2.9	1	6.6	1	1.1	0	0.488	0	3.023	0	6.196	0	1770	40	0.8
43361.3	10000	41.7214	92.5186	60	QK	2.9	1	6.7	1	1.1	0	0.446	0	2.903	0	6.502	0	1779	58	0.8
43361.4	10000	41.7214	92.5177	58	QK	2.9	1	6.8	1	1.1	0	0.421	0	2.886	0	6.862	0	1799	40	0.8
43361.5	10000	41.7214	92.5169	57	QK	2.9	1	6.8	1	1.1	0	0.373	0	2.767	0	7.415	1	1813	54	0.8
43361.6	10000	41.7214	92.5161	56	QK	2.9	1	6.8	1	1.1	0	0.357	0	2.582	0	7.228	1	1805	44	0.8
43361.7	10000	41.7214	92.5152	54	QK	2.9	1	6.8	1	1.1	0	0.361	0	2.577	0	7.147	1	1804	44	0.8
43361.8	10000	41.7214	92.5144	54	QK	2.8	1	6.8	1	1.2	0	0.342	0	2.391	0	6.986	1	1796	54	0.9

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43361.9	10000	41.7214	92.5135	53	QK	2.6	0	8.4	2	1.1	0	0.312	-1	2.332	0	7.465	1	1777	51	0.9
43362.0	10000	41.7214	92.5127	53	QK	2.5	0	8.1	1	1.1	0	0.309	-1	2.213	0	7.171	1	1770	38	0.9
43362.1	10000	41.7214	92.5118	53	QK	2.5	0	8.0	1	1.1	0	0.316	0	2.215	0	7.010	1	1763	57	0.9
43362.2	10000	41.7214	92.5110	53	QK	2.7	0	7.7	1	1.2	0	0.351	0	2.325	0	6.630	0	1768	52	0.9
43362.3	10000	41.7214	92.5101	53	QK	3.0	1	7.8	1	1.2	1	0.381	0	2.483	0	6.521	0	1784	41	0.9
43362.4	10000	41.7214	92.5093	54	QK	3.0	1	7.7	1	1.2	0	0.389	1	2.588	1	6.647	0	1794	46	0.9
43362.5	10000	41.7214	92.5084	56	QK	3.2	2	7.4	1	1.1	0	0.442	1	2.852	1	6.451	0	1805	52	0.9
43362.6	10000	41.7215	92.5076	55	QK	3.3	2	7.3	1	1.2	1	0.451	1	2.739	1	6.077	-1	1823	31	0.9
43362.7	10000	41.7215	92.5067	55	QK	3.3	2	7.2	1	1.2	1	0.454	1	2.722	1	5.992	-1	1832	42	0.9
43362.8	10000	41.7215	92.5059	55	QK	3.1	2	7.5	1	1.2	0	0.417	1	2.603	1	6.242	0	1837	35	0.9
43362.9	10000	41.7215	92.5050	55	QK	3.0	1	7.7	1	1.2	1	0.396	1	2.615	1	6.609	0	1831	48	0.9
43363.0	10000	41.7215	92.5042	54	QK	2.8	1	7.9	1	1.2	1	0.351	0	2.336	0	6.645	0	1833	57	0.9
43363.1	10000	41.7215	92.5033	53	QK	2.6	1	7.8	1	1.2	1	0.328	0	2.110	0	6.436	0	1820	42	0.9
43363.2	10000	41.7215	92.5025	51	QK	2.5	0	8.1	1	1.2	0	0.306	-1	2.039	0	6.671	0	1807	46	1.0
43363.3	10000	41.7215	92.5016	49	QK	2.6	0	7.9	1	1.2	1	0.321	0	2.166	0	6.738	0	1805	37	1.0
43363.4	10000	41.7215	92.5008	46	QK	2.5	0	7.7	1	1.2	1	0.317	0	2.047	0	6.449	0	1789	44	1.0
43363.5	10000	41.7215	92.5000	44	QK	2.6	0	7.3	1	1.2	1	0.358	0	2.179	0	6.090	-1	1774	54	1.0
43363.6	10000	41.7215	92.4991	41	QK	2.5	0	7.1	0	1.2	1	0.346	0	2.051	0	5.935	-1	1773	48	1.0
43363.7	10000	41.7215	92.4983	37	QK	2.4	0	7.0	0	1.2	1	0.348	0	2.064	0	5.924	-1	1761	24	1.0
43363.8	10000	41.7215	92.4974	34	QK	2.3	0	6.8	-1	1.2	1	0.344	-1	1.957	-1	5.682	-1	1759	46	1.0
43363.9	10000	41.7215	92.4966	31	QK	2.3	0	6.7	-1	1.2	1	0.345	-1	1.974	-1	5.718	-1	1739	60	1.0
43364.0	10000	41.7215	92.4957	26	QK	2.2	-1	6.7	-1	1.2	0	0.335	-1	1.912	-1	5.707	-1	1711	54	1.0
43364.1	10000	41.7215	92.4949	22	QK	2.2	0	6.6	-1	1.1	0	0.378	0	2.265	0	5.997	-1	1717	49	1.0
43364.2	10000	41.7215	92.4940	18	QK	2.2	0	6.7	-1	1.1	0	0.394	1	2.442	1	6.201	0	1722	36	1.0
43364.3	10000	41.7215	92.4932	13	QK	2.2	0	6.3	-1	1.1	0	0.406	1	2.348	0	5.785	-1	1703	52	1.0
43364.4	10000	41.7215	92.4923	9	QK	2.2	0	6.2	-1	1.1	-1	0.455	1	2.644	1	5.814	-1	1702	30	1.0
43364.5	10000	41.7215	92.4915	5	QK	2.2	0	6.5	-1	1.1	-1	0.477	2	2.937	1	6.153	0	1710	32	1.1
43364.6	10000	41.7215	92.4906	1	QK	2.2	0	6.5	-1	1.0	-1	0.486	2	3.027	2	6.226	0	1724	44	1.1
43364.7	10000	41.7216	92.4898	-3	QK	2.3	1	6.4	-1	1.1	-1	0.520	2	3.202	2	6.163	0	1731	50	1.1
43364.8	10000	41.7216	92.4889	-6	QK	2.2	1	6.6	-1	1.1	-1	0.471	2	2.964	1	5.288	0	1725	39	1.1
43364.9	10000	41.7216	92.4881	-9	QK	2.2	1	6.8	-1	1.1	-1	0.424	2	2.702	1	6.366	0	1720	46	1.1
43365.0	10000	41.7216	92.4872	-12	QK	2.2	1	7.1	-1	1.1	-1	0.410	2	2.756	1	6.719	0	1737	43	1.1
43365.1	10000	41.7216	92.4864	-14	QK	2.2	1	7.4	-1	1.1	-1	0.402	2	2.759	1	6.863	0	1741	60	1.1
43365.2	10000	41.7216	92.4855	-16	QK	2.2	1	7.4	-1	1.1	-1	0.385	2	2.609	1	6.782	0	1742	46	1.1
43365.3	10000	41.7216	92.4847	-18	QK	2.2	0	7.5	-1	1.1	-1	0.349	2	2.288	1	6.561	0	1748	50	1.1
43365.4	10000	41.7216	92.4839	-20	QK	2.2	0	7.9	-1	1.1	-1	0.316	2	2.182	1	6.896	0	1744	43	1.1
43365.5	10000	41.7216	92.4830	-22	QK	2.3	0	7.9	-1	1.1	-1	0.323	2	2.239	1	6.925	0	1760	43	1.1
43365.6	10000	41.7216	92.4822	-24	QK	2.5	0	7.5	-1	1.1	-1	0.338	2	2.216	1	6.551	0	1760	50	1.2
43365.7	10000	41.7216	92.4813	-25	QK	2.6	0	7.3	-1	1.2	-1	0.363	2	2.260	1	6.233	0	1754	49	1.2
43365.8	10000	41.7216	92.4805	-27	QK	2.5	0	7.7	-1	1.1	-1	0.294	2	2.052	1	6.911	1	1744	38	1.2
43365.9	10000	41.7216	92.4796	-29	QK	2.2	-1	7.8	-1	1.1	-1	0.288	2	2.112	1	7.324	1	1740	56	1.2
43366.0	10000	41.7216	92.4788	-32	QK	2.1	-1	7.8	-1	1.0	-1	0.286	2	2.113	1	7.394	1	1737	55	1.2
43366.1	10000	41.7216	92.4779	-35	QK	2.2	-1	7.6	-1	1.1	-1	0.270	2	1.994	-1	7.387	1	1726	44	1.2
43366.2	10000	41.7216	92.4771	-39	QK	2.2	-1	7.3	-1	1.1	-1	0.298	2	2.115	0	7.101	1	1713	44	1.2
43366.3	10000	41.7216	92.4762	-42	QK	2.2	-1	7.4	-1	1.1	-1	0.289	2	2.086	0	7.220	1	1713	55	1.2
43366.4	10000	41.7216	92.4754	-45	QK	2.2	-1	7.4	-1	1.1	-1	0.295	2	2.165	1	7.340	1	1716	38	1.2
43366.5	10000	41.7216	92.4745	-49	QK	2.2	-1	6.8	-1	1.1	-1	0.330	2	2.069	0	6.277	0	1726	40	1.2
43366.6	10000	41.7217	92.4737	-52	QK	2.2	-1	6.5	-1	1.1	-1	0.326	2	2.009	-1	6.155	0	1729	46	1.2
43366.7	10000	41.7217	92.4728	-56	QK	2.3	-1	6.3	-1	1.1	-1	0.368	2	2.140	0	5.813	-1	1738	43	1.2
43366.8	10000	41.7217	92.4720	-61	QK	2.3	-1	6.6	-1	1.1	-1	0.347	2	2.136	-1	5.520	-1	1756	39	1.2
43366.9	10000	41.7217	92.4711	-64	QK	2.3	-1	6.6	-1	1.2	-1	0.364	2	1.956	-1	5.644	-1	1772	51	1.3
43367.0	10000	41.7217	92.4703	-68	QK	2.4	-1	6.6	-1	1.2	1	0.364	2	1.989	-1	5.457	-1	1788	49	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43367.1	10000	41.7217	92.4695	-73	QK	2.4	0	6.5	-1	1.2	1	0.368	0	1.939	-1	5.266	-2	1794	45	1.3
43367.2	10000	41.7217	92.4686	-77	QK	2.5	0	6.4	-1	1.2	1	0.397	1	2.127	0	5.363	-2	1789	41	1.3
43367.3	10000	41.7217	92.4678	-83	QK	2.7	0	6.3	-1	1.2	1	0.431	1	2.249	0	5.224	-2	1792	41	1.3
43367.4	10000	41.7217	92.4669	-90	QK	2.8	1	6.5	-1	1.2	0	0.438	1	2.413	0	5.513	-1	1768	41	1.3
43367.5	10000	41.7217	92.4661	-95	QK	3.1	1	6.3	-1	1.2	0	0.488	2	2.635	1	5.398	-2	1763	45	1.3
43367.6	10000	41.7217	92.4652	-102	QK	3.2	1	6.0	-2	1.2	0	0.534	3	2.778	1	5.201	-2	1749	46	1.3
43367.7	10000	41.7217	92.4644	-108	QK	3.2	1	6.1	-2	1.1	0	0.527	2	2.831	1	5.368	-2	1730	37	1.3
43367.8	10000	41.7217	92.4635	-115	QK	3.1	1	6.2	-1	1.2	1	0.506	2	2.637	1	5.208	-2	1737	50	1.3
43367.9	10000	41.7217	92.4627	-122	QK	3.2	1	6.5	-1	1.3	1	0.486	2	2.532	1	5.210	-2	1745	44	1.3
43368.0	10000	41.7217	92.4618	-130	QK	3.2	1	6.6	-1	1.3	1	0.485	2	2.471	0	5.098	-2	1763	29	1.3
43368.1	10000	41.7217	92.4610	-137	QK	2.7	0	6.8	-1	1.3	2	0.403	1	2.049	0	5.077	-2	1794	53	1.3
43368.2	10000	41.7217	92.4601	-145	QK	2.6	0	6.9	0	1.3	2	0.375	0	1.935	-1	5.166	-2	1799	42	1.3
43368.3	10000	41.7217	92.4593	-153	QK	2.4	0	7.1	0	1.3	2	0.341	0	1.813	-1	5.324	-2	1796	50	1.3
43368.4	10000	41.7218	92.4584	-162	QK	2.5	0	7.3	0	1.3	2	0.341	0	1.924	-1	5.639	-1	1803	47	1.3
43368.5	10000	41.7218	92.4576	-170	QK	2.4	0	7.5	0	1.3	1	0.320	0	1.905	-1	5.958	-1	1795	40	1.3
43368.6	10000	41.7218	92.4567	-178	QK	2.4	0	7.4	0	1.2	1	0.321	0	1.949	-1	6.073	-1	1787	49	1.3
43368.7	10000	41.7218	92.4559	-186	QK	2.2	-1	7.2	0	1.2	1	0.307	-1	1.866	-1	6.077	-1	1742	43	1.3
43368.8	10000	41.7218	92.4550	-194	QK	2.4	0	7.2	0	1.1	0	0.339	0	2.136	0	6.296	0	1718	38	1.3
43368.9	10000	41.7218	92.4542	-202	QK	2.4	0	7.0	0	1.1	0	0.338	0	2.077	0	6.138	0	1699	51	1.4
43369.0	10000	41.7218	92.4534	-211	QK	2.5	0	6.8	-1	1.1	0	0.373	0	2.287	0	6.138	0	1687	34	1.4
43369.1	10000	41.7218	92.4525	-219	QK	2.5	0	6.5	-1	1.1	0	0.376	0	2.236	0	5.952	-1	1656	37	1.4
43369.2	10000	41.7218	92.4517	-226	QK	2.5	0	6.4	-1	1.1	0	0.388	1	2.289	0	5.899	-1	1629	46	1.4
43369.3	10000	41.7218	92.4508	-235	QK	2.2	-1	6.7	-1	1.1	0	0.335	0	2.014	-1	6.010	-1	1609	42	1.4
43369.4	10000	41.7218	92.4500	-242	QK	2.1	-1	6.8	-1	1.1	-1	0.315	-1	2.042	0	6.485	0	1622	51	1.4
43369.5	10000	41.7218	92.4491	-249	QK	2.2	-1	6.7	-1	1.0	-1	0.331	0	2.140	0	6.460	0	1621	46	1.4
43369.6	10000	41.7218	92.4483	-255	QK	2.3	0	6.7	-1	1.0	-1	0.341	0	2.193	0	6.423	0	1614	54	1.4
43369.7	10000	41.7218	92.4474	-261	QK	2.2	-1	6.7	-1	1.1	-1	0.322	0	2.049	0	6.374	0	1610	53	1.4
43369.8	10000	41.7218	92.4466	-270	QK	2.2	-1	6.5	-1	1.0	-1	0.342	0	2.117	0	6.183	0	1611	38	1.4
43369.9	10000	41.7218	92.4457	-280	QK	2.1	-1	6.6	-1	1.0	-1	0.317	0	2.078	0	6.553	0	1609	51	1.4
43370.0	10000	41.7218	92.4449	-288	QK	2.5	0	6.3	-1	1.0	-1	0.390	1	2.568	1	6.592	0	1604	46	1.4
43370.1	10000	41.7218	92.4440	-296	QK	2.5	0	6.0	-2	1.0	-1	0.412	1	2.533	1	6.142	0	1599	48	1.4
43370.2	10000	41.7218	92.4432	-303	QK	2.6	0	6.4	-1	1.0	-1	0.403	1	2.630	1	6.520	0	1598	47	1.4
43370.3	10000	41.7218	92.4423	-309	QK	2.6	0	6.3	-1	0.9	-2	0.412	1	2.765	1	6.717	0	1603	56	1.4
43370.4	10000	41.7218	92.4415	-315	QK	2.5	0	6.3	-1	0.9	-1	0.400	1	2.667	1	6.664	0	1611	56	1.4
43370.5	10000	41.7218	92.4406	-319	QK	2.2	-1	6.8	-1	0.9	-1	0.323	0	2.305	1	7.127	0	1608	48	1.4
43370.6	10000	41.7218	92.4398	-321	QK	2.2	-1	6.7	-1	1.0	-1	0.332	0	2.241	0	6.760	0	1620	49	1.4
43370.7	10000	41.7219	92.4389	-323	QK	2.0	-1	7.2	0	1.0	-1	0.277	-1	1.976	-1	7.142	0	1629	46	1.4
43370.8	10000	41.7219	92.4381	-331	QK	1.9	-1	7.6	0	1.0	-1	0.248	-1	1.869	-1	7.532	1	1642	55	1.4
43370.9	10000	41.7219	92.4373	-337	QK	1.8	-1	7.2	0	1.0	-1	0.251	-1	1.751	-1	6.987	1	1640	44	1.4
43371.0	10000	41.7219	92.4364	-341	QK	1.7	-2	7.3	0	1.1	-1	0.231	-2	1.608	-1	6.963	1	1664	61	1.4
43371.1	10000	41.7219	92.4355	-343	QK	1.7	-2	7.5	0	1.1	0	0.232	-2	1.618	-1	6.979	1	1691	49	1.4
43371.2	10000	41.7219	92.4347	-345	QK	1.9	-1	7.4	0	1.1	0	0.258	-1	1.737	-1	6.735	0	1723	44	1.4
43371.3	10000	41.7219	92.4339	-347	QK	2.1	-1	7.6	1	1.1	0	0.279	-1	1.958	-1	7.019	1	1736	40	1.4
43371.4	10000	41.7219	92.4330	-348	QK	2.3	-1	7.1	0	1.1	0	0.320	0	2.021	-1	6.321	0	1732	62	1.4
43371.5	10000	41.7219	92.4322	-349	QK	2.3	0	6.7	-1	1.1	0	0.348	0	2.055	-1	6.029	-1	1717	52	1.4
43371.6	10000	41.7219	92.4313	-350	QK	2.2	-1	6.9	-1	1.1	0	0.320	0	1.959	-1	6.113	-1	1724	48	1.4
43371.7	10000	41.7219	92.4305	-350	QK	2.3	0	7.2	0	1.1	0	0.322	0	2.095	-1	6.503	0	1721	48	1.4
43371.8	10000	41.7219	92.4296	-350	QK	2.2	-1	7.0	0	1.1	0	0.317	0	1.981	-1	6.248	0	1712	41	1.4
43371.9	10000	41.7219	92.4288	-350	QK	2.3	0	6.8	-1	1.1	0	0.342	0	2.111	0	6.170	0	1707	41	1.4
43372.0	10000	41.7219	92.4279	-348	QK	2.3	0	6.8	-1	1.1	0	0.342	0	2.128	0	6.229	0	1708	58	1.4
43372.1	10000	41.7219	92.4271	-347	QK	2.2	-1	6.7	-1	1.1	0	0.334	0	2.030	0	6.079	-1	1726	45	1.4
43372.2	10000	41.7219	92.4262	-345	QK	2.3	0	7.0	0	1.2	0	0.327	0	1.988	-1	6.080	-1	1754	45	1.4

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43372.3	10000	41.7219	92.4254	-343	QK	2.5	0	7.1	0	1.1	0	0.353	0	2.231	0	6.315	0	1754	41	1.4
43372.4	10000	41.7219	92.4245	-341	QK	2.5	0	7.2	0	1.2	0	0.348	0	2.127	0	6.105	-1	1749	43	1.4
43372.5	10000	41.7219	92.4237	-338	QK	2.5	0	7.3	0	1.2	0	0.345	0	2.166	0	6.285	0	1734	52	1.4
43372.6	10000	41.7219	92.4228	-336	QK	2.3	0	7.6	0	1.2	0	0.307	-1	1.999	-1	6.519	0	1731	43	1.4
43372.7	10000	41.7220	92.4220	-333	QK	2.3	0	7.3	0	1.2	1	0.315	0	1.862	-1	5.908	-1	1751	42	1.4
43372.8	10000	41.7220	92.4211	-330	QK	2.3	-1	7.9	1	1.3	1	0.289	-1	1.808	-1	6.253	0	1757	39	1.4
43372.9	10000	41.7220	92.4203	-327	QK	2.3	-1	7.8	1	1.3	1	0.293	-1	1.803	-1	6.149	0	1751	43	1.4
43373.0	10000	41.7220	92.4194	-324	QK	2.1	-1	7.7	1	1.3	1	0.270	-1	1.622	-1	6.013	-1	1767	42	1.4
43373.1	10000	41.7220	92.4186	-322	QK	1.8	-1	7.1	0	1.3	1	0.256	-1	1.421	-2	5.547	-1	1764	47	1.4
43373.2	10000	41.7220	92.4178	-319	QK	1.9	-1	7.3	0	1.3	1	0.262	-1	1.491	-2	5.694	-1	1765	47	1.4
43373.3	10000	41.7220	92.4169	-317	QK	2.2	-1	6.8	-1	1.3	1	0.324	0	1.738	-1	5.361	-2	1750	53	1.4
43373.4	10000	41.7220	92.4161	-315	QK	1.9	-1	7.2	0	1.2	1	0.261	-1	1.520	-2	5.819	-1	1714	34	1.4
43373.5	10000	41.7220	92.4152	-313	QK	1.9	-1	6.9	0	1.2	0	0.278	-1	1.664	-1	5.977	-1	1699	46	1.4
43373.6	10000	41.7220	92.4144	-311	QK	1.8	-2	6.7	-1	1.1	0	0.269	-1	1.558	-1	5.800	-1	1682	44	1.4
43373.7	10000	41.7220	92.4135	-310	QK	2.0	-1	6.5	-1	1.1	0	0.303	-1	1.736	-1	5.723	-1	1656	49	1.4
43373.8	10000	41.7220	92.4127	-308	QK	2.3	0	6.8	-1	1.1	0	0.341	0	2.164	0	6.355	0	1642	47	1.4
43373.9	10000	41.7220	92.4118	-307	QK	2.2	-1	6.3	-1	1.1	0	0.350	0	2.050	0	5.865	-1	1633	44	1.4
43374.0	10000	41.7219	92.4110	-305	QK	1.9	-1	7.0	0	1.0	-1	0.271	-1	1.799	-1	6.641	0	1627	46	1.4
43374.1	10000	41.7219	92.4101	-304	QK	2.1	-1	6.5	-1	1.0	-1	0.319	0	2.048	0	6.418	0	1618	47	1.4
43374.2	10000	41.7219	92.4093	-302	QK	2.0	-1	6.6	-1	1.0	-1	0.305	-1	2.010	-1	6.594	0	1613	48	1.4
43374.3	10000	41.7219	92.4085	-301	QK	2.0	-1	6.5	-1	1.0	-1	0.311	-1	2.049	0	6.585	0	1610	41	1.4
43374.4	10000	41.7219	92.4076	-299	QK	1.9	-1	6.6	-1	1.0	-1	0.295	-1	1.958	-1	6.645	0	1611	31	1.4
43374.5	10000	41.7218	92.4068	-297	QK	1.7	-2	6.7	-1	1.0	-1	0.252	-1	1.610	-1	6.377	0	1601	48	1.4
43374.6	10000	41.7218	92.4059	-296	QK	1.8	-2	6.6	-1	1.0	-1	0.270	-1	1.759	-1	6.521	0	1588	51	1.4
43374.7	10000	41.7218	92.4051	-294	QK	2.0	-1	6.3	-1	1.1	0	0.311	-1	1.848	-1	5.936	-1	1594	42	1.4
43374.8	10000	41.7218	92.4042	-293	QK	1.9	-1	6.4	-1	1.1	0	0.306	-1	1.778	-1	5.819	-1	1611	43	1.4
43374.9	10000	41.7217	92.4034	-292	QK	2.0	-1	6.0	-2	1.1	0	0.339	0	1.869	-1	5.508	-1	1604	41	1.4
43375.0	10000	41.7217	92.4026	-291	QK	2.3	-1	6.2	-1	1.1	0	0.364	0	2.101	0	5.780	-1	1625	53	1.4
43375.1	10000	41.7217	92.4017	-290	QK	2.5	0	6.1	-2	1.1	0	0.404	1	2.281	0	5.652	-1	1641	42	1.4
43375.2	10000	41.7217	92.4009	-289	QK	2.6	0	6.0	-2	1.1	-1	0.433	1	2.449	0	5.651	-1	1663	55	1.4
43375.3	10000	41.7217	92.4000	-289	QK	2.6	0	6.2	-1	1.1	0	0.420	1	2.430	0	5.791	-1	1685	31	1.4
43375.4	10000	41.7216	92.3992	-288	QK	2.4	0	6.1	-2	1.1	0	0.394	1	2.252	0	5.720	-1	1687	48	1.4
43375.5	10000	41.7216	92.3983	-288	QK	2.6	0	6.1	-1	1.1	0	0.425	1	2.401	0	5.644	-1	1694	47	1.4
43375.6	10000	41.7216	92.3975	-289	QK	2.7	0	6.2	-1	1.1	0	0.434	1	2.403	0	5.535	-1	1710	53	1.4
43375.7	10000	41.7216	92.3966	-289	QK	2.7	0	6.2	-1	1.1	0	0.430	1	2.381	0	5.537	-1	1711	48	1.4
43375.8	10000	41.7215	92.3958	-291	QK	2.4	0	6.1	-1	1.2	0	0.387	1	2.046	0	5.282	-2	1714	47	1.4
43375.9	10000	41.7215	92.3950	-291	QK	2.6	0	6.1	-2	1.2	0	0.420	1	2.169	0	5.158	-2	1730	42	1.4
43376.0	10000	41.7215	92.3941	-293	QK	2.7	0	6.4	-1	1.2	0	0.423	1	2.310	0	5.458	-1	1736	43	1.4
43376.1	10000	41.7215	92.3933	-295	QK	2.9	1	6.2	-1	1.1	0	0.464	2	2.549	1	5.491	-1	1724	36	1.4
43376.2	10000	41.7215	92.3924	-297	QK	2.7	0	6.1	-2	1.1	0	0.448	1	2.550	1	5.693	-1	1682	52	1.4
43376.3	10000	41.7215	92.3916	-299	QK	2.6	0	6.3	-1	1.0	-1	0.409	1	2.462	0	6.025	-1	1666	49	1.4
43376.4	10000	41.7214	92.3907	-301	QK	2.4	0	6.3	-1	1.0	-1	0.389	1	2.378	0	6.120	-1	1645	34	1.4
43376.5	10000	41.7214	92.3899	-303	QK	2.5	0	6.5	-1	1.0	-1	0.376	1	2.541	1	6.764	0	1617	36	1.4
43376.6	10000	41.7214	92.3891	-306	QK	2.2	-1	6.6	-1	0.9	-2	0.338	0	2.423	0	7.178	1	1571	45	1.4
43376.7	10000	41.7214	92.3882	-310	QK	1.9	-1	6.2	-1	0.9	-2	0.309	-1	2.099	0	6.788	0	1525	56	1.4
43376.8	10000	41.7213	92.3874	-312	QK	1.7	-2	6.2	-1	0.9	-2	0.276	-1	1.876	-1	6.805	0	1507	50	1.4
43376.9	10000	41.7213	92.3865	-314	QK	1.8	-1	6.0	-2	0.9	-2	0.302	-1	1.990	-1	6.585	0	1512	40	1.4
43377.0	10000	41.7213	92.3857	-317	QK	1.7	-2	5.7	-2	0.9	-2	0.308	-1	1.890	-1	6.138	0	1498	48	1.4
43377.1	10000	41.7213	92.3848	-319	QK	1.8	-1	5.7	-2	0.9	-2	0.315	0	2.009	-1	6.375	0	1485	43	1.4
43377.2	10000	41.7212	92.3840	-322	QK	1.8	-2	5.7	-2	0.9	-2	0.319	0	1.926	-1	6.034	-1	1500	35	1.3
43377.3	10000	41.7212	92.3831	-324	QK	1.8	-2	5.7	-2	1.0	-1	0.308	-1	1.823	-1	5.916	-1	1531	50	1.3
43377.4	10000	41.7212	92.3823	-327	QK	1.9	-1	6.0	-2	1.0	-1	0.310	-1	1.897	-1	6.122	-1	1574	60	1.3

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43377.5	10000	41.7212	92.3815	-329	QK	2.0	-1	6.4	-1	1.0	-1	0.320	0	2.002	-1	6.264	0	1618	51	1.3
43377.6	10000	41.7212	92.3806	-331	QK	1.9	-1	7.0	0	1.1	0	0.275	-1	1.760	-1	6.397	0	1653	57	1.3
43377.7	10000	41.7211	92.3798	-333	QK	2.0	-1	7.2	0	1.1	0	0.277	-1	1.749	-1	6.315	0	1684	47	1.3
43377.8	10000	41.7211	92.3789	-336	QK	2.0	-1	7.1	0	1.2	1	0.288	-1	1.725	-1	5.980	-1	1706	43	1.3
43377.9	10000	41.7211	92.3781	-338	QK	2.0	-1	7.1	0	1.2	0	0.283	-1	1.722	-1	6.076	-1	1710	41	1.3
43378.0	10000	41.7211	92.3772	-339	QK	2.0	-1	7.0	0	1.1	0	0.285	-1	1.732	-1	6.075	-1	1711	58	1.3
43378.1	10000	41.7210	92.3764	-341	QK	1.9	-1	7.1	0	1.2	1	0.265	-1	1.550	-2	5.847	-1	1716	53	1.3
43378.2	10000	41.7210	92.3755	-342	QK	1.8	-1	6.7	-1	1.2	1	0.270	-1	1.454	-2	5.374	-2	1708	40	1.3
43378.3	10000	41.7210	92.3747	-344	QK	1.8	-2	6.9	0	1.2	1	0.255	-1	1.444	-2	5.668	-1	1709	49	1.3
43378.4	10000	41.7210	92.3739	-347	QK	1.9	-1	7.1	0	1.2	0	0.268	-1	1.636	-1	6.099	-1	1700	41	1.3
43378.5	10000	41.7210	92.3730	-347	QK	1.7	-2	7.1	0	1.2	1	0.245	-1	1.465	-2	5.988	-1	1705	51	1.3
43378.6	10000	41.7209	92.3722	-347	QK	1.9	-1	7.1	0	1.2	1	0.268	-1	1.564	-1	5.829	-1	1707	46	1.3
43378.7	10000	41.7209	92.3713	-348	QK	2.0	-1	7.1	0	1.2	1	0.287	-1	1.661	-1	5.792	-1	1708	41	1.3
43378.8	10000	41.7209	92.3705	-349	QK	2.3	0	6.7	-1	1.2	1	0.346	0	1.955	-1	5.647	-1	1700	39	1.3
43378.9	10000	41.7209	92.3696	-349	QK	2.5	0	6.8	-1	1.2	0	0.360	0	2.097	0	5.826	-1	1702	57	1.3
43379.0	10000	41.7209	92.3688	-350	QK	2.5	0	6.3	-1	1.2	1	0.388	1	2.072	0	5.344	-2	1713	48	1.3
43379.1	10000	41.7208	92.3680	-351	QK	2.5	0	6.3	-1	1.2	1	0.392	1	1.982	-1	5.054	-2	1727	37	1.3
43379.2	10000	41.7208	92.3671	-352	QK	2.5	0	6.4	-1	1.2	1	0.388	1	2.026	-1	5.221	-2	1726	50	1.3
43379.3	10000	41.7208	92.3663	-352	QK	2.5	0	6.3	-1	1.3	1	0.398	1	1.996	-1	5.012	-2	1721	66	1.3
43379.4	10000	41.7208	92.3654	-352	QK	2.4	0	6.7	-1	1.3	1	0.355	0	1.867	-1	5.263	-2	1706	49	1.3
43379.5	10000	41.7207	92.3646	-352	QK	2.1	-1	7.0	0	1.2	1	0.304	-1	1.742	-1	5.725	-1	1700	40	1.3
43379.6	10000	41.7207	92.3637	-353	QK	2.0	-1	7.1	0	1.2	1	0.285	-1	1.694	-1	5.937	-1	1687	47	1.3
43379.7	10000	41.7207	92.3629	-353	QK	2.1	-1	7.0	0	1.2	0	0.303	-1	1.825	-1	6.027	-1	1677	53	1.3
43379.8	10000	41.7207	92.3620	-353	QK	1.9	-1	7.2	0	1.1	0	0.263	-1	1.662	-1	6.322	0	1674	43	1.2
43379.9	10000	41.7207	92.3612	-354	QK	1.9	-1	7.2	0	1.2	1	0.259	-1	1.574	-1	6.079	-1	1689	57	1.2
43380.0	10000	41.7206	92.3604	-355	QK	1.8	-2	7.3	0	1.2	1	0.243	-1	1.540	-2	6.342	0	1690	49	1.2
43380.1	10000	41.7206	92.3595	-355	QK	1.8	-1	7.0	0	1.1	1	0.257	-1	1.587	-1	6.176	0	1679	32	1.2
43380.2	10000	41.7206	92.3587	-355	QK	2.0	-1	6.7	-1	1.1	1	0.301	-1	1.792	-1	5.958	-1	1667	56	1.2
43380.3	10000	41.7206	92.3578	-355	QK	2.2	-1	6.4	-1	1.1	1	0.338	0	1.894	-1	5.603	-1	1658	45	1.2
43380.4	10000	41.7205	92.3570	-356	QK	2.2	-1	6.3	-1	1.1	1	0.347	0	1.918	-1	5.522	-1	1650	47	1.2
43380.5	10000	41.7205	92.3561	-357	QK	2.4	-1	5.7	-2	1.1	1	0.413	1	2.091	0	5.062	-2	1651	48	1.2
43380.6	10000	41.7205	92.3553	-358	QK	2.5	-1	5.8	-2	1.1	1	0.425	1	2.207	0	5.190	-2	1640	51	1.2
43380.7	10000	41.7205	92.3544	-359	QK	2.5	-1	5.7	-2	1.1	1	0.436	1	2.177	0	4.997	-2	1636	43	1.2
43380.8	10000	41.7205	92.3536	-359	QK	2.5	-1	5.5	-2	1.1	1	0.457	1	2.154	0	4.716	-3	1655	49	1.2
43380.9	10000	41.7204	92.3528	-359	QK	2.4	-1	5.8	-2	1.2	1	0.409	1	1.987	-1	4.863	-2	1664	50	1.2
43381.0	10000	41.7204	92.3519	-360	QK	2.2	-1	6.8	-1	1.2	0	0.320	0	1.779	-1	5.559	-1	1698	43	1.2
43381.1	10000	41.7204	92.3511	-361	QK	2.2	-1	7.2	0	1.2	0	0.297	-1	1.827	-1	6.150	0	1705	40	1.2
43381.2	10000	41.7204	92.3502	-360	QK	2.2	-1	7.7	1	1.2	1	0.282	-1	1.819	-1	6.437	0	1695	52	1.2
43381.3	10000	41.7203	92.3494	-360	QK	2.1	-1	7.9	1	1.1	1	0.267	-1	1.833	-1	6.873	1	1680	48	1.1
43381.4	10000	41.7203	92.3485	-361	QK	2.2	-1	8.0	1	1.1	1	0.273	-1	1.946	-1	7.127	1	1672	34	1.1
43381.5	10000	41.7203	92.3477	-362	QK	2.2	-1	8.1	1	1.1	1	0.276	-1	2.069	0	7.503	1	1654	48	1.1
43381.6	10000	41.7203	92.3469	-363	QK	2.1	-1	8.0	1	1.0	-1	0.266	-1	2.034	0	7.659	2	1634	40	1.1
43381.7	10000	41.7203	92.3460	-363	QK	2.4	0	7.5	0	1.0	-1	0.320	-1	2.418	1	7.558	2	1596	49	1.1
43381.8	10000	41.7202	92.3452	-363	QK	2.6	0	7.1	0	1.0	-1	0.363	-1	2.556	1	7.047	1	1575	38	1.1
43381.9	10000	41.7202	92.3443	-363	QK	2.5	0	6.7	-1	1.0	-1	0.375	-1	2.623	1	6.995	1	1575	43	1.1
43382.0	10000	41.7202	92.3435	-362	QK	2.6	0	6.4	-1	1.0	-1	0.400	-1	2.652	1	6.635	0	1581	52	1.1
43382.1	10000	41.7202	92.3426	-361	QK	2.7	0	6.2	-1	1.0	-1	0.421	-1	2.726	1	6.467	0	1583	43	1.1
43382.2	10000	41.7202	92.3418	-359	QK	3.1	0	6.1	-1	1.0	-1	0.440	-1	2.709	1	6.159	0	1602	46	1.1
43382.3	10000	41.7201	92.3410	-356	QK	3.0	0	5.6	-2	1.0	-1	0.528	-1	3.172	2	6.005	-1	1617	40	1.1
43382.4	10000	41.7201	92.3401	-355	QK	2.7	0	5.8	-2	1.0	-1	0.532	-1	2.895	1	5.442	-1	1621	41	1.1
43382.5	10000	41.7201	92.3393	-354	QK	2.7	0	6.1	-1	1.0	-1	0.464	-1	2.585	1	5.573	-1	1623	41	1.1
43382.6	10000	41.7201	92.3384	-352	QK	2.7	0	6.1	-1	1.1	0	0.440	1	2.441	0	5.552	-1	1620	36	1.1

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43382.7	10000	41.7200	92.3376	-350	QK	2.6	0	6.0	-2	1.1	0	0.440	1	2.394	0	5.438	-1	1613	52	1.1
43382.8	10000	41.7200	92.3367	-349	QK	2.5	0	6.3	-1	1.1	0	0.393	1	2.306	0	5.869	-1	1620	49	1.1
43382.9	10000	41.7200	92.3359	-346	QK	2.5	0	6.9	0	1.1	0	0.357	0	2.271	0	6.364	0	1630	38	1.0
43383.0	10000	41.7200	92.3350	-344	QK	2.1	-1	7.4	0	1.1	0	0.278	-1	1.814	-1	6.531	0	1651	50	1.0
43383.1	10000	41.7200	92.3342	-342	QK	2.0	-1	7.9	1	1.2	0	0.255	-1	1.756	-1	6.898	1	1685	45	1.0
43383.2	10000	41.7199	92.3334	-340	QK	2.1	-1	8.1	1	1.2	1	0.260	-1	1.790	-1	6.895	1	1713	35	1.0
43383.3	10000	41.7199	92.3325	-338	QK	2.3	0	8.1	1	1.1	0	0.290	-1	2.042	0	7.051	1	1730	36	1.0
43383.4	10000	41.7199	92.3317	-336	QK	2.5	0	8.1	1	1.2	0	0.308	-1	2.163	0	7.019	1	1753	48	1.0
43383.5	10000	41.7199	92.3308	-334	QK	2.6	0	7.9	1	1.2	0	0.331	0	2.243	0	6.770	0	1783	45	1.0
43383.6	10000	41.7198	92.3300	-332	QK	2.5	0	7.3	0	1.1	0	0.342	0	2.210	0	6.459	0	1788	48	1.0
43383.7	10000	41.7198	92.3291	-331	QK	2.7	0	7.1	0	1.2	1	0.381	0	2.285	0	6.002	-1	1804	36	1.0
43383.8	10000	41.7198	92.3283	-330	QK	2.6	0	7.0	0	1.2	0	0.376	0	2.225	0	5.924	-1	1796	32	1.0
43383.9	10000	41.7198	92.3275	-328	QK	2.8	1	6.7	-1	1.2	1	0.417	1	2.316	0	5.549	-1	1797	52	1.0
43384.0	10000	41.7197	92.3266	-327	QK	2.7	0	7.0	0	1.2	1	0.389	1	2.214	0	5.687	-1	1801	53	1.0
43384.1	10000	41.7197	92.3258	-326	QK	2.6	0	7.1	0	1.3	1	0.370	0	2.052	0	5.551	-1	1809	35	1.0
43384.2	10000	41.7197	92.3249	-326	QK	2.5	0	7.3	0	1.3	2	0.344	0	1.911	-1	5.551	-1	1802	48	1.0
43384.3	10000	41.7197	92.3241	-325	QK	2.5	0	7.4	0	1.3	2	0.331	0	1.833	-1	5.536	-1	1793	52	1.0
43384.4	10000	41.7197	92.3232	-324	QK	2.4	0	7.7	1	1.3	2	0.305	-1	1.784	-1	5.851	-1	1777	44	1.0
43384.5	10000	41.7196	92.3224	-324	QK	2.4	0	7.6	1	1.3	2	0.311	-1	1.775	-1	5.705	-1	1775	40	1.0
43384.6	10000	41.7196	92.3215	-323	QK	2.3	-1	7.9	1	1.3	2	0.288	-1	1.698	-1	5.899	-1	1783	42	1.0
43384.7	10000	41.7196	92.3207	-323	QK	2.1	-1	7.8	1	1.3	2	0.273	-1	1.620	-1	5.940	-1	1772	39	1.0
43384.8	10000	41.7196	92.3199	-322	QK	2.2	-1	7.9	1	1.3	1	0.279	-1	1.697	-1	6.094	-1	1765	54	1.0
43384.9	10000	41.7196	92.3190	-321	QK	2.4	0	7.6	1	1.3	1	0.317	0	1.888	-1	5.959	-1	1754	48	1.0
43385.0	10000	41.7195	92.3182	-321	QK	2.7	0	7.4	1	1.2	1	0.369	0	2.198	0	5.954	-1	1747	46	1.0
43385.1	10000	41.7195	92.3173	-320	QK	3.0	1	7.0	1	1.2	1	0.430	1	2.502	0	5.813	-1	1740	43	1.0
43385.2	10000	41.7195	92.3165	-318	QK	3.1	1	7.1	0	1.2	1	0.439	1	2.686	1	6.115	-1	1729	33	1.0
43385.3	10000	41.7195	92.3156	-317	QK	3.0	1	6.9	0	1.1	0	0.441	1	2.863	1	6.486	0	1712	50	1.0
43385.4	10000	41.7194	92.3148	-316	QK	3.0	1	6.8	-1	1.0	-1	0.446	1	2.897	1	6.489	0	1698	40	1.0
43385.5	10000	41.7194	92.3139	-314	QK	3.0	1	7.1	0	1.1	-1	0.421	1	2.846	1	6.757	0	1703	43	1.0
43385.6	10000	41.7194	92.3131	-311	QK	2.7	1	7.3	0	1.1	0	0.372	1	2.557	1	6.864	1	1705	53	1.0
43385.7	10000	41.7194	92.3123	-308	QK	2.7	1	7.5	0	1.1	0	0.353	1	2.521	1	7.146	1	1708	30	1.0
43385.8	10000	41.7194	92.3114	-304	QK	2.5	1	7.9	1	1.1	-1	0.314	1	2.280	1	7.253	1	1716	43	1.0
43385.9	10000	41.7193	92.3106	-299	QK	2.4	1	7.7	0	1.1	0	0.317	1	2.294	1	7.241	1	1713	47	1.0
43386.0	10000	41.7193	92.3097	-294	QK	2.4	1	7.7	1	1.1	-1	0.309	1	2.124	0	6.870	1	1691	43	1.0
43386.1	10000	41.7193	92.3089	-288	QK	2.5	1	7.3	0	1.2	0	0.342	1	2.102	0	6.149	0	1691	42	1.0
43386.2	10000	41.7193	92.3080	-281	QK	2.6	1	6.9	0	1.2	0	0.381	1	2.263	0	5.942	-1	1675	43	1.0
43386.3	10000	41.7192	92.3072	-274	QK	2.6	1	7.0	0	1.1	0	0.368	1	2.293	0	6.228	0	1662	43	1.0
43386.4	10000	41.7192	92.3064	-267	QK	2.4	1	7.2	0	1.1	0	0.330	0	2.086	0	6.316	0	1652	41	1.0
43386.5	10000	41.7192	92.3055	-258	QK	2.2	0	6.9	0	1.1	0	0.323	0	1.999	-1	6.193	0	1641	36	1.0
43386.6	10000	41.7192	92.3047	-250	QK	2.3	0	6.9	0	1.2	0	0.332	0	1.951	-1	5.877	-1	1642	39	1.0
43386.7	10000	41.7192	92.3038	-242	QK	2.2	-1	7.0	0	1.2	-1	0.308	-1	1.834	-1	5.963	-1	1659	40	1.0
43386.8	10000	41.7191	92.3030	-234	QK	2.3	-1	7.4	0	1.1	-1	0.306	-1	2.024	-1	6.624	0	1660	55	1.0
43386.9	10000	41.7191	92.3021	-227	QK	2.2	-1	7.1	0	1.1	-1	0.308	-1	1.966	-1	6.376	0	1659	49	1.0
43387.0	10000	41.7191	92.3013	-220	QK	2.2	-1	7.2	0	1.2	-1	0.308	-1	1.873	-1	6.084	-1	1668	37	1.0
43387.1	10000	41.7191	92.3004	-214	QK	2.2	-1	6.9	-1	1.2	0	0.324	-1	1.926	-1	5.948	-1	1690	32	1.0
43387.2	10000	41.7190	92.2996	-212	QK	2.4	0	7.0	0	1.1	0	0.342	0	2.096	-1	6.122	-1	1680	46	1.0
43387.3	10000	41.7190	92.2988	-210	QK	2.2	0	7.3	0	1.1	-1	0.309	-1	1.987	-1	6.432	0	1691	49	1.0
43387.4	10000	41.7190	92.2979	-211	QK	2.4	0	7.3	0	1.1	0	0.325	0	2.173	0	6.692	0	1694	36	1.0
43387.5	10000	41.7190	92.2971	-213	QK	2.1	0	7.6	1	1.1	-1	0.277	-1	1.865	-1	6.730	0	1724	48	1.0
43387.6	10000	41.7189	92.2962	-217	QK	2.3	0	7.9	1	1.1	-1	0.294	-1	2.104	0	7.168	1	1732	47	1.0
43387.7	10000	41.7189	92.2954	-222	QK	2.4	0	7.7	1	1.1	-1	0.307	-1	2.194	0	7.152	1	1731	45	1.0
43387.8	10000	41.7189	92.2945	-229	QK	2.3	0	7.6	1	1.1	0	0.299	-1	2.084	0	6.974	1	1716	50	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKJT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43387.9	10000	41.7189	92.2937	-238	QK	2.4	0	7.5	0	1.1	0	0.318	0	2.129	0	6.692	0	1733	40	1.0
43388.0	10000	41.7189	92.2928	-248	QK	2.3	0	7.4	0	1.1	0	0.314	-1	2.081	0	6.618	0	1721	47	1.0
43388.1	10000	41.7188	92.2920	-261	QK	2.4	0	7.2	0	1.2	0	0.336	0	2.097	0	6.238	0	1718	45	1.0
43388.2	10000	41.7188	92.2912	-274	QK	2.6	0	6.5	-1	1.1	0	0.398	1	2.265	0	5.693	-1	1708	41	1.0
43388.3	10000	41.7188	92.2903	-290	QK	2.3	-1	6.6	-1	1.2	1	0.341	0	1.912	-1	5.603	-1	1725	58	1.0
43388.4	10000	41.7188	92.2895	-307	QK	2.3	0	6.7	-1	1.1	0	0.345	0	2.015	-1	5.834	-1	1721	52	1.0
43388.5	10000	41.7188	92.2886	-324	QK	2.3	0	6.9	0	1.1	0	0.337	0	2.058	0	6.105	-1	1735	53	1.0
43388.6	10000	41.7187	92.2878	-343	QK	2.2	-1	7.3	0	1.2	0	0.304	-1	1.874	-1	6.172	0	1747	42	1.0
43388.7	10000	41.7187	92.2869	-363	QK	2.3	0	7.2	0	1.2	0	0.324	0	1.996	-1	6.165	0	1759	43	1.0
43388.8	10000	41.7187	92.2861	-383	QK	2.4	0	7.3	0	1.2	1	0.326	0	2.014	-1	6.176	0	1770	45	1.0
43388.9	10000	41.7187	92.2853	-404	QK	2.4	0	7.6	0	1.2	1	0.318	0	1.953	-1	6.139	0	1776	54	1.0
43389.0	10000	41.7186	92.2844	-424	QK	2.6	0	7.5	0	1.3	1	0.344	0	2.048	0	5.953	-1	1767	48	1.0
43389.1	10000	41.7186	92.2836	-445	QK	2.6	0	7.7	0	1.3	2	0.338	0	1.972	-1	5.840	-1	1782	39	1.0
43389.2	10000	41.7186	92.2827	-465	QK	2.6	0	7.6	0	1.3	2	0.343	0	1.933	-1	5.629	-1	1774	34	1.0
43389.3	10000	41.7186	92.2819	-484	QK	2.7	0	7.4	0	1.3	1	0.361	0	2.072	0	5.738	-1	1759	57	1.0
43389.4	10000	41.7185	92.2810	-502	QK	2.6	0	7.2	0	1.3	1	0.367	0	2.075	0	5.655	-1	1748	48	1.0
43389.5	10000	41.7185	92.2802	-519	QK	2.6	0	7.0	0	1.3	1	0.366	0	2.005	-1	5.483	-1	1729	43	1.0
43389.6	10000	41.7185	92.2794	-535	QK	2.4	0	7.0	0	1.2	1	0.342	0	2.017	-1	5.901	-1	1706	50	1.0
43389.7	10000	41.7185	92.2785	-550	QK	2.4	0	7.0	0	1.1	0	0.340	0	2.109	0	6.196	0	1692	43	1.0
43389.8	10000	41.7185	92.2777	-564	QK	2.4	0	7.0	0	1.0	-1	0.347	0	2.333	0	6.726	0	1671	41	1.0
43389.9	10000	41.7184	92.2768	-576	QK	2.3	0	6.8	-1	1.0	-1	0.338	0	2.319	0	6.864	1	1671	59	1.0
43390.0	10000	41.7184	92.2760	-586	QK	2.4	0	6.7	-1	1.0	-1	0.354	0	2.363	0	6.672	0	1663	50	1.0
43390.1	10000	41.7184	92.2751	-596	QK	2.5	0	6.9	0	1.0	-1	0.370	0	2.511	1	6.785	0	1661	41	1.0
43390.2	10000	41.7184	92.2743	-603	QK	2.7	0	6.7	-1	1.0	-1	0.397	1	2.641	1	6.651	0	1674	41	1.0
43390.3	10000	41.7183	92.2735	-609	QK	2.7	0	6.7	-1	1.0	-1	0.403	1	2.606	1	6.474	0	1677	57	1.0
43390.4	10000	41.7183	92.2726	-614	QK	2.6	0	6.7	-1	1.0	-1	0.388	1	2.488	0	6.420	0	1674	55	1.0
43390.5	10000	41.7183	92.2718	-620	QK	2.6	0	6.3	-1	1.1	0	0.415	1	2.399	0	5.781	-1	1691	47	1.0
43390.6	10000	41.7183	92.2709	-624	QK	2.8	0	6.5	-1	1.1	0	0.426	1	2.450	0	5.753	-1	1693	42	1.0
43390.7	10000	41.7183	92.2701	-627	QK	2.7	0	6.5	-1	1.1	0	0.424	1	2.390	0	5.640	-1	1712	42	1.0
43390.8	10000	41.7182	92.2692	-630	QK	2.6	0	6.6	-1	1.1	0	0.396	1	2.293	0	5.794	-1	1728	52	1.0
43390.9	10000	41.7182	92.2684	-633	QK	2.5	0	6.9	0	1.1	0	0.361	1	2.204	0	6.100	-1	1736	46	1.0
43391.0	10000	41.7182	92.2675	-635	QK	2.4	0	7.0	0	1.2	0	0.342	0	2.071	0	6.048	-1	1756	41	1.0
43391.1	10000	41.7182	92.2667	-635	QK	2.4	0	7.0	0	1.2	0	0.341	0	2.065	0	6.063	-1	1771	32	1.0
43391.2	10000	41.7181	92.2659	-635	QK	2.4	0	7.3	0	1.2	0	0.322	-1	2.019	-1	6.265	0	1779	43	1.0
43391.3	10000	41.7181	92.2650	-637	QK	2.4	0	7.2	0	1.2	0	0.335	-1	1.971	-1	5.885	-1	1792	39	1.1
43391.4	10000	41.7181	92.2642	-638	QK	2.4	0	7.4	0	1.2	0	0.318	-1	1.918	-1	6.025	-1	1788	40	1.1
43391.5	10000	41.7181	92.2633	-638	QK	2.4	0	7.1	1	1.2	1	0.331	-1	1.882	-1	5.679	-1	1784	41	1.1
43391.6	10000	41.7181	92.2625	-639	QK	2.5	0	6.8	1	1.3	1	0.367	-1	1.992	-1	5.422	-2	1784	39	1.1
43391.7	10000	41.7181	92.2616	-640	QK	2.5	0	6.9	1	1.3	1	0.362	-1	1.964	-1	5.422	-2	1780	45	1.1
43391.8	10000	41.7181	92.2608	-642	QK	2.7	0	7.1	1	1.3	1	0.376	0	2.073	0	5.512	-1	1778	38	1.1
43391.9	10000	41.7181	92.2599	-643	QK	2.4	0	7.2	1	1.3	2	0.341	-1	1.850	-1	5.419	-2	1783	42	1.0
43392.0	10000	41.7181	92.2591	-644	QK	2.2	-1	7.1	1	1.3	2	0.315	-1	1.749	-1	5.555	-1	1771	42	1.0
43392.1	10000	41.7181	92.2582	-645	QK	2.1	-1	7.3	1	1.3	2	0.283	-1	1.586	-1	5.598	-1	1771	61	1.0
43392.2	10000	41.7181	92.2574	-646	QK	2.1	-1	7.5	1	1.3	1	0.277	-1	1.631	-1	5.890	-1	1777	49	1.0
43392.3	10000	41.7181	92.2565	-647	QK	1.8	-2	7.7	1	1.3	1	0.232	-2	1.391	-2	6.010	-1	1770	41	1.0
43392.4	10000	41.7181	92.2557	-649	QK	1.9	-1	7.7	1	1.3	1	0.250	-2	1.519	-2	6.088	-1	1772	36	1.0
43392.5	10000	41.7181	92.2548	-651	QK	1.7	-2	7.4	1	1.3	2	0.230	-2	1.301	-2	5.655	-1	1775	39	1.0
43392.6	10000	41.7181	92.2540	-652	QK	1.8	-2	6.9	1	1.3	1	0.254	-2	1.381	-2	5.427	-2	1765	45	1.0
43392.7	10000	41.7181	92.2531	-653	QK	2.1	-1	7.2	1	1.3	1	0.290	-1	1.665	-1	5.749	-1	1776	44	1.0
43392.8	10000	41.7181	92.2523	-655	QK	2.3	0	7.1	1	1.2	1	0.328	0	1.906	-1	5.813	-1	1777	35	1.0
43392.9	10000	41.7180	92.2514	-656	QK	2.3	0	7.1	1	1.2	1	0.326	0	1.902	-1	5.836	-1	1782	52	1.0
43393.0	10000	41.7180	92.2506	-657	QK	2.3	0	7.6	1	1.2	1	0.306	-1	1.931	-1	6.309	0	1790	42	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43393.1	10000	41.7180	92.2498	-659	QK	2.6	0	7.8	1	1.2	1	0.331	0	2.147	0	6.484	0	1799	50	1.0
43393.2	10000	41.7180	92.2489	-660	QK	2.5	0	8.1	1	1.2	1	0.304	-1	2.015	-1	6.633	0	1803	35	1.0
43393.3	10000	41.7180	92.2480	-662	QK	2.4	0	8.4	2	1.2	1	0.287	-1	1.978	-1	6.883	1	1810	53	1.0
43393.4	10000	41.7180	92.2472	-662	QK	2.3	0	8.3	2	1.2	1	0.277	-1	1.880	-1	6.784	0	1808	59	1.0
43393.5	10000	41.7180	92.2464	-663	QK	2.2	-1	8.5	2	1.2	1	0.263	-1	1.793	-1	6.816	0	1813	53	1.0
43393.6	10000	41.7180	92.2455	-664	QK	2.1	-1	8.8	2	1.3	1	0.238	-2	1.632	-1	6.865	1	1820	57	1.0
43393.7	10000	41.7180	92.2447	-665	QK	2.1	-1	8.7	2	1.3	2	0.244	-1	1.628	-1	6.681	0	1817	39	1.0
43393.8	10000	41.7180	92.2438	-667	QK	2.0	-1	8.2	1	1.3	1	0.239	-2	1.510	-2	6.326	0	1800	35	1.0
43393.9	10000	41.7180	92.2430	-669	QK	2.4	0	8.0	1	1.3	1	0.305	-1	1.928	-1	6.315	0	1793	47	1.0
43394.0	10000	41.7180	92.2421	-670	QK	2.8	1	8.4	2	1.2	1	0.333	0	2.250	0	6.752	0	1780	47	1.0
43394.1	10000	41.7180	92.2413	-671	QK	2.5	0	8.4	2	1.2	1	0.299	-1	2.061	0	6.899	1	1769	39	1.0
43394.2	10000	41.7180	92.2404	-673	QK	2.8	1	7.8	1	1.2	1	0.356	0	2.224	0	6.244	0	1757	44	1.0
43394.3	10000	41.7180	92.2396	-674	QK	2.9	1	7.5	0	1.2	1	0.386	0	2.384	0	6.170	0	1733	46	1.0
43394.4	10000	41.7180	92.2387	-676	QK	2.9	1	7.0	0	1.2	1	0.424	1	2.409	0	5.686	-1	1742	53	1.0
43394.5	10000	41.7180	92.2379	-678	QK	2.9	1	7.4	0	1.2	1	0.397	1	2.378	0	5.986	-1	1757	38	1.0
43394.6	10000	41.7180	92.2370	-680	QK	2.8	1	7.5	0	1.2	1	0.371	0	2.271	0	6.127	-1	1753	59	1.0
43394.7	10000	41.7180	92.2362	-684	QK	2.6	0	7.0	0	1.2	1	0.370	0	2.148	0	5.798	-1	1756	52	1.0
43394.8	10000	41.7180	92.2353	-688	QK	3.0	1	6.5	-1	1.2	1	0.463	2	2.480	0	5.360	-2	1746	47	1.0
43394.9	10000	41.7180	92.2345	-692	QK	2.9	1	6.6	-1	1.2	1	0.440	1	2.411	0	5.483	-1	1734	44	1.0
43395.0	10000	41.7180	92.2336	-696	QK	2.8	1	6.2	-1	1.2	1	0.456	1	2.376	0	5.216	-2	1713	42	1.0
43395.1	10000	41.7180	92.2328	-700	QK	2.8	1	6.0	-2	1.1	0	0.468	2	2.500	0	5.339	-2	1684	42	1.0
43395.2	10000	41.7180	92.2319	-703	QK	2.8	0	5.9	-2	1.1	0	0.467	2	2.562	1	5.487	-1	1644	38	1.0
43395.3	10000	41.7180	92.2311	-707	QK	2.7	0	6.2	-1	1.0	-1	0.435	1	2.623	1	6.031	-1	1632	49	1.0
43395.4	10000	41.7180	92.2302	-710	QK	2.7	0	6.3	-1	1.0	-1	0.426	1	2.659	1	6.236	0	1612	34	1.0
43395.5	10000	41.7180	92.2294	-713	QK	2.6	0	6.5	-1	1.0	-1	0.400	1	2.632	1	6.576	0	1606	48	1.0
43395.6	10000	41.7180	92.2285	-717	QK	2.6	0	7.2	0	1.0	-1	0.362	1	2.668	1	7.377	1	1607	34	0.9
43395.7	10000	41.7180	92.2277	-720	QK	2.5	0	7.4	0	1.0	-1	0.341	1	2.463	1	7.212	1	1612	48	0.9
43395.8	10000	41.7179	92.2269	-723	QK	2.5	0	7.5	1	1.0	-1	0.339	1	2.586	2	7.628	1	1610	38	0.9
43395.9	10000	41.7179	92.2260	-726	QK	2.8	1	7.3	1	1.0	-1	0.378	1	2.852	2	7.542	1	1612	45	0.9
43396.0	10000	41.7179	92.2252	-729	QK	2.9	1	7.0	0	1.0	-1	0.411	1	2.875	1	6.988	1	1601	44	0.9
43396.1	10000	41.7179	92.2243	-731	QK	3.0	1	6.9	0	1.0	-1	0.430	1	3.047	1	7.094	1	1596	36	0.9
43396.2	10000	41.7179	92.2235	-734	QK	2.8	1	6.8	-1	0.9	-2	0.421	1	3.110	1	7.390	1	1591	47	0.9
43396.3	10000	41.7179	92.2226	-736	QK	2.8	1	6.5	-1	0.9	-2	0.435	1	3.239	1	7.449	1	1581	44	0.9
43396.4	10000	41.7179	92.2218	-738	QK	2.9	1	6.3	-1	0.9	-2	0.466	2	3.499	1	7.512	1	1577	42	0.9
43396.5	10000	41.7179	92.2209	-740	QK	2.8	1	6.0	-2	0.9	-2	0.459	2	3.155	1	6.866	1	1566	59	0.9
43396.6	10000	41.7179	92.2201	-742	QK	2.4	1	6.2	-1	0.9	-2	0.387	1	2.700	1	6.985	1	1549	47	0.9
43396.7	10000	41.7179	92.2192	-743	QK	2.4	1	6.1	-1	0.9	-2	0.385	1	2.724	1	7.068	1	1546	35	0.9
43396.8	10000	41.7179	92.2184	-744	QK	2.4	1	6.0	-2	0.9	-2	0.397	1	2.753	1	6.930	1	1533	43	0.9
43396.9	10000	41.7179	92.2175	-745	QK	2.3	1	6.2	-1	0.9	-2	0.365	1	2.464	1	6.742	0	1510	50	0.9
43397.0	10000	41.7179	92.2167	-747	QK	2.0	1	6.2	-1	0.9	-2	0.323	1	2.141	1	6.635	0	1498	40	0.9
43397.1	10000	41.7179	92.2158	-748	QK	2.1	1	6.3	-1	0.9	-2	0.338	1	2.338	1	6.927	1	1480	45	0.9
43397.2	10000	41.7179	92.2150	-749	QK	2.0	1	7.0	0	0.9	-2	0.284	1	2.168	2	7.640	2	1485	51	0.9
43397.3	10000	41.7179	92.2141	-751	QK	2.1	1	6.6	-1	0.9	-2	0.320	1	2.273	1	7.094	1	1483	48	0.9
43397.4	10000	41.7179	92.2133	-752	QK	1.8	-2	6.8	-1	0.9	-2	0.260	1	1.926	-1	7.420	1	1480	55	0.9
43397.5	10000	41.7179	92.2124	-753	QK	1.9	-1	7.2	0	0.9	-2	0.268	1	1.993	-1	7.442	2	1501	42	0.9
43397.6	10000	41.7179	92.2116	-755	QK	2.2	-1	7.1	0	0.9	-2	0.274	1	2.081	0	7.592	2	1512	48	0.9
43397.7	10000	41.7179	92.2107	-755	QK	2.2	-1	8.8	1	0.9	-2	0.337	1	2.415	1	7.164	1	1508	44	0.9
43397.8	10000	41.7179	92.2099	-756	QK	2.5	-1	8.6	1	0.9	-2	0.326	1	2.368	1	7.268	1	1502	52	0.9
43397.9	10000	41.7179	92.2090	-758	QK	2.5	-1	8.6	1	0.9	-2	0.355	1	2.468	1	6.948	1	1478	34	0.9
43398.0	10000	41.7179	92.2082	-759	QK	1.9	-1	6.6	-1	1.0	-1	0.296	-1	2.022	-1	6.840	-1	1475	43	0.9
43398.1	10000	41.7179	92.2073	-760	QK	2.0	-1	6.0	-2	1.0	-1	0.338	-1	1.972	-1	5.832	-1	1457	48	0.9
43398.2	10000	41.7179	92.2065	-761	QK	1.9	-1	5.6	-2	1.0	-1	0.333	-1	1.829	-1	5.488	-1	1422	54	0.9

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43398.3	10000	41.7179	92.205[illegible]	-762	QK	1.9	-1	5.8	-2	1.0	-1	0.320	0	1.777	-1	5.553	-1	1421	43	0.9
43398.4	10000	41.7179	92.2048	-762	QK	1.5	-2	6.0	-2	1.1	-1	0.251	-1	1.415	-2	5.639	-1	1444	50	0.9
43398.5	10000	41.7179	92.2039	-764	QK	1.7	-2	6.1	-2	1.1	0	0.280	-1	1.541	-2	5.510	-1	1459	43	0.9
43398.6	10000	41.7179	92.2031	-764	QK	1.9	-1	6.0	-2	1.1	0	0.311	-1	1.653	-1	5.309	-2	1479	38	0.9
43398.7	10000	41.7179	92.2023	-765	QK	2.2	-1	6.0	-2	1.1	0	0.357	0	1.943	-1	5.438	-1	1502	41	0.9
43398.8	10000	41.7178	92.2014	-763	QK	2.4	0	6.2	-1	1.1	-1	0.391	1	2.290	0	5.864	-1	1528	40	0.9
43398.9	10000	41.7178	92.2006	-758	QK	2.2	-1	6.6	-1	1.1	0	0.340	0	2.050	0	6.025	-1	1581	33	0.9
43399.0	10000	41.7178	92.1997	-761	QK	2.2	-1	6.4	-1	1.2	0	0.348	0	1.931	-1	5.547	-1	1613	44	0.9
43399.1	10000	41.7178	92.1989	-768	QK	2.8	0	6.5	-1	1.2	1	0.423	1	2.295	0	5.419	-2	1635	34	0.9
43399.2	10000	41.7178	92.1980	-772	QK	2.7	0	6.5	-1	1.2	1	0.410	1	2.138	0	5.209	-2	1680	48	0.9
43399.3	10000	41.7178	92.1972	-774	QK	2.7	0	6.7	-1	1.3	1	0.399	1	2.075	0	5.199	-2	1710	54	0.9
43399.4	10000	41.7178	92.1963	-775	QK	2.9	1	6.4	-1	1.3	1	0.450	1	2.220	0	4.928	-2	1731	53	0.9
43399.5	10000	41.7178	92.1955	-775	QK	2.9	1	6.6	-1	1.4	2	0.442	1	2.133	0	4.823	-2	1752	46	0.9
43399.6	10000	41.7178	92.1946	-776	QK	3.1	1	6.8	-1	1.3	2	0.457	1	2.355	0	5.157	-2	1759	50	0.9
43399.7	10000	41.7178	92.1938	-776	QK	3.2	1	6.7	-1	1.2	1	0.476	2	2.585	1	5.434	-1	1767	52	0.9
43399.8	10000	41.7178	92.1929	-777	QK	3.0	1	6.9	0	1.2	1	0.435	1	2.502	0	5.758	-1	1767	50	0.9
43399.9	10000	41.7178	92.1921	-778	QK	3.1	1	7.1	0	1.2	1	0.437	1	2.598	1	5.939	-1	1761	45	0.9
43400.0	10000	41.7178	92.1912	-778	QK	3.1	1	7.3	0	1.1	0	0.427	1	2.764	1	6.472	0	1762	33	1.0
43400.1	10000	41.7178	92.1904	-779	QK	3.0	1	7.7	1	1.2	0	0.389	1	2.602	1	6.695	0	1757	49	1.0
43400.2	10000	41.7178	92.1895	-779	QK	2.9	1	7.7	1	1.2	0	0.383	0	2.495	0	6.519	0	1761	44	1.0
43400.3	10000	41.7178	92.1887	-780	QK	3.1	1	6.9	0	1.2	1	0.441	1	2.479	0	5.617	-1	1763	41	1.0
43400.4	10000	41.7178	92.1878	-780	QK	2.9	1	6.7	-1	1.3	1	0.432	1	2.311	0	5.352	-2	1757	38	1.0
43400.5	10000	41.7178	92.1870	-779	QK	2.8	0	6.7	-1	1.3	1	0.412	1	2.181	0	5.288	-2	1749	43	1.0
43400.6	10000	41.7178	92.1861	-779	QK	2.7	0	6.5	-1	1.2	1	0.417	1	2.203	0	5.287	-2	1744	36	1.0
43400.7	10000	41.7178	92.1853	-779	QK	2.8	1	6.3	-1	1.2	1	0.442	1	2.319	0	5.249	-2	1751	35	1.0
43400.8	10000	41.7178	92.1844	-779	QK	2.5	0	6.2	-1	1.2	1	0.408	1	2.051	0	5.030	-2	1746	55	1.0
43400.9	10000	41.7178	92.1836	-779	QK	2.6	0	6.0	-1	1.2	1	0.436	1	2.239	0	5.139	-2	1736	52	1.0
43401.0	10000	41.7178	92.1828	-778	QK	2.6	0	6.6	-1	1.2	1	0.395	1	2.260	0	5.716	-1	1734	42	1.0
43401.1	10000	41.7178	92.1819	-778	QK	2.8	0	6.6	-1	1.2	1	0.403	1	2.395	0	5.948	-1	1743	41	1.0
43401.2	10000	41.7178	92.1811	-777	QK	3.0	1	6.8	-1	1.2	1	0.443	1	2.500	0	5.639	-1	1750	48	1.0
43401.3	10000	41.7178	92.1802	-776	QK	3.0	1	7.2	-1	1.2	1	0.413	1	2.377	0	5.754	-1	1759	44	1.0
43401.4	10000	41.7178	92.1794	-775	QK	2.9	1	7.2	-1	1.2	1	0.404	1	2.350	0	5.815	-1	1748	61	1.0
43401.5	10000	41.7177	92.1785	-775	QK	3.1	1	7.3	-1	1.2	1	0.418	1	2.547	0	6.096	-1	1768	40	1.0
43401.6	10000	41.7177	92.1777	-774	QK	3.1	1	7.9	-1	1.2	1	0.388	1	2.548	0	6.570	0	1792	40	1.0
43401.7	10000	41.7177	92.1768	-774	QK	3.0	1	7.9	-1	1.2	1	0.373	0	2.391	0	6.409	0	1789	54	1.0
43401.8	10000	41.7177	92.1760	-773	QK	2.5	0	8.3	-1	1.2	1	0.305	-1	2.056	0	6.744	0	1787	51	1.0
43401.9	10000	41.7177	92.1751	-772	QK	2.3	0	8.3	-1	1.2	1	0.279	-1	1.876	0	6.727	0	1785	42	1.0
43402.0	10000	41.7177	92.1743	-771	QK	2.3	0	8.3	-1	1.2	1	0.279	-1	1.961	0	7.019	1	1774	42	1.0
43402.1	10000	41.7177	92.1734	-770	QK	2.2	-1	8.0	-1	1.2	1	0.290	-1	1.908	0	6.569	0	1766	55	1.0
43402.2	10000	41.7177	92.1726	-770	QK	2.2	-1	8.0	-1	1.2	1	0.286	-1	1.917	0	6.706	0	1749	49	1.0
43402.3	10000	41.7177	92.1717	-769	QK	2.4	0	7.8	-1	1.1	1	0.298	-1	2.024	0	6.798	0	1728	50	1.0
43402.4	10000	41.7177	92.1709	-768	QK	2.4	0	7.8	-1	1.1	1	0.301	-1	2.136	1	7.091	1	1716	52	1.0
43402.5	10000	41.7177	92.1700	-767	QK	2.6	0	7.5	-1	1.0	0	0.345	0	2.431	1	7.044	1	1705	39	1.1
43402.6	10000	41.7177	92.1692	-766	QK	2.5	0	7.6	-1	1.1	0	0.333	0	2.430	1	7.291	1	1698	42	1.1
43402.7	10000	41.7177	92.1683	-765	QK	2.6	0	7.3	-1	1.1	0	0.350	0	2.332	1	6.672	0	1696	44	1.1
43402.8	10000	41.7177	92.1675	-764	QK	2.4	0	7.2	-1	1.1	0	0.329	0	2.175	1	6.618	0	1680	45	1.1
43402.9	10000	41.7177	92.1666	-762	QK	2.3	-1	7.1	-1	1.1	0	0.317	0	2.041	0	6.448	0	1658	49	1.1
43403.0	10000	41.7177	92.1658	-761	QK	1.8	-2	6.5	-1	1.1	0	0.272	-1	1.560	-1	5.740	-1	1632	51	1.1
43403.1	10000	41.7177	92.1649	-760	QK	1.6	-2	5.9	-2	1.1	-1	0.273	-1	1.414	-2	5.175	-2	1602	51	1.1
43403.2	10000	41.7177	92.1641	-759	QK	1.7	-3	5.7	-2	1.1	-1	0.292	-1	1.468	-2	5.029	-2	1572	47	1.1
43403.3	10000	41.7177	92.1632	-758	QK	1.7	-2	5.4	-2	1.1	-1	0.308	-1	1.536	-2	4.981	-2	1528	44	1.1
43403.4	10000	41.7177	92.1624	-757	QK	1.8	-1	5.6	-2	1.0	-1	0.327	0	1.801	-1	5.509	-1	1489	47	1.1

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43403.5	10000	41.7177	92.1615	-756	QK	2.0	-1	5.7	-2	1.0	-1	0.349	0	2.096	0	6.000	-1	1487	65	1.1
43403.6	10000	41.7177	92.1607	-756	QK	2.1	-1	5.4	-2	1.0	-1	0.385	0	2.169	0	5.630	-1	1498	48	1.1
43403.7	10000	41.7177	92.1599	-755	QK	2.3	-1	5.8	-2	0.9	-1	0.386	0	2.385	0	6.178	0	1513	43	1.1
43403.8	10000	41.7177	92.1590	-754	QK	2.3	0	6.3	-1	1.0	-1	0.369	0	2.435	0	6.597	0	1530	35	1.1
43403.9	10000	41.7177	92.1582	-753	QK	2.3	0	6.5	-1	1.0	-1	0.356	0	2.344	0	6.590	0	1563	44	1.1
43404.0	10000	41.7176	92.1573	-753	QK	2.5	0	6.6	-1	1.0	-1	0.372	0	2.518	1	6.776	0	1590	37	1.1
43404.1	10000	41.7176	92.1565	-753	QK	2.5	0	6.8	-1	1.0	-1	0.370	0	2.439	0	6.586	0	1621	45	1.1
43404.2	10000	41.7176	92.1556	-753	QK	2.5	0	6.7	-1	1.0	-1	0.374	0	2.393	0	6.399	0	1647	42	1.1
43404.3	10000	41.7176	92.1548	-754	QK	2.6	0	7.1	0	1.0	-1	0.361	0	2.458	0	6.814	0	1659	57	1.1
43404.4	10000	41.7176	92.1539	-753	QK	2.5	0	6.9	0	1.1	0	0.370	0	2.378	0	6.420	0	1685	38	1.1
43404.5	10000	41.7176	92.1531	-754	QK	2.5	0	6.9	0	1.1	0	0.354	0	2.210	0	6.238	0	1713	42	1.1
43404.6	10000	41.7176	92.1522	-754	QK	2.4	-1	6.8	-1	1.1	0	0.353	0	2.094	0	5.935	-1	1704	49	1.1
43404.7	10000	41.7176	92.1514	-754	QK	2.4	-1	6.8	-1	1.2	0	0.358	0	2.091	0	5.834	-1	1705	45	1.1
43404.8	10000	41.7176	92.1505	-753	QK	2.4	-1	6.6	-1	1.2	0	0.361	0	2.077	0	5.753	-1	1709	48	1.1
43404.9	10000	41.7176	92.1497	-753	QK	2.4	0	6.9	0	1.2	1	0.351	0	2.037	0	5.811	-1	1709	42	1.1
43405.0	10000	41.7176	92.1488	-754	QK	2.3	0	6.9	0	1.2	1	0.335	0	1.963	-1	5.862	-1	1696	48	1.1
43405.1	10000	41.7176	92.1480	-755	QK	2.3	-1	6.8	-1	1.2	1	0.343	0	1.949	-1	5.687	-1	1679	52	1.1
43405.2	10000	41.7176	92.1471	-756	QK	2.4	-1	6.7	-1	1.2	1	0.354	0	1.986	-1	5.610	-1	1664	50	1.1
43405.3	10000	41.7176	92.1463	-757	QK	2.4	0	7.0	0	1.2	1	0.337	0	1.982	-1	5.884	-1	1671	48	1.1
43405.4	10000	41.7176	92.1454	-757	QK	2.3	0	7.3	0	1.2	1	0.318	0	1.957	-1	6.147	0	1689	46	1.1
43405.5	10000	41.7176	92.1446	-758	QK	2.2	-1	7.5	0	1.2	0	0.290	-1	1.856	-1	6.394	0	1681	51	1.1
43405.6	10000	41.7176	92.1437	-757	QK	2.0	-1	7.4	0	1.2	0	0.277	-1	1.761	-1	6.362	0	1664	44	1.1
43405.7	10000	41.7176	92.1429	-756	QK	2.1	-1	7.3	0	1.2	0	0.288	-1	1.799	-1	6.240	0	1686	48	1.1
43405.8	10000	41.7176	92.1420	-753	QK	2.3	-1	7.9	1	1.2	0	0.286	-1	1.920	-1	6.706	0	1697	45	1.1
43405.9	10000	41.7176	92.1412	-754	QK	2.5	0	8.0	1	1.1	0	0.309	-1	2.193	0	7.090	1	1703	43	1.1
43406.0	10000	41.7176	92.1404	-758	QK	2.6	0	7.8	1	1.1	0	0.336	0	2.358	0	7.013	1	1707	50	1.1
43406.1	10000	41.7176	92.1395	-760	QK	2.5	0	7.7	1	1.1	0	0.321	0	2.176	0	6.778	1	1697	49	1.1
43406.2	10000	41.7176	92.1387	-760	QK	2.4	0	7.6	1	1.2	0	0.315	-1	2.049	0	6.500	0	1702	52	1.1
43406.3	10000	41.7176	92.1378	-760	QK	2.3	0	7.6	1	1.2	0	0.307	-1	1.951	-1	6.358	0	1712	53	1.1
43406.4	10000	41.7176	92.1370	-757	QK	2.0	-1	7.3	0	1.2	0	0.281	-1	1.751	-1	6.225	0	1692	53	1.1
43406.5	10000	41.7176	92.1361	-757	QK	2.1	-1	7.1	0	1.1	0	0.292	-1	1.833	-1	6.283	0	1676	50	1.1
43406.6	10000	41.7176	92.1353	-759	QK	1.9	-1	7.0	0	1.1	0	0.270	-1	1.674	-1	6.198	0	1662	53	1.1
43406.7	10000	41.7176	92.1344	-758	QK	1.7	-2	6.9	0	1.1	0	0.250	-1	1.499	-2	6.004	-1	1662	43	1.1
43406.8	10000	41.7176	92.1336	-756	QK	1.8	-1	6.7	-1	1.2	0	0.275	-1	1.570	-1	5.715	-1	1663	50	1.1
43406.9	10000	41.7175	92.1327	-759	QK	1.8	-2	6.7	-1	1.2	0	0.268	-1	1.521	-2	5.673	-1	1652	42	1.1
43407.0	10000	41.7175	92.1319	-762	QK	2.0	-1	6.7	-1	1.2	0	0.301	-1	1.702	-1	5.660	-1	1656	46	1.1
43407.1	10000	41.7175	92.1310	-763	QK	2.3	0	6.8	-1	1.2	0	0.342	0	1.957	-1	5.726	-1	1659	38	1.1
43407.2	10000	41.7175	92.1302	-763	QK	2.3	-1	6.6	-1	1.2	0	0.345	0	1.890	-1	5.472	-1	1660	42	1.1
43407.3	10000	41.7175	92.1293	-762	QK	2.3	0	6.6	-1	1.2	0	0.348	0	1.878	-1	5.400	-2	1670	43	1.1
43407.4	10000	41.7175	92.1285	-760	QK	2.2	-1	6.7	-1	1.2	0	0.335	0	1.869	-1	5.573	-1	1657	60	1.1
43407.5	10000	41.7175	92.1277	-757	QK	2.2	-1	6.8	-1	1.2	0	0.325	0	1.871	-1	5.758	-1	1648	52	1.1
43407.6	10000	41.7175	92.1268	-757	QK	2.2	-1	6.6	-1	1.2	0	0.338	0	1.911	-1	5.646	-1	1657	42	1.1
43407.7	10000	41.7175	92.1260	-758	QK	2.2	-1	6.9	0	1.2	0	0.316	0	1.858	-1	5.883	-1	1660	44	1.1
43407.8	10000	41.7175	92.1251	-760	QK	2.1	-1	6.8	-1	1.1	0	0.300	-1	1.794	-1	5.983	-1	1657	43	1.0
43407.9	10000	41.7175	92.1243	-762	QK	2.0	-1	7.1	0	1.1	0	0.277	-1	1.733	-1	6.249	0	1654	53	1.1
43408.0	10000	41.7175	92.1234	-762	QK	2.0	-1	7.4	0	1.1	0	0.273	-1	1.822	-1	6.667	0	1648	63	1.1
43408.1	10000	41.7175	92.1226	-760	QK	2.1	-1	7.7	1	1.1	0	0.274	-1	1.889	-1	6.897	1	1657	52	1.1
43408.2	10000	41.7175	92.1217	-759	QK	2.2	-1	7.7	1	1.1	0	0.279	-1	1.930	-1	6.908	1	1672	45	1.1
43408.3	10000	41.7175	92.1209	-758	QK	2.5	0	8.0	1	1.1	0	0.309	-1	2.270	0	7.335	1	1683	44	1.1
43408.4	10000	41.7175	92.1200	-759	QK	2.3	0	7.6	1	1.1	0	0.324	0	2.281	0	7.032	1	1681	51	1.1
43408.5	10000	41.7175	92.1192	-760	QK	2.3	0	8.0	1	1.1	0	0.287	-1	2.134	0	7.438	1	1688	62	1.1
43408.6	10000	41.7175	92.1183	-760	QK	2.4	0	7.8	1	1.1	0	0.306	-1	2.219	0	7.247	1	1701	45	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43408.7	10000	41.7175	92.1175	-760	QK	2.5	0	7.4	0	1.1	0	0.339	0	2.325	0	6.865	1	1713	47	1.0
43408.8	10000	41.7175	92.1166	-759	QK	2.5	0	7.2	0	1.1	0	0.342	0	2.280	0	6.666	0	1712	47	1.0
43408.9	10000	41.7175	92.1158	-759	QK	2.3	0	7.3	0	1.1	0	0.317	0	2.174	0	6.868	1	1716	49	1.0
43409.0	10000	41.7175	92.1149	-759	QL	2.2	-1	7.1	0	1.1	-1	0.315	-1	2.057	0	6.536	1	1719	42	1.0
43409.1	10000	41.7175	92.1141	-758	QL	2.3	-1	7.7	1	1.1	-1	0.303	-1	2.159	0	7.131	2	1718	47	1.0
43409.2	10000	41.7175	92.1133	-758	QL	2.5	0	7.6	1	1.1	-1	0.325	0	2.295	0	7.064	1	1720	40	1.0
43409.3	10000	41.7175	92.1124	-757	QL	2.4	0	7.6	1	1.1	-1	0.314	-1	2.222	0	7.082	1	1703	47	1.0
43409.4	10000	41.7175	92.1116	-758	QL	2.1	-1	7.6	1	1.1	-1	0.277	-1	1.962	-1	7.075	1	1687	43	1.0
43409.5	10000	41.7175	92.1107	-758	QL	2.2	-1	7.8	1	1.1	-1	0.286	-1	2.114	0	7.388	2	1678	39	1.0
43409.6	10000	41.7175	92.1099	-758	QL	2.5	0	7.4	0	1.1	-1	0.340	0	2.372	0	6.970	1	1669	41	1.0
43409.7	10000	41.7175	92.1090	-758	QL	2.4	0	7.6	0	1.0	-1	0.319	-1	2.297	0	7.204	2	1645	42	1.0
43409.8	10000	41.7174	92.1082	-759	QL	2.3	-1	7.0	0	1.1	-1	0.332	0	2.171	0	6.532	1	1635	33	1.0
43409.9	10000	41.7174	92.1073	-758	QL	2.2	-1	7.0	0	1.1	-1	0.320	-1	2.063	0	6.453	0	1627	45	1.0
43410.0	10000	41.7174	92.1065	-758	QL	2.4	-1	6.9	-1	1.1	-1	0.341	0	2.173	0	6.370	0	1637	44	1.0
43410.1	10000	41.7174	92.1056	-758	QL	2.4	0	7.0	0	1.0	-2	0.338	0	2.304	0	6.813	1	1643	41	1.0
43410.2	10000	41.7174	92.1048	-757	QL	2.3	-1	6.8	-1	1.1	-1	0.334	0	2.122	0	6.352	0	1653	41	1.0
43410.3	10000	41.7174	92.1039	-757	QL	2.3	-1	7.0	0	1.1	-1	0.324	0	2.092	0	6.448	0	1658	43	1.0
43410.4	10000	41.7174	92.1031	-756	QL	2.2	-1	6.8	-1	1.1	-1	0.346	0	2.199	0	6.363	0	1674	53	1.0
43410.5	10000	41.7174	92.1022	-755	QL	2.2	-1	6.6	-1	1.1	-1	0.334	0	1.998	-1	5.974	0	1705	41	1.0
43410.6	10000	41.7174	92.1014	-755	QL	2.4	-1	6.7	-1	1.2	0	0.354	0	1.984	-1	5.601	-1	1733	59	1.0
43410.7	10000	41.7174	92.1006	-754	QL	2.3	-1	6.7	-1	1.2	0	0.342	0	1.909	-1	5.586	-1	1747	30	1.0
43410.8	10000	41.7174	92.0997	-754	QL	2.4	0	6.6	-1	1.3	1	0.366	0	1.908	-1	5.211	-2	1764	44	1.0
43410.9	10000	41.7174	92.0989	-753	QL	2.4	0	6.6	-1	1.3	1	0.371	0	1.902	-1	5.133	-2	1764	47	1.0
43411.0	10000	41.7174	92.0980	-752	QL	2.3	-1	6.7	-1	1.3	1	0.341	0	1.760	-1	5.160	-2	1770	54	1.0
43411.1	10000	41.7174	92.0972	-752	QL	2.1	-1	7.1	0	1.3	2	0.299	-1	1.593	-1	5.327	-1	1762	62	1.0
43411.2	10000	41.7174	92.0963	-750	QL	2.2	-1	7.6	1	1.3	1	0.287	-1	1.704	-1	5.933	0	1741	39	1.0
43411.3	10000	41.7174	92.0955	-749	QL	2.3	-1	7.2	0	1.2	1	0.322	-1	1.878	-1	5.826	-1	1723	41	1.0
43411.4	10000	41.7174	92.0946	-749	QL	2.4	0	7.6	1	1.2	1	0.318	-1	1.937	-1	6.093	0	1715	47	1.0
43411.5	10000	41.7174	92.0938	-749	QL	2.2	-1	7.6	0	1.2	1	0.295	-1	1.829	-1	6.202	0	1704	34	1.0
43411.6	10000	41.7174	92.0929	-749	QL	2.3	-1	7.8	1	1.2	1	0.294	-1	1.902	-1	6.467	0	1715	48	1.0
43411.7	10000	41.7174	92.0921	-750	QL	2.3	-1	7.9	1	1.2	1	0.298	-1	1.942	-1	6.528	1	1719	34	1.0
43411.8	10000	41.7174	92.0912	-749	QL	2.4	0	7.6	0	1.2	1	0.318	-1	2.005	0	6.301	0	1729	43	1.0
43411.9	10000	41.7174	92.0904	-749	QL	2.5	0	7.2	0	1.2	1	0.341	0	2.041	0	5.985	0	1734	49	1.0
43412.0	10000	41.7174	92.0895	-748	QL	2.3	-1	7.5	0	1.2	1	0.306	-1	1.930	-1	6.315	0	1738	46	1.0
43412.1	10000	41.7174	92.0887	-748	QL	2.1	-1	7.7	1	1.2	1	0.277	-1	1.779	-1	6.430	0	1741	38	1.0
43412.2	10000	41.7174	92.0878	-748	QL	2.2	-1	7.5	0	1.2	1	0.296	-1	1.858	-1	6.279	0	1733	47	1.0
43412.3	10000	41.7174	92.0870	-747	QL	2.2	-1	7.4	0	1.2	1	0.300	-1	1.859	-1	6.199	0	1728	38	1.0
43412.4	10000	41.7174	92.0862	-747	QL	2.1	-1	7.3	0	1.2	1	0.291	-1	1.763	-1	6.056	0	1725	57	1.0
43412.5	10000	41.7173	92.0853	-747	QL	2.2	-1	7.3	0	1.2	1	0.303	-1	1.785	-1	5.890	-1	1725	47	1.0
43412.6	10000	41.7173	92.0845	-748	QL	2.1	-1	7.5	0	1.3	1	0.278	-1	1.643	-1	5.917	0	1726	39	1.0
43412.7	10000	41.7173	92.0836	-748	QL	2.1	-1	7.5	0	1.3	1	0.276	-1	1.629	-1	5.905	0	1729	56	1.0
43412.8	10000	41.7173	92.0828	-748	QL	2.0	-1	7.2	0	1.3	1	0.277	-1	1.548	-2	5.594	-1	1727	52	1.0
43412.9	10000	41.7173	92.0819	-748	QL	2.0	-1	7.4	0	1.3	1	0.268	-1	1.536	-2	5.720	-1	1746	61	1.0
43413.0	10000	41.7173	92.0811	-749	QL	2.0	-1	7.3	0	1.3	1	0.276	-1	1.533	-2	5.555	-1	1755	47	1.0
43413.1	10000	41.7173	92.0802	-748	QL	1.9	-1	7.5	0	1.3	1	0.255	-1	1.515	-2	5.933	0	1755	50	1.0
43413.2	10000	41.7173	92.0794	-748	QL	2.0	-1	7.7	1	1.2	1	0.253	-2	1.600	-1	6.312	0	1752	48	1.0
43413.3	10000	41.7173	92.0785	-748	QL	2.3	-1	7.6	0	1.2	1	0.295	-1	1.930	-1	6.536	1	1753	48	1.0
43413.4	10000	41.7173	92.0777	-748	QL	2.0	-1	7.3	0	1.1	-1	0.280	-1	1.790	-1	6.384	0	1747	41	1.0
43413.5	10000	41.7173	92.0768	-747	QL	2.3	-1	7.1	0	1.1	-1	0.321	-1	2.051	0	6.380	0	1744	53	1.0
43413.6	10000	41.7173	92.0760	-746	QL	2.3	-1	7.3	0	1.1	-1	0.309	-1	2.048	0	6.635	1	1736	35	1.0
43413.7	10000	41.7173	92.0751	-746	QL	2.3	-1	7.3	0	1.1	-1	0.311	-1	2.087	0	6.718	1	1720	46	1.0
43413.8	10000	41.7173	92.0743	-745	QL	2.6	0	7.2	0	1.1	-1	0.356	0	2.345	0	6.587	1	1725	53	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43413.9	10000	41.7173	92.0735	-745	QL	2.5	0	7.1	0	1.1	-1	0.356	0	2.263	0	6.361	0	1734	32	1.0
43414.0	10000	41.7173	92.0726	-744	QL	2.5	0	7.3	0	1.1	-1	0.346	0	2.250	0	6.499	1	1727	39	1.0
43414.1	10000	41.7173	92.0718	-744	QL	2.7	0	7.5	0	1.1	-1	0.353	0	2.443	1	6.927	1	1717	42	1.0
43414.2	10000	41.7173	92.0709	-743	QL	2.6	0	7.5	0	1.1	-1	0.339	0	2.427	1	7.155	2	1706	57	1.0
43414.3	10000	41.7173	92.0701	-742	QL	2.6	0	7.0	0	1.0	-1	0.371	0	2.501	1	6.739	1	1675	52	1.0
43414.4	10000	41.7173	92.0692	-741	QL	2.7	0	7.0	0	1.0	-1	0.384	0	2.571	1	6.690	1	1664	44	1.0
43414.5	10000	41.7173	92.0684	-741	QL	2.4	0	7.0	0	1.0	-2	0.340	0	2.304	0	6.776	1	1629	32	1.0
43414.6	10000	41.7173	92.0675	-741	QL	2.3	-1	6.7	-1	1.0	-2	0.338	0	2.273	0	6.726	1	1598	56	1.0
43414.7	10000	41.7173	92.0667	-740	QL	2.1	-1	6.9	-1	1.0	-2	0.307	-1	2.085	0	6.789	1	1598	53	1.0
43414.8	10000	41.7173	92.0658	-739	QL	2.2	-1	6.9	-1	1.0	-2	0.315	-1	2.130	0	6.764	1	1600	56	1.0
43414.9	10000	41.7173	92.0650	-737	QL	2.2	-1	7.0	0	1.0	-1	0.315	-1	2.119	0	6.728	1	1614	52	1.0
43415.0	10000	41.7173	92.0641	-736	QL	2.5	0	7.2	0	1.1	-1	0.350	0	2.312	0	6.604	1	1644	48	1.0
43415.1	10000	41.7173	92.0633	-737	QL	2.5	0	7.1	0	1.1	-1	0.357	0	2.370	0	6.638	1	1653	42	1.0
43415.2	10000	41.7173	92.0624	-738	QL	2.6	0	7.3	0	1.1	-1	0.356	0	2.458	1	6.913	1	1665	38	1.0
43415.3	10000	41.7172	92.0616	-739	QL	2.5	0	7.8	1	1.1	-1	0.323	-1	2.307	0	7.154	2	1680	38	1.0
43415.4	10000	41.7172	92.0607	-738	QL	2.4	0	7.7	1	1.1	-1	0.312	-1	2.205	0	7.063	1	1679	34	1.0
43415.5	10000	41.7172	92.0599	-737	QL	2.4	0	7.7	1	1.1	0	0.318	-1	2.140	0	6.735	1	1690	54	1.0
43415.6	10000	41.7172	92.0591	-737	QL	2.5	0	8.0	1	1.1	0	0.318	-1	2.214	0	6.955	1	1692	40	1.0
43415.7	10000	41.7172	92.0582	-737	QL	2.0	-1	8.2	1	1.2	0	0.245	-2	1.735	-1	7.091	1	1678	48	1.0
43415.8	10000	41.7172	92.0574	-736	QL	1.9	-1	8.0	1	1.2	0	0.244	-2	1.667	-1	6.846	1	1679	46	1.0
43415.9	10000	41.7172	92.0565	-737	QL	2.3	-1	7.7	1	1.2	0	0.298	-1	1.893	-1	6.344	0	1705	38	1.0
43416.0	10000	41.7172	92.0557	-737	QL	2.4	0	7.5	0	1.2	0	0.318	-1	1.961	-1	6.165	0	1721	55	1.0
43416.1	10000	41.7172	92.0548	-737	QL	2.4	0	7.5	0	1.2	0	0.322	-1	1.991	-1	6.182	0	1730	49	1.0
43416.2	10000	41.7172	92.0540	-737	QL	2.5	0	7.5	0	1.2	0	0.329	0	2.098	0	6.386	0	1735	39	1.0
43416.3	10000	41.7172	92.0531	-737	QL	2.3	-1	7.6	1	1.2	0	0.304	-1	1.941	-1	6.381	0	1735	57	1.0
43416.4	10000	41.7172	92.0523	-737	QL	2.6	0	7.7	1	1.2	1	0.340	0	2.136	0	6.285	0	1754	48	1.0
43416.5	10000	41.7172	92.0514	-734	QL	2.5	0	8.0	1	1.2	0	0.319	-1	2.120	0	6.643	1	1760	34	1.0
43416.6	10000	41.7172	92.0506	-728	QL	2.3	-1	8.2	1	1.2	0	0.277	-1	1.907	-1	6.876	1	1757	43	1.0
43416.7	10000	41.7172	92.0497	-727	QL	2.2	-1	8.4	1	1.2	0	0.260	-1	1.829	-1	7.034	1	1754	52	1.0
43416.8	10000	41.7172	92.0489	-734	QL	2.3	-1	8.3	1	1.2	0	0.281	-1	1.891	-1	6.732	1	1759	60	1.0
43416.9	10000	41.7172	92.0480	-736	QL	2.2	-1	8.4	1	1.2	0	0.257	-1	1.700	-1	6.604	1	1751	32	1.0
43417.0	10000	41.7172	92.0472	-735	QL	2.1	-1	8.1	1	1.2	0	0.258	-1	1.599	-1	6.194	0	1740	48	1.0
43417.1	10000	41.7172	92.0464	-734	QL	2.0	-1	7.9	1	1.2	0	0.277	-1	1.669	-1	6.027	0	1718	42	1.0
43417.2	10000	41.7172	92.0455	-734	QL	2.1	-1	7.5	1	1.2	0	0.280	-1	1.751	-1	6.254	0	1708	47	1.0
43417.3	10000	41.7172	92.0447	-733	QL	2.1	-1	7.4	1	1.2	0	0.290	-1	1.735	-1	5.979	0	1691	43	1.0
43417.4	10000	41.7172	92.0438	-730	QL	2.1	-1	7.1	1	1.1	-1	0.286	-1	1.808	-1	6.332	0	1683	42	1.0
43417.5	10000	41.7172	92.0430	-729	QL	2.1	-1	6.8	1	1.1	-1	0.302	-1	1.930	-1	6.393	0	1651	48	1.0
43417.6	10000	41.7172	92.0421	-732	QL	2.2	-1	6.9	1	1.1	-1	0.323	-1	2.080	0	6.437	0	1638	52	1.0
43417.7	10000	41.7172	92.0413	-732	QL	2.5	0	7.2	1	1.1	-1	0.360	0	2.352	0	6.526	1	1636	40	1.0
43417.8	10000	41.7172	92.0404	-732	QL	2.3	-1	7.2	1	1.1	-1	0.318	-1	2.119	0	6.656	1	1649	33	1.0
43417.9	10000	41.7171	92.0396	-732	QL	2.2	-1	7.2	1	1.1	-1	0.311	-1	1.986	-1	6.376	0	1655	36	1.0
43418.0	10000	41.7171	92.0387	-731	QL	2.5	0	7.9	1	1.1	-1	0.351	0	2.264	0	6.453	0	1642	48	1.0
43418.1	10000	41.7171	92.0379	-730	QL	2.4	0	7.6	1	1.1	-1	0.352	0	2.246	0	6.376	0	1634	44	1.0
43418.2	10000	41.7171	92.0370	-729	QL	2.3	-1	7.7	1	1.1	-1	0.328	0	2.099	0	6.395	0	1632	56	1.0
43418.3	10000	41.7171	92.0362	-729	QL	2.3	-1	7.7	1	1.1	-1	0.324	0	2.131	0	6.568	1	1633	47	1.0
43418.4	10000	41.7171	92.0354	-728	QL	2.0	-1	7.5	1	1.1	-2	0.278	-1	1.914	-1	6.872	1	1613	43	1.0
43418.5	10000	41.7171	92.0345	-727	QL	2.1	-1	7.4	1	1.0	-2	0.291	-1	2.117	-1	7.280	2	1584	53	1.0
43418.6	10000	41.7171	92.0337	-726	QL	1.8	-2	7.5	1	1.0	-2	0.241	-2	2.052	-1	7.307	2	1567	41	1.0
43418.7	10000	41.7171	92.0328	-726	QL	1.9	-1	7.6	1	1.0	-2	0.255	-2	1.800	-1	7.454	2	1564	48	1.0
43418.8	10000	41.7171	92.0320	-725	QL	2.0	-1	7.5	1	1.0	-2	0.252	-2	1.873	-1	7.360	2	1560	45	1.0
43418.9	10000	41.7171	92.0311	-724	QL	2.0	-1	7.8	1	1.0	-2	0.252	-2	1.927	-1	7.647	2	1574	43	1.0
43419.0	10000	41.7171	92.0303	-723	QL	1.9	-2	7.9	1	1.1	-1	0.240	-2	1.797	-1	7.491	2	1576	51	1.0

LINE 280 DATA ACQUIRED 80326 DES MOINES QUADRANGLE - NTMS NK 15-8 AVERAGED RECORD LISTING - GEOMETRICS

FIDUCIAL NUMBER	QUAL SAKUT	N. LAT DEGREES	W. LONG DEGREES	MAG GAMMAS	GEOL UNIT	EU PPM	SD	ETH PPM	SD	K %	SD	EU/ETH	SD	EU/K	SD	ETH/K	SD	TOTAL CPS	COS CPS	EUAIR PPM
43419.1	10000	41.7171	92.0294	-722	QL	2.0	-1	7.8	1	1.1	-1	0.255	-2	1.862	-1	7.298	2	1597	31	1.0
43419.2	10000	41.7171	92.0286	-719	QL	2.1	-1	7.8	1	1.1	-1	0.266	-1	1.918	-1	7.213	2	1614	56	1.0
43419.3	10000	41.7171	92.0277	-715	QL	2.0	-1	7.9	1	1.1	-1	0.254	-2	1.827	-1	7.202	2	1640	45	1.0
43419.4	10000	41.7171	92.0269	-716	QL	2.0	-1	8.0	1	1.1	0	0.252	-2	1.753	-1	6.947	1	1665	53	1.0
43419.5	10000	41.7171	92.0260	-718	QL	2.0	-1	8.0	1	1.2	0	0.253	-2	1.689	-1	6.663	1	1672	33	1.0
43419.6	10000	41.7171	92.0252	-717	QL	2.0	-1	7.8	1	1.2	0	0.258	-1	1.696	-1	6.582	1	1684	41	1.0
43419.7	10000	41.7171	92.0243	-717	QL	2.2	-1	7.6	1	1.2	0	0.285	-1	1.846	-1	6.483	0	1693	48	1.0
43419.8	10000	41.7171	92.0235	-716	QL	2.3	-1	7.7	1	1.2	0	0.294	-1	1.909	-1	6.490	0	1697	46	1.0
43419.9	10000	41.7171	92.0226	-715	QL	1.9	-1	7.4	0	1.2	0	0.263	-1	1.659	-1	6.309	0	1692	39	0.9
43420.0	10000	41.7171	92.0218	-713	QL	2.2	-1	7.0	0	1.2	0	0.311	-1	1.870	-1	6.013	0	1679	47	0.9
43420.1	10000	41.7171	92.0210	-711	QL	2.1	-1	6.9	-1	1.1	0	0.312	-1	1.876	-1	6.017	0	1674	53	0.9
43420.2	10000	41.7171	92.0201	-709	QL	2.3	-1	6.8	-1	1.1	-1	0.337	0	2.053	0	6.085	0	1679	60	0.9
43420.3	10000	41.7170	92.0193	-710	QL	2.3	-1	6.5	-1	1.1	0	0.353	0	1.998	0	5.668	-1	1684	41	0.9
43420.4	10000	41.7170	92.0184	-711	QL	2.3	-1	6.6	-1	1.1	-1	0.349	0	2.049	0	5.865	-1	1687	45	0.9
43420.5	10000	41.7170	92.0176	-711	QL	2.3	-1	7.0	0	1.1	-1	0.329	0	2.092	0	6.357	0	1693	43	0.9
43420.6	10000	41.7170	92.0167	-710	QL	2.8	0	6.8	-1	1.1	-1	0.404	1	2.461	1	6.097	0	1706	49	0.9
43420.7	10000	41.7170	92.0159	-709	QL	2.7	0	7.1	0	1.1	-1	0.383	0	2.456	1	6.413	0	1705	55	0.9
43420.8	10000	41.7170	92.0150	-708	QL	2.8	1	7.2	0	1.1	-1	0.389	0	2.603	1	6.686	1	1696	44	0.9
43420.9	10000	41.7170	92.0142	-707	QL	2.7	0	7.6	0	1.1	-1	0.356	0	2.491	1	7.001	1	1693	56	0.9
43421.0	10000	41.7170	92.0133	-706	QL	2.7	0	7.9	1	1.1	-1	0.341	0	2.528	1	7.423	2	1672	29	0.9
43421.1	10000	41.7170	92.0125	-705	QL	2.6	0	7.6	1	1.1	-1	0.346	0	2.390	0	6.898	1	1661	51	0.9
43421.2	10000	41.7170	92.0116	-705	QL	2.8	0	6.9	-1	1.1	-1	0.404	1	2.476	1	6.132	0	1654	46	0.9
43421.3	10000	41.7170	92.0108	-705	QL	2.6	0	7.5	0	1.1	-1	0.342	0	2.306	0	6.744	1	1655	44	0.9
43421.4	10000	41.7170	92.0099	-704	QL	2.6	0	7.6	1	1.1	-1	0.336	0	2.351	0	6.997	1	1672	44	0.9
43421.5	10000	41.7170	92.0091	-703	QL	2.7	0	7.7	1	1.1	0	0.347	0	2.323	0	6.693	1	1701	40	0.9
43421.6	10000	41.7170	92.0082	-703	QL	2.7	0	7.3	0	1.2	0	0.375	0	2.318	0	6.187	0	1725	42	1.0
43421.7	10000	41.7170	92.0073	-702	QL	2.9	1	7.2	0	1.2	0	0.395	1	2.450	1	6.204	0	1755	46	1.0
43421.8	10000	41.7170	92.0065	-702	QL	2.8	1	7.4	0	1.2	0	0.387	0	2.460	1	6.354	0	1776	52	1.0
43421.9	10000	41.7170	92.0056	-702	QL	2.7	0	8.0	1	1.1	0	0.336	0	2.333	0	6.951	1	1783	48	1.0
43422.0	10000	41.7170	92.0047	-702	QL	3.1	1	7.6	1	1.2	0	0.404	1	2.608	1	6.454	0	1784	49	1.0
43422.1	10000	41.7171	92.0039	-701	QL	3.2	1	7.3	0	1.2	0	0.439	1	2.650	1	6.039	0	1781	42	1.0
43422.2	10000	41.7171	92.0030	-701	QL	3.0	1	7.1	0	1.2	0	0.419	1	2.498	1	5.958	0	1755	37	1.0
43422.3	10000	41.7171	92.0021	-700	QL	2.9	1	7.0	0	1.2	0	0.415	1	2.454	1	5.906	0	1730	44	1.0
43422.4	10000	41.7171	92.0013	-700	QL	2.6	0	6.8	-1	1.2	0	0.387	0	2.180	0	5.637	-1	1710	38	1.0
43422.5	10000	41.7171	92.0004	-699	QL	2.6	0	6.8	-1	1.2	0	0.382	0	2.129	0	5.578	-1	1697	51	1.0

GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-	GRID	-LINE-
A 1	250	E 5	260	I 9	270	M 13	280								
B 1	250	F 5	260	J 9	270										
C 1	250	G 5	260	K 9	270	A 14	280								
D 1	250	H 5	260	L 9	270	B 14	280								
E 1	250	I 5	260	M 9	270	C 14	280								
F 1	250	J 5	260			D 14	280								
G 1	250	K 5	260	A 10	270	E 14	280								
H 1	250	L 5	260	B 10	270	F 14	280								
I 1	250	M 5	260	C 10	270	G 14	280								
J 1	250			D 10	270	H 14	280								
K 1	250	A 6	260	E 10	270	I 14	280								
L 1	250	B 6	260	F 10	270	J 14	280								
M 1	250	C 6	260	G 10	270	K 14	280								
		D 6	260	H 10	270	L 14	280								
A 2	250	E 6	260	I 10	270	M 14	280								
B 2	250	F 6	260	J 10	270										
C 2	250	G 6	260	K 10	270	A 15	280								
D 2	250	H 6	260	L 10	270	B 15	280								
E 2	250	I 6	260	M 10	270	C 15	280								
F 2	250	J 6	260			D 15	280								
G 2	250	K 6	260	A 11	270	E 15	280								
H 2	250	L 6	260	B 11	270	F 15	280								
I 2	250	M 6	260	C 11	270	G 15	280								
J 2	250			D 11	270	H 15	280								
K 2	250	A 7	260	E 11	270	I 15	280								
L 2	250	B 7	260	F 11	270	J 15	280								
M 2	250	C 7	260	G 11	270	K 15	280								
		D 7	260	H 11	270										
A 3	250	E 7	260	I 11	270										
B 3	250	F 7	260	J 11	270										
C 3	250	G 7	260	K 11	270										
D 3	250	H 7	260	L 11	270										
E 3	250	I 7	260	M 11	270										
F 3	250	J 7	260												
G 3	250	K 7	260	A 12	270										
H 3	250	L 7	260	B 12	270										
I 3	250	M 7	260	C 12	270										
J 3	250			D 12	280										
K 3	250	A 8	260	E 12	280										
L 3	250	B 8	260	F 12	280										
M 3	250	C 8	260	G 12	280										
		D 8	260	H 12	280										
A 4	250	E 8	260	I 12	280										
B 4	250	F 8	260	J 12	280										
C 4	250	G 8	270	K 12	280										
D 4	250	H 8	270	L 12	280										
E 4	250	I 8	270	M 12	280										
F 4	250	J 8	270												
G 4	250	K 8	270	A 13	280										
H 4	250	L 8	270	B 13	280										
I 4	250	M 8	270	C 13	280										
J 4	250			D 13	280										
K 4	250	A 9	270	E 13	280										
L 4	250	B 9	270	F 13	280										
M 4	250	C 9	270	G 13	280										
		D 9	270	H 13	280										
A 5	250	E 9	270	I 13	280										
B 5	250	F 9	270	J 13	280										
C 5	250	G 9	270	K 13	280										
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E 5	250	I 9	270	M 13	280										
F 5	250	J 9	270												
G 5	250	K 9	270	A 14	280										
H 5	250	L 9	270	B 14	280										
I 5	250	M 9	270	C 14	280										
J 5	250			D 14	280										
K 5	250	A 10	270	E 14	280										
L 5	250	B 10	270	F 14	280										
M 5	250	C 10	270	G 14	280										
		D 10	270	H 14	280										
A 6	250	E 10	270	I 14	280										
B 6	250	F 10	270	J 14	280										
C 6	250	G 10	270	K 14	280										
D 6	250	H 10	270	L 14	280										
E 6	250	I 10	270	M 14	280										
F 6	250	J 10	270												
G 6	250	K 10	270	A 15	280										
H 6	250	L 10	270	B 15	280										
I 6	250	M 10	270	C 15	280										
J 6	250			D 15	280										
K 6	250	A 11	270	E 15	280										
L 6	250	B 11	270	F 15	280										
M 6	250	C 11	270	G 15	280										
		D 11	270	H 15	280										
A 7	250	E 11	270	I 15	280										
B 7	250	F 11	270	J 15	280										
C 7	250	G 11	270	K 15	280										
D 7	250	H 11	270												
E 7	250	I 11	270												
F 7	250	J 11	270												
G 7	250	K 11	270												
H 7	250	L 11	270												
I 7	250	M 11	270												
J 7	250														
K 7	250	A 12	270												
L 7	250	B 12	270												
M 7	250	C 12	270												
		D 12	280												
A 8	250	E 12	280												
B 8	250	F 12	280												
C 8	250	G 12	280												
D 8	250	H 12	280												
E 8	250	I 12	280												
F 8	250	J 12	280												
G 8	250	K 12	280												
H 8	250	L 12	280												
I 8	250	M 12	280												
J 8	250														
K 8	250	A 13	280												
L 8	250	B 13	280												
M 8	250	C 13	280												
		D 13	280												
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