

AERIAL RADIOMETRIC AND MAGNETIC
RECONNAISSANCE SURVEY OF
PORTIONS OF
ARIZONA — NEW MEXICO
SILVER CITY QUADRANGLE

VOLUME 2-D

TEXAS INSTRUMENTS INCORPORATED
Dallas, Texas

NOVEMBER 1978

WORK PERFORMED UNDER
BENDIX FIELD ENGINEERING CORPORATION
GRAND JUNCTION OPERATIONS, GRAND JUNCTION, COLORADO
Subcontract No. 78-090-L and Bendix Contract EY-76-C-13-1664

PREPARED FOR THE
U.S. DEPARTMENT OF ENERGY
Grand Junction, Colorado 81501

CAUTION

This is a time release report.
Do not release any part of this
publication before

Mar 12, 1979

AERIAL RADIO-METRIC AND MAGNETIC

RECONNAISSANCE SURVEY OF

WESTERN

TEXAS

LEGAL NOTICE

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Department of Energy, nor any of their employees, nor any of their contractors, subcontractors, or their employees makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights.

Extra copies of Volumes 1 and/or 2 of this report and copies of all maps or profiles in Volume 2 at full scale (1:250,000) are available for purchase from:

Texas Instruments Incorporated
Airborne Geophysical Services
P.O. Box 225621 Mail Station 975
Dallas, Texas 75265

TABLE OF CONTENTS

Section	Title	Page
	ABSTRACT	i
I	INTRODUCTION	N-1
	A. GENERAL	N-1
	B. URANIUM GEOLOGY AND OCCURRENCES	N-1
	1. Uranium Occurrences	N-1
	2. Geologic Mapping	N-1
	3. Potential Uranium-Bearing Units	N-1
II	RADIOMETRIC DATA INTERPRETATION	N-3
	A. SELECTION OF URANIUM ANOMALIES	N-3
	1. Statistical Considerations	N-3
	2. Uranium Anomalies	N-3
	B. DATA TABLES AND HISTOGRAMS	N-6
	1. General	N-6
	2. Statistical Summary Tables	N-6
	3. Flight-Line Averages	N-7
	4. Histograms	N-7
	C. MAPS AND PROFILES	N-8
	1. General	N-8
	2. Profile Maps	N-8
	3. Radiometric Stacked Profiles	N-8
	4. Magnetic Stacked Profiles	N-8
	D. CONCLUSIONS	N-8
	1. General	N-8
	2. Uraniferous Provinces	N-10
	3. Suggestions for Further Work	N-10
III	REFERENCES	N-11
	LIST OF GEOLOGIC MAP UNITS	T-1
	STATISTICAL SUMMARY TABLES	T-2 through T-8
	FLIGHT-LINE AVERAGES	T-9 through T-14
	RECORD LOCATIONS AND GEOLOGY	M-1
	eU PROFILE MAP	M-2
	eU/eTh PROFILE MAP	M-3
	eU/K PROFILE MAP	M-4
	eTh PROFILE MAP	M-5
	K PROFILE MAP	M-6
	eTh/K PROFILE MAP	M-7
	RADIOMETRIC PROFILES	P-1 through P-47
	MAGNETIC PROFILES	P-48 through P-94
	SIX-PARAMETER HISTOGRAMS BY GEOLOGIC UNIT	H-1 through H-80

ABSTRACT

The results of a high-sensitivity aerial gamma-ray spectrometer and magnetometer survey of the Silver City Quadrangle, Arizona and New Mexico, are presented. Instrumentation and methods are described in Volume 1 of this final report. This work was done by Texas Instruments Incorporated under Bendix Field Engineering Corporation Subcontract No. 78-090-L as part of the U.S. Department of Energy National Uranium Resource Evaluation (NURE) Program.

Statistical and geological analysis of the radiometric data revealed 133 uranium anomalies worthy of field checking as possible prospects. Twenty-six anomalies suggest the presence of vein-type uranium in acid igneous rocks of Quaternary to Cretaceous age. Fourteen anomalies are related to Precambrian rocks, and five represent possible remobilized uranium in sedimentary rocks varying in age from Cretaceous to Cambrian. The presence of possible stratiform uranium deposits in basins is indicated by 79 anomalies in rocks of Quaternary to Tertiary age.

Ranges appearing most favorable for uranium mineralization include: Pinaleno Mountains, Cabezas-Chiricahua Mountains, Penoncillo Mountains, and Burro Mountains. Favorable valleys include: Wilcox Playa, those around Whitlock Mountains, and those on either sides of the Pyramid and Peloncillo Mountains.

SECTION I
INTRODUCTION

A. GENERAL

This volume contains information and survey results pertaining specifically to the Silver City, NTMS, 1:250:00 scale quadrangle, Arizona and New Mexico, one of a group of six such quadrangles, portions of south-east Arizona and southwest New Mexico, included in an aerial radiometric and magnetic reconnaissance survey. Information of a general nature concerning the instrumentation and methods used in data acquisition, processing, and interpretation is presented in Volume 1 of this final report.

The survey was conducted by Texas Instruments Incorporated under Bendix Field Engineering Corporation Subcontract No. 78-090-L as part of the U.S. Department of Energy National Uranium Resource Evaluation (NURE) Program.

B. URANIUM GEOLOGY AND OCCURRENCES

1. Uranium Occurrences

The radioactive deposits in Silver City Quadrangle include the White Signal and Black Hawk districts. In the White Signal district, autunite and torbernite are associated with veins and basic dikes cutting Precambrian granite and diabase. In the Black Hawk district, pitchblende is associated with base metals in quartz veins cutting Precambrian granite. Lovering (1956) believes that the uranium of the White Signal deposits probably derived from Precambrian granite rather than from Tertiary volcanics but indicates that insufficient studies have been made.

The deposits of the White Signal and Black Hawk districts lie within a northwestward-trending belt of Precambrian granites, gneisses, schists, and quartzites. Lovering suggests that some veins may contain primary uranium minerals below the zone of oxidation in the White Signal district.

Table 1-1 summarizes uranium occurrences in the Silver City Quadrangle (Keith, 1970; Lovering, 1956; Butler et al., 1962). Their locations are shown in Figure 2-1. None of these authors reports uranium production of any significance. Two carloads of ore were reportedly shipped from the Merry Widow claim (Lovering, 1956).

2. Geologic Mapping

The geologic map used for the survey of the Silver City Quadrangle was the 1:250,000-scale map produced by Texas Instruments Incorporated (1968). Table T-1 is a listing of the mapped geologic units.

3. Potential Uranium - Bearing Units

The occurrences in the Silver City Quadrangle are usually small and low in grade.

Vein-type occurrences are known to occur in granites and rhyolites in this quadrangle and elsewhere in the Basin and Range province. The mapped granites of Tertiary, Cretaceous, and Precambrian age, and the rhyolites of Quaternary to Cretaceous age are therefore potential uranium-bearing units. These units may also be source rocks for potential sedimentary occurrences in basins flanking the ranges.

Tertiary sediments that are possible hosts for sedimentary-type uranium deposits include lake sediments containing tuff and ash beds, sediments close to areas of volcanic activity, and interbedded arkosic sediments and volcanics (Keith, 1970). In this quadrangle the Quaternary-Tertiary Gila Conglomerate is a host to six occurrences in lake beds and evaporites, tuffs, and gravels.

The Cambrian Bliss Sandstone may be a potential host for vein- or breccia-type uranium mineralization modified from a former sedimentary-type deposit. This may have been the origin of one occurrence in Grant County (occurrence 18; see Table 1-1).

TABLE 1-1. URANIUM OCCURRENCES IN THE SILVER CITY QUADRANGLE
(After Keith, 1970, and Butler, et al., 1962)

No.	Name	Location	Description	Notes	No.	Name	Location	Description	Notes
1	White Bluffs Uranium area	Secs. 21, 22, 27 and 28, T. 8 S., R. 28 E. Graham Co.	Uranophane as coatings along bedding planes and on fractures of light-gray siliceous lake beds associated with interbedded diatomaceous earth, bentonitic clay and evaporites of Tertiary-Quaternary Gila Group. Some bleaching. Select samples ran 0.08 percent eU_3O_8 (Keith, 1970).	Prospected.	11	Merry Widow claim	Center Sec. 22, T. 20 S., R. 15 W. Grant Co.	Autunite and torbernite in quartz-pyrite veins near intersections of diabase or basalt dikes in Precambrian granite. Uranium content in 133 samples ranged from 0.001 to 0.11 percent. Uranium is apparently associated with phosphate (Keith, 1970).	Two carloads of ore shipped.
2	Flat Tire group	SE. 1/4 Sec. 9, T. 8 S., R. 28 E. Graham Co.	Carnotite-type mineral coating fractures in 12- to 15-foot bed of hard, greenish-brown clay of Tertiary-Quaternary Gila Group. Select samples ran as high as 1.38 percent eU_3O_8 (Keith, 1970).	Shallow shaft.	12	Apache Trail claim	Sec. 2, T. 20 S., R. 15 W. Grant Co.	Torbernite in diabase next to a fault. Two samples across the diabase contained 0.041 and 0.038 percent uranium (Lovering, 1956).	Prospect pits and shaft.
3	Last Chance group	SE. 1/4 Sec. 21, T. 8 S., R. 28 E. Graham Co.	Carnotite-type mineral as thin coatings in opalized seam in bedded clay and tuff of Gila Group. Low-grade values, 0.01 to 0.02 percent eU_3O_8 (Keith, 1970).	Location work.	13	Blue Jay claim	Secs. 23 and 26, T. 20 S., R. 15 W. Grant Co.	Secondary uranium minerals in intermediate or basic dikes near oxidized quartz-pyrite veins. Country rock is Precambrian granite. Near fractures and veins basalt and diabase contain up to 0.085 percent uranium (Lovering, 1956).	Overburden removed, but no ore produced.
4	Pluto group	SW. 1/4 Sec. 22, T. 8 S., R. 28 E. Graham Co.	Unidentified uranium mineral in lake bed, interbedded clays, and tuff of Gila Group. Select sample ran 0.01 percent eU_3O_8 (Keith, 1970).	Dozer cut.	14	Monarch No. 2 claim	Sec. 19, T. 20 S., R. 15 W., Grant Co.	Autunite in rhyolite dike. A grab sample contained 0.011 percent uranium (Lovering, 1956).	Prospect pit.
5	Royal John	South central Sec. 22, T. 8 S., R. 28 E. Graham Co.	Carnotite-type mineral in bedded tuffs and clays of lake bed sediments of Gila Group. Select sample ran 0.01 percent eU_3O_8 (Keith, 1970).	Dozer cuts and pit.	15	Tunnel Site No. 1 claim	SE. 1/4, NE. 1/4 Sec. 26, T. 20 S., R. 15 W. Grant Co.	Radioactivity in quartz-pyrite veins in Precambrian granite cut by rhyolite dikes. A sample assayed 0.018 percent eU and 0.001 percent uranium (Lovering, 1956).	Small shaft and adit.
6	Canuk group	Probably SE. 1/4 Sec. 23, T. 8 S., R. 28 E. Graham Co.	Carnotite-type mineral as coating on fractures in opalized beds in lake bed sediments, tuffs, and gravels of Gila Group. Samples ran 0.01 to 0.07 percent eU_3O_8 (Keith, 1970)	Prospect pits.	16	Uncle Sam Silver mines	Sec. 32, T. 20 S., R. 14 W. Grant Co.	Radioactivity in shear zone in Precambrian granite (Lovering, 1956).	Shafts, adits, stopes, and prospect pits.
7	Colondrina claims	Approx. SE. 1/4 Sec. 13, T. 11 S., R. 25 E. (Unsurveyed) Graham Co.	Radioactive pyromorphite, quartz, and limonite in cavities and fractures in layer of agglomerate or flow breccia and porphyritic volcanics. Trace of copper minerals. Generally low grade, but some samples ran as high as 0.26 percent eU_3O_8 (Keith, 1970).	Prospect pits and adit.	17	Black Hawk district	Secs. 20, 21, 28 and 29, T. 18 S., R. 16 W. Grant Co.	Pitchblende reported but not verified. Silver in carbonate veins in Precambrian porphyritic gneiss (Lovering, 1956).	Old silver deposits
8	Stony Peak claims	Sec. 20, T. 10 S., R. 25 E. Graham Co.	Autunite and uranophane with fluorite stringers on fracture planes in granite. Samples ran 0.14 and 0.27 percent U_3O_8 (Keith, 1970).	Surface prospecting.	18	Hines No. 1 prospect	NE. 1/4 Sec. 34, T. 21 S., R. 14 W. Grant Co.	Fluorite and autunite(?) in quartzite breccia of Cambrian Bliss(?) sandstone. Two channel samples contained 0.004 percent uranium, and a grab sample assayed 0.027 percent eU (Lovering, 1956).	Prospect pits.
9	Valley View claims	Approx. SE. 1/4 Sec. 22, T. 13 S., R. 26 E. Cochise Co.	Radioactivity associated with altered dense gray rock and in quartz vein in granite. Some disseminated sulfides. Samples ran 0.04, 0.06, and 0.19 percent U_3O_8 (Keith, 1970).	Pits.	19	Langford prospect	S. 1/2 Sec. 25, T. 22 S., R. 16 W. Grant Co.	Fluorite and autunite(?) in silicified breccia zone cutting Precambrian granite (Lovering, 1956).	Undeveloped.
10	Uranium Hill claims	Sec. 32, T. 14 S., R. 28 E. Cochise Co.	Radioactivity associated with quartz-fluorite-iron oxide veins in porphyritic granite. Core samples assayed 0.30 and 1.09 percent U_3O_8 (Keith, 1970).	Diamond drill holes.	20	Prince Albert No. 1	32° 46' N., 108° 33' W.	Vein-type occurrence. Contains at least 0.1 percent U_3O_8 (Butler et al., 1962).	
					21	Oil Center Tool Co.	32° 44' N., 108° 24' W.	Vein-type occurrence. Contains at least 0.1 percent U_3O_8 (Butler et al., 1962).	Undeveloped.

SECTION II
RADIOMETRIC DATA INTERPRETATION

A. SELECTION OF URANIUM ANOMALIES

1. Statistical Considerations

Each of the equivalent uranium, equivalent uranium/equivalent thorium, and equivalent uranium/potassium data sets was computer processed to identify and outline all individual or groups of statistically high data points on the following basis. If a single statistically high point is considered in terms of multiples of the standard deviation above the mean (i.e., significance factor), the probability that its value was caused by random variation of the background is shown in Table 2-1.

Table 2-1
Probability That a Single Statistically High Point
is Caused by Random Deviations*

<u>Point Value</u>	<u>Probability</u>
Mean + 1 standard deviation	0.1587 or 1:6.3
Mean + 2 standard deviations	0.0228 or 1:44
Mean + 3 standard deviations	0.0013 or 1:768

*A probability is determined as the area under the standardized normal distribution curve above the indicated value.

The maximum probability of 1:768 was used to judge the reliability of single, isolated, statistically high points in the data interpretation.

Spatial groupings of statistically high values are less probable than is a scattering of the same values over the map unit. If a spatial grouping consists of adjacent statistically high points, the probability (P) that all the points were caused by random fluctuations is:

$$P = P_1 \cdot P_2 \cdot P_3 \cdots P_n$$

where P_1, P_2, \dots, P_n represent the single-point probabilities for n points.

Assuming the same certainty criterion of 1:768, Table 2-2 gives the minimum requirements for all adjacent points in a reliable anomaly. This allows groupings of statistically high (or low) points more than 0.87 standard deviation from the mean to be evaluated.

Table 2-2
Minimum Deviation from the Mean for all Points for
Limiting Probability of 1:768 (Elkins, 1940)

<u>Number of Points Supporting Anomaly</u>	<u>Minimum Deviation</u>
1	3.00 standard deviations
2	1.79 standard deviations
3	1.22 standard deviations
4	0.87 standard deviation

2. Uranium Anomalies

Data for the Silver City Quadrangle, including eU,* eU/eTh,* and eU/K,* were searched by the computer, and all acceptable significant anomalies were identified. These were printed out on the "preferred-anomaly" map (Figure 2-1) as asterisk symbols for each tenth data point constituting a valid anomaly. The eU anomalies are indicated by asterisks along the flight line, and eU/eTh anomalies are shown by asterisks north of E-W flight lines and east of N-S flight lines. The eU/K anomalies are indicated by asterisks south of E-W flight lines and west of N-S flight lines.

Next, eU anomalies showing a geochemical enrichment of eU over the eTh and/or K present were identified. First-priority anomalies are those that show simultaneous statistically valid eU, eU/eTh, and eU/K anomalies. The preferred-anomaly map (Figure 2-1) has been marked to indicate the locations of all first-priority anomalies, and they are described in Table 2-3.

*eU = Equivalent uranium measured by bismuth-214.
eTh = Equivalent thorium measured by thallium-208.
K = Potassium measured by potassium-40.

TABLE 2-3. PREFERRED eU ANOMALIES — SILVER CITY QUADRANGLE

Anomaly No.	Line No.	Geologic Units(s)	Highest eU SF*	No. of Annotated Records	Remarks	Anomaly No.	Line No.	Geologic Units(s)	Highest eU SF*	No. of Annotated Records	Remarks	Anomaly No.	Line No.	Geologic Units(s)	Highest eU SF*	No. of Annotated Records	Remarks	Anomaly No.	Line No.	Geologic Unit(s)	Highest eU SF*	No. of Annotated Records	Remarks
1	201	QTg	1.0	1	Slight eU enrichment	56	215	QTg	1.7	1	Possible uranium prospect	113	10	QTg	1.5	2	Possible uranium prospect	170	22	Qab	1.8	1	Possible uranium prospect
2	202	QTg	2.5	1	Possible uranium prospect	57	215	QTg	1.4	2	Possible uranium prospect	114	223	QTg	2.0	1	Possible uranium prospect	171	23	Tvu	1.9	1	Possible uranium prospect
3	204	QTg	1.5	2	Possible uranium prospect	58	215	QTg	1.4	2	Possible uranium prospect	115	223	Qab/QTb	2.3	7	Possible uranium prospect	172	23	Qb	1.2	1	Slight eU enrichment
4	204	p6gn	1.8	1	Possible uranium prospect	59	215	Qab	1.1	1	Slight eU enrichment	116	13	QTb	1.7	2	Possible uranium prospect	173	224	Qab	2.0	1	Possible uranium prospect
5	204	p6gn	1.0	1	Slight eU enrichment	60	215	Qab	1.0	1	Slight eU enrichment	117	223	Qab	1.3	1	Slight eU enrichment	174	23	Qab	1.1	1	Slight eU enrichment
6	8	p6gn	1.1	1	Slight eU enrichment	61	216	QTb	2.0	2	Possible uranium prospect	118	223	Qab	2.7	2	Possible uranium prospect (Tv)	175	224	Qab	1.7	1	Possible uranium prospect
7	19	Qlc	1.3	1	Possible railroad fill	62	216	Qb/Qab/QTg	1.6	2	Possible uranium prospect	119	223	Tv	2.3	1	Possible uranium prospect (Tv)	176	23	Qab	1.1	1	Slight eU enrichment
8	19	Qlc	2.1	1	Possible uranium prospect	63	216	QTg/Qal	3.5	4	Possible uranium prospect	120	223	Tv	2.1	1	Possible uranium prospect (Tv)	177	5	Td	2.5	1	Possible uranium prospect
9	205	QTg/Qal	1.7	5	Possible uranium prospect	64	216	p6gn	1.5	1	Possible uranium prospect	121	223	Qab	1.8	1	Possible uranium prospect (Tv)	178	5	Td	2.0	2	Possible uranium prospect
10	205	QTg	1.5	1	Possible uranium prospect	65	217	QTg	1.3	2	Slight eU enrichment	122	223	Qab	1.0	1	Slight eU enrichment	179	5	Td	1.9	1	Possible uranium prospect
11	205	QTg	2.0	1	Possible uranium prospect	66	217	QTb	1.1	1	Slight eU enrichment	123	223	Tv1	2.3	3	Possible uranium prospect	180	6	Td	1.0	1	Slight eU enrichment
12	205	QTg/p6gn	2.3	3	Possible uranium prospect	67	217	QTb	2.1	2	Possible uranium prospect	124	18	Tv1	1.9	1	Possible uranium prospect	181	6	Ku	1.0	1	Slight eU enrichment
13	205	p6gn	1.2	1	Slight eU enrichment	68	217	QTb	2.3	1	Possible uranium prospect	125	18	Qab	2.1	1	Possible uranium prospect	182	225	Qal	2.7	1	Possible uranium prospect
14	205	p6gn	1.1	1	Slight eU enrichment	69	217	Qab	1.7	1	Possible uranium prospect	126	19	Qab	1.0	1	Slight eU enrichment	183	9	QTg	1.4	1	Possible uncompensated U-air
15	8	p6gn	2.0	1	Possible uranium prospect	70	19	Qab	1.6	2	Possible uranium prospect	127	223	Qab	1.3	1	Possible uranium prospect	184	9	p6	1.0	1	Slight eU enrichment
16	205	p6gn	1.7	1	Possible uranium prospect	71	217	MD	2.0	1	Possible uranium prospect	128	20	Qab	1.2	2	Possible uranium prospect	185	225	Qab	2.5	1	Possible uranium prospect
17	205	Qab	2.1	1	Possible uranium prospect	72	19	Qab	1.0	1	Slight eU enrichment	129	20	Qab	1.3	1	Possible uranium prospect	186	19	Tb/Tp/Qab	3.0	15	Possible uncompensated U-air
18	206	QTg/Qal	2.6	6	Possible uranium prospect	73	219	Ts	1.0	1	Slight eU enrichment	130	223	Qab	1.2	1	Slight eU enrichment	187	20	Qab	2.0	3	Possible uranium prospect
19	206	Qal	1.8	1	Possible road fill	74	219	Ts	2.5	1	Possible uranium prospect	131	223	Qab	1.7	2	Possible uranium prospect	188	20	Qab	1.7	2	Possible uranium prospect
20	206	QTg	3.1	2	Possible uranium prospect	75	220	QTb	0.9	1	Slight eU enrichment	132	1	QTb	1.5	1	Possible uranium prospect	189	20	Qab	1.4	2	Possible uranium prospect
21	206	p6gn	2.4	1	Possible uranium prospect	76	220	QTg	0.9	1	Slight eU enrichment	133	3	QTb	1.0	2	Slight eU enrichment	190	20	Tv1	2.0	1	Possible uncompensated U-air
22	206	p6gr	2.0	1	Near occurrence 8	77	220	QTb	1.5	1	Possible uranium prospect	134	3	QTr	1.5	1	Possible uranium prospect	191	225	Qab	1.0	1	Slight eU enrichment
23	206	Tr	1.0	1	Slight eU enrichment	78	220	QTb	1.5	1	Possible uranium prospect	135	5	QTg	1.8	1	Possible uranium prospect	192	21	Qab/Kv	2.8	1	Possible uranium prospect
24	206	Qab	1.4	3	Slight eU enrichment	79	220	Qab	1.2	1	Slight eU enrichment	136	8	Td	1.3	1	Possible uncompensated U-air	193	22	Tb/Twt	1.1	1	Slight eU enrichment
25	206	Qab	1.0	1	Slight eU enrichment	80	19	Qab	1.1	2	Possible uranium prospect	137	8	Td	1.0	1	Possible uranium prospect	194	23	Qab	1.2	1	Slight eU enrichment
26	206	Qws	2.4	1	Possible uranium prospect	81	221	QTg	1.2	1	Possible uranium prospect	138	8	QTg	1.2	1	Possible uranium prospect	195	23	Qab	1.7	1	Possible uranium prospect
27	19	Qlc	1.6	1	Possible uranium prospect	82	221	QTg	1.0	1	Slight eU enrichment	139	9	QTg/Td	1.7	9	Possible uranium prospect	196	1	Qal	1.0	2	Slight eU enrichment
28	206	Qws/Qlc	2.1	1	Possible uranium prospect	83	221	Qal	1.5	1	Possible uranium prospect (QTg)	140	9	Td	1.3	2	Possible uranium prospect	197	1	QTg	1.0	1	Slight eU enrichment
29	206	Qls/Qab	2.5	4	Possible uranium prospect	84	221	QTb/Qal	1.0	1	Slight eU enrichment	141	9	QTg	1.1	1	Possible uranium prospect	198	5	SOG	2.3	1	Possible uranium prospect
30	206	Qab	2.4	2	Possible uranium prospect	85	221	QTb	1.5	1	Possible uranium prospect	142	9	QTg	1.7	1	Possible uranium prospect	199	7	Td	2.5	1	Near occurrence 21
31	207	p6gr	1.0	1	Slight eU enrichment	86	222	QTg	1.1	1	Slight eU enrichment	143	9	QTg	2.0	1	Possible uncompensated U-air	200	8	QTg	1.8	1	Possible uranium prospect
32	19	Qab	1.0	1	Slight eU enrichment	87	222	QTg	1.2	1	Slight eU enrichment	144	13	Qab	1.5	2	Possible uranium prospect	201	9	TKi	2.1	2	Possible uranium prospect
33	209	QTal	1.5	1	Possible uranium prospect	88	8	QTg	2.0	5	Possible uncompensated U-air	145	15	Qab	2.1	1	Possible uranium prospect	202	10	p6/TKi	1.2	2	Slight eU enrichment
34	210	QTg/Qal	1.9	10	Possible uranium prospect	89	8	Qal	1.3	1	Possible uncompensated U-air	146	224	Qab	1.9	2	Possible uranium prospect	203	10	p6	1.9	1	Near occurrence 12
35	210	p6gr	1.0	1	Slight eU enrichment	90	8	Qal	2.0	1	Possible uncompensated U-air	147	224	Qab	3.0	1	Possible uranium prospect	204	11	p6	1.9	1	Near occurrence 13
36	210	p6gr	2.0	1	Possible uranium prospect	91	9	QTg	1.5	1	Possible uranium prospect	148	224	Qab	2.4	2	Possible uranium prospect	205	12	QTg	2.0	1	Possible uranium prospect
37	19	O6ea/Eb	2.3	1	Possible uranium prospect	92	10	QTg	1.7	1	Possible uranium prospect	149	224	Qab	3.1	1	Possible road fill	206	226	QTg	1.6	1	Possible uranium prospect
38	211	QTb	1.5	2	Possible uranium prospect	93	222	QTb	1.0	1	Slight eU enrichment	150	17	Kgd	1.7	1	Possible uranium prospect	207	13	p6	1.0	1	Slight eU enrichment
39	211	QTb	1.5	2	Possible uranium prospect	94	15	Tv	1.0	1	Slight eU enrichment	151	17	Kv	2.0	1	Possible uranium prospect	208	226	p6	3.3	1	Possible uranium prospect
40	211	QTg	2.1	4	Possible uranium prospect	95	16	Tv	2.0	1	Possible uranium prospect	152	18	Qab	2.1	1	Possible uranium prospect	209	226	p6	2.2	3	Possible uranium prospect
41	211	Qal	3.0	2	Possible uranium prospect (QTg)	96	18	Qab	1.3	1	Possible road fill	153	224	Qab	2.4	1	Possible uranium prospect	210	15	Qvr	2.5	1	Possible uranium prospect
42	211	Qal	2.0	1	Possible uranium prospect (QTg)	97	22	Qab	1.3	1	Slight eU enrichment	154	19	Qab	2.5	5	Possible uranium prospect	211	226	Qab	2.7	1	Possible uranium prospect
43	211	Qab	1.1	1	Slight eU enrichment	98	1	Td	2.5	3	Possible uranium prospect	155	224	Qab	2.0	1	Possible uranium prospect	212	19	Qab	2.3	2	Possible uranium prospect
44	211	Qab	2.3	1	Possible uranium prospect	99	1	QTb	2.0	1	Possible uranium prospect	156	19	Qab	2.0	2	Possible uranium prospect	213	19	Qab	1.8	1	Possible uranium prospect
45	211	Tv/QTal	2.2	2	Possible uranium prospect	100	3	Kv	1.3	1	Slight eU enrichment	157	19	Qab	1.6	3	Possible uranium prospect	214	21	Qab/Tv1	2.5	1	Possible uranium prospect
46	212	QTg	1.0	1	Slight eU enrichment	101	5	QTg	1.1	2	Possible uranium prospect	158	19	Qab	1.6	2	Possible uranium prospect	215	226	Qab	2.0	1	Possible uranium prospect
47	8	QTg	1.8	1	Possible uranium prospect	102	5	QTg	1.2	1	Possible uranium prospect	159	19	Tp	2.1	1	Possible uranium prospect	216	23	Qb	1.0	1	Slight eU enrichment
48	212	p6gn	1.3	1	Slight eU enrichment	103	5	QTg	1.0	1	Slight eU enrichment	160	224	Qab	2.2	1	Possible uranium prospect	217	1	Td	2.2	1	Possible uranium prospect
49	212	p6gn	2.0	2	Possible uranium prospect	104	5	Kv/Td	2.3	3	Possible uranium prospect	161	20	Qab	2.3	1	Possible uranium prospect	218	227	QTb	1.3	2	Slight eU enrichment
50	214	QTb	1.6	1	Possible uranium prospect	105	5	Kv	2.2	3	Possible uranium prospect	162	224	Qab	2.0	1	Possible uranium prospect	219	227	Td	1.9	2	Possible uranium prospect
51	214	QTb	2.0	1	Possible uranium prospect	106	8	Qal	1.4	1	Possible uncompensated U-air	163	224	Qab	2.7	1	Possible uranium prospect	220	228	Td/QTb	1.7	1	Possible uranium prospect
52	214	QTg	4.0	1	Near occurrences 1 to 6	107	8	Qal/QTg	2.0	1	Possible uranium prospect	164	21	Qab	3.0	1	Possible uranium prospect	221	228	FMD	1.0	1	Slight eU enrichment
53	19	p6ac/p6gr/Kbl/Qab	3.4	5	Over occurrence 10	108	8	Qal	1.8	2	Possible uranium prospect	165	21	Qab	1.6	1	Possible uranium prospect	222	5	PM	1.2	2	Possible road fill
54	215	QTg/Kv	2.0	1	Possible uranium prospect	109	8	QTg	1.0	1	Possible uncompensated U-air	166	21	Qab	2.0	2	Possible uranium prospect	223	5	Ku/FMD	1.5	2	Possible road fill
55	215	QTg	1.5	1	Possible uranium prospect	110	9	QTg	2.2	3	Possible uranium prospect	167	21	Ta	2.0	3	Possible uranium prospect	224	228	Ku/Td	1.4	2	Slight eU enrichment
						111	9	QTg	1.1	1	Possible uncompensated U-air	168	224	Qab	2.7	1	Possible uranium prospect	225	228	Qab	2.0	1	Possible road or railroad fill
						112	10	QTg	1.5	2	Possible uranium prospect	169	224	Qab	3.0	2	Possible uranium prospect	226	19	SOG	1.1	2	Slight eU enrichment

*SF = Significance factor
 ○ = Possible uranium prospect.

SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978

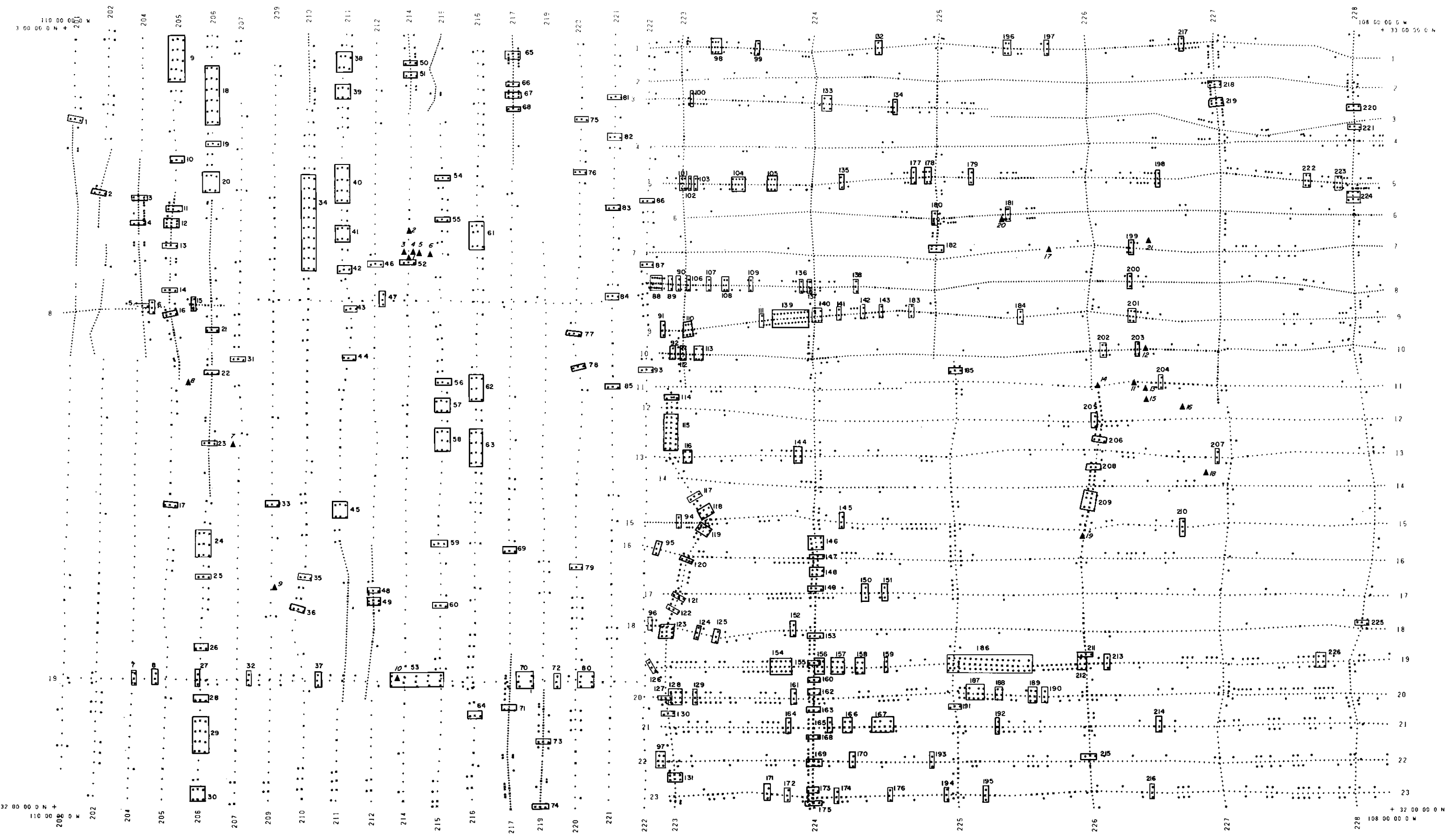


Figure 2-1. Preferred Anomaly Map

- ▲ ASTERISK N OR E OF LINE-STATISTICALLY SIGNIFICANT +U/+TH ANOMALY.
- ▲ ASTERISK ON LINE-STATISTICALLY SIGNIFICANT +U ANOMALY.
- ▲ ASTERISK S OR W OF LINE-STATISTICALLY SIGNIFICANT +U/K ANOMALY.
- LIGHT OUTLINE-FIRST-PRIORITY ANOMALY WITH +U, +U/+TH, AND +U/K SIMULTANEOUSLY ANOMALOUS.
- HEAVY OUTLINE-POSSIBLE URANIUM PROSPECT.
- ▲ KNOWN URANIUM OCCURRENCE

The data user can outline these anomalies on the appropriate profile maps to evaluate more quantitatively the relative magnitudes of the anomalies. The profile maps also are useful in delineating areas relatively depleted of uranium that was removed by geochemical activity and concentrated in nearby deposits. Recent study has shown that the Gas Hills and Shirley Basin uranium districts are accompanied by uranium-barren altered areas detectable by aerial gamma-ray spectrometry (Texas Instruments, 1977).

Second-priority anomalies that under special circumstances may indicate potential uranium prospects are those showing a combination of two statistically valid anomalies out of the three parameters, eU, eU/eTh, and eU/K. These are easily identifiable on the preferred-anomaly map. Examples of special situations where second-priority anomalies can be important indicators of uranium prospects are given in Table 2-4.

Table 2-4

Examples of Potentially Important Second-Priority Anomalies (Texas Instruments, 1977)

<u>Valid Anomalies</u>	<u>No Anomaly</u>	<u>Locality Description</u>
eU + eU/K	eU/eTh	Shirley Basin, Wyoming; high thorium due to surface layer of monazite yields normal eU/eTh even in areas where eU is anomalously high.
eU + eU/eTh	eU/K	Regions with surface evaporite deposits rich in potash yield normal eU/K even when eU is anomalously high.
eU/eTh + eU/K	eU	Areas of water-saturated surface material or heavy vegetation can shield eU, eTh, and K radiations simultaneously, but the ratios will still reflect the hidden relative eU enrichment.

B. DATA TABLES AND HISTOGRAMS

1. General

Microfiche copies of the single-record and averaged-record data listings are included in Volume 1 of this report. Statistical summary tables, flight-line mean values, and histograms for the gamma-ray parameters are presented by geologic unit in this volume. Further explanatory details are given in Volume 1.

2. Statistical Summary Tables

Tables showing the distribution types, statistical parameters and number of samples for each geologic formation are presented for eU, eTh, K, eU/eTh, eU/K, and eTh/K in the Tables section. These are useful in studying the magnitudes and variations of the radioactivity of the formations relative to one another and to the normal U, Th, and K abundances in the lithologic types represented. Approximate conversion factors from counts per second to concentration units are given in Table 2-5

Examination of the Statistical Summary Tables shows Tvu-2 (Tertiary rhyolite) to have the highest mean eU content. It appears somewhat higher in eU and K than expected (see Tr-4 and pEsc-3) and is possibly porphyritic.

Table 2-5
Calibration Constants*

<u>Element</u>	<u>Constant</u>
eU	9.8 cps/ppm
eTh	4.8 cps/ppm
K	75.1 cps/%

*Based on Lake Mead Test Strip calibration of 9 October 1977.

3. Flight-Line Averages

Mean values for eU, eTh, K, eU/eTh, eU/K, and eTh/K by geologic unit for each flight line in the Silver City Quadrangle are given in the Tables section. These may be used to study the variation in gamma-ray parameters within a formation as one crosses the quadrangle from north to south or from east to west.

4. Histograms

Histograms for each radiometric parameter are presented for each geologic unit in the Histograms section. Several histograms showed multimodal distributions that indicated the presence of more than one distinct lithology in that geologic unit. In situations where the multimodal characteristic of a histogram was obvious, the unit was divided into two or more populations by splitting the histogram based on eTh or K but not eU. For example, in the case of Qvr (Quaternary volcanic rocks), the Th histogram could be reasonably split at one point. The distribution of the unsplit unit is shown in H-7, and the distributions after splitting are shown in H-8 and H-9. New means and standard deviations were calculated before computerized geologic analysis of the data. Table 2-6 summarizes all the histogram splits for the quadrangle. The eU, eTh, and K medians for the resulting subunits are given in concentration units computed from the Statistical Summary Tables and the calibration constants in Table 2-5. Comparing the values in Table 2-6 with the estimated crustal averages for various rock types (Table 2-7) compiled by Kogan et al. (1971; see also Saunders and Potts, 1978) allows at least a reasonable estimate of the probable average lithology of the units. For example, Qvr (Quaternary volcanic rocks) may consist of intermediate (andesite-dacite) volcanic rocks (Qvr-1) and rhyolitic rocks (Qvr-2). The subunit Qvr-1 has characteristics similar to Qb (Quaternary basalt). Another good example is Tr (Tertiary rhyolite), which may be divided into andesite (Tr-1), dacite (Tr-2), latite (Tr-3), and rhyolite (Tr-4). These are probable average lithologies and are only valid if the subunit is homogeneous.

Table 2-6
Radiometric Analyses of Selected Map Units

Geologic Unit	Split on (cys)	eTh (ppm)	eU (ppm)	K (%)	$\frac{eTh}{eU}$	Probable Lithology
Qvr-1	Th = 95	11.7	3.8	3.57	3.1	Dacite-andesite
Qvr-2		28.6	7.1	4.47	4.0	Rhyolite
Tr-1	Th = 54	8.1	2.2	3.97	3.7	Andesite
Tr-2	Th = 85	14.5	4.5	4.09	3.2	Dacite
Tr-3	Th = 163	22.5	6.3	4.43	3.6	Latite
Tr-4		37.9	9.6	3.74	4.0	Rhyolite
Tvu-1	Th = 166	29.7	8.8	7.62	3.3	Latite-rhyolite (K-rich)
Tvu-2		37.8	12.3	6.79	3.0	Rhyolite (K-rich)
Twt-1	Th = 85	14.8	4.9	3.20	3.0	Dacite
Twt-2		21.7	5.9	4.70	3.7	Latite (tuff?)
Tp-1	K = 233	9.6	2.8	2.54	3.4	Andesite
Tp-2		18.0	5.9	4.10	3.0	Latite (tuff?)
Kbi-1	K = 76	4.3	2.5	0.73	1.7	Calcareous (?) sandstone
Kbi-2	K = 138	6.9	2.9	1.36	2.4	Sandstone
Kbi-3	K = 295	10.5	4.0	2.58	2.6	Shale
Kbi-4		23.2	4.0	4.68	5.9	Latite-rhyolite
IPm-1	K = 200	6.5	3.8	1.05	1.7	Calcareous sandstone
IPm-2		12.6	2.4	4.02	5.3	Dacite-andesite(?)
IPMD-1	K = 124	6.2	3.8	0.78	1.6	Calcareous sandstone
IPMD-2		8.9	3.7	2.54	2.4	Sandy shale
MD-1	K = 148	4.2	3.1	0.80	1.4	Calcareous sandstone
MD-2		11.3	3.9	2.98	2.9	Shale
SO6-1	K = 129	3.8	2.2	0.83	1.7	Sandy limestone
SO6-2	K = 200	8.6	3.3	2.14	2.6	Sandy shale
SO6-3	K = 316	12.9	3.0	3.44	4.3	U-rich shale
SO6-4		21.1	6.6	4.97	3.2	Shale
p6sc-1	Th = 95	11.5	3.5	2.64	3.2	Metagraywacke(?)
p6sc-2	Th = 155	24.5	6.0	4.22	4.0	Metavolcanic (latite)
p6sc-3		40.2	8.7	4.6	4.5	Metavolcanic (rhyolite)
p6gn-1	Th = 132	13.9	3.1	3.11	4.5	Gneiss (intermed. igneous rock)
p6gn-2		35.1	7.4	4.47	4.8	Granite gneiss (cf p6sc-3)

Table 2-7
Average U, Th, K Content of Rocks
(after Kogan et al., 1971)

Rock Type	Average Values			
	U (ppm)	Th (ppm)	K (%)	Th/U
Continental Crust	2.5	13.0	2.5	5.2
Igneous Rocks				
Acidic (granites)	3.5	18.0	3.34	5.1
Intermediate (diorites)	1.8	7.0	2.31	4.0
Basic (basalt-gabbro)	0.5	3.0	0.83	6.0
Ultrabasic (dunite-peridotite)	0.003	0.005	0.03	1.7
Sediments				
Shale, clay	4.0	11.0	3.2	2.8
Sandstone	3.0	10.0	1.2	3.3
Limestone	1.4	1.8	0.3	1.3
Evaporite	0.1	0.4	0.1	4.0

C. MAPS AND PROFILES

1. General

Explanatory details concerning the generation and presentation of maps and profiles are given in Volume 1.

2. Profile Maps

Profile maps showing the significance-factor levels for eU, eTh, K, eU/eTh, eU/K, and eTh/K on geologic bases are presented in the Maps section, along with a map showing the record locations and geology (M-1 through M-7). These may be compared directly with the preferred-anomaly map (Figure 2-1) to determine the relative strengths of the eU, eU/eTh, and eU/K anomalies and their geologic locations. They are also useful in studying the geographic variations in the other radiometric parameters.

3. Radiometric Stacked Profiles

Stacked profiles showing the variation in absolute magnitudes of eU, eTh, K, eU/eTh, eU/K, and eTh/K, as well as gross count, residual magnetic field, terrain clearance, eU-air values, and geology along each

flight line are presented in the Profiles section (P-1 through P-47). This presentation provides a convenient way of examining simultaneously all the data at each averaged-record location. The data, as shown, are not corrected for geology (as in the case with the profile maps) and provide an opportunity to study the relative differences in counting rates among the geologic units.

The altitude (terrain-clearance) trace allows identification of portions of flight lines where terrain-clearance requirements were exceeded and the data were discarded in the statistical processing. The averaged-record locations are flagged along the baseline. The eU, eTh, and K traces are similarly flagged for data discarded because of Currie significance test failure. The discarded data points are included in the stacked profiles and may be examined, keeping in mind that they are generally statistically unreliable. If the rock types are sufficiently radioactive, normal terrain clearance may be exceeded somewhat with reasonable reliable statistics, and the added information may be useful.

4. Magnetic Stacked Profiles

The single-record (unaveraged) data on flight-level air temperature, flight-level barometric pressure, average terrain clearance, diurnal magnetics, residual total magnetic field, and geology are shown for each flight line in the Profiles section (P-48 through P-94).

D. CONCLUSIONS

1. General

Table 2-8 lists the number of first-priority anomalies and the total number of eU records in each formation.

One hundred and thirty-three of the 226 first-priority anomalies in this quadrangle have been classified as possible uranium prospects based on their geologic location and eU-anomaly characteristics. First-priority anomalies that registered a maximum significance factor near unity were

Table 2-8
Geologic Units with eU Anomalies

Geologic Unit	Number of First-Priority Anomalies	Total Number of eU Records	Geologic Unit	Number of First-Priority Anomalies	Total Number of eU Records
Qab	73	27,984	Tki	2	1,088
Qa1	16	2,020	Ku	3	920
Qlc	4	310	Kc	-	40
Qls	1	109	Kbi	1	200
Qws	2	200	Kv	6	3,213
Qds	-	30	Kgd	1	30
Qbr	-	0	Kib	-	0
Qvr	1	180	Klp	-	10
Qv	-	0	PIP	-	90
Qb	3	205	PIPe	-	10
QTg	51	15,688	IP	-	0
QTa1	2	510	IPh	-	10
QTr	1	130	IPM	1	110
QTb	21	5,247	IPMD	2	408
Ts	2	354	Me	-	10
Tr	1	660	MD	1	180
Tv	5	1,150	Dp	-	30
Td	15	5,578	SOE	2	309
Tvu	1	70	OGea	1	20
Tv1	4	530	Et	-	10
Trb	-	20	Eb	1	0
Tnr	-	10	pE	7	3,393
Tper	-	20	pEsc	1	423
Twt	1	70	pEp	-	0
Tb	2	140	pEgn	12	1,631
Tp	2	513	pEgr	5	1,156
Ta	1	656	Tm	-	10
TKs	-	10			

considered only slightly enriched in eU. If the anomaly was associated with a unit known to be uranium bearing, it was classified as a possible uranium prospect if the significance factor was near 1.5 or greater. Numerous anomalies are located over Quaternary alluvium or colluvium and may be anomalous material (such as granite or rhyolite debris) in low background clastics. However, they were still classified as possible uranium prospects if the significance factor was high because they may point to uranium mineralization.

The topography in the survey area is such that inversions can be quite common and can cause many large anomalies in valleys. Uncompensated U-air anomalies may have occurred on flight lines 8 and 9 in the central part of the quadrangle and on flight lines 19 to 21 in the south-central part of the quadrangle.

Forty-five preferred anomalies may be indicative of vein-type uranium prospects. Twenty-five of these are associated with volcanic rocks varying in age from Quaternary to Cretaceous. Only one anomaly is associated with a Cretaceous intrusive. Fourteen anomalies indicate possible uranium prospects in Precambrian rocks, and five represent possible remobilized uranium mineralization in sedimentary rocks varying in age from Cretaceous to Cambrian. These latter units include Kbi (Cretaceous Bisbee Formation), MD (Missippian-Devonian rocks), SOE (Silurian-Ordovician-Cambrian rocks), OGea (Ordovician-Cambrian El Paso and Abrigo Formation), and Eb (Cambrian Bolsa Quartzite).

Sedimentary uranium derived from acid intrusives and volcanics may have been deposited in the basins flanking the ranges. There are 79 anomalies that could represent uranium emplaced in this manner. These include possible prospects in QTg (Quaternary-Tertiary Gila Conglomerate), Qab (Quaternary sediments), Qlc (Quaternary lake deposited clay), Qls (Quaternary lake deposited sand and silt), and Ts (Tertiary sedimentary rocks).

The numerous anomalies in QTb (Quaternary-Tertiary basalt) may be the consequence of its interlayering with the Gila Conglomerate, which is higher in eU by about 0.8 ppm. However, this possibility needs verification.

Several anomalies are located in Quaternary and Tertiary basalts (Qb and Tb) and may be the result of geologic misclassification.

2. Uraniferous Provinces

In this quadrangle the first-priority anomalies are located not only in ranges and along their flanks, but also in valleys. Atmospheric inversions are known to occur frequently in this area throughout the day, and particularly in valleys. Thus, the possibility of obtaining numerous uncompensated U-air anomalies in valleys is significant, and this should be borne in mind when valley anomalies are being checked. Apparently favorable ranges include the Pinaleno Mountains in the northwest, the Cabezas-Chiricahua Mountains in the southwest, the Penoncillo Mountains in the central part of the quadrangle, and the Burro Mountains in the northeast.

Valleys requiring attention include the Wilcox Playa in the southwest, the valleys around Whitlock Mountains in the northwest, and the valleys on either sides of Pyramid Mountains and Peloncillo Mountains in the south.

3. Suggestions For Further Work

The primary objective of this survey is to locate areas favorable for the occurrence of uranium. The low-density coverage during this reconnaissance survey precludes inferences regarding the presence or absence of deposits over most of the area. The probabilities for encountering individual deposits in this type of survey are low, and consequently it will be necessary to conduct more detailed surveys (airborne or ground) in the most promising areas. In the Silver City Quadrangle, further work should be

conducted in and on the flanks of ranges that were indicated to be particularly favorable (subsection II.D.2). Also, some exploration should be carried out in valleys showing abundant anomalies to ascertain their cause.

Summary discussions of possible followup exploration methods are presented by Saunders and Potts (1978).

SECTION III

REFERENCES

- Butler, A.P., Jr., W.I. Finch, and W.S. Twenhofel, 1962, Epigenetic uranium in the United States, U.S. Geological Survey, Mineral Investigations Resource Map. MR-21, Scale 1:3,168,000, 42 p.
- Elkins, T.A., 1940, "The Reliability of Geophysical Anomalies on the Basis of Probability Considerations," Geophysics, Vol. 5, No. 4, pp. 321-336.
- Keith, S.B., 1970, Uranium; in Coal, oil, natural gas, helium and uranium (H.W. Pierce, S.B. Keith, and J.C. Wilt), Bull. 182, The Arizona Bureau of Mines, Tucson, p. 103-146 plus Appendixes.
- Kogan, R.M., I.M. Nazarov and Sh.D. Fridman, 1971, Gamma Spectrometry of Natural Environments and Formations, trans. by Israel Program for Scientific Translations, Ltd., available from U.S. Department of Commerce, Nat. Tech. Inf. Service, Springfield, Virginia 22151, 337 pp.
- Lovering, T.G., 1956, Radioactive deposits in New Mexico, U.S. Geological Survey, Bull. 1009-L, pp. 315-390.
- Saunders, D.F., and M.J. Potts, 1978, Manual for the Application of NURE 1974-1977 Aerial Gamma-Ray Spectrometer Data, Doc. GJBX-13-(78), Bendix Field Engineering Corporation Subcontract No. 76-031-L, Texas Instruments Incorporated, prepared for U.S. Department of Energy, Grand Junction, Colorado, 183 pp.
- Texas Instruments Incorporated, 1977, "Study of Airborne Gamma-Ray Spectrometer Data Procedures - Casper Quadrangle, Wyoming," Doc. GJBX-88(77), Vol. I, Final Report, Bendix Field Engineering Corporation, Subcontract No. 76-031-L, prepared for the U.S. Department of Energy, Grand Junction, Colorado.
- Texas Instruments Incorporated, 1978, Geologic Map of the Silver City Quadrangle, Scale 1:250,000.

TABLE T-1 GEOLOGIC MAP UNITS — SILVER CITY QUADRANGLE

Computer Symbol	Map Symbol	Description	Computer Symbol	Map Symbol	Description
QUATERNARY			PERMIAN-PENNSYLVANIAN		
QAB	Qab	Sediments: Alluvium, boulders, gravel, sand, and silt as bolson and valley fill deposits.	PPP	PP	Sedimentary Rocks: Includes upper part of Chiricahua Limestone, Sherrer Formation, Colina Limestone, Earp Formation, and Horquilla Limestone.
QAL	Qal	Alluvium: Includes gravel, sand, silt, and clay on flood plains and alluvial fans.	PPPE	PPe	Earp Formation: Limestone and shale.
QLC	Qlc	Lake Deposited Clay	PENNSYLVANIAN		
QLS	Qls	Lake Deposited Sand and Silt	PP	P	Sedimentary Rocks: Includes the Madera Limestone and Sandia Formation. Includes some Mississippian rocks.
QWS	Qws	Windblown Sand and Silt	PPH	Ph	Horquilla Limestone: Includes thin shale beds.
QDS	Qds	Dune Sand	PENNSYLVANIAN-MISSISSIPPIAN		
QBR	Qbr	Beach Ridges: gravel and sand.	PPM	PM	Sedimentary Rocks: Includes the Pennsylvanian Syrena and Oswaldo Formations and the Mississippian Lake Valley and Kelly Limestones.
QVR	Qvr	Rhyolite Flows	PENNSYLVANIAN-MISSISSIPPIAN-DEVONIAN		
QV	Qv	Volcanics: Products of diatremic explosions.	PPMD	PMd	Sedimentary Rocks: Includes the Pennsylvanian Madera Limestone and Sandia Formation, the Mississippian Helm and Las Cruces Formations, Kelly and Lake Valley Limestones and Cabellero Formation, and the Devonian Percha Shale.
QB	Qb	Basalt Flows	MISSISSIPPIAN		
QUATERNARY-TERTIARY			ME	Me	Escabrosa Limestone and Martin Formation: Includes shale, dolomite, limestone, and sandstone.
QTC	QTg	Gila Conglomerate	MISSISSIPPIAN-DEVONIAN		
QTAL	QTal	Alluvium: Gravel, sand, and silt of older valley fill; includes pediment gravel.	MD	MD	Sedimentary Rocks: Includes Mississippian Paradise Formation and Escabrosa Limestone and Devonian Percha Shale.
QTR	QTr	Rhyolite: flows and tuffs	DEVONIAN		
QTB	Qtb	Basalt: Includes basaltic-andesitic flows; upper part interlayered with Gila conglomerate	DP	Dp	Percha Shale
TERTIARY			SILURIAN-ORDOVICIAN-CAMBRIAN		
TS	Ts	Sedimentary Rocks: Undivided conglomerate, gravel and sand.	SOC	SO6	Sedimentary Rocks: Includes Silurian Fusselman, Dolomite, the Ordovician Valmont and Montoya Dolomites, Cutter and Aleman Formations, Upham-Dolomite, Cable Canyon Sandstone, and El Paso, Bat Cave, and Sierrite Limestones, and the Bliss Sandstone of Ordovician and Cambrian age.
TR	Tr	Rhyolite	ORDOVICIAN-CAMBRIAN		
TV	Tv	Volcanic Rocks: Undivided rhyolite to andesite, locally interbedded with gravel, sand, and silt	OCEA	O6ea	Sedimentary Rocks: El Paso and Abrigo Formations consisting of limestone, sandstone, and siltstone.
TD	Td	Datil Formation: Includes rhyolite and andesite flows, tuffs, breccias, and pyroclastic rocks, flows, and intrusions.	CAMBRIAN		
TVU	Tvu	Undivided Volcanics: (Datil Formation) rhyolite, latite, and andesite; includes Cretaceous and Early Tertiary andesite.	CT	6t	Sedimentary Rocks: Includes Bolsa and Troy Quartzites and Abrigo and related limestones.
TVL	Tvl	Quartz Latite and Rhyolite: (Datil Formation)	CB	6b	Bolsa Quartzite: Includes basal conglomerate.
TRB	Trb	South Pyramid Rhyolite Breccia: (Datil Formation)	PRECAMBRIAN		
TNR	Tnr	North Pyramid Rhyolite: (Datil Formation)	PC	p6	Undivided Rocks
TPER	Tper	Perlite: With stony rhyolite: (Datil Formation)	PCSC	p6sc	Schist: Includes Pinal schist
TWT	Twt	Rhyolitic Welded Tuff: (Datil Formation)	PCP	p6p	Pinal Schist: Metagraywacke and quartzite
TB	Tb	Basalt: (Datil Formation) Augite and olivine-augite basalt.	PCGN	p6gn	Granitic Gneiss
TP	Tp	Breccia, Tuff, and Rhyolite: (Datil Formation)	PCGR	p6gr	Granite
TA	Ta	Pyroxene Andesite: (Datil Formation)			
TM	Tm	Monzonite			
TERTIARY-CRETACEOUS					
TKS	TKs	Undivided Conglomerate			
TKI	TKi	Intrusive Rocks: Stocks, laccoliths, and sills, intermediate to silicic composition.			
CRETACEOUS					
KU	Ku	Sedimentary Rocks: Colorado Shale, Sarten Sandstone, and Beartooth Quartzite			
KC	Kc	Carlile Shale			
KBI	Kbi	Bisbee Group: Includes sandstone, shale, some unfaulted lenses of volcanic rocks, and basal conglomerate.			
KV	Kv	Volcanic Rocks: Chiefly andesitic in composition; includes basalt, dacite, and rhyolite.			
KGD	Kgd	Granodiorite			
KIB	Kib	Basaltic Intrusive Breccia			
KLP	Klp	Hornblende Quartz Diorite			

TABLE T-2. STATISTICAL SUMMARIES

DISTRIBUTION TYPES OF GAMMA-RAY PARAMETERS						
GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K
QAB	N	N	N	LN	N	LN
QAL	LN	N	N	LN	LN	N
QLC	N	LN	N	N	LN	N
QLS	LN	N	LN	N	N	LN
QWS	LN	LN	N	LN	LN	LN
QDS	N	N	LN	N	LN	LN
QVR-1	N	N	N	N	N	LN
QVR-2	LN	LN	LN	LN	N	N
QB	LN	LN	LN	N	LN	N
QTG	LN	LN	N	LN	LN	N
QTAL	LN	LN	LN	LN	N	LN
QTR	N	N	LN	LN	N	N
QTB	LN	LN	LN	LN	LN	LN
TS	N	N	N	LN	LN	N
TR-1	LN	N	N	LN	LN	LN
TR-2	N	N	N	LN	N	LN
TR-3	LN	LN	N	LN	N	LN
TR-4	LN	LN	LN	LN	N	N
TV	LN	N	N	LN	LN	N
TD	N	LN	N	LN	LN	LN
TVU-1	LN	LN	LN	N	N	LN
TVU-2	N	N	N	N	N	N
TVL	LN	N	N	N	LN	LN
TRB	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
TNR	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
TPER	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
TWT-1	LN	N	LN	N	LN	N
TWT-2	LN	LN	N	N	N	LN
TB	LN	N	N	LN	LN	N
TP-1	LN	LN	N	LN	LN	LN
TP-2	N	N	LN	N	N	N
TA	N	N	N	LN	N	N
TKS	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
TKI	LN	LN	N	LN	LN	LN
KU	LN	LN	N	LN	LN	LN
KC	LN	N	N	LN	LN	LN

DISTRIBUTION TYPES OF GAMMA-RAY PARAMETERS						
GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K
KBI-1	LN	N	LN	N	N	LN
KBI-2	LN	N	LN	LN	LN	LN
KBI-3	LN	N	LN	LN	LN	LN
KBI-4	LN	LN	LN	LN	LN	LN
KV	LN	LN	LN	LN	LN	LN
KGD	LN	LN	LN	N	N	LN
KLP	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
PPP	LN	N	N	LN	LN	N
PPPE	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
PPH	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
PPM-1	LN	LN	N	LN	N	LN
PPM-2	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
PPMD-1	N	N	LN	N	LN	N
PPMD-2	N	N	N	LN	LN	N
ME	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
MD-1	LN	N	LN	LN	LN	LN
MD-2	LN	LN	N	LN	LN	LN
DP	N	N	N	LN	LN	N
SOC-1	LN	N	LN	N	LN	LN
SOC-2	LN	LN	N	LN	N	N
SOC-3	LN	LN	N	LN	LN	LN
SOC-4	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
OCEA	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
CT	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)
PC	N	N	N	LN	LN	N
PCSC-1	N	LN	N	LN	LN	LN
PCSC-2	LN	LN	LN	LN	N	LN
PCSC-3	LN	N	N	LN	N	LN
PCGN-1	N	LN	N	LN	LN	N
PCGN-2	LN	LN	LN	LN	LN	N
PCGR	LN	LN	N	LN	LN	LN
TM	(LN)	(LN)	(LN)	(LN)	(LN)	(LN)

GEOLOGIC UNITS ARE ABBREVIATIONS. FOR ACTUAL NAMES AND DESCRIPTIONS SEE TEXT.
 N=NORMAL; LN=LOGNORMAL. (LN) INDICATES ASSUMED DISTRIBUTION TYPE; INSUFFICIENT DATA AVAILABLE FOR VALID STATISTICAL TEST

TABLE T-2. STATISTICAL SUMMARIES (Continued)

STATISTICAL SUMMARY FOR THORIUM									STATISTICAL SUMMARY FOR THORIUM								
GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.	GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.
QAB	28014.	10.824	33.763	56.703	79.643	102.582	125.522	148.462	KBI-1	25.	12.728	14.961	17.586	20.671	24.298	28.560	33.571
QAL	2020.	33.108	41.465	51.931	65.038	81.455	102.014	127.763	KBI-2	44.	21.941	25.202	28.948	33.250	38.192	43.869	50.389
QLC	310.	55.207	61.064	66.922	72.780	78.638	84.496	90.354	KBI-3	86.	21.530	28.583	37.945	50.374	66.875	88.780	117.861
QLS	110.	28.926	36.422	45.860	57.744	72.706	91.547	115.269	KBI-4	45.	66.519	79.033	93.901	111.566	132.554	157.490	187.118
QWS	200.	33.805	41.235	50.298	61.354	74.840	91.290	111.356	KV	3282.	19.855	27.382	37.762	52.077	71.819	99.045	136.591
QDS	30.	8.096	21.405	34.715	48.025	61.334	74.644	87.953	KGD	30.	60.215	64.006	68.037	72.322	76.876	81.717	86.863
QVR-1	150.	19.884	32.020	44.157	56.293	68.429	80.565	92.701	KLP	10.	38.300	41.248	44.422	47.840	51.522	55.487	59.757
QVR-2	30.	93.592	106.333	120.808	137.255	155.940	177.169	201.288	PPP	90.	15.665	20.941	27.994	37.423	50.028	66.879	89.405
QB	210.	25.282	32.778	42.497	55.097	71.434	92.614	120.075	PPPE	10.	11.303	13.828	16.917	20.696	25.318	30.974	37.892
QTG	15705.	27.775	36.633	48.315	63.723	84.044	110.846	146.194	PPH	10.	12.213	13.018	13.876	14.791	15.766	16.805	17.913
QTAL	510.	43.059	55.119	70.557	90.320	115.617	147.999	189.452	PPM-1	100.	14.710	18.893	24.265	31.165	40.026	51.408	66.025
QTR	130.	21.167	49.902	78.637	107.371	136.106	164.840	193.575	PPM-2	10.	53.070	55.403	57.839	60.382	63.037	65.808	68.702
QTB	5316.	19.232	26.703	37.075	51.477	71.473	99.235	137.782	PPMD-1	330.	6.113	13.952	21.791	29.630	37.468	45.307	53.146
TS	354.	18.751	37.116	55.481	73.846	92.211	110.576	128.941	PPMD-2	80.	9.307	20.412	31.516	42.621	53.725	64.830	75.934
TR-1	82.	24.821	28.788	33.389	38.725	44.914	52.092	60.417	ME	10.	23.487	30.173	38.763	49.799	63.976	82.190	105.589
TR-2	181.	46.526	54.149	61.772	69.394	77.017	84.640	92.262	MD-1	144.	7.827	10.707	14.646	20.035	27.406	37.490	51.283
TR-3	338.	69.900	80.840	93.492	108.124	125.046	144.617	167.251	MD-2	36.	31.660	37.901	45.372	54.316	65.024	77.842	93.186
TR-4	59.	149.686	159.740	170.470	181.920	194.139	207.179	221.095	DP	30.	-3.524	9.164	21.851	34.539	47.227	59.914	72.602
TV	1150.	39.680	50.689	64.752	82.717	105.665	134.980	172.428	SOC-1	155.	6.117	8.763	12.554	17.986	25.767	36.916	52.888
TD	5596.	12.946	32.124	51.303	70.481	89.660	108.838	128.017	SOC-2	66.	16.787	22.633	30.515	41.143	55.471	74.790	100.836
TVU-1	44.	122.917	129.099	135.591	142.410	149.571	157.093	164.993	SOC-3	73.	31.963	39.802	49.563	61.719	76.855	95.704	119.176
TVU-2	26.	164.940	170.386	175.831	181.276	186.722	192.167	197.613	SOC-4	16.	56.359	68.562	83.406	101.465	123.433	150.158	182.669
TVL	530.	25.963	35.847	49.493	68.335	94.349	130.266	179.857	OCEA	20.	10.439	17.822	30.426	51.944	88.679	151.394	258.463
TRB	20.	77.205	82.763	88.720	95.106	101.952	109.291	117.158	CT	10.	45.057	47.002	49.032	51.149	53.358	55.662	58.065
TNR	10.	89.177	91.804	94.508	97.291	100.157	103.107	106.144	PC	3420.	-5.551	35.966	77.483	118.999	160.516	202.033	243.549
TPER	20.	75.569	79.396	83.418	87.643	92.082	96.747	101.647	PCSC-1	335.	5.720	22.158	38.596	55.034	71.472	87.910	104.348
TWT-1	44.	55.468	60.243	65.428	71.061	77.178	83.821	91.037	PCSC-2	52.	83.600	93.640	104.886	117.482	131.592	147.395	165.097
TWT-2	26.	70.205	80.064	91.307	104.128	118.750	135.425	154.442	PCSC-3	36.	143.116	158.115	174.685	192.992	213.218	235.563	260.250
TB	140.	36.419	45.509	56.867	71.059	88.794	110.954	138.645	PCGN-1	1513.	1.255	23.094	44.933	66.772	88.611	110.450	132.288
TP-1	98.	24.295	30.045	37.154	45.946	56.818	70.263	86.890	PCGN-2	137.	111.139	127.607	146.516	168.227	193.155	221.777	254.640
TP-2	422.	31.470	49.745	68.019	86.294	104.569	122.843	141.118	PCGR	1156.	32.027	48.365	73.037	110.295	166.559	251.523	379.830
TA	656.	4.039	27.054	50.070	73.085	96.101	119.117	142.132	TM	10.	46.749	55.604	66.135	78.661	93.560	111.281	132.357
TKS	10.	9.573	14.331	21.454	32.117	48.078	71.973	107.744									
TKI	1120.	10.804	17.760	29.194	47.989	78.885	129.671	213.153									
KU	920.	18.219	26.041	37.222	53.204	76.046	108.697	155.366									
KC	40.	12.749	21.686	36.886	62.740	106.717	181.517	308.748									

VALUES LISTED ARE STATISTICALLY DERIVED ABSOLUTE COUNTING RATES AT 1, 2, AND 3 STD. DEVIATIONS ABOVE AND BELOW THE RESPECTIVE MEANS. ANY NEGATIVE VALUES ARE THE RESULT OF STATISTICS ONLY AND HAVE NO REAL MEANING. RELATIVE MAGNITUDES OF THE LISTED MEDIAN VALUES ARE INDICATORS OF RELATIVE CONCENTRATIONS OF THE ELEMENTS IN THE VARIOUS GEOLOGIC RECK UNITS.

TABLE T-2. STATISTICAL SUMMARIES (Continued)

STATISTICAL SUMMARY FOR URANIUM									STATISTICAL SUMMARY FOR URANIUM								
GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.	GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.
QAB	27984.	3.090	18.593	34.096	49.600	65.103	80.606	96.110	KU	920.	12.783	18.097	25.620	36.269	51.346	72.690	102.906
QAL	2020.	8.262	18.703	29.144	39.586	50.027	60.468	70.910	KC	40.	17.923	25.870	33.818	41.765	49.712	57.659	65.607
QLC	310.	29.387	36.867	46.249	58.020	72.787	91.312	114.552	KBI-1	25.	9.638	14.563	19.487	24.412	29.337	34.262	39.187
QLS	109.	-10.408	10.005	30.419	50.832	71.245	91.659	112.072	KBI-2	44.	11.797	17.339	22.881	28.423	33.965	39.507	45.048
QWS	200.	19.294	26.274	35.780	48.725	66.352	90.357	123.047	KBI-3	86.	-10.685	5.894	22.473	39.052	55.631	72.210	88.789
QDS	30.	41.909	46.212	50.514	54.816	59.119	63.421	67.724	KBI-4	45.	10.808	16.611	25.529	39.237	60.303	92.681	142.443
QVR-1	150.	8.481	17.952	27.423	36.894	46.364	55.835	65.306	KV	3213.	7.712	11.600	17.449	26.245	39.476	59.378	89.312
QVR-2	30.	36.091	44.805	55.623	69.052	85.724	106.422	132.116	KGD	30.	22.836	27.282	32.593	38.939	46.521	55.578	66.399
QB	205.	10.565	15.367	22.350	32.507	47.279	68.764	100.013	KLP	10.	16.597	18.213	19.985	21.930	24.064	26.406	28.976
QTG	15688.	11.792	16.667	23.557	33.296	47.060	66.515	94.011	PPP	90.	2.546	12.521	22.497	32.472	42.448	52.423	62.399
QTAL	510.	24.551	31.449	40.286	51.606	66.106	84.680	108.473	PPPE	10.	17.798	19.623	21.636	23.855	26.302	28.999	31.974
QTR	130.	-0.423	15.168	30.760	46.352	61.943	77.535	93.127	PPH	10.	5.647	8.406	12.513	18.628	27.730	41.280	61.451
QTB	5247.	6.971	10.699	16.421	25.202	38.678	59.361	91.104	PPM-1	100.	16.780	21.911	28.613	37.363	48.791	63.712	83.198
TS	354.	7.572	21.108	34.644	48.180	61.716	75.252	88.788	PPM-2	10.	16.319	18.474	20.913	23.674	26.800	30.339	34.345
TR-1	82.	-1.614	6.021	13.657	21.292	28.928	36.563	44.198	PFMD-1	328.	4.579	15.394	26.209	37.024	47.839	58.654	69.469
TR-2	181.	15.434	24.868	34.303	43.738	53.173	62.607	72.042	PFMD-2	80.	-2.851	10.208	23.266	36.325	49.383	62.442	75.500
TR-3	338.	33.113	40.664	49.936	61.323	75.307	92.478	113.566	ME	10.	11.367	15.658	21.569	29.711	40.927	56.376	77.658
TR-4	59.	62.096	71.204	81.647	93.622	107.354	123.100	141.155	MD-1	144.	3.636	12.524	21.411	30.299	39.187	48.075	56.963
TV	1150.	-0.106	18.562	37.231	55.899	74.567	93.235	111.903	MD-2	36.	21.620	26.038	31.359	37.767	45.484	54.778	65.971
TD	5578.	9.697	14.412	21.420	31.837	47.319	70.330	104.530	DP	30.	12.609	17.361	22.113	26.864	31.616	36.368	41.120
TVU-1	44.	58.460	66.576	75.819	86.346	98.334	111.987	127.535	SOC-1	154.	1.533	8.279	15.025	21.771	28.518	35.264	42.010
TVU-2	26.	98.184	105.629	113.074	120.519	127.964	135.409	142.854	SOC-2	66.	6.273	10.829	18.695	32.272	55.711	96.173	166.022
TVL	530.	1.460	16.610	31.759	46.908	62.057	77.206	92.356	SOC-3	73.	8.058	12.398	19.074	29.346	45.149	69.463	106.869
TRB	20.	38.995	46.883	56.366	67.768	81.476	97.956	117.771	SOC-4	16.	35.799	43.682	53.303	65.041	79.365	96.844	118.171
TNR	10.	25.672	33.059	42.571	54.821	70.595	90.908	117.066	OCEA	20.	17.622	21.158	25.405	30.504	36.625	43.976	52.802
TPER	20.	50.304	53.285	56.443	59.789	63.332	67.085	71.062	CT	10.	28.527	30.332	32.251	34.292	36.462	38.769	41.222
TWT-1	44.	20.730	29.964	39.198	48.432	57.666	66.900	76.134	PC	3393.	-7.766	13.466	34.698	55.929	77.161	98.393	119.624
TWT-2	26.	41.808	46.445	51.597	57.320	63.678	70.741	78.588	PCSC-1	335.	13.722	18.630	25.294	34.340	46.623	63.298	85.938
TB	140.	5.259	20.655	36.050	51.446	66.842	82.238	97.634	PCSC-2	52.	29.283	36.976	46.689	58.955	74.443	94.000	118.694
TP-1	98.	7.033	11.095	17.505	27.618	43.572	68.743	108.454	PCSC-3	36.	26.021	45.747	65.472	85.198	104.924	124.650	144.375
TP-2	415.	10.635	26.293	41.951	57.610	73.268	88.926	104.584	PCGN-1	1494.	8.831	13.337	20.142	30.420	45.940	69.380	104.779
TA	656.	-7.109	11.085	29.279	47.473	65.667	83.861	102.055	PCGN-2	137.	23.910	34.551	49.929	72.150	104.263	150.667	217.725
TKS	10.	9.304	11.810	14.990	19.027	24.152	30.657	38.913	PCGR	1156.	11.500	18.803	30.745	50.272	82.201	134.407	219.772
TKI	1088.	5.850	9.924	16.836	28.563	48.457	82.207	139.464	TM	10.	38.734	42.745	47.170	52.054	57.444	63.391	69.955

TABLE T-2. STATISTICAL SUMMARIES (Continued)

STATISTICAL SUMMARY FOR POTASSIUM									STATISTICAL SUMMARY FOR POTASSIUM								
GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.	GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.
QAB	28014.	119.448	178.027	236.606	295.185	353.763	412.342	470.921	KU	920.	-66.122	30.661	127.444	224.227	321.009	417.792	514.575
QAL	2020.	134.343	176.665	218.986	261.307	303.628	345.949	388.270	KC	40.	127.240	182.790	238.341	293.892	349.442	404.993	460.543
QLC	310.	158.018	174.485	190.952	207.419	223.887	240.354	256.821	KBI-1	25.	40.644	44.987	49.794	55.114	61.002	67.520	74.734
QLS	110.	151.962	176.784	205.660	239.253	278.333	323.797	376.687	KBI-2	44.	69.602	79.091	89.874	102.127	116.050	131.871	149.850
QWS	200.	187.551	220.325	253.098	285.872	318.646	351.419	384.193	KBI-3	86.	108.815	131.938	159.976	193.973	235.193	285.173	345.774
QDS	30.	247.258	272.294	299.865	330.228	363.665	400.487	441.038	KBI-4	45.	288.262	307.954	328.991	351.466	375.476	401.126	428.529
QVR-1	150.	177.135	207.395	237.655	267.916	298.176	328.436	358.696	KV	3282.	115.075	148.905	192.682	249.328	322.627	417.476	540.208
QVR-2	30.	250.618	276.317	304.652	335.893	370.337	408.313	450.184	KGD	30.	259.768	267.377	275.208	283.269	291.566	300.106	308.896
QB	210.	139.638	164.775	194.437	229.439	270.742	319.480	376.992	KLP	10.	222.296	228.837	235.570	242.501	249.637	256.982	264.543
QTG	15705.	102.763	157.264	211.766	266.268	320.770	375.272	429.774	PPP	90.	45.938	77.138	108.338	139.538	170.738	201.938	233.138
QTAL	510.	191.625	221.533	256.111	296.085	342.298	395.724	457.489	PPPE	10.	46.925	53.412	60.795	69.200	78.766	89.655	102.049
QTR	130.	163.437	194.468	231.391	275.324	327.599	389.798	463.808	PPH	10.	45.322	48.308	51.491	54.883	58.499	62.353	66.461
QTB	5316.	111.464	136.292	166.650	203.770	249.158	304.656	372.516	PPM-1	100.	2.765	28.009	53.253	78.497	103.741	128.985	154.230
TS	354.	82.871	150.458	218.046	285.633	353.220	420.808	488.395	PPM-2	10.	251.834	267.604	284.362	302.169	321.091	341.198	362.565
TR-1	82.	83.347	154.981	226.615	298.248	369.882	441.516	513.149	PPMD-1	330.	27.908	35.712	45.697	58.475	74.825	95.747	122.518
TR-2	181.	169.057	215.132	261.207	307.283	353.358	399.433	445.509	PPMD-2	80.	72.718	111.955	151.192	190.429	229.667	268.904	308.141
TR-3	338.	139.339	203.841	268.343	332.845	397.347	461.849	526.351	ME	10.	100.158	121.860	148.265	180.391	219.478	267.035	324.896
TR-4	59.	213.939	234.227	256.439	280.757	307.381	336.529	368.442	MD-1	144.	18.913	27.763	40.755	59.826	87.820	128.915	189.239
TV	1150.	83.773	165.951	248.129	330.307	412.485	494.663	576.842	MD-2	36.	146.930	172.464	197.998	223.533	249.067	274.601	300.135
TD	5596.	73.531	145.322	217.113	288.905	360.696	432.487	504.278	DP	30.	-10.650	38.684	88.019	137.353	186.688	236.022	285.357
TVU-1	44.	517.555	535.111	553.263	572.031	591.435	611.497	632.240	SOC-1	155.	23.707	32.763	45.279	62.576	86.481	119.517	165.173
TVU-2	26.	473.469	485.746	498.023	510.300	522.577	534.854	547.130	SOC-2	66.	110.673	127.465	144.257	161.050	177.842	194.635	211.427
TVL	530.	73.553	138.410	203.268	268.125	332.983	397.840	462.698	SOC-3	73.	171.628	200.495	229.363	258.230	287.098	315.965	344.833
TRB	20.	264.616	290.323	318.528	349.474	383.425	420.675	461.544	SOC-4	16.	332.313	345.352	358.902	372.984	387.618	402.826	418.632
TNR	10.	310.105	316.634	323.299	330.105	337.054	344.150	351.395	OCEA	20.	37.440	63.453	107.540	182.257	308.889	523.502	887.228
TPER	20.	314.382	341.533	371.029	403.072	437.882	475.698	516.781	CT	10.	112.544	118.785	125.372	132.324	139.661	147.406	155.580
TWT-1	44.	181.079	198.906	218.489	239.999	263.627	289.582	318.092	PC	3420.	96.940	172.095	247.249	322.404	397.559	472.714	547.869
TWT-2	26.	232.914	272.990	313.065	353.140	393.216	433.291	473.366	PCSC-1	335.	4.969	69.394	133.819	198.245	262.670	327.095	391.520
TB	140.	95.665	151.667	207.669	263.670	319.672	375.673	431.675	PCSC-2	52.	223.194	250.853	281.939	316.878	356.146	400.280	449.884
TP-1	98.	116.938	141.549	166.160	190.771	215.382	239.994	264.605	PCSC-3	36.	278.107	300.655	323.202	345.750	368.298	390.845	413.393
TP-2	422.	213.027	240.776	272.140	307.591	347.658	392.945	444.131	PCGN-1	1513.	36.032	101.836	167.640	233.443	299.247	365.050	430.854
TA	656.	114.775	174.148	233.520	292.892	352.265	411.637	471.009	PCGN-2	137.	228.906	260.005	295.329	335.452	381.026	432.792	491.592
TKS	10.	34.128	48.455	68.796	97.677	138.683	196.904	279.565	PCGR	1156.	130.915	190.734	250.552	310.370	370.188	430.006	489.824
TKI	1120.	9.139	92.831	176.523	260.215	343.907	427.599	511.292	TM	10.	136.855	165.055	199.066	240.085	289.555	349.220	421.178

TABLE T-2. STATISTICAL SUMMARIES (Continued)

STATISTICAL SUMMARY FOR URAN./POT.									STATISTICAL SUMMARY FOR URAN./POT.								
GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.	GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.
QAB	27984.	0.063	0.087	0.119	0.164	0.225	0.309	0.425	KU	920.	0.033	0.058	0.102	0.181	0.322	0.570	1.009
QAL	2020.	0.062	0.083	0.111	0.148	0.198	0.265	0.354	KC	40.	0.071	0.090	0.113	0.142	0.179	0.225	0.283
QLC	310.	0.065	0.140	0.215	0.290	0.365	0.440	0.515	KBI-1	25.	0.091	0.210	0.330	0.450	0.569	0.689	0.809
QLS	109.	-0.071	0.023	0.118	0.212	0.307	0.401	0.496	KBI-2	44.	0.127	0.164	0.211	0.273	0.353	0.456	0.589
QWS	200.	0.055	0.081	0.118	0.172	0.251	0.366	0.534	KBI-3	86.	0.086	0.113	0.147	0.191	0.249	0.325	0.424
QDS	30.	0.105	0.126	0.146	0.167	0.187	0.208	0.228	KBI-4	45.	0.031	0.048	0.073	0.112	0.171	0.262	0.400
QVR-1	150.	0.036	0.070	0.104	0.138	0.172	0.206	0.240	KV	3213.	0.032	0.048	0.071	0.105	0.156	0.232	0.345
QVR-2	30.	0.111	0.136	0.167	0.206	0.253	0.311	0.382	KGD	30.	0.071	0.094	0.116	0.139	0.162	0.185	0.208
QB	205.	0.008	0.055	0.102	0.149	0.196	0.244	0.291	KLP	10.	0.064	0.072	0.081	0.090	0.101	0.113	0.127
QTG	15688.	0.045	0.063	0.090	0.128	0.182	0.259	0.369	PPP	90.	0.080	0.113	0.160	0.227	0.321	0.454	0.643
QTAL	510.	0.093	0.114	0.141	0.174	0.215	0.265	0.327	PPPE	10.	0.227	0.261	0.300	0.345	0.396	0.456	0.524
QTR	130.	0.071	0.093	0.121	0.158	0.206	0.269	0.351	PPH	10.	0.114	0.164	0.236	0.339	0.489	0.704	1.014
QTB	5247.	0.042	0.061	0.087	0.124	0.176	0.252	0.360	PPM-1	100.	0.091	0.161	0.285	0.504	0.893	1.581	2.799
TS	354.	0.071	0.094	0.126	0.167	0.223	0.298	0.398	PPM-2	10.	0.046	0.055	0.066	0.078	0.094	0.112	0.134
TR-1	82.	0.017	0.027	0.043	0.069	0.110	0.175	0.278	PPMD-1	328.	-0.130	0.132	0.395	0.658	0.921	1.184	1.447
TR-2	181.	0.066	0.085	0.109	0.140	0.180	0.232	0.299	PPMD-2	80.	0.051	0.077	0.117	0.178	0.271	0.412	0.626
TR-3	338.	0.074	0.101	0.137	0.188	0.257	0.351	0.479	ME	10.	0.112	0.127	0.145	0.165	0.187	0.213	0.243
TR-4	59.	0.215	0.249	0.288	0.333	0.386	0.446	0.517	MD-1	144.	0.109	0.180	0.295	0.483	0.793	1.302	2.137
TV	1150.	0.073	0.096	0.126	0.164	0.215	0.282	0.369	MD-2	36.	0.077	0.101	0.131	0.170	0.221	0.288	0.374
TD	5578.	0.036	0.053	0.078	0.114	0.168	0.248	0.365	DP	30.	0.066	0.096	0.141	0.207	0.303	0.445	0.652
TVU-1	44.	0.091	0.111	0.132	0.152	0.173	0.193	0.214	SOC-1	154.	-0.037	0.096	0.229	0.362	0.494	0.627	0.760
TVU-2	26.	0.188	0.204	0.220	0.236	0.252	0.268	0.284	SOC-2	66.	0.037	0.065	0.115	0.201	0.354	0.622	1.093
TVL	530.	0.036	0.083	0.130	0.178	0.225	0.273	0.320	SOC-3	73.	0.033	0.050	0.076	0.114	0.173	0.261	0.394
TRB	20.	0.140	0.156	0.174	0.194	0.216	0.241	0.269	SOC-4	16.	0.094	0.115	0.142	0.174	0.214	0.263	0.324
TNR	10.	0.074	0.097	0.127	0.166	0.217	0.284	0.371	OCEA	20.	0.040	0.064	0.103	0.167	0.271	0.438	0.708
TPER	20.	0.115	0.125	0.136	0.148	0.162	0.176	0.192	CT	10.	0.199	0.217	0.237	0.259	0.283	0.309	0.338
TWT-1	44.	0.059	0.107	0.156	0.204	0.253	0.301	0.350	PC	3393.	0.057	0.082	0.117	0.167	0.239	0.342	0.489
TWT-2	26.	0.090	0.115	0.140	0.165	0.190	0.215	0.240	PCSC-1	335.	0.068	0.094	0.131	0.183	0.256	0.356	0.497
TB	140.	0.076	0.103	0.139	0.188	0.255	0.345	0.466	PCSC-2	52.	0.084	0.110	0.143	0.186	0.242	0.316	0.412
TP-1	98.	0.046	0.068	0.099	0.146	0.215	0.315	0.463	PCSC-3	36.	0.106	0.139	0.183	0.240	0.315	0.414	0.544
TP-2	415.	0.049	0.094	0.139	0.185	0.230	0.276	0.321	PCGN-1	1494.	0.039	0.059	0.090	0.136	0.207	0.315	0.478
TA	656.	0.055	0.078	0.109	0.152	0.213	0.299	0.419	PCGN-2	137.	0.074	0.105	0.151	0.215	0.307	0.439	0.627
TKS	10.	0.113	0.135	0.162	0.195	0.234	0.281	0.337	PCGR	1156.	0.050	0.074	0.111	0.165	0.247	0.368	0.548
TKI	1088.	0.025	0.042	0.070	0.117	0.194	0.321	0.534	TM	10.	0.112	0.140	0.174	0.217	0.270	0.337	0.420

TABLE T-2. STATISTICAL SUMMARIES (Continued)

STATISTICAL SUMMARY FOR URAN./THOR.									STATISTICAL SUMMARY FOR URAN./THOR.								
GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.	GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.
QAB	27984.	0.108	0.284	0.460	0.636	0.812	0.988	1.164	KU	920.	0.224	0.325	0.470	0.682	0.988	1.432	2.075
QAL	2020.	0.256	0.337	0.445	0.587	0.774	1.021	1.347	KC	40.	0.155	0.251	0.405	0.654	1.056	1.706	2.755
QLC	310.	0.413	0.515	0.642	0.800	0.997	1.243	1.549	KBI-1	25.	0.241	0.561	0.881	1.201	1.521	1.841	2.161
QLS	109.	0.024	0.294	0.565	0.835	1.106	1.376	1.646	KBI-2	44.	0.405	0.517	0.658	0.839	1.069	1.362	1.736
QWS	200.	0.354	0.464	0.607	0.794	1.039	1.360	1.780	KBI-3	86.	0.395	0.487	0.599	0.737	0.906	1.115	1.372
QDS	30.	0.474	0.642	0.871	1.181	1.602	2.173	2.947	KBI-4	45.	0.128	0.179	0.251	0.352	0.492	0.689	0.965
QVR-1	150.	0.197	0.353	0.510	0.666	0.822	0.978	1.134	KV	3213.	0.173	0.247	0.352	0.502	0.716	1.021	1.456
QVR-2	30.	0.257	0.341	0.426	0.510	0.594	0.678	0.762	KGD	30.	0.300	0.381	0.463	0.544	0.625	0.707	0.788
QB	205.	0.250	0.332	0.441	0.585	0.776	1.031	1.368	KLP	10.	0.310	0.353	0.402	0.458	0.522	0.595	0.678
QTG	15688.	0.203	0.278	0.381	0.523	0.716	0.981	1.345	PPP	90.	0.369	0.483	0.631	0.824	1.077	1.407	1.838
QTAL	510.	0.111	0.273	0.434	0.596	0.758	0.919	1.081	PPPE	10.	0.650	0.787	0.952	1.153	1.395	1.688	2.043
QTR	130.	0.179	0.263	0.346	0.430	0.513	0.597	0.681	PPH	10.	0.428	0.614	0.879	1.259	1.804	2.585	3.703
QTB	5247.	0.166	0.237	0.340	0.488	0.699	1.002	1.435	PPM-1	100.	-0.224	0.285	0.794	1.303	1.811	2.320	2.829
TS	354.	0.309	0.395	0.507	0.649	0.831	1.065	1.365	PPM-2	10.	0.282	0.314	0.351	0.392	0.438	0.489	0.546
TR-1	82.	0.142	0.218	0.335	0.514	0.790	1.214	1.865	PPMD-1	328.	0.425	0.605	0.860	1.224	1.742	2.478	3.525
TR-2	181.	0.245	0.374	0.503	0.632	0.761	0.890	1.019	PPMD-2	80.	0.193	0.311	0.501	0.807	1.299	2.092	3.369
TR-3	338.	0.293	0.387	0.481	0.575	0.669	0.763	0.857	ME	10.	0.451	0.495	0.544	0.597	0.655	0.719	0.789
TR-4	59.	0.290	0.367	0.443	0.520	0.597	0.674	0.751	MD-1	144.	0.363	0.575	0.911	1.444	2.288	3.627	5.748
TV	1150.	0.323	0.406	0.509	0.638	0.800	1.003	1.258	MD-2	36.	0.303	0.400	0.527	0.695	0.917	1.210	1.595
TD	5578.	0.171	0.239	0.335	0.470	0.659	0.924	1.295	DP	30.	0.294	0.414	0.583	0.821	1.155	1.626	2.290
TVU-1	44.	0.370	0.451	0.531	0.612	0.692	0.773	0.853	SOC-1	154.	0.301	0.471	0.737	1.155	1.809	2.832	4.436
TVU-2	26.	0.503	0.557	0.612	0.666	0.720	0.775	0.829	SOC-2	66.	-0.152	0.181	0.514	0.847	1.180	1.513	1.846
TVL	530.	0.298	0.386	0.501	0.651	0.844	1.096	1.422	SOC-3	73.	0.211	0.277	0.363	0.475	0.624	0.818	1.072
TRB	20.	0.466	0.537	0.618	0.713	0.821	0.946	1.090	SOC-4	16.	0.455	0.510	0.572	0.641	0.719	0.805	0.903
TNR	10.	0.283	0.356	0.448	0.563	0.708	0.891	1.120	OCEA	20.	0.130	0.215	0.355	0.587	0.971	1.604	2.652
TPER	20.	0.536	0.581	0.629	0.682	0.739	0.801	0.868	CT	10.	0.507	0.557	0.611	0.670	0.736	0.807	0.886
TWT-1	44.	0.398	0.473	0.563	0.670	0.796	0.947	1.127	PC	3393.	0.181	0.249	0.341	0.467	0.640	0.878	1.203
TWT-2	26.	0.418	0.463	0.507	0.552	0.597	0.642	0.686	PCSC-1	335.	0.248	0.343	0.474	0.655	0.905	1.250	1.727
TB	140.	0.297	0.393	0.518	0.684	0.903	1.192	1.574	PCSC-2	52.	0.215	0.314	0.413	0.512	0.611	0.710	0.809
TP-1	98.	0.205	0.294	0.420	0.601	0.860	1.230	1.760	PCSC-3	36.	0.123	0.229	0.335	0.441	0.547	0.653	0.759
TP-2	415.	0.172	0.339	0.506	0.673	0.840	1.007	1.174	PCGN-1	1494.	0.149	0.220	0.326	0.482	0.714	1.056	1.564
TA	656.	0.129	0.305	0.481	0.657	0.833	1.010	1.186	PCGN-2	137.	0.182	0.243	0.323	0.429	0.570	0.758	1.008
TKS	10.	0.282	0.361	0.462	0.592	0.759	0.972	1.246	PCGR	1156.	0.190	0.254	0.340	0.456	0.610	0.817	1.094
TKI	1088.	0.143	0.229	0.368	0.590	0.947	1.520	2.439	TM	10.	0.358	0.439	0.539	0.662	0.812	0.996	1.223

TABLE T-2. STATISTICAL SUMMARIES (Continued)

STATISTICAL SUMMARY FOR THOR./POT.									STATISTICAL SUMMARY FOR THOR./POT.								
GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.	GEOL UNIT	NUM. SAMPLES	-3 S.D.	-2 S.D.	-1 S.D.	MEDIAN	+1 S.D.	+2 S.D.	+3 S.D.
QAB	28014.	0.134	0.169	0.212	0.267	0.335	0.422	0.530	KU	920.	0.076	0.116	0.175	0.266	0.404	0.613	0.931
QAL	2020.	0.114	0.162	0.209	0.257	0.305	0.353	0.401	KC	40.	0.064	0.096	0.145	0.217	0.326	0.489	0.734
QLC	310.	0.238	0.276	0.315	0.353	0.392	0.430	0.469	KBI-1	25.	0.266	0.298	0.334	0.375	0.421	0.472	0.530
QLS	110.	0.119	0.151	0.191	0.241	0.305	0.386	0.489	KBI-2	44.	0.204	0.239	0.279	0.326	0.380	0.444	0.519
QWS	200.	0.095	0.125	0.164	0.216	0.284	0.374	0.493	KBI-3	86.	0.135	0.168	0.209	0.260	0.323	0.402	0.500
QDS	30.	0.047	0.068	0.098	0.140	0.201	0.289	0.415	KBI-4	45.	0.211	0.242	0.277	0.317	0.364	0.416	0.477
QVR-1	150.	0.115	0.140	0.170	0.206	0.251	0.305	0.371	KV	3282.	0.082	0.112	0.153	0.209	0.286	0.390	0.534
QVR-2	30.	0.297	0.335	0.373	0.410	0.448	0.486	0.523	KGD	30.	0.209	0.224	0.239	0.255	0.273	0.291	0.311
QB	210.	0.130	0.167	0.205	0.243	0.281	0.319	0.357	KLP	10.	0.165	0.175	0.186	0.197	0.209	0.222	0.236
QTG	15705.	0.090	0.144	0.197	0.251	0.304	0.358	0.412	PPP	90.	0.109	0.167	0.225	0.283	0.340	0.398	0.456
QTAL	510.	0.157	0.196	0.245	0.305	0.381	0.475	0.592	PPPE	10.	0.232	0.253	0.275	0.299	0.325	0.354	0.385
QTR	130.	0.207	0.264	0.322	0.379	0.437	0.495	0.552	PPH	10.	0.256	0.260	0.265	0.270	0.274	0.279	0.284
QTB	5316.	0.129	0.161	0.202	0.253	0.316	0.396	0.496	PPM-1	100.	0.184	0.243	0.320	0.420	0.553	0.728	0.958
TS	354.	0.098	0.153	0.209	0.264	0.320	0.375	0.431	PPM-2	10.	0.155	0.168	0.183	0.200	0.218	0.237	0.258
TR-1	82.	0.051	0.071	0.097	0.134	0.185	0.255	0.352	PPMD-1	330.	0.081	0.224	0.366	0.509	0.652	0.795	0.938
TR-2	181.	0.146	0.169	0.196	0.227	0.263	0.305	0.353	PPMD-2	80.	0.026	0.095	0.163	0.231	0.299	0.368	0.436
TR-3	338.	0.154	0.198	0.256	0.331	0.428	0.553	0.714	ME	10.	0.224	0.240	0.258	0.276	0.296	0.317	0.340
TR-4	59.	0.493	0.545	0.598	0.650	0.702	0.755	0.807	MD-1	144.	0.158	0.203	0.261	0.335	0.430	0.552	0.709
TV	1150.	0.125	0.171	0.216	0.262	0.307	0.353	0.398	MD-2	36.	0.147	0.174	0.207	0.245	0.290	0.343	0.407
TD	5596.	0.131	0.161	0.198	0.243	0.299	0.367	0.450	DP	30.	0.175	0.201	0.227	0.253	0.279	0.305	0.331
TVU-1	44.	0.208	0.221	0.234	0.249	0.265	0.281	0.299	SOC-1	155.	0.138	0.176	0.225	0.287	0.367	0.469	0.600
TVU-2	26.	0.310	0.325	0.340	0.355	0.371	0.386	0.401	SOC-2	66.	0.054	0.125	0.196	0.266	0.337	0.408	0.479
TVL	530.	0.157	0.186	0.221	0.263	0.313	0.372	0.443	SOC-3	73.	0.128	0.158	0.195	0.241	0.296	0.365	0.450
TRB	20.	0.240	0.251	0.261	0.272	0.284	0.296	0.308	SOC-4	16.	0.146	0.180	0.221	0.272	0.334	0.411	0.506
TNR	10.	0.258	0.270	0.282	0.295	0.308	0.322	0.336	OCEA	20.	0.235	0.251	0.267	0.285	0.304	0.324	0.345
TPER	20.	0.182	0.193	0.205	0.217	0.231	0.245	0.260	CT	10.	0.338	0.353	0.370	0.387	0.404	0.423	0.442
TWT-1	44.	0.169	0.212	0.256	0.299	0.343	0.386	0.429	PC	3420.	0.067	0.168	0.269	0.370	0.471	0.572	0.673
TWT-2	26.	0.189	0.220	0.255	0.297	0.345	0.401	0.466	PCSC-1	335.	0.175	0.205	0.239	0.280	0.327	0.383	0.447
TB	140.	0.204	0.228	0.252	0.276	0.301	0.325	0.349	PCSC-2	52.	0.240	0.277	0.321	0.371	0.429	0.496	0.573
TP-1	98.	0.156	0.181	0.210	0.243	0.281	0.326	0.377	PCSC-3	36.	0.452	0.486	0.521	0.559	0.600	0.644	0.692
TP-2	422.	0.143	0.188	0.233	0.278	0.323	0.369	0.414	PCGN-1	1513.	0.108	0.168	0.229	0.289	0.349	0.409	0.469
TA	656.	0.077	0.134	0.191	0.247	0.304	0.360	0.417	PCGN-2	137.	0.300	0.369	0.437	0.506	0.575	0.643	0.712
TKS	10.	0.197	0.234	0.277	0.329	0.390	0.463	0.549	PCGR	1156.	0.137	0.190	0.262	0.363	0.502	0.694	0.960
TKI	1120.	0.055	0.084	0.129	0.197	0.302	0.463	0.709	TM	10.	0.295	0.306	0.316	0.328	0.339	0.351	0.364

TABLE T-3. FLIGHT-LINE AVERAGES

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 1

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAL	67.5	150.	41.1	150.	248.0	150.
QTG	65.4	850.	33.5	850.	245.6	850.
QTB	61.1	790.	29.6	790.	208.3	790.
TR-1	33.4	20.	26.0	20.	351.2	20.
TD	79.3	430.	43.4	430.	287.3	430.
KV	43.2	170.	25.6	170.	229.1	170.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 5

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	81.6	10.	38.6	10.	295.7	10.
QAL	58.7	70.	37.1	70.	298.8	70.
QTG	66.4	490.	39.8	490.	261.4	490.
TD	77.6	610.	43.9	610.	347.1	610.
TA	77.0	30.	36.0	30.	269.2	30.
TKI	34.0	40.	23.5	40.	164.4	40.
KU	47.8	300.	36.5	300.	154.0	300.
KV	65.9	490.	37.5	490.	305.4	490.
PPM-1	33.0	80.	41.8	80.	74.1	80.
PPMD-1	36.5	40.	45.0	40.	69.1	40.
PPMD-2	39.5	10.	46.2	10.	157.8	10.
DP	29.0	10.	25.8	10.	124.0	10.
SOC-1	21.9	23.	27.3	23.	65.4	23.
SOC-2	40.1	11.	32.5	11.	163.4	11.
SOC-3	114.6	3.	72.0	3.	248.4	3.
SOC-4	148.8	3.	92.1	3.	363.7	3.
PC	75.6	100.	50.0	100.	196.2	100.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 2

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	56.9	120.	17.9	120.	236.5	120.
QAL	62.8	80.	28.3	80.	259.3	80.
QTG	56.7	470.	24.4	470.	245.0	470.
QTR	107.6	40.	39.8	40.	269.3	40.
QTB	55.3	830.	19.7	830.	209.4	830.
TR-1	40.8	34.	17.6	34.	339.9	34.
TR-2	64.1	26.	34.3	26.	308.8	26.
TD	63.4	760.	28.1	760.	264.7	760.
TKI	37.1	20.	12.7	20.	158.6	20.
KV	45.5	110.	16.1	110.	255.9	110.
PPMD-2	35.8	10.	19.6	10.	182.9	10.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 6

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	70.5	20.	27.8	20.	248.5	20.
QAL	48.3	110.	26.2	110.	292.0	110.
QTG	59.5	920.	25.3	920.	264.5	920.
QTB	43.8	90.	18.2	90.	221.0	90.
TD	68.3	510.	30.9	510.	269.9	510.
TA	78.2	80.	39.3	80.	325.3	80.
TKI	53.4	60.	29.6	60.	270.8	60.
KU	81.2	160.	44.8	160.	255.6	160.
KC	141.7	10.	45.3	10.	379.0	10.
KV	57.9	290.	26.0	290.	277.8	290.
KLP	48.0	10.	22.0	10.	242.6	10.
DP	37.3	20.	27.4	20.	144.0	20.
SOC-1	17.3	19.	29.2	19.	62.6	19.
SOC-2	31.4	1.	38.2	1.	129.2	1.
PC	123.6	310.	54.6	310.	313.7	310.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 3

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	62.3	30.	35.8	30.	288.7	30.
QAL	58.7	20.	28.3	20.	282.3	20.
QTG	59.2	510.	25.3	510.	258.0	510.
QTR	107.3	90.	49.3	90.	283.9	90.
QTB	53.1	640.	26.0	640.	200.9	640.
TD	71.3	580.	31.1	580.	293.0	580.
TKI	52.2	220.	24.0	220.	258.8	220.
KU	46.4	60.	22.4	60.	221.7	60.
KV	53.2	370.	28.4	370.	236.5	370.
PPM-2	60.4	10.	23.8	10.	302.7	10.
PPMD-2	39.6	10.	14.0	10.	151.0	10.
SOC-1	14.0	26.	16.3	26.	63.1	26.
SOC-2	36.4	24.	18.6	24.	165.2	24.
SOC-3	54.3	40.	21.6	40.	251.6	40.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 7

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	66.1	50.	29.4	50.	249.2	50.
QAL	72.6	190.	33.1	190.	253.7	190.
QTG	65.0	1160.	27.4	1160.	274.0	1160.
QTB	43.6	230.	17.8	230.	194.6	230.
TD	73.2	280.	34.2	280.	274.6	280.
TKI	38.7	80.	18.5	80.	181.3	80.
PPMD-1	14.6	10.	14.7	10.	39.4	10.
SOC-1	17.3	41.	20.5	41.	53.1	41.
SOC-2	50.0	6.	34.4	6.	167.8	6.
SOC-3	64.3	13.	37.2	13.	264.6	13.
PC	77.4	280.	30.3	280.	230.7	280.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 4

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	60.8	10.	22.9	10.	211.5	10.
QAL	70.8	40.	27.8	40.	289.1	40.
QTG	48.3	330.	20.9	330.	228.6	330.
QTB	43.5	70.	19.8	70.	193.9	70.
TD	65.9	810.	25.1	810.	291.7	810.
TKI	49.8	200.	23.3	200.	247.0	200.
KU	48.2	120.	28.0	120.	254.5	120.
KV	48.3	690.	20.5	690.	245.5	690.
PPMD-1	27.8	100.	29.5	100.	57.8	100.
SOC-1	23.7	10.	10.1	10.	91.6	10.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 8

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	86.5	300.	40.7	300.	296.9	300.
QAL	74.5	310.	45.7	310.	259.7	310.
QB	58.0	10.	38.1	10.	249.6	10.
QTG	65.1	1860.	34.7	1860.	272.3	1860.
QTB	42.9	200.	23.6	200.	179.6	200.
TD	61.3	230.	32.7	230.	240.6	230.
TA	83.0	10.	46.9	10.	235.0	10.
KC	49.7	30.	40.6	30.	265.5	30.
KV	74.5	20.	33.0	20.	327.5	20.
PC	85.4	420.	37.2	420.	275.3	420.
PCSC-1	58.2	20.	34.9	20.	217.8	20.
PCGN-1	70.8	285.	45.2	285.	235.5	285.
PCGN-2	136.3	5.	32.1	5.	343.1	5.
PCGR	62.1	60.	27.0	60.	271.4	60.

TABLE T-3. FLIGHT-LINE AVERAGES (Continued)

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 9

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	80.9	220.	43.4	220.	282.7	220.	0.15	220.	0.54	220.	0.29	220.
QTB	68.5	1440.	37.3	1440.	263.3	1440.	0.14	1440.	0.56	1440.	0.26	1440.
QTB	75.1	30.	45.5	30.	284.9	30.	0.16	30.	0.62	30.	0.26	30.
TD	64.2	160.	43.4	160.	242.0	160.	0.17	160.	0.66	160.	0.26	160.
TA	81.7	30.	57.4	30.	295.8	30.	0.19	30.	0.71	30.	0.28	30.
TKI	37.2	160.	37.5	160.	329.5	160.	0.11	160.	1.05	160.	0.12	160.
PC	97.5	260.	48.8	260.	311.8	260.	0.16	260.	0.51	260.	0.31	260.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 14

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	82.8	1050.	44.2	1050.	318.4	1050.	0.14	1050.	0.55	1050.	0.26	1050.
QVR-1	70.4	10.	43.4	10.	272.0	10.	0.16	10.	0.61	10.	0.26	10.
QB	41.2	20.	12.5	20.	223.6	20.	0.06	20.	0.31	20.	0.18	20.
QTB	78.9	130.	45.7	130.	336.9	130.	0.14	130.	0.58	130.	0.24	130.
TV	72.6	40.	37.5	40.	327.8	40.	0.12	40.	0.53	40.	0.22	40.
TD	74.8	60.	41.1	60.	352.7	60.	0.12	60.	0.55	60.	0.21	60.
PC	130.0	260.	55.5	260.	345.5	260.	0.16	260.	0.44	260.	0.38	260.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 10

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	75.1	1100.	39.6	1100.	318.2	1100.	0.13	1100.	0.54	1100.	0.24	1100.
QAL	52.5	60.	40.4	60.	273.7	60.	0.15	60.	0.77	60.	0.19	60.
QTB	76.1	870.	42.2	870.	297.2	870.	0.15	870.	0.56	870.	0.26	870.
QTB	81.3	10.	33.6	10.	250.6	10.	0.13	10.	0.41	10.	0.32	10.
TKI	66.1	90.	42.2	90.	298.8	90.	0.14	90.	0.70	90.	0.21	90.
PC	153.9	270.	69.4	270.	369.6	270.	0.19	270.	0.45	270.	0.42	270.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 15

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	88.9	1100.	49.6	1100.	302.9	1100.	0.17	1100.	0.59	1100.	0.30	1100.
QVR-1	52.7	102.	35.2	102.	261.9	102.	0.13	102.	0.68	102.	0.20	102.
QVR-2	144.6	18.	74.2	18.	340.3	18.	0.22	18.	0.51	18.	0.43	18.
TV	85.8	240.	54.7	240.	335.7	240.	0.16	240.	0.63	240.	0.25	240.
PC	111.6	140.	64.2	140.	387.8	140.	0.17	140.	0.58	140.	0.29	140.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 11

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	71.9	960.	35.3	960.	276.2	960.	0.13	960.	0.50	960.	0.26	960.
QAL	52.3	10.	30.6	10.	279.7	10.	0.11	10.	0.59	10.	0.19	10.
QTB	97.1	280.	45.4	280.	285.5	280.	0.16	280.	0.48	280.	0.34	280.
TV	104.2	10.	71.9	10.	334.7	10.	0.21	10.	0.69	10.	0.31	10.
TD	61.1	20.	21.7	20.	264.3	20.	0.08	20.	0.36	20.	0.23	20.
PC	142.3	260.	62.6	260.	337.9	260.	0.18	260.	0.43	260.	0.42	260.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 16

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	80.5	1090.	49.9	1090.	309.0	1090.	0.17	1090.	0.63	1090.	0.27	1090.
QVR-1	62.3	38.	39.6	38.	283.0	38.	0.14	38.	0.64	38.	0.22	38.
QVR-2	128.8	12.	65.2	12.	333.2	12.	0.20	12.	0.51	12.	0.39	12.
TV	89.6	290.	57.0	290.	371.1	290.	0.15	290.	0.62	290.	0.25	290.
TKI	114.0	10.	82.7	10.	376.1	10.	0.22	10.	0.73	10.	0.30	10.
KV	43.3	90.	28.5	90.	231.4	90.	0.13	90.	0.67	90.	0.20	90.
PC	103.6	150.	61.9	150.	360.2	150.	0.17	150.	0.61	150.	0.29	150.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 12

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	73.1	940.	29.8	940.	276.4	940.	0.11	940.	0.41	940.	0.27	940.
QAL	61.1	40.	28.5	40.	257.9	40.	0.11	40.	0.47	40.	0.24	40.
QTB	97.0	220.	45.4	220.	283.0	220.	0.16	220.	0.47	220.	0.34	220.
QTB	52.9	10.	14.2	10.	168.9	10.	0.08	10.	0.28	10.	0.31	10.
TD	141.7	40.	55.9	40.	329.3	40.	0.17	40.	0.40	40.	0.43	40.
PC	117.2	190.	53.9	190.	315.3	190.	0.17	190.	0.47	190.	0.37	190.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 17

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	85.0	1270.	51.1	1270.	320.9	1270.	0.16	1270.	0.61	1270.	0.27	1270.
TV	88.1	120.	58.3	120.	317.5	120.	0.18	120.	0.66	120.	0.28	120.
KV	68.3	50.	40.7	50.	244.8	50.	0.16	50.	0.61	50.	0.27	50.
KGD	72.5	30.	39.5	30.	283.4	30.	0.14	30.	0.54	30.	0.26	30.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 13

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	78.7	910.	48.6	910.	319.1	910.	0.16	910.	0.63	910.	0.25	910.
QAL	47.3	10.	41.5	10.	288.9	10.	0.14	10.	0.88	10.	0.16	10.
QB	87.3	10.	43.5	10.	344.5	10.	0.13	10.	0.50	10.	0.25	10.
QTB	87.2	100.	49.6	100.	357.1	100.	0.14	100.	0.57	100.	0.25	100.
QTB	62.5	80.	35.1	80.	235.4	80.	0.15	80.	0.56	80.	0.27	80.
TD	85.6	110.	43.4	110.	319.3	110.	0.14	110.	0.51	110.	0.27	110.
SOC-3	89.8	7.	66.2	7.	280.2	7.	0.24	7.	0.74	7.	0.32	7.
SOC-4	93.0	13.	60.4	13.	375.4	13.	0.16	13.	0.65	13.	0.25	13.
PC	138.5	190.	62.8	190.	341.7	190.	0.18	190.	0.47	190.	0.41	190.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 18

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES	AVG. SAMPLES						
QAB	85.0	1400.	49.1	1400.	325.1	1400.	0.15	1400.	0.58	1400.	0.26	1400.
TV	69.0	30.	54.1	30.	274.3	30.	0.20	30.	0.78	30.	0.25	30.
TVL	68.1	70.	54.5	70.	256.2	70.	0.21	70.	0.80	70.	0.27	70.
TNR	97.3	10.	56.4	10.	330.2	10.	0.17	10.	0.58	10.	0.29	10.
TPER	87.7	20.	59.9	20.	404.3	20.	0.15	20.	0.68	20.	0.22	20.
TP-2	82.9	60.	46.9	60.	312.1	60.	0.15	60.	0.55	60.	0.27	60.
TA	82.6	10.	34.3	10.	306.0	10.	0.11	10.	0.42	10.	0.27	10.
KV	74.3	40.	45.3	40.	295.2	40.	0.15	40.	0.62	40.	0.25	40.

TABLE T-3. FLIGHT-LINE AVERAGES (Continued)

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 19

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	78.0	1510.	284.8	1510.	0.22	1510.
QLC	72.3	100.	201.4	100.	0.33	100.
QLS	60.0	10.	216.0	10.	0.28	10.
QWS	73.7	10.	231.5	10.	0.29	10.
QTAL	82.0	30.	250.2	30.	0.22	30.
TVL	46.6	80.	197.5	80.	0.17	80.
TS	59.5	50.	219.4	50.	0.18	50.
TP-1	65.2	4.	213.9	4.	0.48	4.
TP-2	87.0	126.	315.6	126.	0.21	126.
KBI-3	97.7	4.	232.2	4.	0.47	4.
KBI-4	153.4	6.	366.2	6.	0.31	6.
SOC-2	49.8	20.	156.0	20.	0.41	20.
OCEA	31.9	10.	115.4	10.	0.27	10.
PCSC-1	61.0	10.	257.0	10.	0.27	10.
PCGR	129.7	60.	356.6	60.	0.22	60.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 23

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	82.7	900.	282.2	900.	0.19	900.
QB	63.7	70.	238.5	70.	0.18	70.
QTG	53.8	110.	214.7	110.	0.19	110.
QTAL	85.6	20.	276.6	20.	0.20	20.
TVU-1	142.6	44.	572.3	44.	0.15	44.
TVU-2	181.3	26.	510.3	26.	0.24	26.
TVL	86.5	210.	292.0	210.	0.18	210.
TP-2	95.8	20.	313.0	20.	0.18	20.
KU	79.4	10.	287.0	10.	0.25	10.
SOC-1	21.3	28.	74.0	28.	0.32	28.
SOC-2	41.7	2.	138.5	2.	0.21	2.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 20

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	73.8	1310.	270.4	1310.	0.20	1310.
TVL	75.0	20.	254.1	20.	0.21	20.
TP-2	63.1	60.	280.4	60.	0.13	60.
TA	75.9	100.	292.8	100.	0.19	100.
TKI	36.2	10.	149.4	10.	0.23	10.
KU	71.7	30.	211.9	30.	0.26	30.
PPP	37.8	30.	127.7	30.	0.26	30.
TM	79.7	10.	243.9	10.	0.22	10.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 201

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	70.3	620.	284.7	620.	0.13	620.
QAL	57.9	20.	257.7	20.	0.16	20.
QTG	57.8	200.	227.0	200.	0.14	200.
TR-3	103.3	20.	378.0	20.	0.18	20.
KBI-1	18.3	4.	55.5	4.	0.30	4.
KBI-2	30.6	2.	99.2	2.	0.24	2.
KBI-3	71.7	4.	222.7	4.	0.18	4.
PPP	35.4	10.	217.7	10.	0.19	10.
PPPE	21.1	10.	69.7	10.	0.35	10.
PPH	14.8	10.	55.0	10.	0.36	10.
PCGN-1	77.6	310.	274.3	310.	0.11	310.
PCGR	67.7	50.	313.7	50.	0.12	50.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 21

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	73.7	1090.	263.9	1090.	0.20	1090.
TVL	61.4	10.	213.9	10.	0.23	10.
TRB	95.3	20.	350.9	20.	0.19	20.
TP-2	86.4	10.	352.8	10.	0.17	10.
TA	86.7	130.	307.0	130.	0.20	130.
TKI	52.2	30.	153.4	30.	0.26	30.
KV	59.2	100.	227.8	100.	0.19	100.
PPP	37.9	40.	130.6	40.	0.26	40.
MD-1	19.3	10.	63.0	10.	0.50	10.
SOC-1	29.9	8.	91.1	8.	0.23	8.
SOC-2	53.5	2.	166.5	2.	0.22	2.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 202

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	76.0	690.	297.9	690.	0.17	690.
QAL	52.2	100.	224.6	100.	0.16	100.
QLS	60.4	20.	235.0	20.	0.22	20.
QTG	66.2	60.	236.4	60.	0.17	60.
PCGN-1	69.1	320.	265.3	320.	0.14	320.
PCGR	70.2	70.	302.5	70.	0.08	70.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 22

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	72.4	1270.	254.2	1270.	0.19	1270.
TVL	60.5	40.	244.8	40.	0.15	40.
TWT-1	73.5	30.	227.6	30.	0.23	30.
TWT-2	100.1	20.	360.6	20.	0.16	20.
TB	81.9	80.	291.5	80.	0.20	80.
TP-2	97.7	50.	312.7	50.	0.19	50.
TKI	59.0	10.	327.2	10.	0.13	10.
KV	49.2	30.	151.9	30.	0.23	30.
PPM-1	28.9	20.	95.9	20.	0.28	20.
MD-1	22.0	10.	69.6	10.	0.28	10.
MD-2	47.1	10.	213.0	10.	0.23	10.
SOC-3	64.3	10.	263.9	10.	0.13	10.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 204

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	72.3	350.	290.8	350.	0.14	350.
QAL	63.5	20.	245.7	20.	0.14	20.
QLC	72.1	60.	208.0	60.	0.23	60.
QLS	45.4	20.	206.4	20.	0.09	20.
QWS	59.8	50.	304.7	50.	0.13	50.
QTG	55.9	240.	249.7	240.	0.15	240.
PCSC-1	50.3	80.	153.7	80.	0.19	80.
PCGN-1	51.0	290.	176.9	290.	0.19	290.
PCGR	89.0	130.	276.4	130.	0.17	130.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 205

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	79.2	170.	315.3	170.	0.18	170.
QAL	57.1	50.	228.5	50.	0.20	50.
QLC	72.6	110.	213.9	110.	0.26	110.
QLS	60.5	40.	281.9	40.	0.18	40.
QWS	56.6	50.	288.0	50.	0.17	50.
QTG	71.5	150.	259.8	150.	0.19	150.
TV	78.8	40.	400.8	40.	0.14	40.
PCGN-1	60.9	398.	194.6	398.	0.21	398.
PCGN-2	134.8	2.	293.1	2.	0.20	2.
PCGR	148.5	160.	500.3	160.	0.21	160.

TABLE T-3. FLIGHT-LINE AVERAGES (Continued)

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 206

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES						
QAB	64.0	240.0	52.3	240.0	267.9	240.0	0.19	240.0	0.78	240.0	0.24	240.0
QAL	61.1	40.0	55.3	40.0	218.1	40.0	0.26	40.0	0.91	40.0	0.28	40.0
QLC	75.3	40.0	72.5	40.0	203.7	40.0	0.36	40.0	0.96	40.0	0.37	40.0
QLS	69.0	20.0	77.1	20.0	217.2	20.0	0.35	20.0	1.12	20.0	0.32	20.0
QWS	66.9	60.0	67.8	60.0	277.8	60.0	0.25	60.0	1.05	60.0	0.25	60.0
QDS	48.0	30.0	54.8	30.0	331.7	30.0	0.17	30.0	1.24	30.0	0.15	30.0
QTG	68.5	160.0	49.7	160.0	243.2	160.0	0.23	160.0	0.72	160.0	0.28	160.0
QTAL	89.5	140.0	53.1	140.0	296.7	140.0	0.18	140.0	0.60	140.0	0.30	140.0
TR-2	66.3	76.0	44.6	76.0	288.9	76.0	0.16	76.0	0.63	76.0	0.23	76.0
TR-3	109.9	74.0	57.9	74.0	357.6	74.0	0.17	74.0	0.53	74.0	0.31	74.0
TV	71.1	20.0	46.9	20.0	243.4	20.0	0.19	20.0	0.66	20.0	0.29	20.0
PCGN-1	61.3	230.0	31.4	230.0	252.5	230.0	0.12	230.0	0.51	230.0	0.24	230.0
PCGN-2	162.6	110.0	72.1	110.0	353.9	110.0	0.20	110.0	0.44	110.0	0.46	110.0
PCGR	146.9	220.0	72.7	220.0	340.2	220.0	0.21	220.0	0.49	220.0	0.43	220.0

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 211

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES						
QAB	99.7	460.0	59.4	460.0	327.4	460.0	0.18	460.0	0.61	460.0	0.31	460.0
QAL	69.4	110.0	52.9	110.0	275.1	110.0	0.19	110.0	0.77	110.0	0.25	110.0
QAL	60.5	80.0	48.8	80.0	245.1	80.0	0.20	80.0	0.81	80.0	0.25	80.0
QTAL	97.0	50.0	48.7	50.0	311.3	50.0	0.15	50.0	0.50	50.0	0.31	50.0
QTB	45.4	80.0	38.1	80.0	196.3	80.0	0.19	80.0	0.83	80.0	0.23	80.0
TV	111.2	10.0	91.8	10.0	352.7	10.0	0.26	10.0	0.83	10.0	0.32	10.0
TP-1	42.8	76.0	25.2	76.0	184.5	76.0	0.14	76.0	0.59	76.0	0.23	76.0
TP-2	73.5	4.0	42.7	4.0	261.0	4.0	0.16	4.0	0.58	4.0	0.28	4.0
KBI-3	78.9	1.0	40.6	1.0	285.9	1.0	0.14	1.0	0.52	1.0	0.28	1.0
KBI-4	100.5	19.0	35.9	19.0	338.3	19.0	0.11	19.0	0.36	19.0	0.30	19.0
UCEA	86.0	10.0	31.4	10.0	296.4	10.0	0.11	10.0	0.36	10.0	0.29	10.0
PCSC-2	136.4	6.0	54.9	6.0	306.4	6.0	0.18	6.0	0.40	6.0	0.44	6.0
PCSC-3	195.8	24.0	74.5	24.0	354.0	24.0	0.21	24.0	0.38	24.0	0.55	24.0
PCGR	106.3	210.0	45.5	210.0	304.6	210.0	0.15	210.0	0.43	210.0	0.34	210.0

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 207

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES						
QAB	93.4	290.0	51.8	290.0	293.1	290.0	0.17	290.0	0.56	290.0	0.31	290.0
QAL	57.0	60.0	35.0	60.0	225.8	60.0	0.16	60.0	0.62	60.0	0.25	60.0
QWS	64.6	30.0	37.0	30.0	285.1	30.0	0.13	30.0	0.57	30.0	0.23	30.0
QTG	58.7	100.0	35.8	100.0	250.8	100.0	0.14	100.0	0.62	100.0	0.23	100.0
QTAL	69.9	40.0	41.6	40.0	294.3	40.0	0.14	40.0	0.60	40.0	0.24	40.0
QTB	110.2	20.0	66.8	20.0	324.1	20.0	0.21	20.0	0.61	20.0	0.34	20.0
TR-2	83.0	3.0	42.7	3.0	269.8	3.0	0.16	3.0	0.51	3.0	0.31	3.0
TR-3	117.7	37.0	70.2	37.0	408.9	37.0	0.17	37.0	0.60	37.0	0.29	37.0
TV	90.2	10.0	61.2	10.0	303.4	10.0	0.20	10.0	0.68	10.0	0.30	10.0
TP-2	91.2	10.0	41.3	10.0	330.8	10.0	0.13	10.0	0.45	10.0	0.28	10.0
PCSC-1	60.7	40.0	35.4	40.0	237.7	40.0	0.15	40.0	0.58	40.0	0.26	40.0
PCGR	147.4	60.0	77.7	60.0	351.9	60.0	0.22	60.0	0.53	60.0	0.42	60.0

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 212

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES						
QAB	94.9	410.0	52.6	410.0	319.7	410.0	0.16	410.0	0.56	410.0	0.30	410.0
QAL	70.4	100.0	41.0	100.0	286.7	100.0	0.14	100.0	0.59	100.0	0.25	100.0
QTG	59.1	160.0	34.1	160.0	260.2	160.0	0.13	160.0	0.58	160.0	0.23	160.0
QTAL	135.1	60.0	42.8	60.0	277.7	60.0	0.16	60.0	0.33	60.0	0.48	60.0
QTB	47.5	30.0	30.3	30.0	237.5	30.0	0.13	30.0	0.64	30.0	0.20	30.0
TP-1	61.3	10.0	33.3	10.0	204.7	10.0	0.16	10.0	0.54	10.0	0.30	10.0
KBI-3	58.6	10.0	33.3	10.0	178.3	10.0	0.19	10.0	0.59	10.0	0.33	10.0
KBI-4	113.3	20.0	31.4	20.0	361.2	20.0	0.09	20.0	0.28	20.0	0.31	20.0
PPP	60.2	10.0	40.0	10.0	187.2	10.0	0.21	10.0	0.67	10.0	0.32	10.0
PCSC-1	65.6	102.0	39.4	102.0	243.9	102.0	0.16	102.0	0.61	102.0	0.27	102.0
PCSC-2	115.5	43.0	60.3	43.0	325.8	43.0	0.19	43.0	0.52	43.0	0.36	43.0
PCSC-3	170.6	5.0	105.9	5.0	307.6	5.0	0.35	5.0	0.62	5.0	0.56	5.0
PCGN-2	201.2	60.0	122.6	60.0	351.4	60.0	0.35	60.0	0.61	60.0	0.58	60.0
PCGR	91.2	60.0	32.9	60.0	246.2	60.0	0.14	60.0	0.37	60.0	0.37	60.0

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 209

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES						
QAB	101.5	370.0	54.4	370.0	310.7	370.0	0.17	370.0	0.57	370.0	0.32	370.0
QAL	87.1	60.0	46.8	60.0	277.9	60.0	0.17	60.0	0.54	60.0	0.31	60.0
QAL	76.6	100.0	42.4	100.0	284.3	100.0	0.15	100.0	0.56	100.0	0.26	100.0
QTAL	88.7	80.0	56.9	80.0	331.7	80.0	0.17	80.0	0.64	80.0	0.27	80.0
TR-2	80.5	2.0	36.2	2.0	289.8	2.0	0.12	2.0	0.45	2.0	0.28	2.0
TR-3	98.6	8.0	43.0	8.0	323.0	8.0	0.13	8.0	0.44	8.0	0.31	8.0
TV	97.7	10.0	56.8	10.0	325.4	10.0	0.17	10.0	0.58	10.0	0.30	10.0
TA	48.6	10.0	60.4	10.0	11.9	10.0	0.94	10.0	1.51	10.0	1.05	10.0
KBI-3	97.4	10.0	53.7	10.0	269.1	10.0	0.20	10.0	0.57	10.0	0.35	10.0
KBI-4	48.3	10.0	37.3	10.0	214.2	10.0	0.18	10.0	0.78	10.0	0.23	10.0
KV	57.7	10.0	27.5	10.0	129.9	10.0	0.31	10.0	0.52	10.0	0.53	10.0
PCSC-1	150.2	10.0	39.4	10.0	169.7	10.0	0.24	10.0	0.85	10.0	0.29	10.0
PCSC-2	121.0	3.0	74.6	3.0	246.9	3.0	0.30	3.0	0.62	3.0	0.49	3.0
PCSC-3	204.2	7.0	107.1	7.0	344.6	7.0	0.31	7.0	0.53	7.0	0.59	7.0
PCGR	140.9	30.0	74.8	30.0	398.2	30.0	0.19	30.0	0.53	30.0	0.36	30.0

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 214

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES						
QAB	89.8	250.0	49.9	250.0	293.4	250.0	0.17	250.0	0.57	250.0	0.30	250.0
QAL	91.6	20.0	45.5	20.0	279.2	20.0	0.16	20.0	0.51	20.0	0.33	20.0
QAL	67.3	370.0	40.9	370.0	263.0	370.0	0.16	370.0	0.61	370.0	0.25	370.0
QTB	46.4	170.0	28.7	170.0	215.7	170.0	0.13	170.0	0.64	170.0	0.22	170.0
TR-2	79.7	3.0	46.1	3.0	304.5	3.0	0.15	3.0	0.58	3.0	0.26	3.0
TR-3	111.7	17.0	51.5	17.0	349.2	17.0	0.15	17.0	0.47	17.0	0.32	17.0
TKI	155.6	10.0	74.7	10.0	355.9	10.0	0.21	10.0	0.49	10.0	0.43	10.0
PCSC-1	53.3	10.0	39.3	10.0	183.1	10.0	0.23	10.0	0.77	10.0	0.32	10.0
PCGR	145.0	30.0	66.8	30.0	334.2	30.0	0.20	30.0	0.50	30.0	0.42	30.0

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 210

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES						
QAB	109.0	330.0	66.7	330.0	348.7	330.0	0.19	330.0	0.63	330.0	0.31	330.0
QAL	60.3	40.0	47.4	40.0	225.0	40.0	0.21	40.0	0.79	40.0	0.27	40.0
QAL	64.7	130.0	52.3	130.0	267.3	130.0	0.20	130.0	0.82	130.0	0.24	130.0
QTAL	92.5	60.0	64.3	60.0	319.2	60.0	0.20	60.0	0.69	60.0	0.29	60.0
QTB	31.9	30.0	20.1	30.0	171.6	30.0	0.12	30.0	0.63	30.0	0.19	30.0
TV	108.6	10.0	80.5	10.0	357.7	10.0	0.22	10.0	0.74	10.0	0.30	10.0
TP-1	49.5	2.0	39.2	2.0	222.8	2.0	0.18	2.0	0.79	2.0	0.22	2.0
TP-2	62.4	8.0	40.5	8.0	285.7	8.0	0.14	8.0	0.65	8.0	0.22	8.0
TA	49.2	100.0	32.5	100.0	244.9	100.0	0.14	100.0	0.72	100.0	0.20	100.0
TKI	157.1	10.0	82.6	10.0	323.8	10.0	0.25	10.0	0.54	10.0	0.47	10.0
KV	36.8	110.0	23.6	110.0	218.1	110.0	0.11	110.0	0.68	110.0	0.17	110.0
ME	51.2	10.0	31.1	10.0	183.5	10.0	0.17	10.0	0.60	10.0	0.28	10.0
PCGR	171.3	50.0	97.0	50.0	360.1	50.0	0.27	50.0	0.61	50.0	0.46	

TABLE T-3. FLIGHT-LINE AVERAGES (Continued)

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 216

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	75.4	310.	55.7	310.	258.0	310.
QAL	72.3	20.	66.8	20.	283.1	20.
QB	56.1	20.	45.5	20.	213.2	20.
QTG	65.9	120.	52.3	120.	272.3	120.
QTB	43.2	80.	35.1	80.	222.3	80.
TS	96.2	20.	65.6	20.	319.0	20.
TR-2	69.6	20.	51.2	20.	347.1	20.
TR-3	147.8	6.	93.4	6.	351.0	6.
TR-4	173.6	4.	105.0	4.	326.9	4.
TA	72.4	20.	55.2	20.	335.1	20.
KU	64.3	20.	54.7	20.	229.5	20.
KV	54.3	20.	40.9	20.	312.4	20.
MD-1	36.6	4.	33.3	4.	115.0	4.
MD-2	66.5	6.	41.0	6.	194.5	6.
PCGR	164.3	30.	98.8	30.	334.2	30.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 220

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	68.4	370.	48.9	370.	275.7	370.
QAL	57.2	10.	42.2	10.	264.6	10.
QTG	61.0	80.	39.4	80.	265.5	80.
QTB	53.1	160.	32.5	160.	225.5	160.
TV	83.0	30.	49.7	30.	273.9	30.
TA	48.0	40.	33.5	40.	290.1	40.
TKS	34.6	10.	19.6	10.	103.5	10.
TKI	81.7	20.	48.5	20.	365.3	20.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 221

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	77.6	350.	52.5	350.	286.3	350.
QAL	62.5	20.	44.3	20.	247.5	20.
QTG	59.0	190.	39.6	190.	263.8	190.
QTB	60.7	90.	37.8	90.	228.2	90.
TV	76.1	50.	50.8	50.	285.7	50.
TKI	97.0	10.	54.4	10.	381.0	10.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 217

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	90.7	290.	47.5	290.	267.3	290.
QAL	76.4	10.	38.4	10.	324.4	10.
QB	39.2	20.	24.2	20.	172.6	20.
QTG	53.4	360.	35.5	360.	249.7	360.
QTB	50.1	210.	31.3	210.	208.4	210.
TS	62.9	100.	41.8	100.	248.6	100.
TR-2	75.7	17.	53.3	17.	291.5	17.
TR-3	108.9	138.	66.3	138.	279.9	138.
TR-4	182.9	55.	93.7	55.	278.6	55.
TA	58.5	10.	30.6	10.	239.7	10.
TKI	51.7	10.	41.7	10.	148.2	10.
KBI-1	21.5	21.	25.9	21.	55.4	21.
KBI-2	32.9	18.	25.9	18.	109.0	18.
KBI-3	47.7	41.	36.4	41.	192.5	41.
KV	93.6	20.	56.2	20.	336.4	20.
PPP	25.6	10.	21.7	10.	163.0	10.
MD-1	20.2	60.	31.2	60.	66.8	60.
MD-2	55.8	20.	33.0	20.	237.5	20.
CT	51.2	10.	34.4	10.	132.5	10.
PCSC-1	35.3	40.	32.1	40.	146.1	40.
PCGR	131.5	30.	63.9	30.	270.5	30.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 222

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	74.9	340.	48.9	340.	280.7	340.
QAL	59.1	20.	36.9	20.	225.3	20.
QTG	67.2	190.	45.0	190.	256.6	190.
QTB	63.0	50.	39.1	50.	228.7	50.
TR-1	39.6	6.	32.3	6.	255.5	6.
TR-2	69.1	4.	56.0	4.	313.2	4.
TV	78.6	90.	47.8	90.	313.2	90.
KV	32.4	10.	15.1	10.	249.7	10.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 223

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	75.1	700.	57.9	700.	265.1	700.
QAL	66.6	90.	35.9	90.	235.8	90.
QTG	68.4	650.	36.6	650.	248.4	650.
QTB	62.5	60.	49.8	60.	233.0	60.
TR-1	42.1	19.	21.0	19.	199.8	19.
TR-2	74.3	24.	39.3	24.	355.5	24.
TR-3	102.5	17.	50.7	17.	420.7	17.
TV	81.4	110.	64.6	110.	272.2	110.
TD	53.3	20.	34.9	20.	270.9	20.
TA	83.0	20.	61.3	20.	346.6	20.
KV	55.7	310.	25.5	310.	270.0	310.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 219

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	67.5	300.	40.0	300.	243.3	300.
QB	55.3	60.	28.1	60.	233.7	60.
QTG	63.2	170.	33.4	170.	277.3	170.
QTB	51.8	80.	26.0	80.	238.1	80.
TS	77.7	260.	52.7	260.	306.9	260.
TR-1	38.6	3.	10.9	3.	182.4	3.
TR-2	69.1	6.	33.2	6.	273.7	6.
TR-3	97.7	21.	52.6	21.	331.2	21.
TA	63.2	60.	37.4	60.	282.8	60.
KBI-2	34.3	23.	31.0	23.	97.6	23.
KBI-3	54.4	7.	36.8	7.	189.1	7.
MD-1	19.8	50.	33.4	50.	53.2	50.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT

FLIGHT LINE 224

GEOLOGIC UNIT	AVG. TH SAMPLES	AVG. U SAMPLES	AVG. K SAMPLES	AVG. U/K SAMPLES	AVG. U/TH SAMPLES	AVG. TH/K SAMPLES
QAB	89.8	1040.	65.3	1040.	299.5	1040.
QAL	69.3	350.	34.7	350.	240.1	350.
QTG	60.7	390.	26.9	390.	217.1	390.
QTB	68.5	110.	31.5	110.	255.4	110.
KV	60.6	320.	24.9	320.	233.6	320.

TABLE T-3. FLIGHT-LINE AVERAGES (Continued)

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 225

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES					
QAB	87.5	860.	57.0	860.	315.8	860.	0.18	860.	0.67	860.	0.28	860.
QAL	84.4	100.	37.4	100.	278.5	100.	0.14	100.	0.46	100.	0.30	100.
QTG	80.3	280.	34.8	280.	279.2	280.	0.13	280.	0.45	280.	0.29	280.
QTL	82.2	30.	62.9	30.	278.6	30.	0.23	30.	0.77	30.	0.30	30.
QTB	63.3	200.	27.5	200.	230.9	200.	0.12	200.	0.44	200.	0.27	200.
TD	77.9	300.	39.3	300.	321.8	300.	0.13	300.	0.51	300.	0.25	300.
TWT-1	66.5	14.	40.0	14.	259.8	14.	0.15	14.	0.61	14.	0.25	14.
TWT-2	121.6	6.	62.1	6.	328.2	6.	0.19	6.	0.51	6.	0.37	6.
TB	66.4	10.	63.5	10.	262.5	10.	0.24	10.	0.96	10.	0.25	10.
TP-1	63.7	6.	48.6	6.	221.2	6.	0.22	6.	0.76	6.	0.29	6.
TP-2	98.9	74.	66.0	74.	316.5	74.	0.21	74.	0.68	74.	0.31	74.
TKI	177.6	30.	71.5	30.	349.5	30.	0.20	30.	0.42	30.	0.51	30.
KU	97.6	20.	47.7	20.	268.4	20.	0.20	20.	0.52	20.	0.38	20.
PC	174.8	40.	83.2	40.	321.5	40.	0.26	40.	0.48	40.	0.54	40.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 227

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES					
QAB	74.8	720.	49.7	720.	308.7	720.	0.16	720.	0.68	720.	0.24	720.
QAL	70.0	650.	35.5	650.	322.4	650.	0.11	650.	0.54	650.	0.22	650.
QTG	68.0	130.	58.4	130.	213.6	130.	0.18	130.	0.60	130.	0.32	130.
QTB	68.0	130.	58.4	130.	213.6	130.	0.18	130.	0.60	130.	0.32	130.
TV	112.7	20.	59.4	20.	383.7	20.	0.16	20.	0.53	20.	0.29	20.
TD	68.3	100.	42.1	100.	236.8	100.	0.18	100.	0.62	100.	0.29	100.
TVL	68.7	90.	45.2	90.	301.4	90.	0.15	90.	0.66	90.	0.23	90.
TKI	48.5	40.	36.0	40.	271.5	40.	0.14	40.	0.76	40.	0.18	40.
KU	53.1	180.	40.7	180.	292.5	180.	0.14	180.	0.79	180.	0.18	180.
KV	48.4	70.	38.0	70.	291.4	70.	0.13	70.	0.82	70.	0.16	70.
PPMD-2	35.6	30.	41.9	30.	216.4	30.	0.20	30.	1.20	30.	0.17	30.
PC	122.1	20.	69.7	20.	377.3	20.	0.19	20.	0.57	20.	0.33	20.

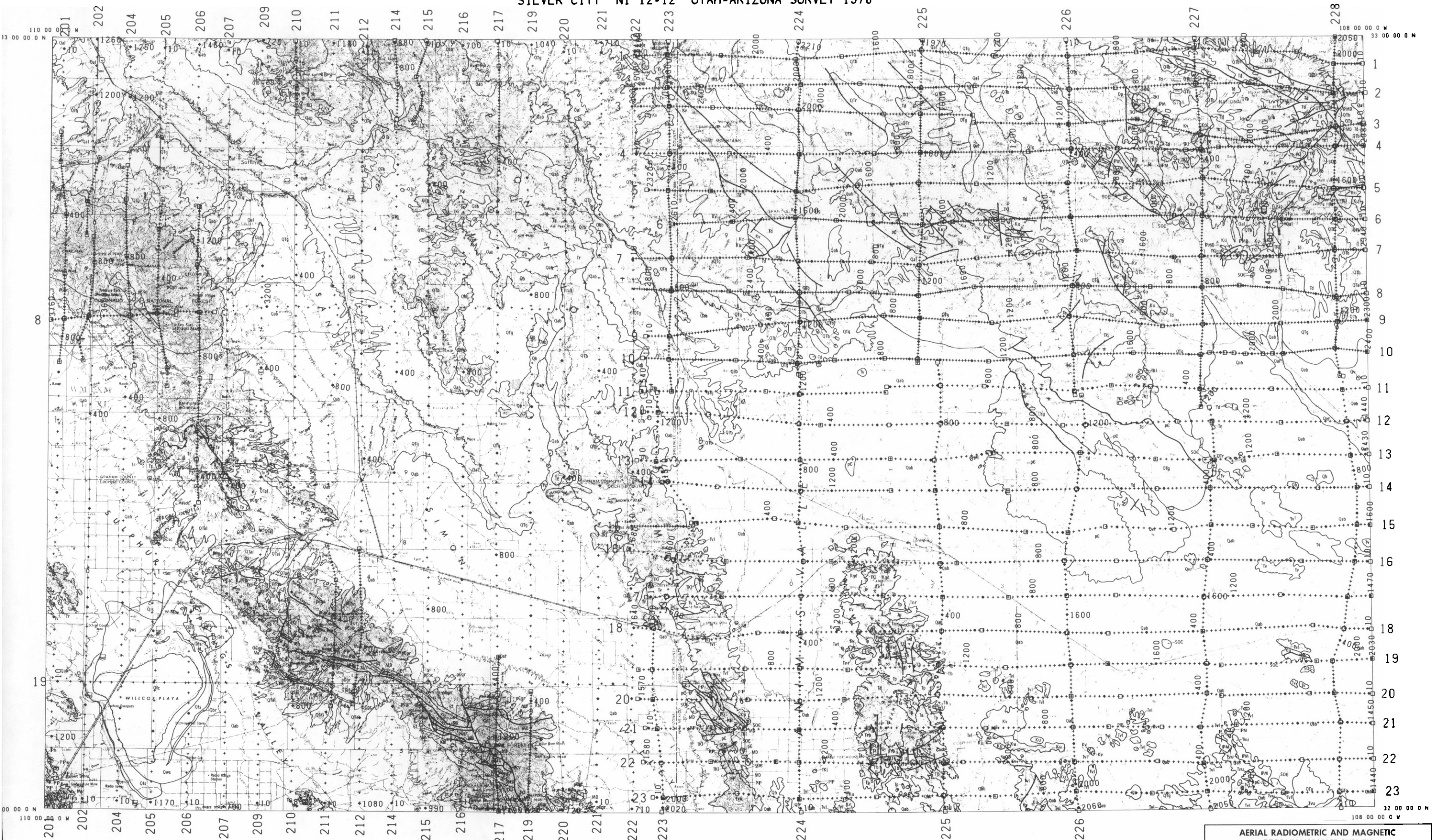
AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 226

GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES					
QAB	92.0	630.	60.4	630.	329.8	630.	0.18	630.	0.66	630.	0.28	630.
QAL	74.5	680.	37.3	680.	283.2	680.	0.13	680.	0.50	680.	0.26	680.
TD	72.4	210.	35.9	210.	355.7	210.	0.10	210.	0.50	210.	0.21	210.
TVL	79.6	10.	52.2	10.	291.8	10.	0.18	10.	0.66	10.	0.27	10.
PC	144.8	530.	69.2	530.	365.2	530.	0.19	530.	0.49	530.	0.40	530.

AVERAGE COUNTING RATES PER GEOLOGIC UNIT
FLIGHT LINE 228

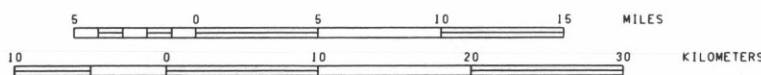
GEOLOGIC UNIT	TH	U	K	U/K	U/TH	TH/K						
AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES	AVG.	SAMPLES					
QAB	68.6	960.	46.1	960.	315.8	960.	0.15	960.	0.68	960.	0.22	960.
QAL	57.2	30.	42.2	30.	303.8	30.	0.14	30.	0.77	30.	0.19	30.
QTG	51.5	340.	30.0	340.	206.2	340.	0.15	340.	0.60	340.	0.25	340.
QTB	34.6	170.	21.4	170.	180.5	170.	0.12	170.	0.63	170.	0.19	170.
TV	73.8	20.	51.5	20.	314.9	20.	0.16	20.	0.69	20.	0.23	20.
TD	61.6	260.	33.9	260.	247.7	260.	0.15	260.	0.58	260.	0.26	260.
TKI	40.5	50.	30.2	50.	169.2	50.	0.20	50.	0.81	50.	0.25	50.
KU	52.4	20.	54.1	20.	176.4	20.	0.37	20.	1.03	20.	0.35	20.
PPMD-1	29.9	180.	40.3	180.	60.8	180.	0.71	180.	1.45	180.	0.50	180.
PPMD-2	59.6	20.	42.5	20.	191.4	20.	0.23	20.	0.71	20.	0.32	20.

SILVER CITY NI 12-12 UTAH-AZONA SURVEY 1978

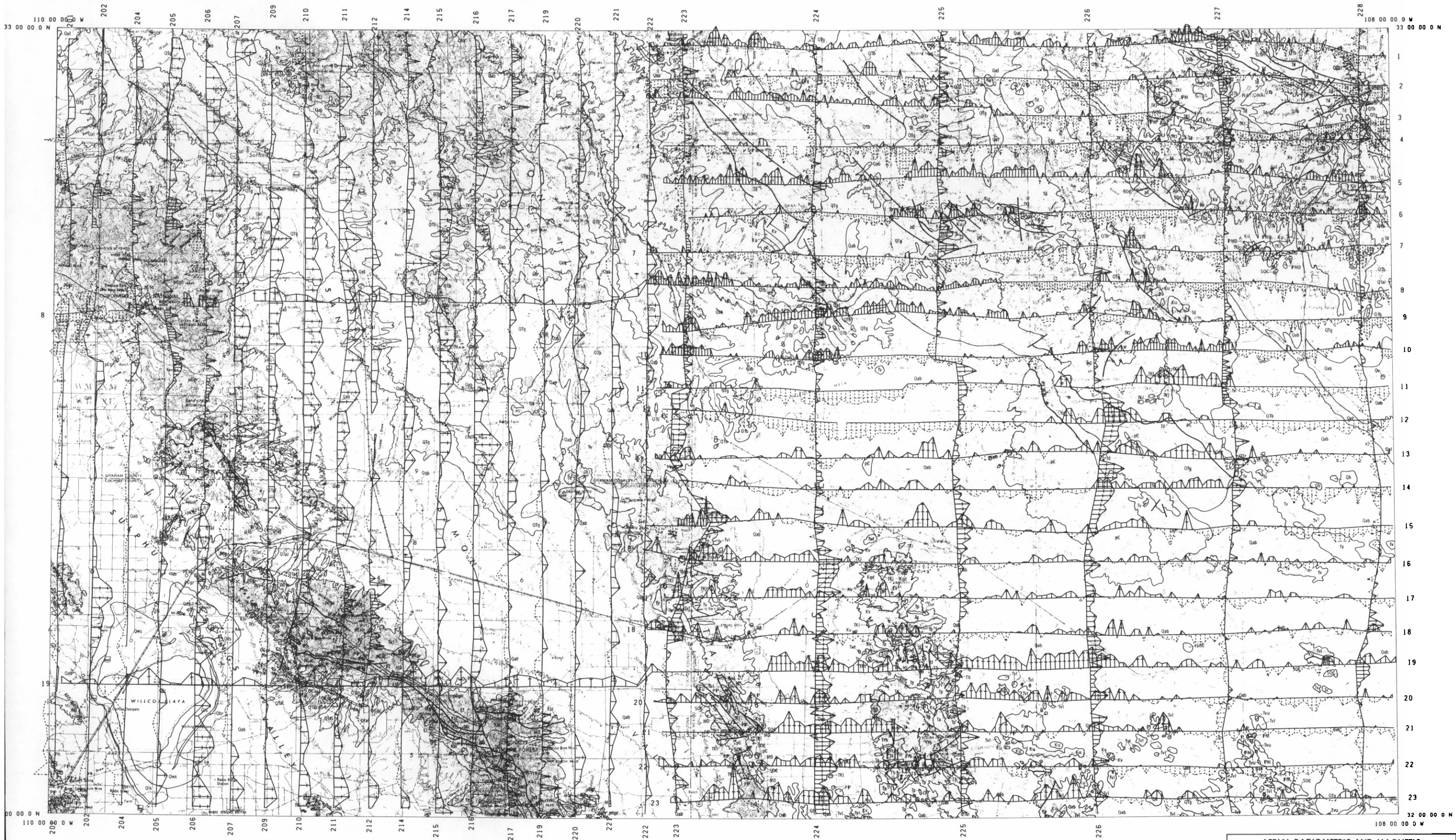


RECORD LOCATION MAP

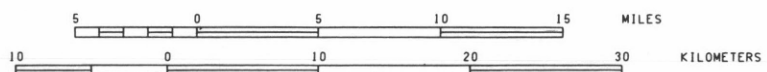
LEGEND : □ = PHOTO-RECOVERED POINT



AERIAL RADIOMETRIC AND MAGNETIC RECONNAISSANCE SURVEY
 PREPARED BY
 TEXAS INSTRUMENTS INCORPORATED
 DALLAS, TEXAS
 WORK PERFORMED UNDER
 BENDIX FIELD ENGINEERING CORPORATION
 SUBCONTRACT NO. 78-090-L
 PREPARED FOR
 U.S. DEPARTMENT OF ENERGY



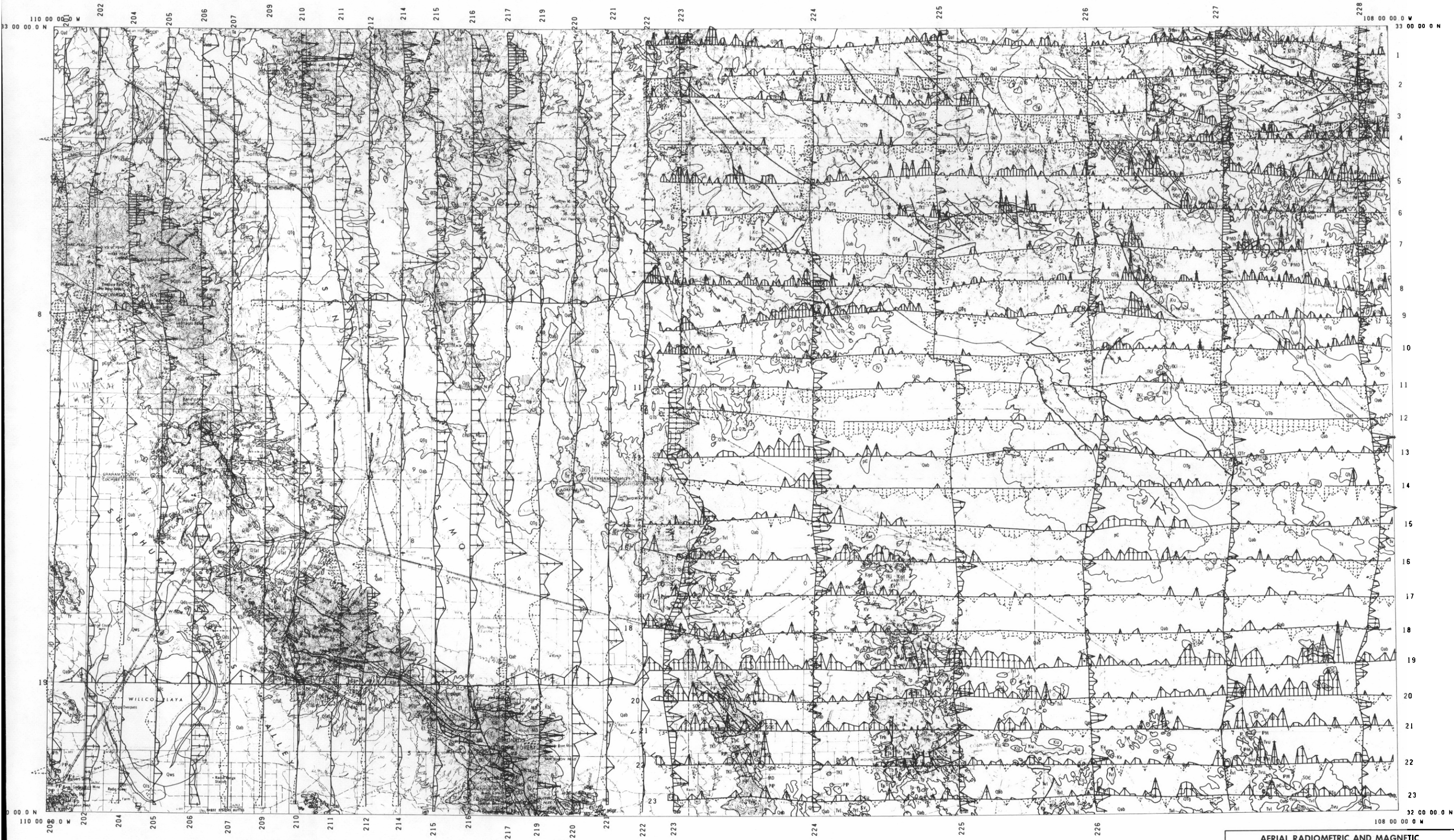
PROFILE MAP URANIUM 6.0 S.D./IN. TEXAS INSTRUMENTS



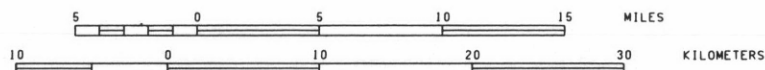
LEGEND : POSITIVE SIGNIFICANCE FACTORS—SOLID LINES
 NEGATIVE SIGNIFICANCE FACTORS—DOTTED LINES

AERIAL RADIOMETRIC AND MAGNETIC RECONNAISSANCE SURVEY
 PREPARED BY
 TEXAS INSTRUMENTS INCORPORATED
 DALLAS, TEXAS
 WORK PERFORMED UNDER
 BENDIX FIELD ENGINEERING CORPORATION
 SUBCONTRACT NO. 78-090-L
 PREPARED FOR
 U.S. DEPARTMENT OF ENERGY

SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



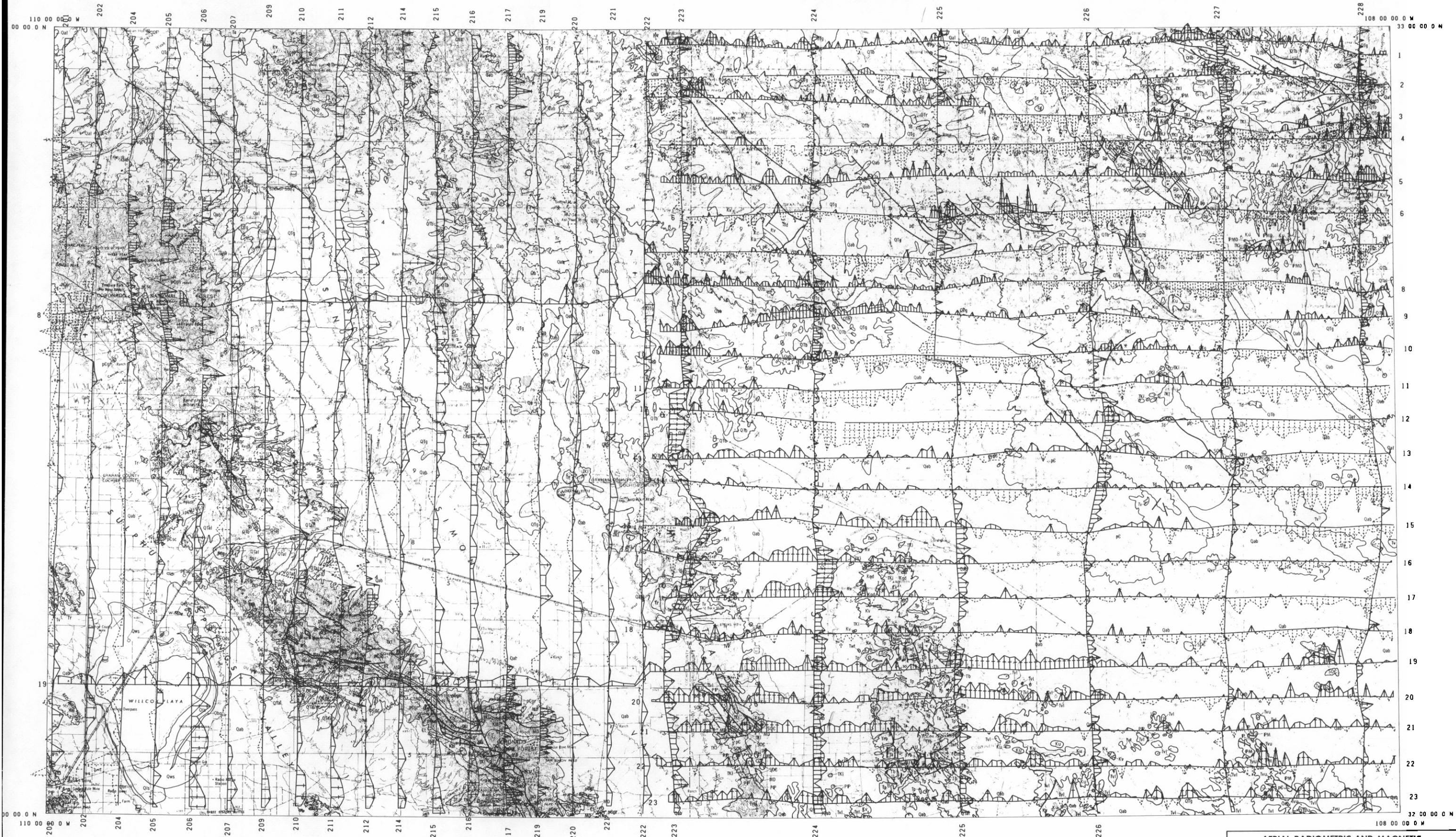
PROFILE MAP U/TH 6.0 S.D./IN. TEXAS INSTRUMENTS



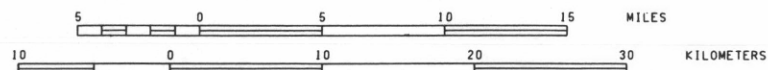
LEGEND: POSITIVE SIGNIFICANCE FACTORS—SOLID LINES
 NEGATIVE SIGNIFICANCE FACTORS—DOTTED LINES

AERIAL RADIOMETRIC AND MAGNETIC
 RECONNAISSANCE SURVEY
 PREPARED BY
 TEXAS INSTRUMENTS INCORPORATED
 DALLAS, TEXAS
 WORK PERFORMED UNDER
 BENDIX FIELD ENGINEERING CORPORATION
 SUBCONTRACT NO. 78-090-L
 PREPARED FOR
 U.S. DEPARTMENT OF ENERGY

SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



PROFILE MAP U/K 6.0 S.D./IN. TEXAS INSTRUMENTS

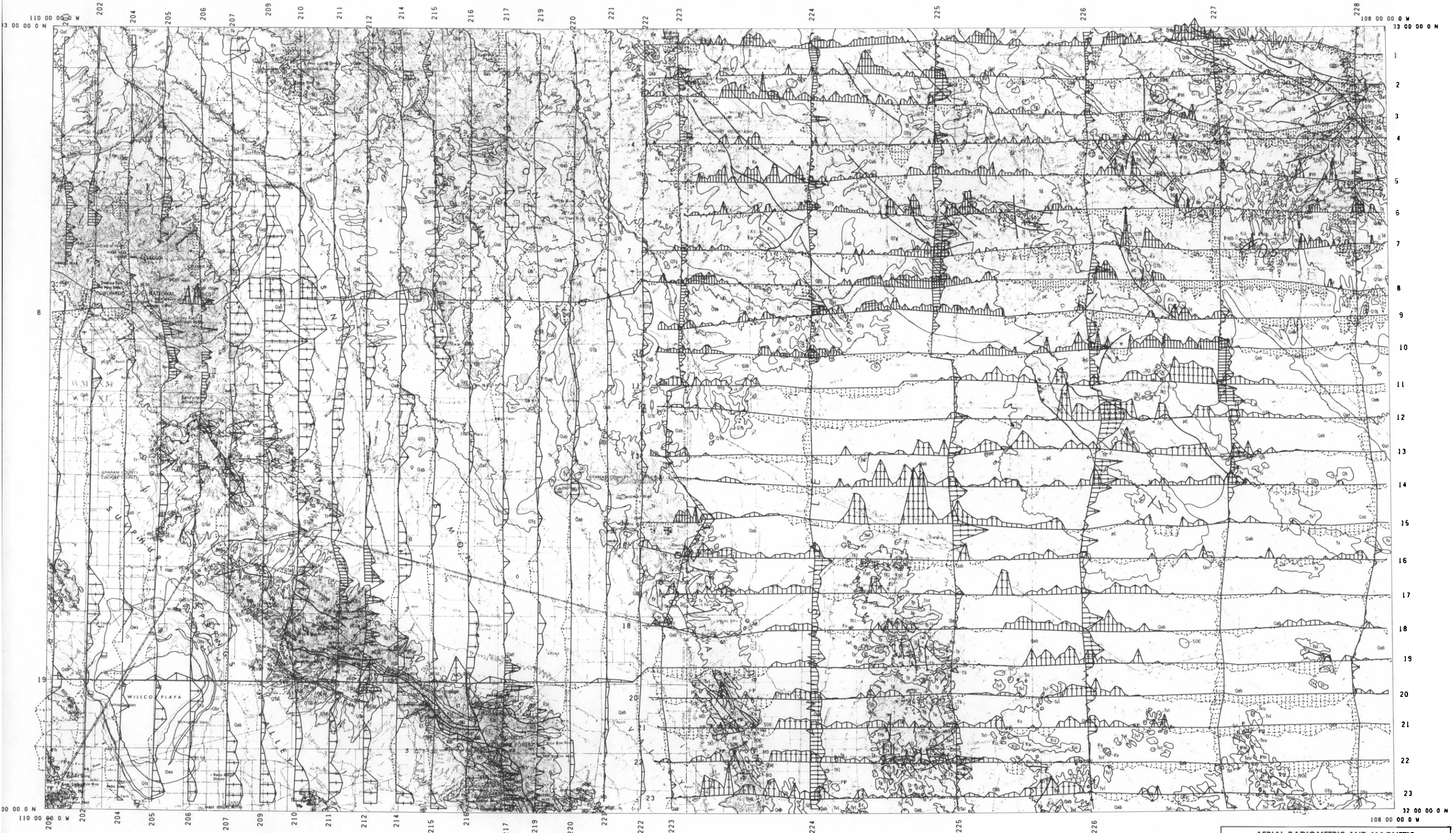


LEGEND: POSITIVE SIGNIFICANCE FACTORS—SOLID LINES
NEGATIVE SIGNIFICANCE FACTORS—DOTTED LINES

AERIAL RADIO-METRIC AND MAGNETIC
RECONNAISSANCE SURVEY
PREPARED BY
TEXAS INSTRUMENTS INCORPORATED
DALLAS, TEXAS

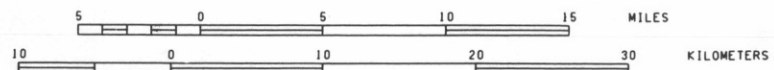
WORK PERFORMED UNDER
BENDIX FIELD ENGINEERING CORPORATION
SUBCONTRACT NO. 78-090-L
PREPARED FOR
U.S. DEPARTMENT OF ENERGY

SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



PROFILE MAP

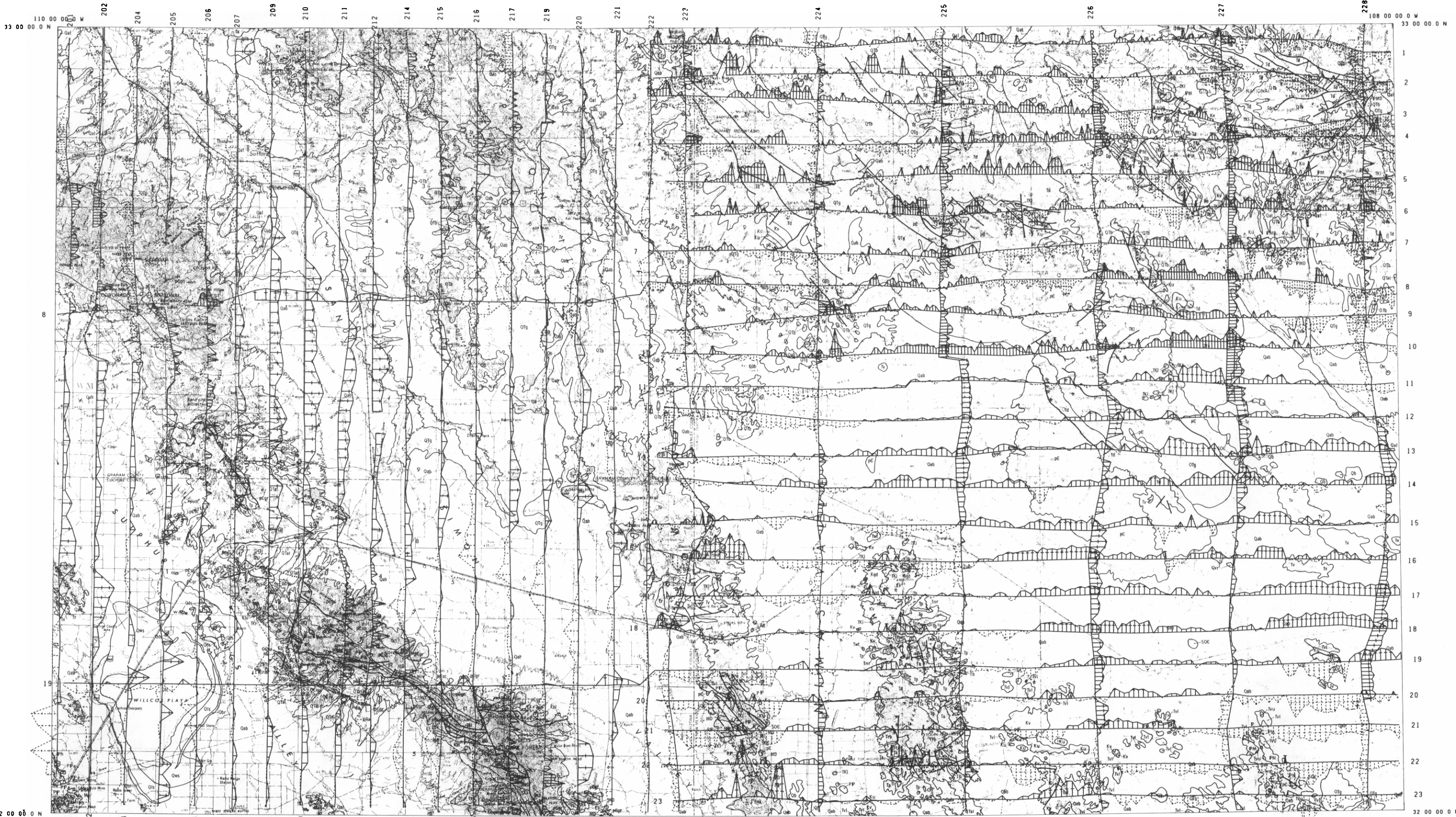
THORIUM 6.0 S.D./IN. TEXAS INSTRUMENTS



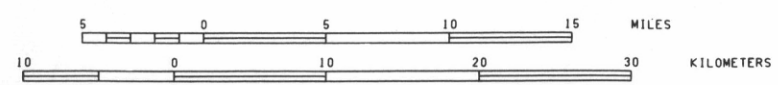
LEGEND : POSITIVE SIGNIFICANCE FACTORS—SOLID LINES
 NEGATIVE SIGNIFICANCE FACTORS—DOTTED LINES

**AERIAL RADIOMETRIC AND MAGNETIC
 RECONNAISSANCE SURVEY**
 PREPARED BY
 TEXAS INSTRUMENTS INCORPORATED
 DALLAS, TEXAS
 WORK PERFORMED UNDER
 BENDIX FIELD ENGINEERING CORPORATION
 SUBCONTRACT NO. 78-090-L
 PREPARED FOR
 U.S. DEPARTMENT OF ENERGY

SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



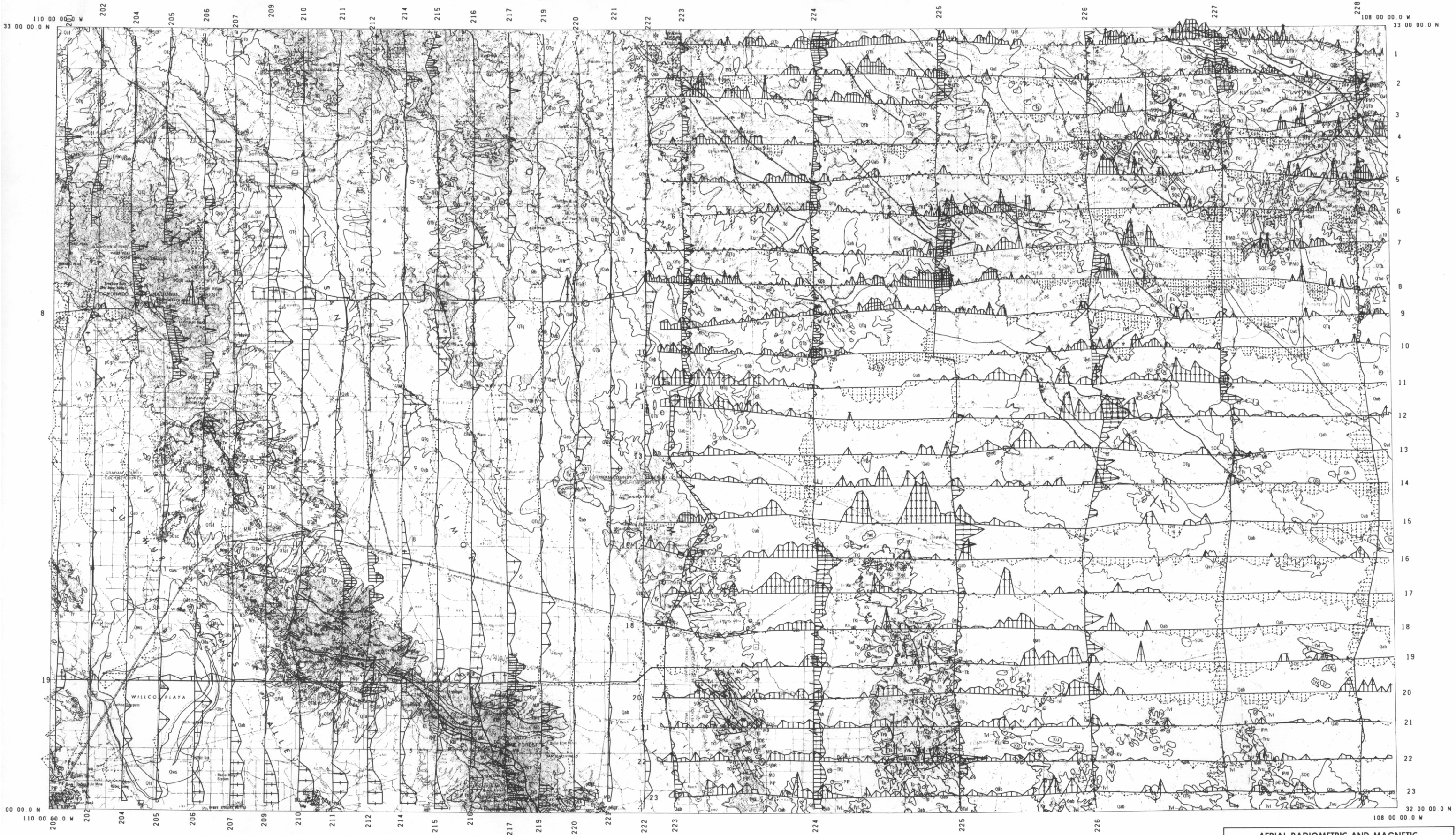
PROFILE MAP POTASSIUM 6.0 S.D./IN. TEXAS INSTRUMENTS



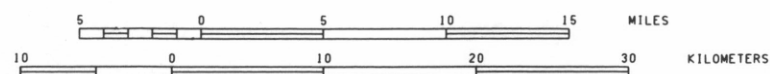
LEGEND: POSITIVE SIGNIFICANCE FACTORS—SOLID LINES
 NEGATIVE SIGNIFICANCE FACTORS—DOTTED LINES

AERIAL RADIOMETRIC AND MAGNETIC RECONNAISSANCE SURVEY
 PREPARED BY
 TEXAS INSTRUMENTS INCORPORATED
 DALLAS, TEXAS
 WORK PERFORMED UNDER
 BENDIX FIELD ENGINEERING CORPORATION
 SUBCONTRACT NO. 78-090-L
 PREPARED FOR
 U.S. DEPARTMENT OF ENERGY

SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



PROFILE MAP TH/K 6.0 S.D./IN TEXAS INSTRUMENTS

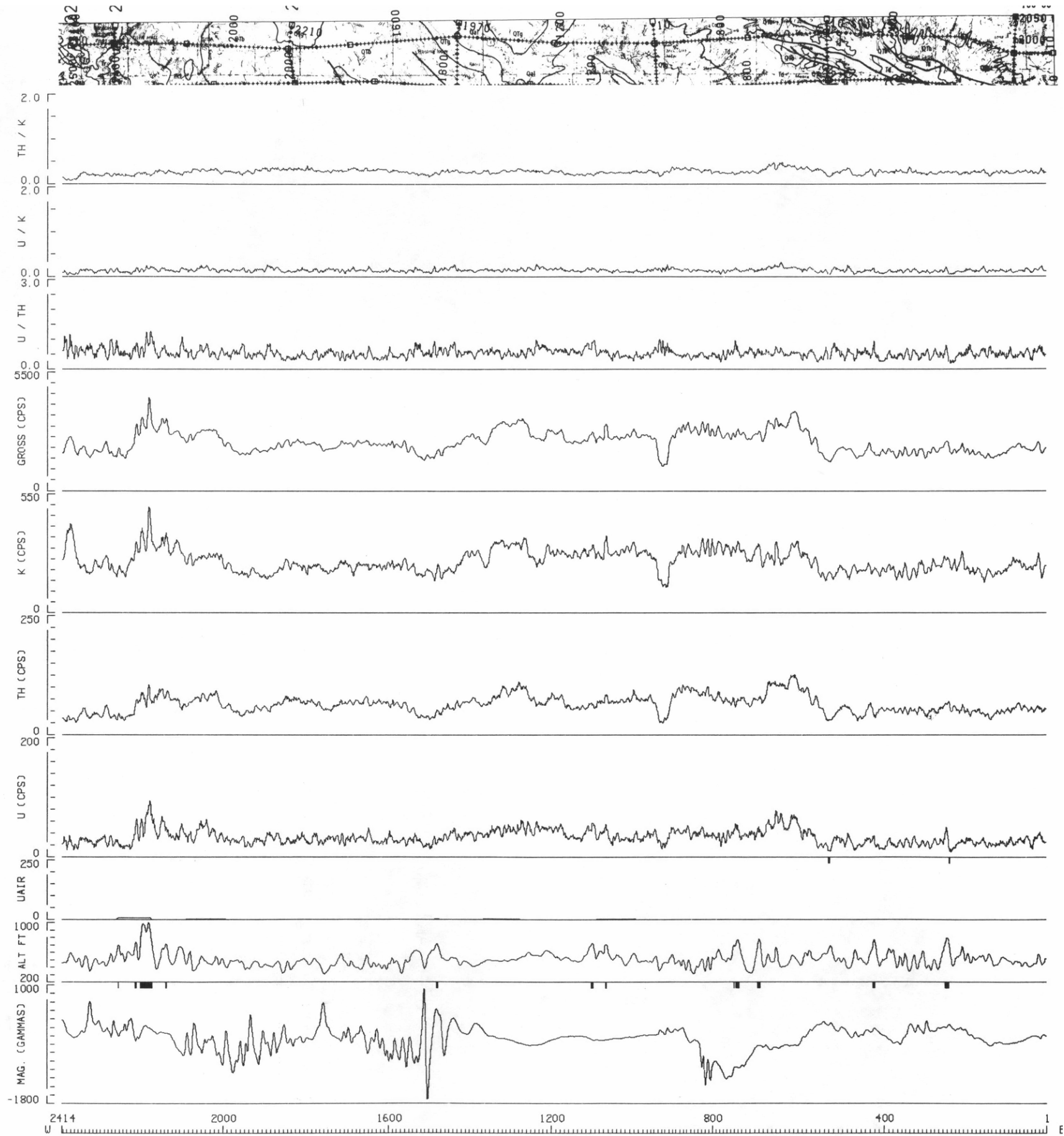


LEGEND: POSITIVE SIGNIFICANCE FACTORS—SOLID LINES
NEGATIVE SIGNIFICANCE FACTORS—DOTTED LINES

AERIAL RADIOMETRIC AND MAGNETIC RECONNAISSANCE SURVEY
 PREPARED BY
 TEXAS INSTRUMENTS INCORPORATED
 DALLAS, TEXAS

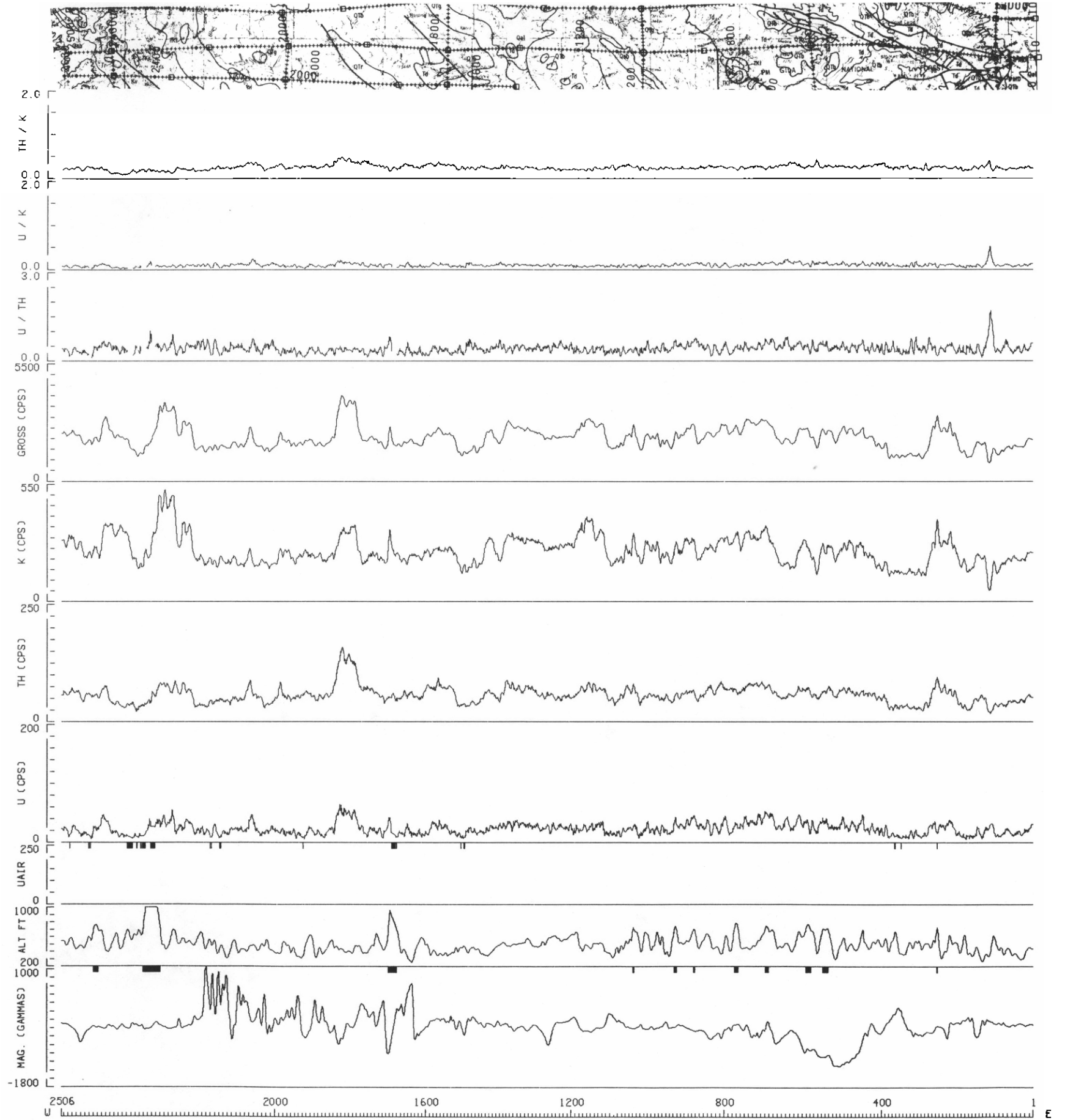
WORK PERFORMED UNDER
 BENDIX FIELD ENGINEERING CORPORATION
 SUBCONTRACT NO. 78-090-L
 PREPARED FOR
 U.S. DEPARTMENT OF ENERGY

UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-001 SILVER CITY NI12-12

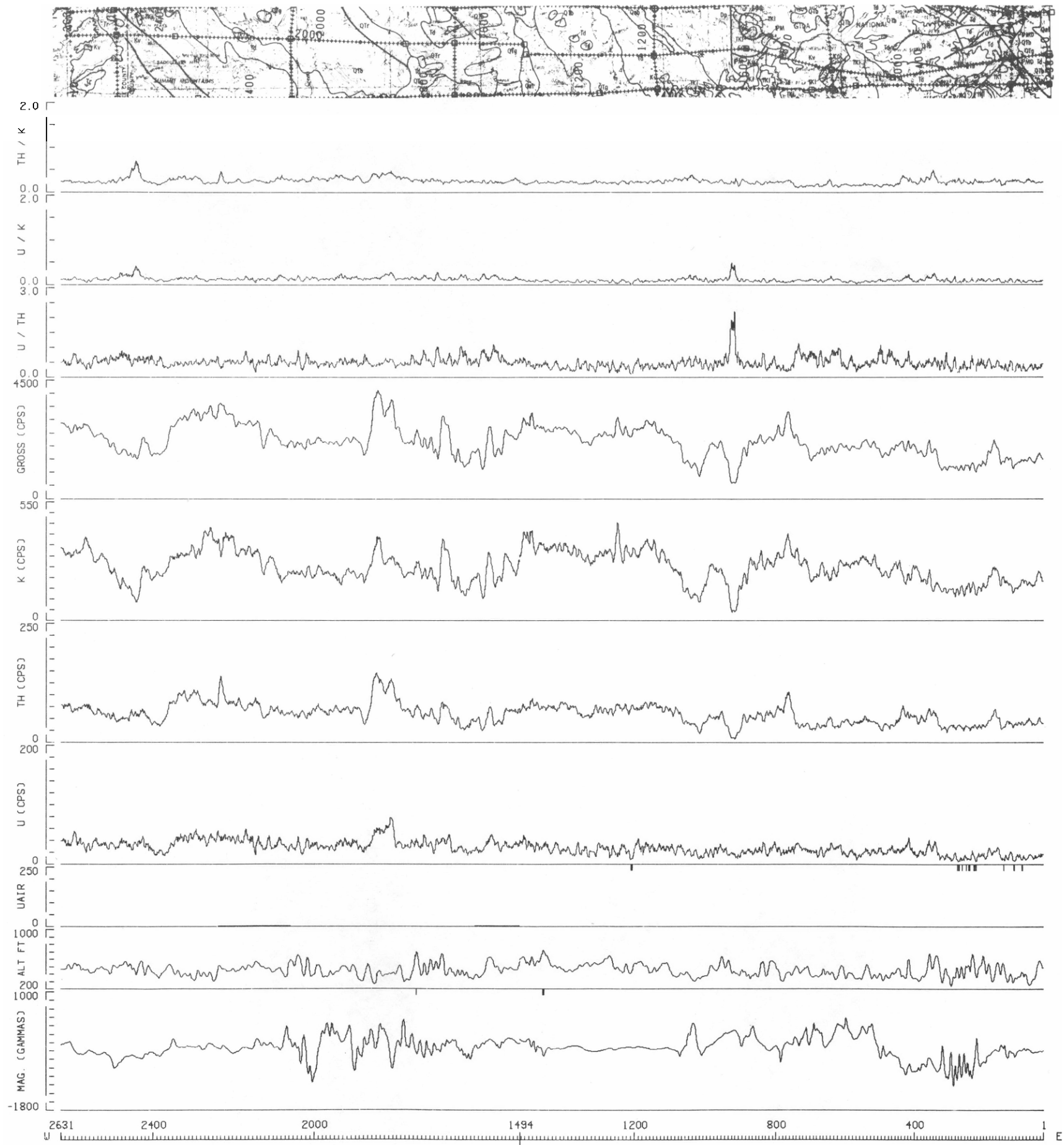


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-002 SILVER CITY NI12-12

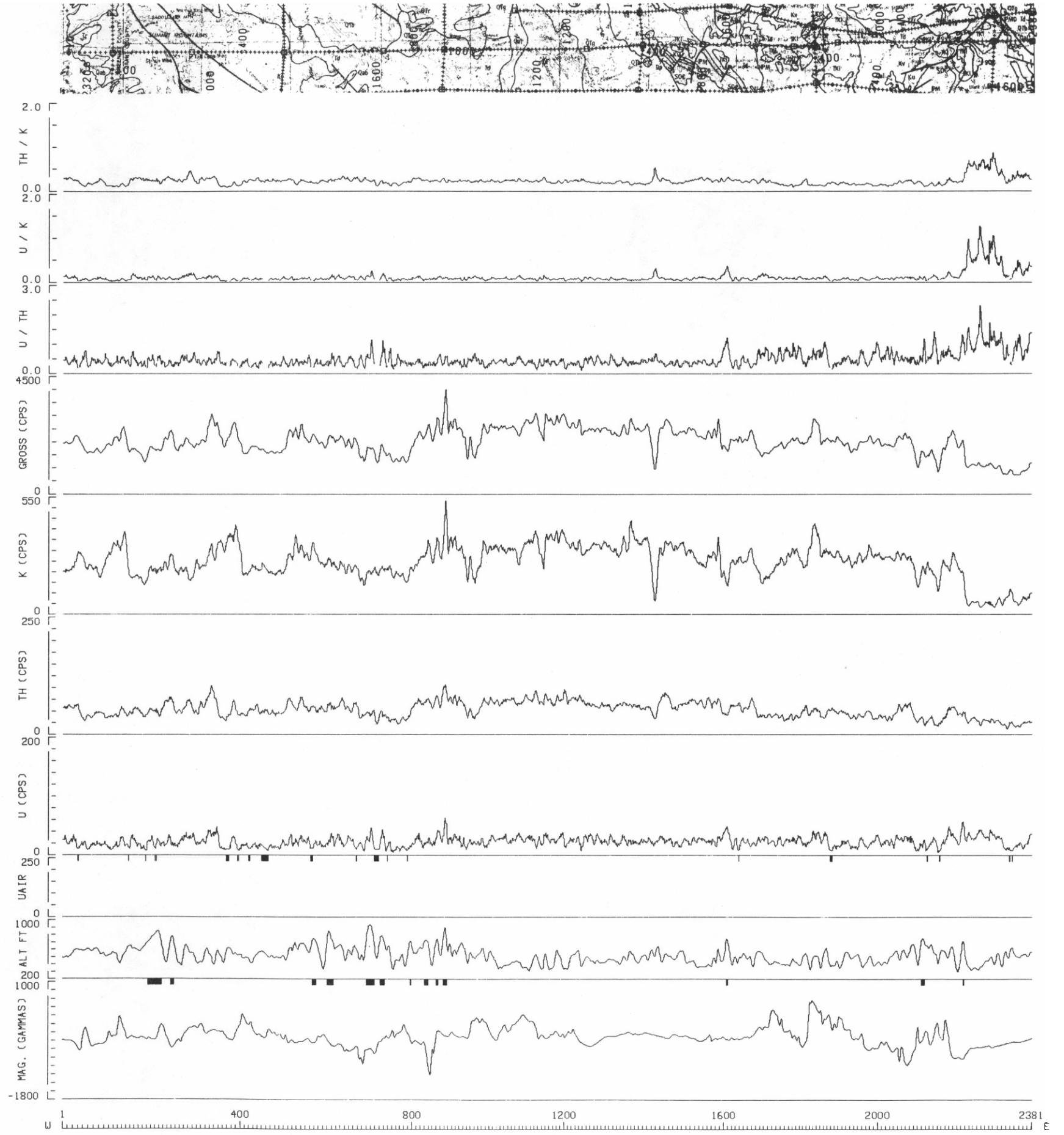
3 MILE(S)



UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-003 SILVER CITY NI12-12

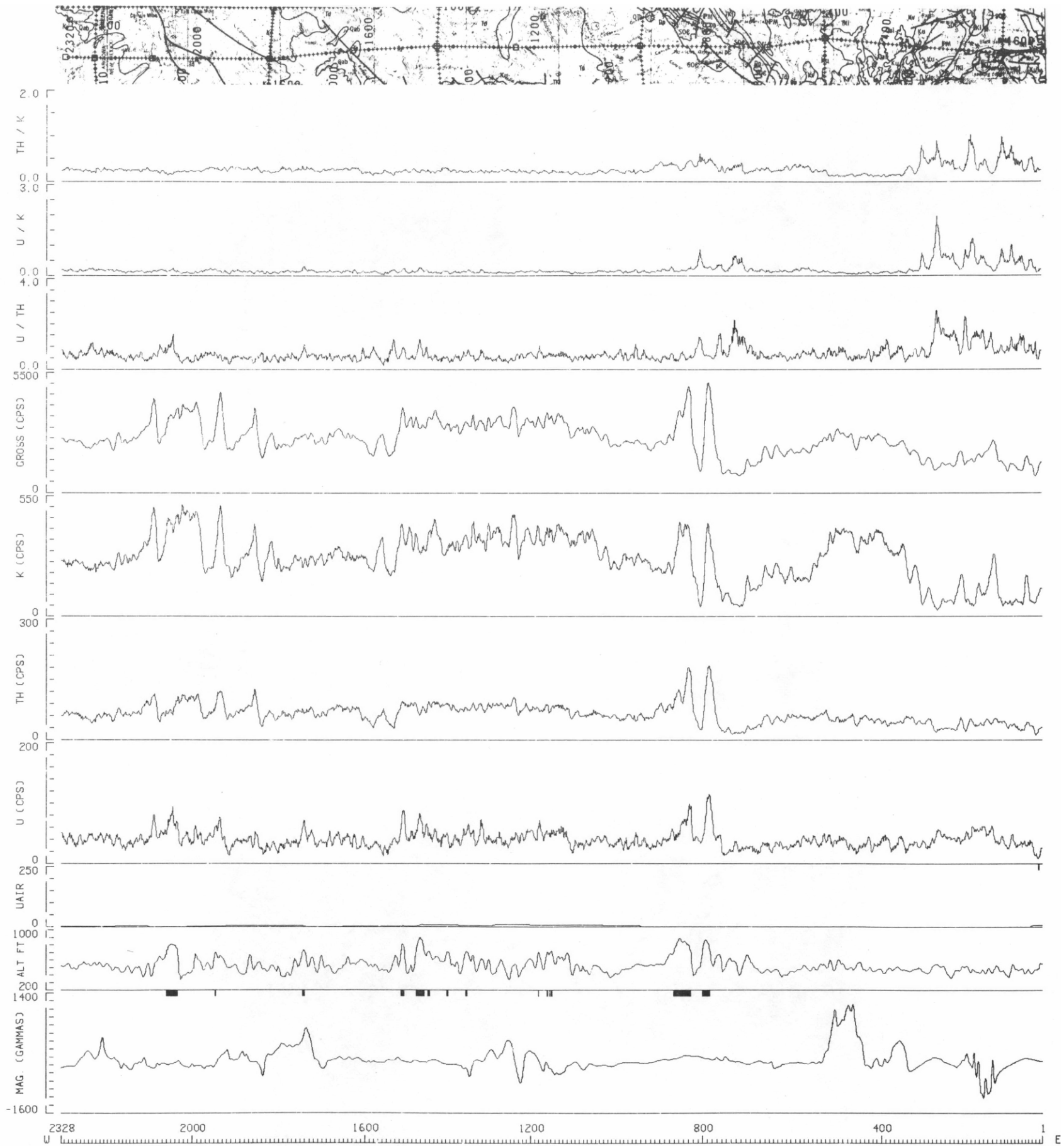


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-004 SILVER CITY NI12-12

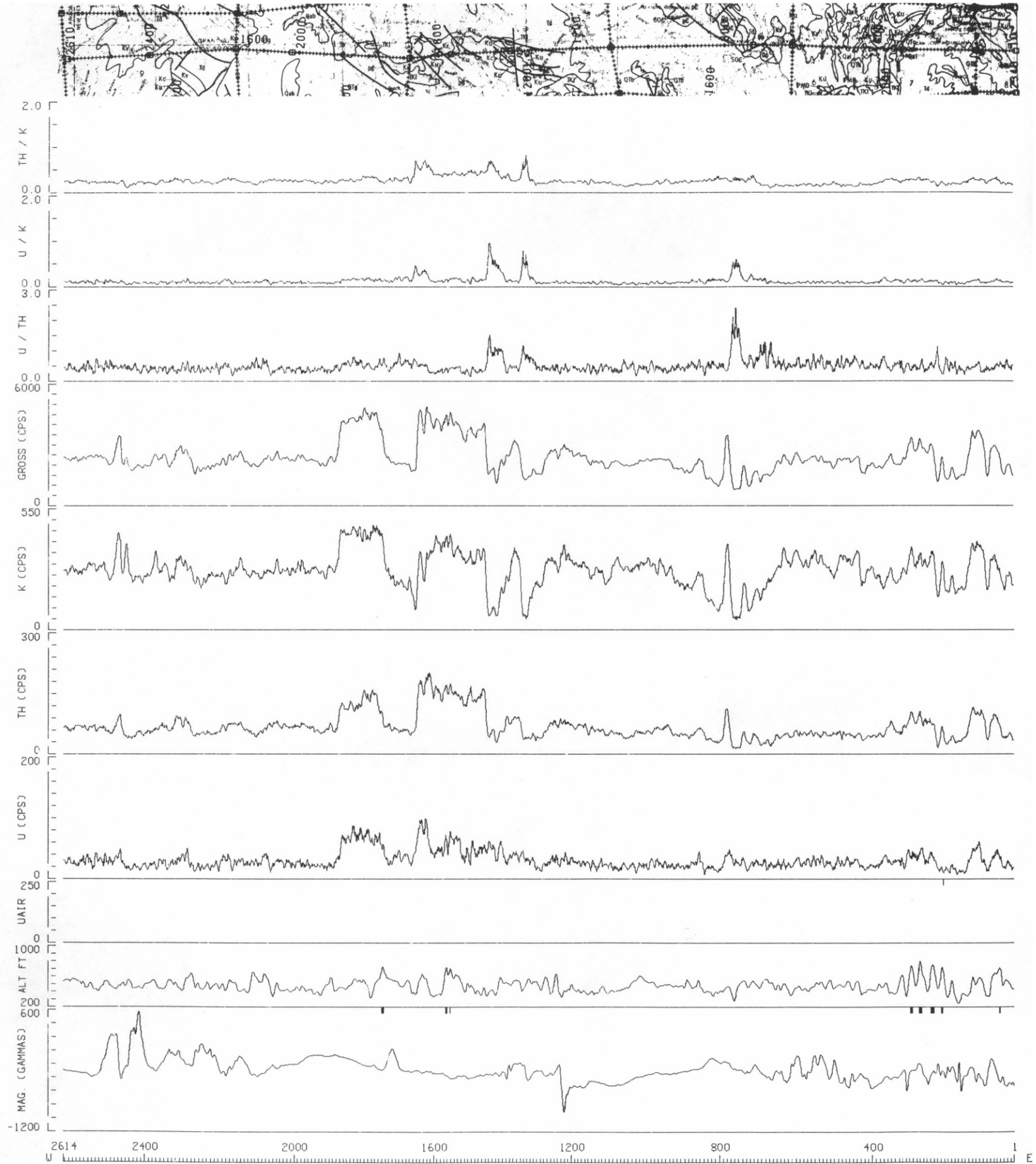


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-005 SILVER CITY NI12-12

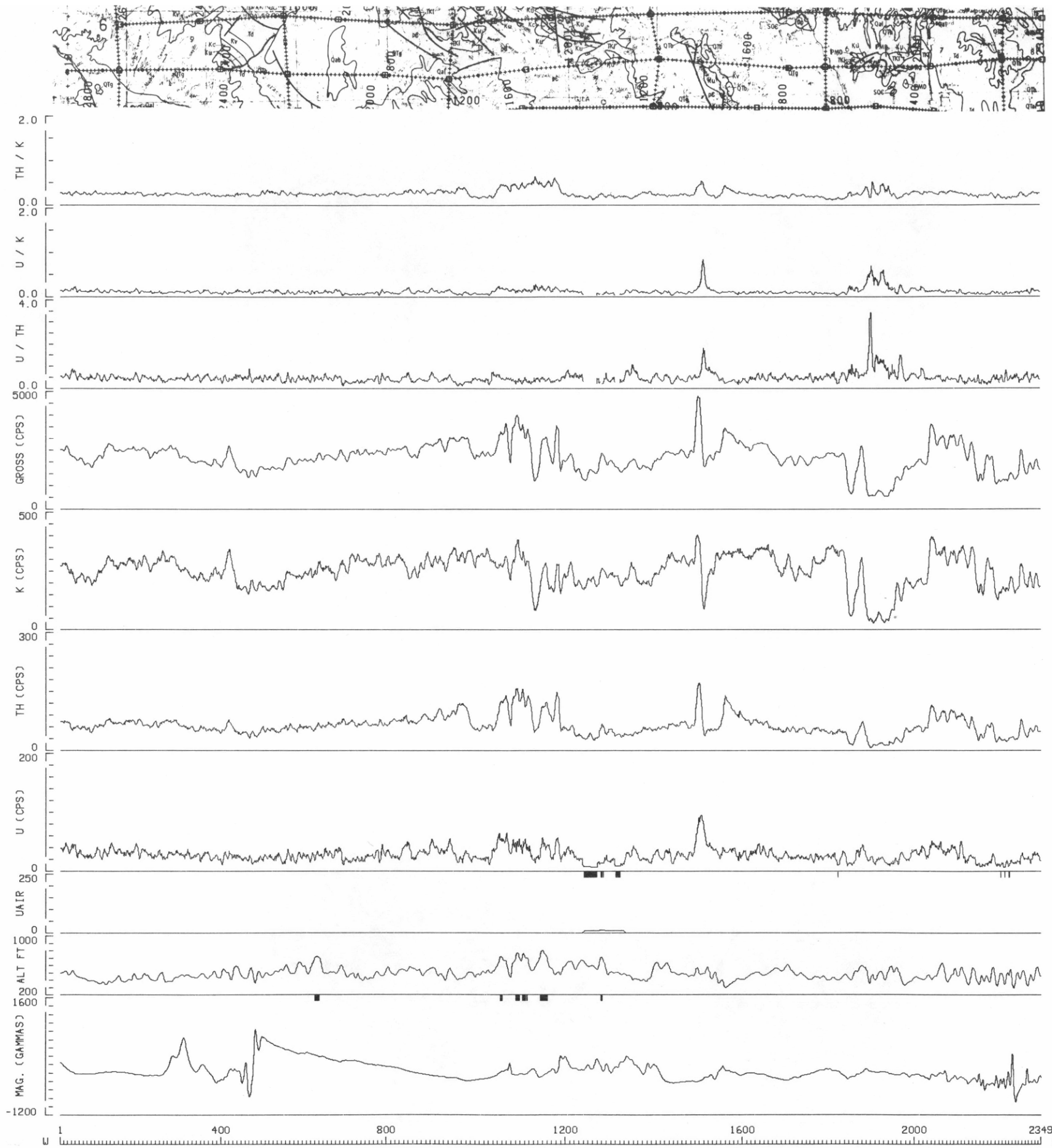
3 MILES

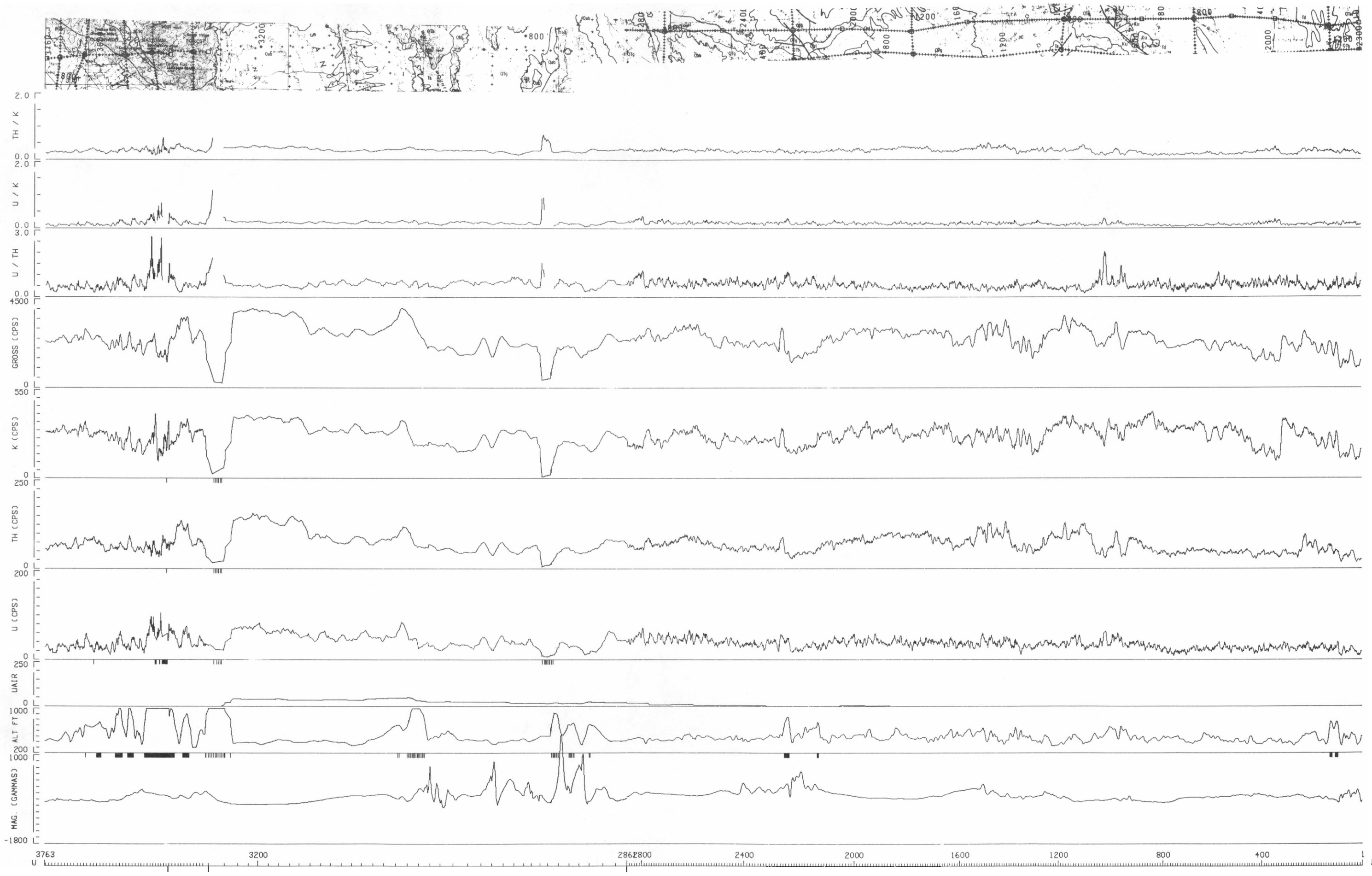


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-006 SILVER CITY NI12-12



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-007 SILVER CITY NI12-12

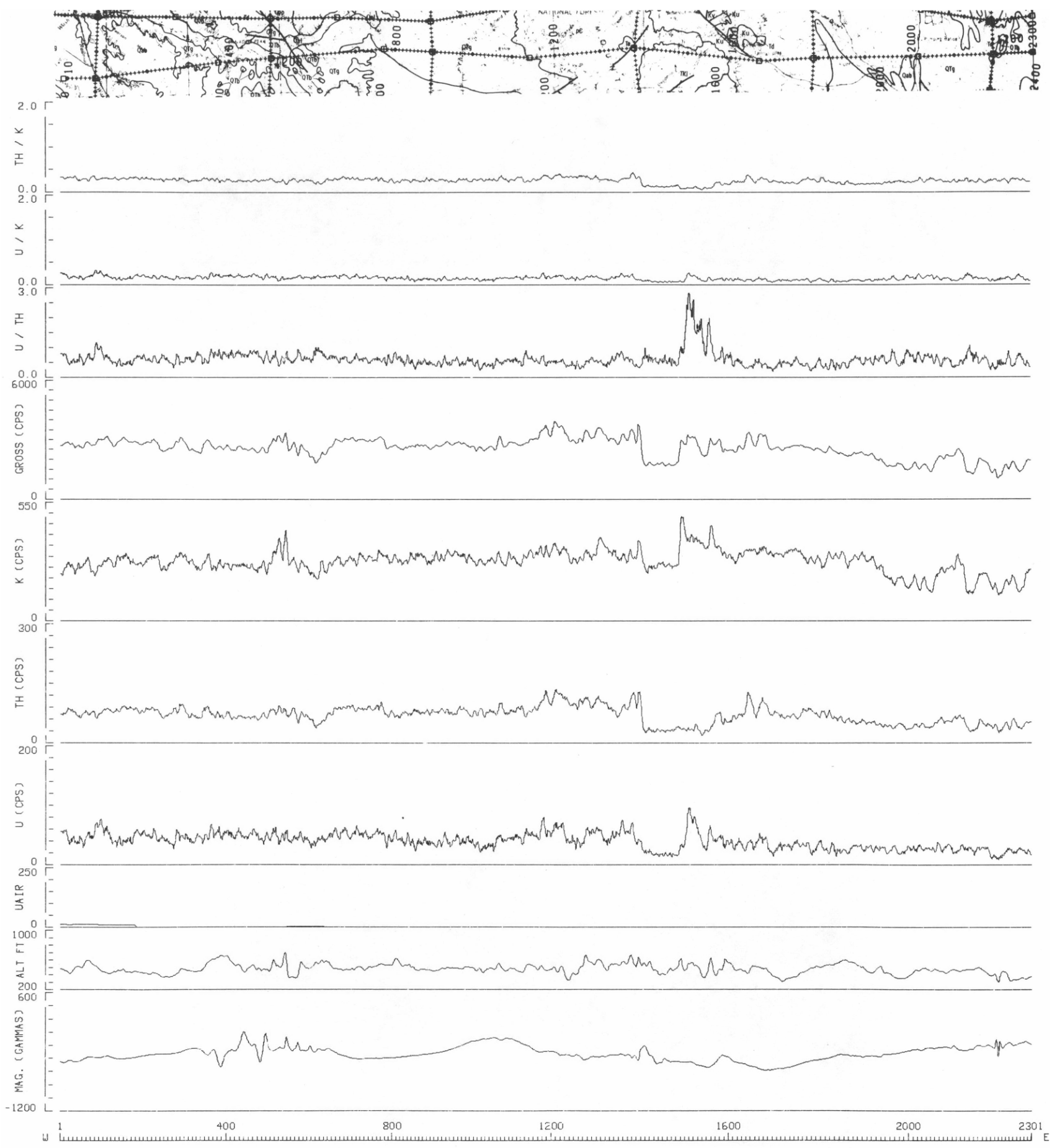




3 MILE(S)

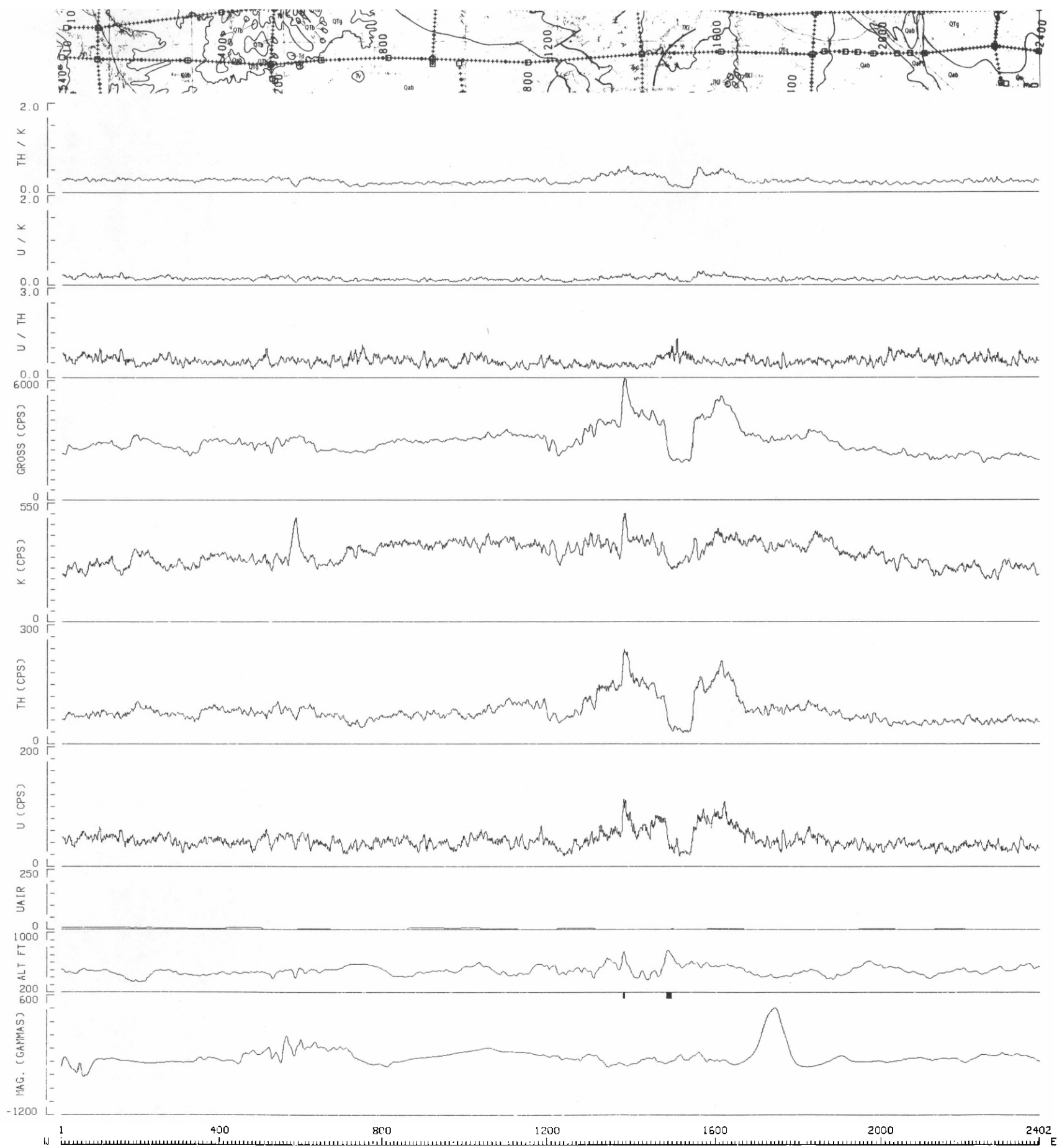
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-009 SILVER CITY NI12-12

3 MILE(S)



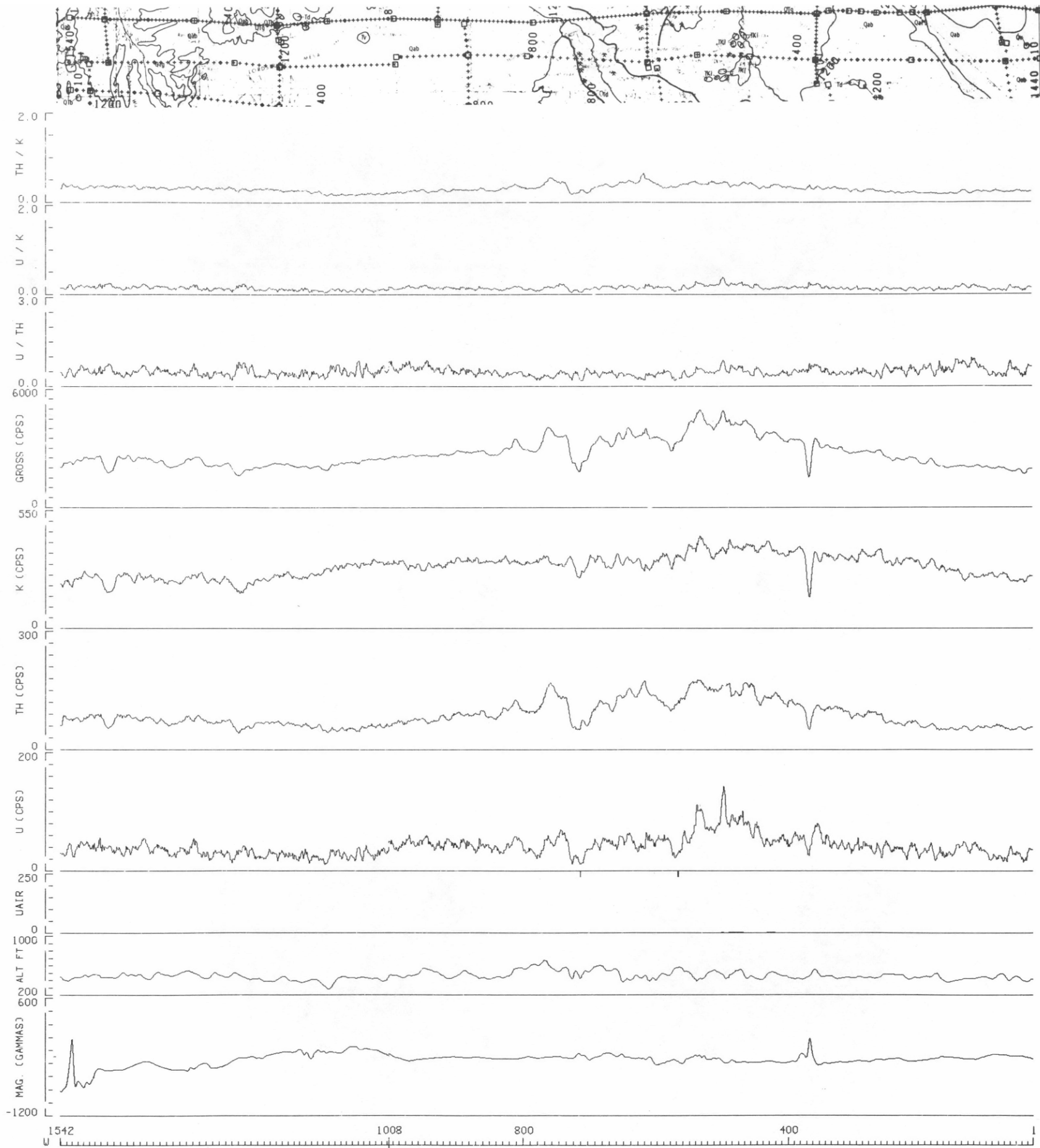
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
 FL-010 SILVER CITY NI12-12

3 MILE(S)



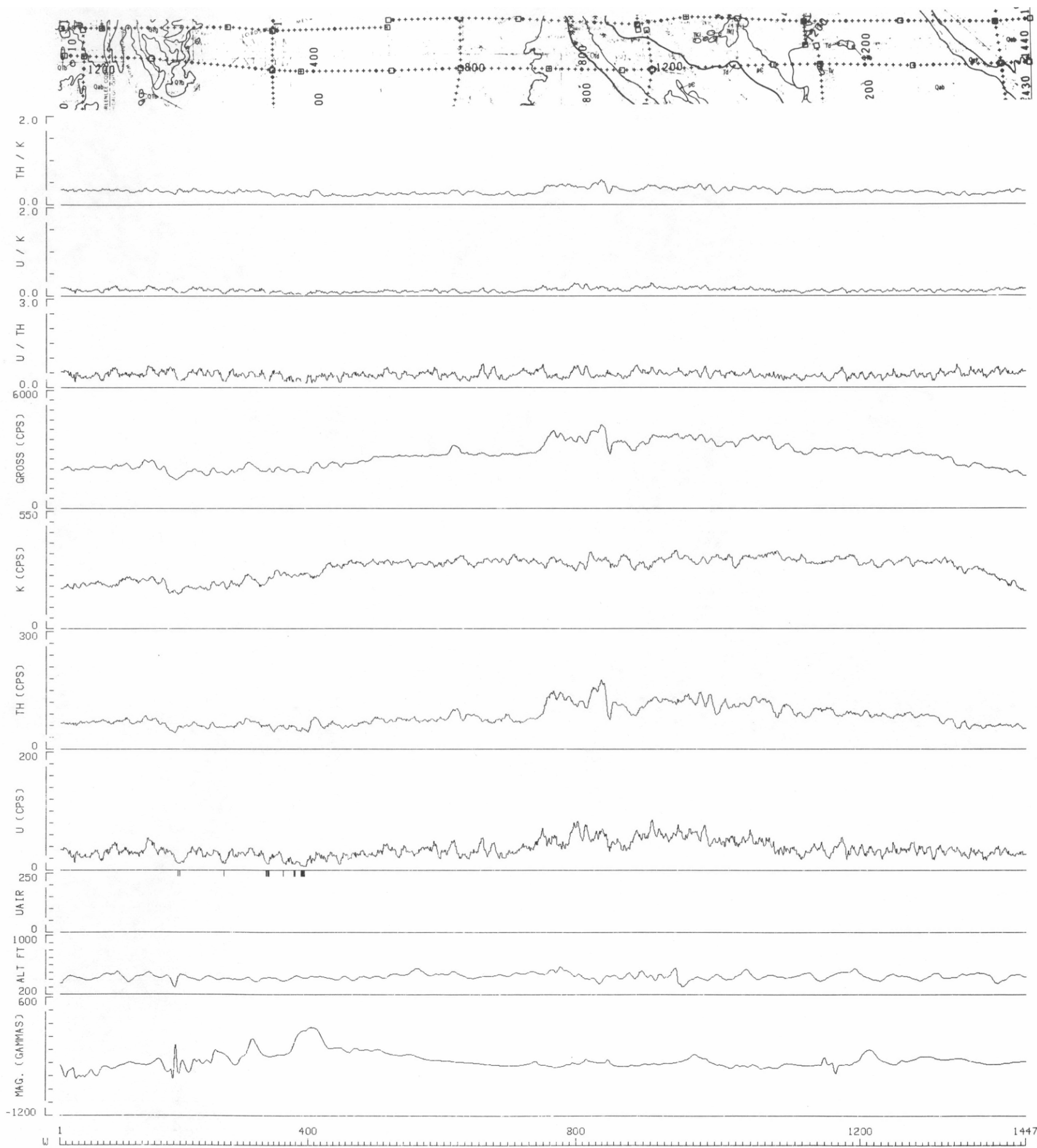
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-011 SILVER CITY NI12-12

3 MILES

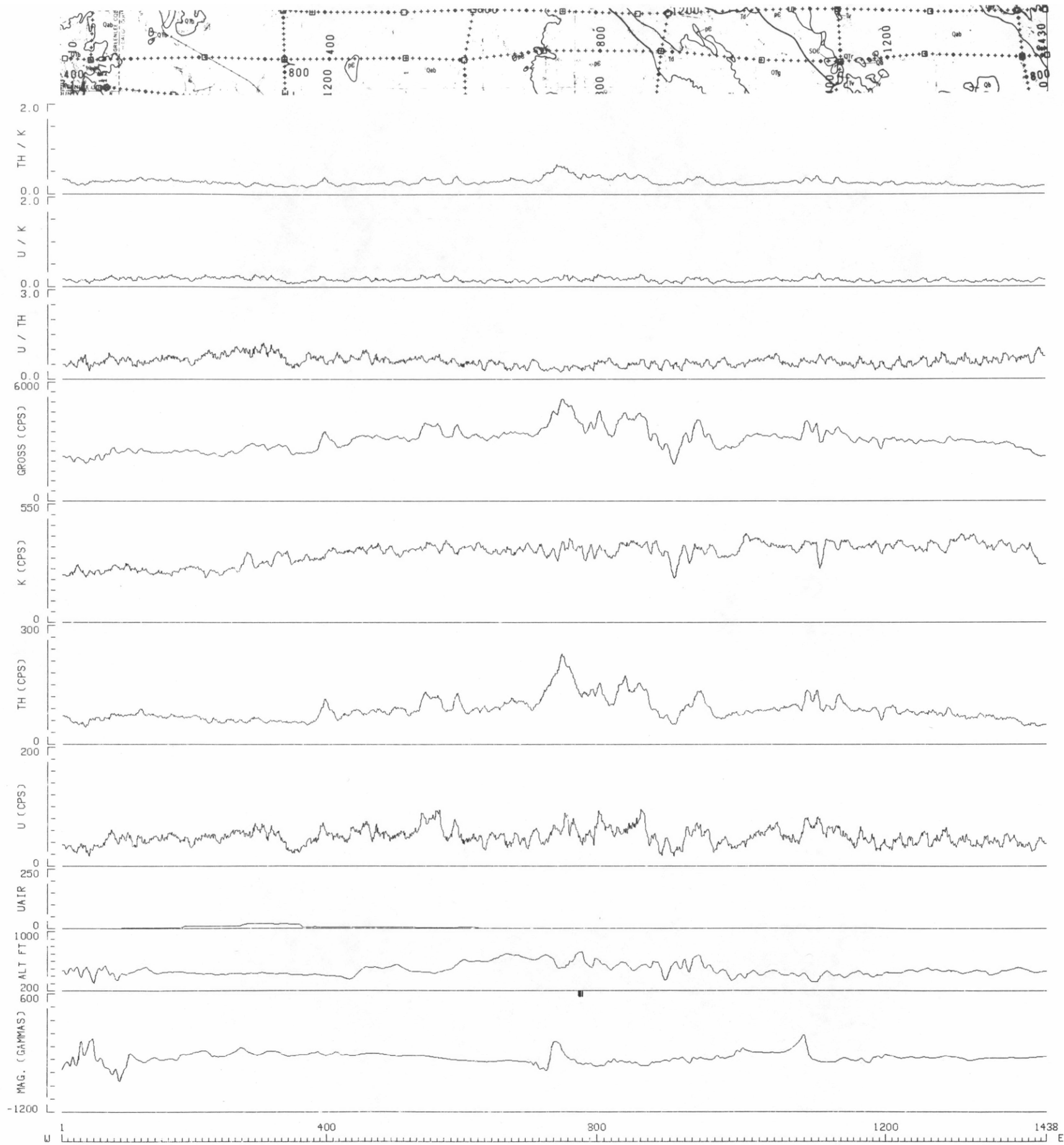


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-012 SILVER CITY NI12-12

3 MILE(S)

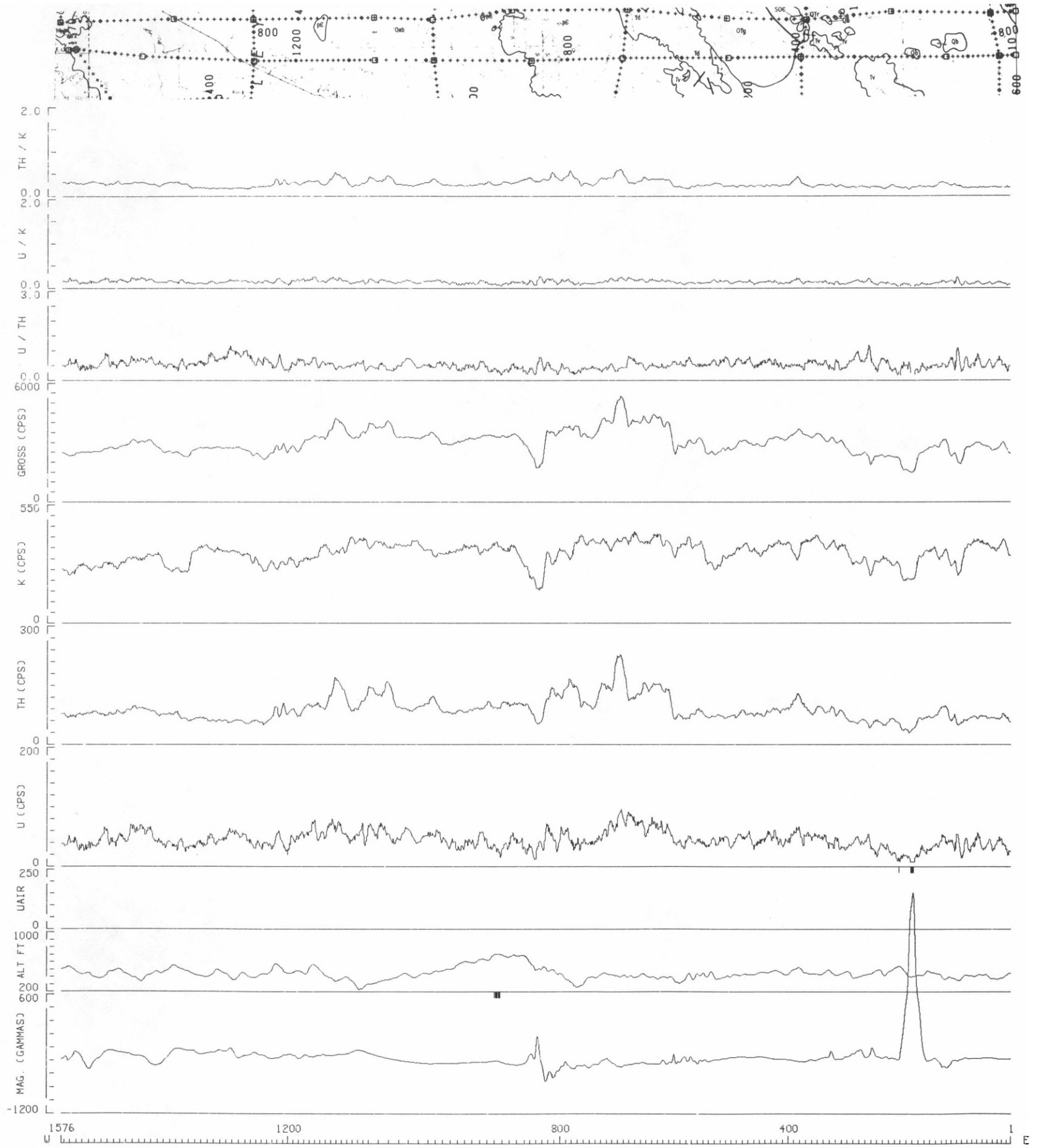


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-013 SILVER CITY NI12-12



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-014 SILVER CITY NI12-12

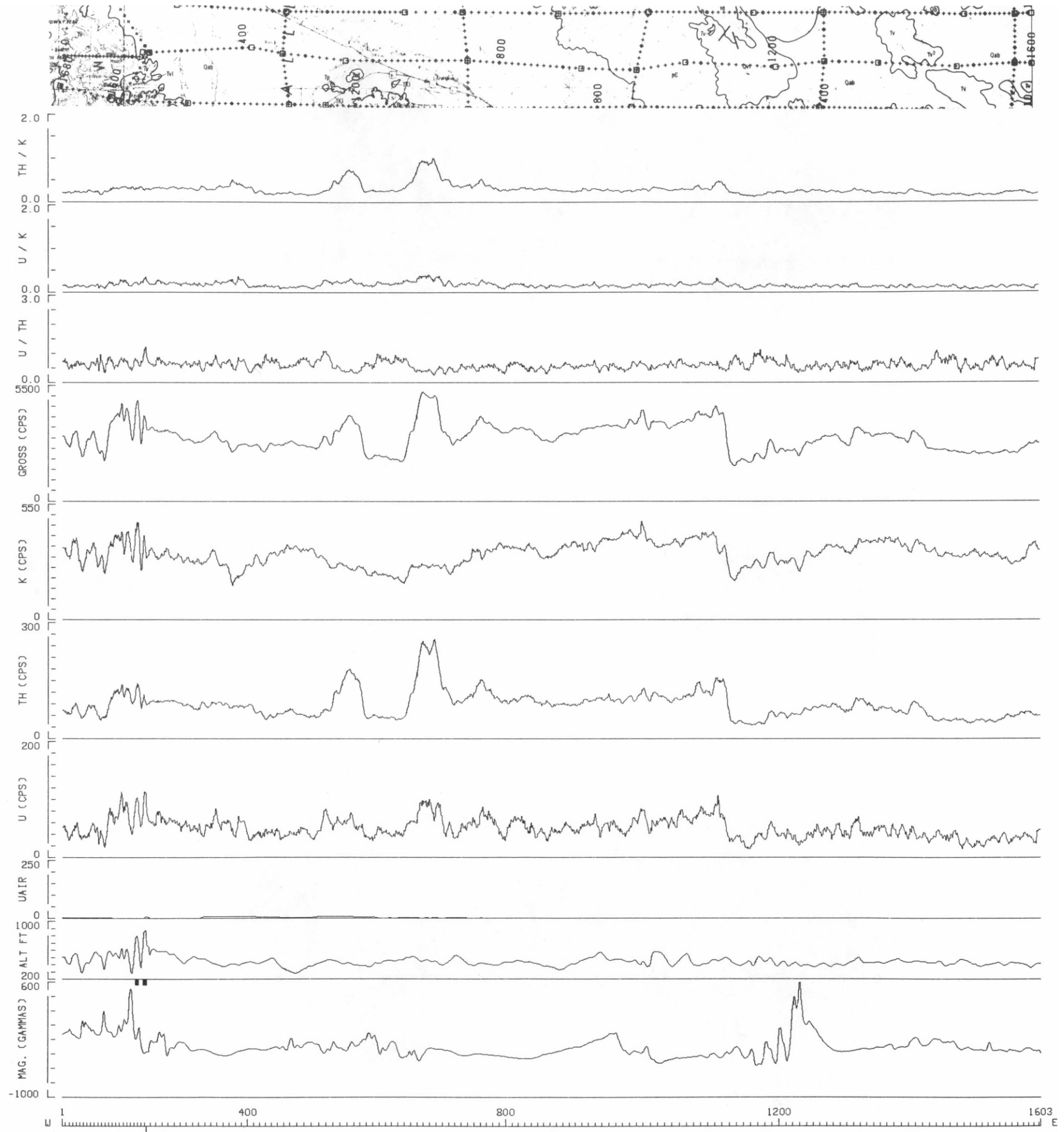
3 MILE(S)



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS

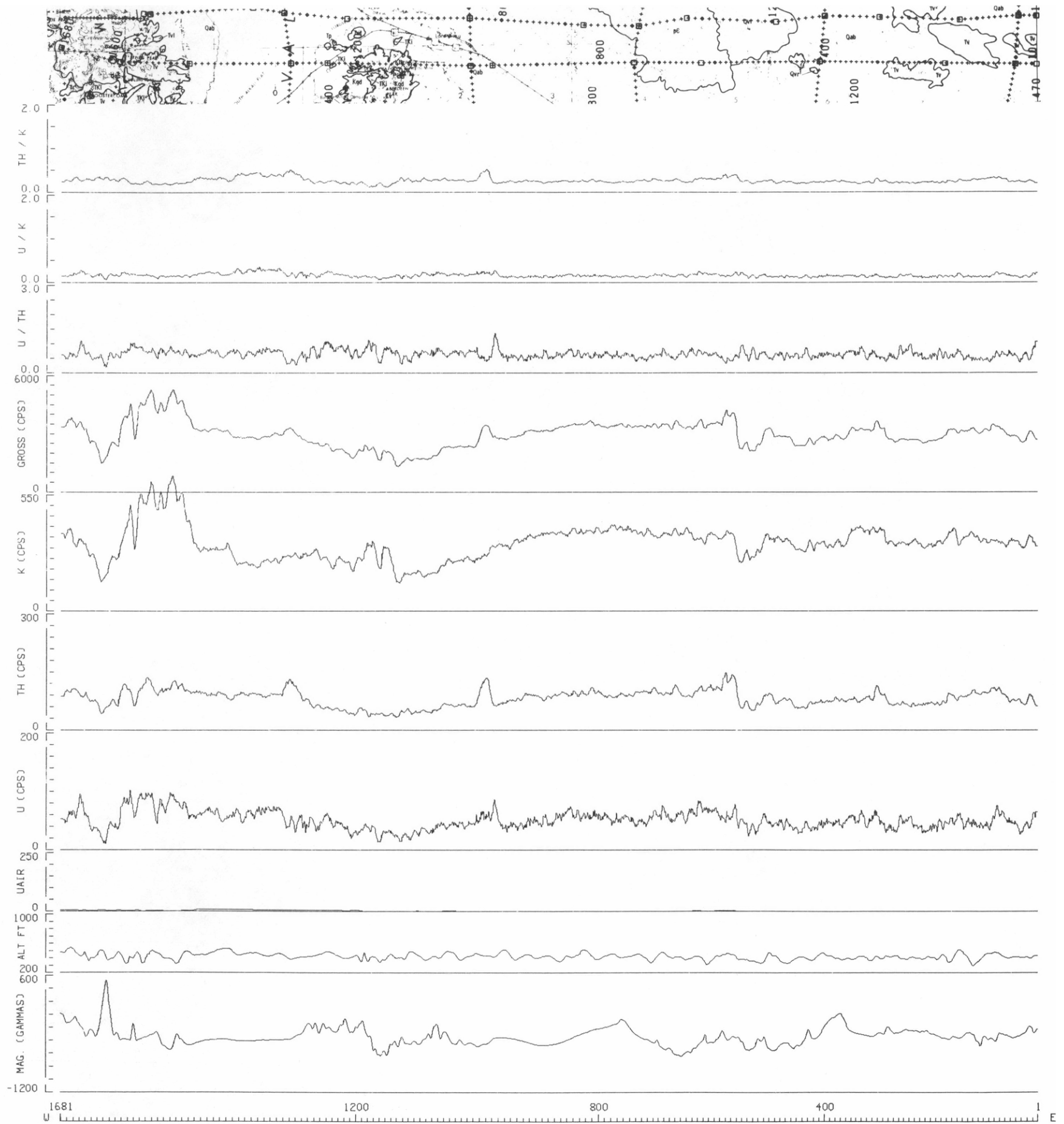
FL-015 SILVER CITY NI12-12

3 MILES



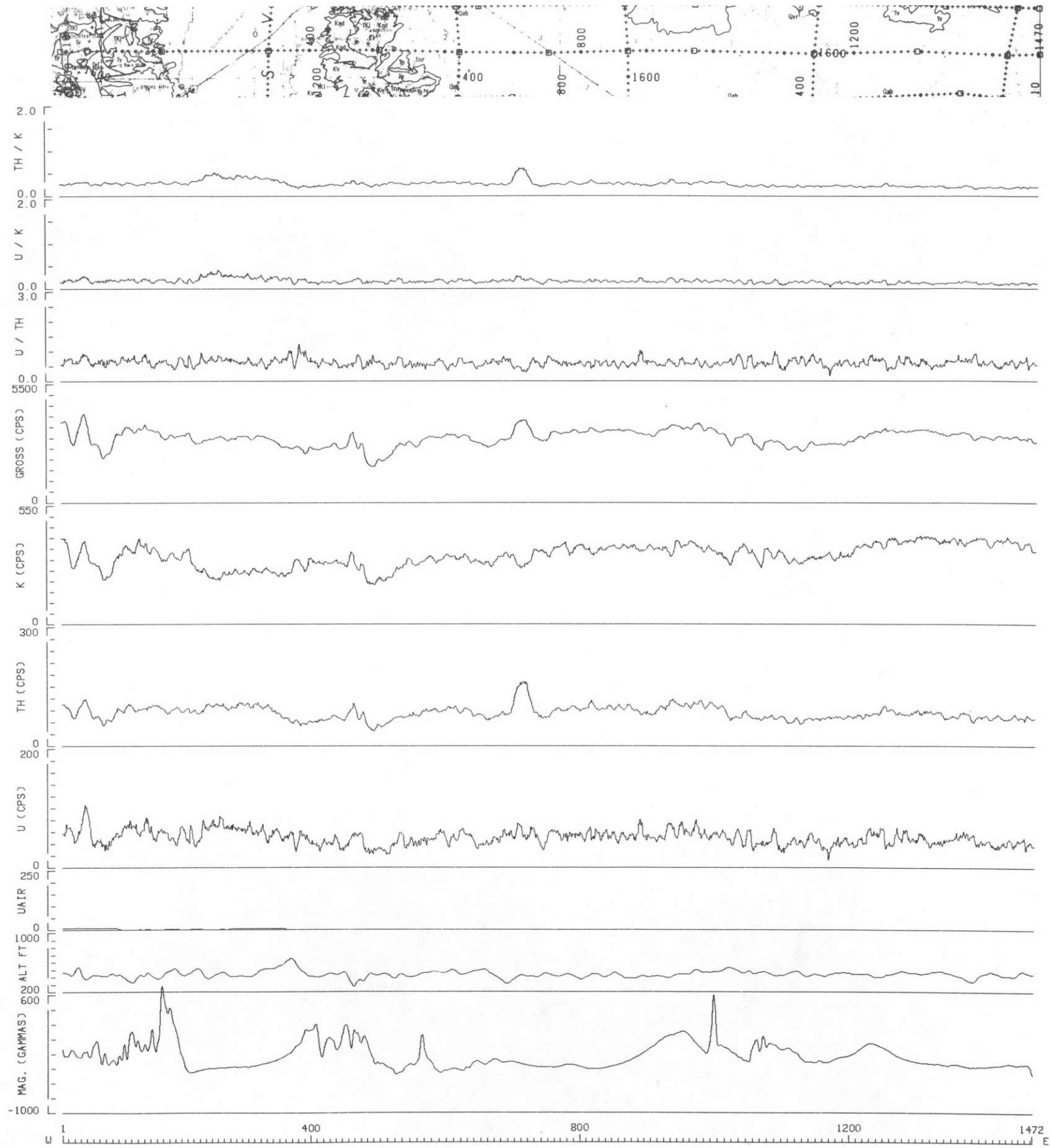
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-016 SILVER CITY NI12-12

3 MILE(S)



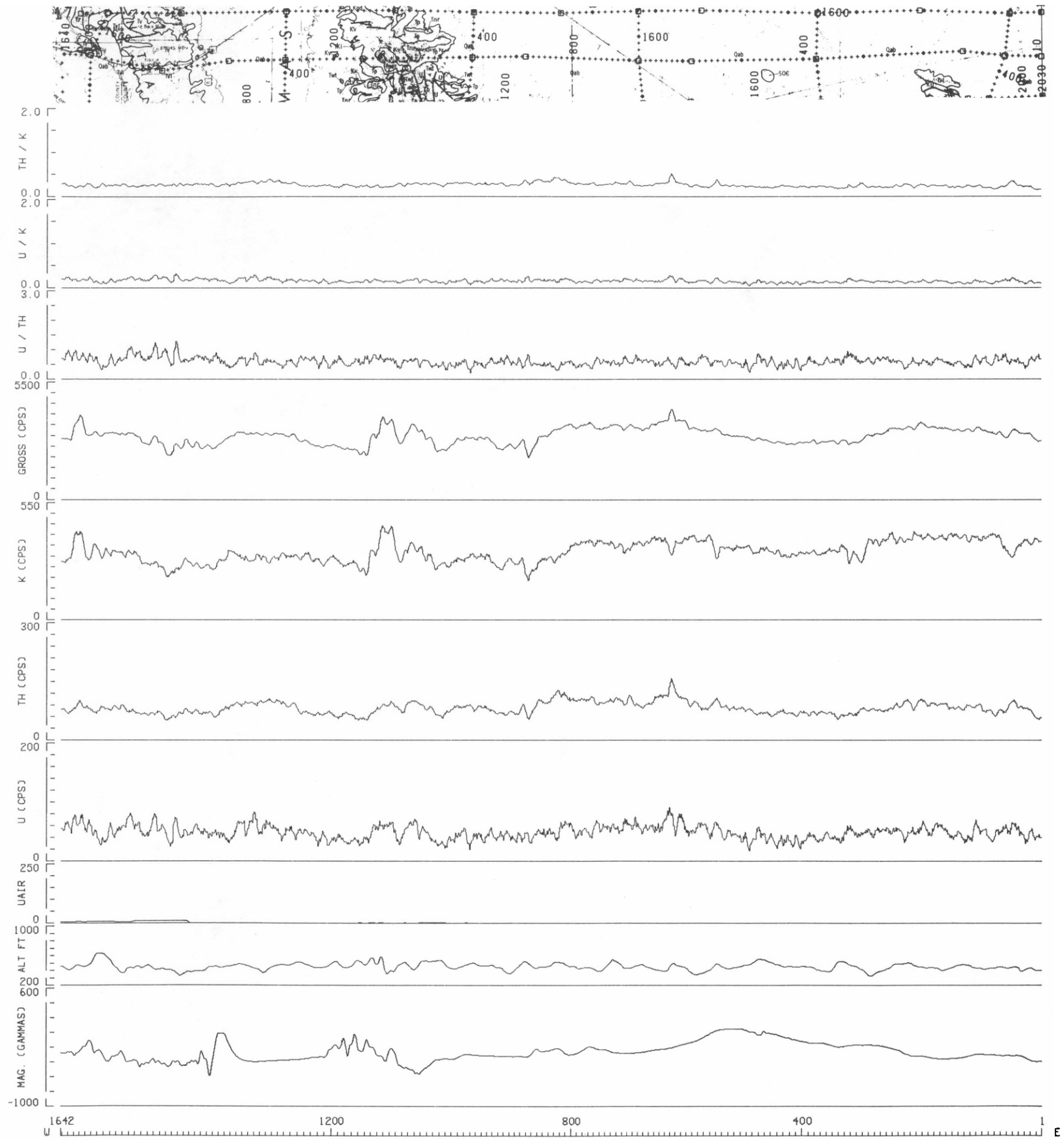
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-017 SILVER CITY NI12-12

3 MILES

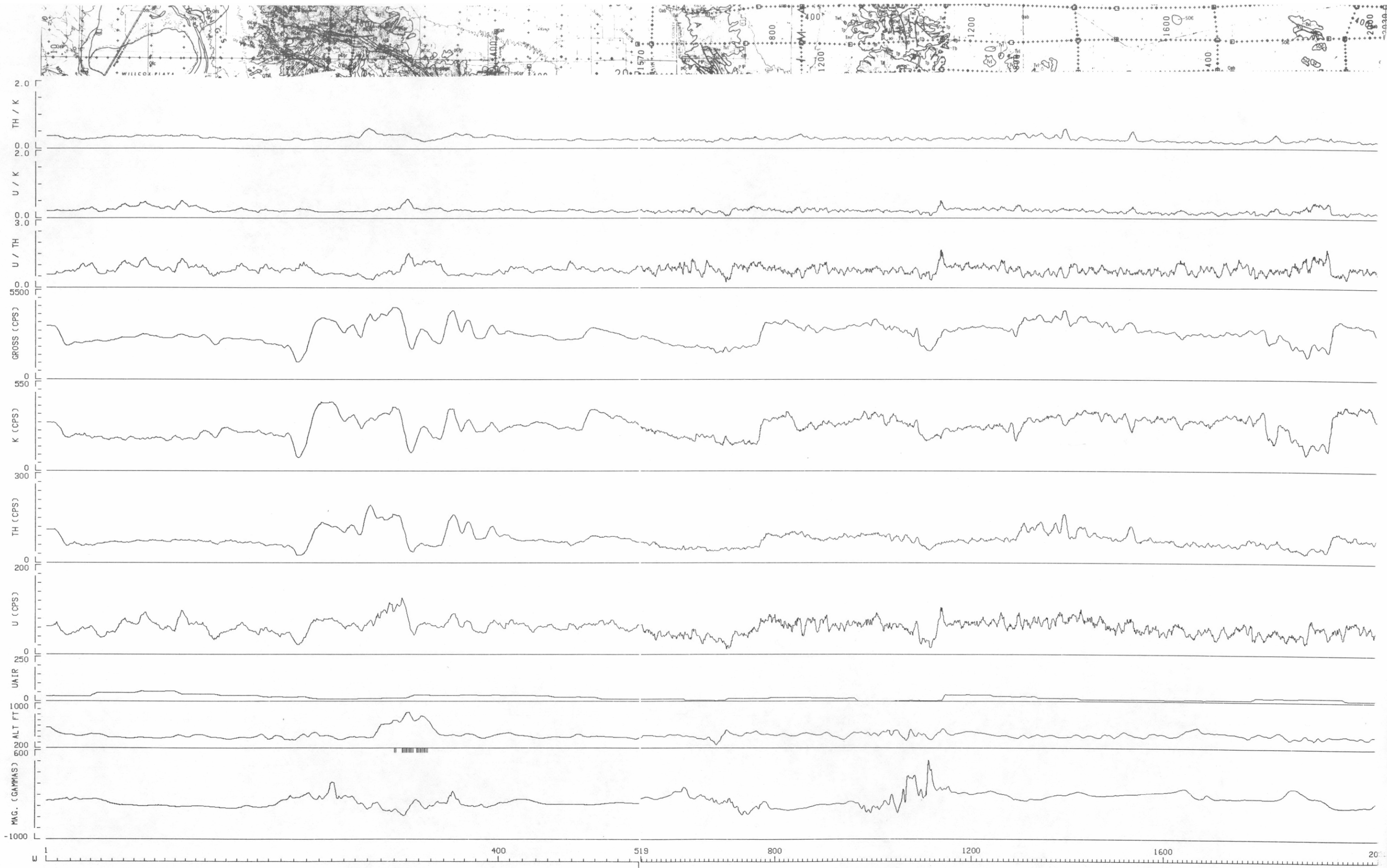


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-018 SILVER CITY NI12-12

3 MILE(S)



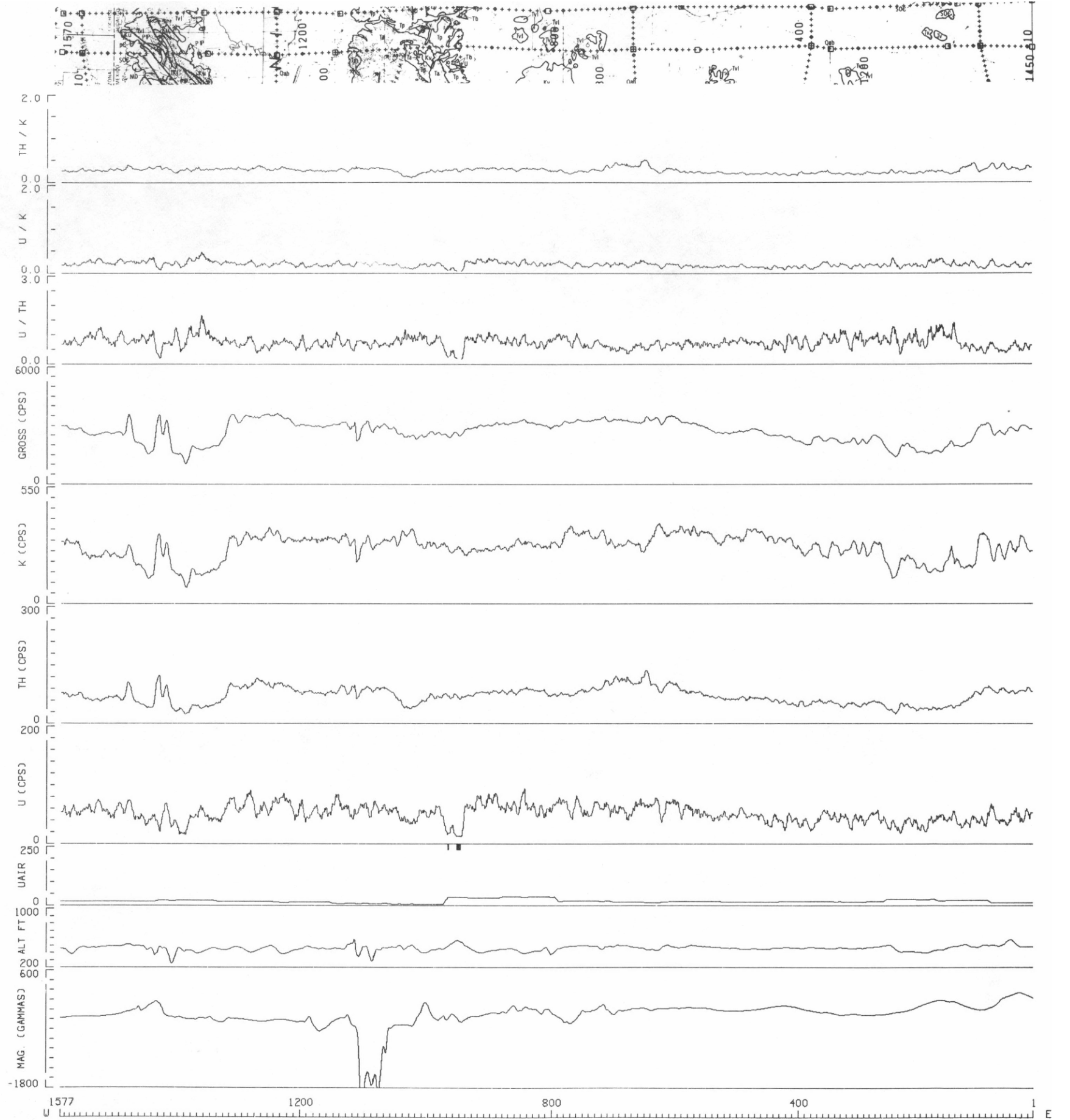
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-019 SILVER CITY NI12-12



3 MILES

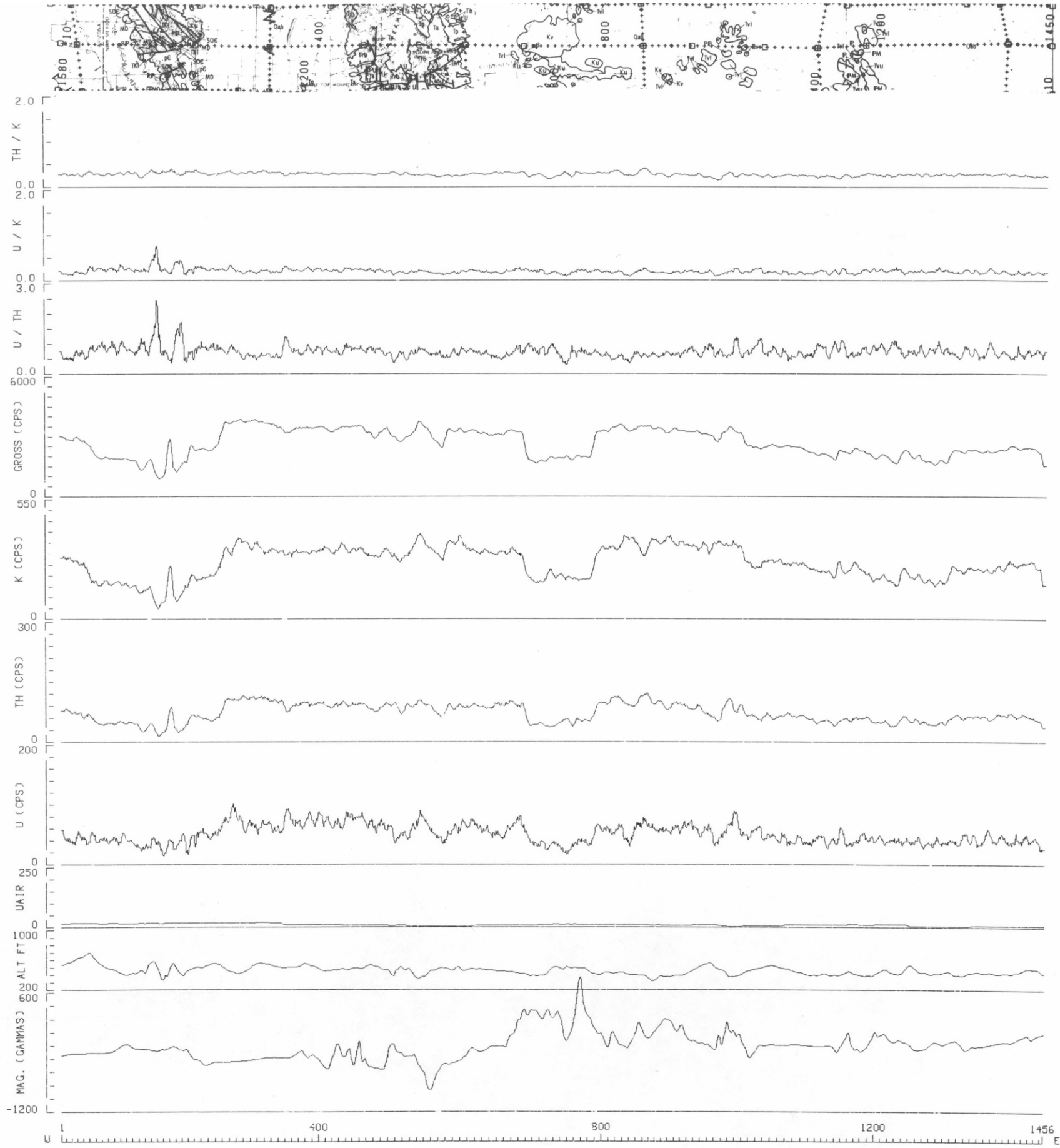
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-020 SILVER CITY NI12-12

3 MILE(S)



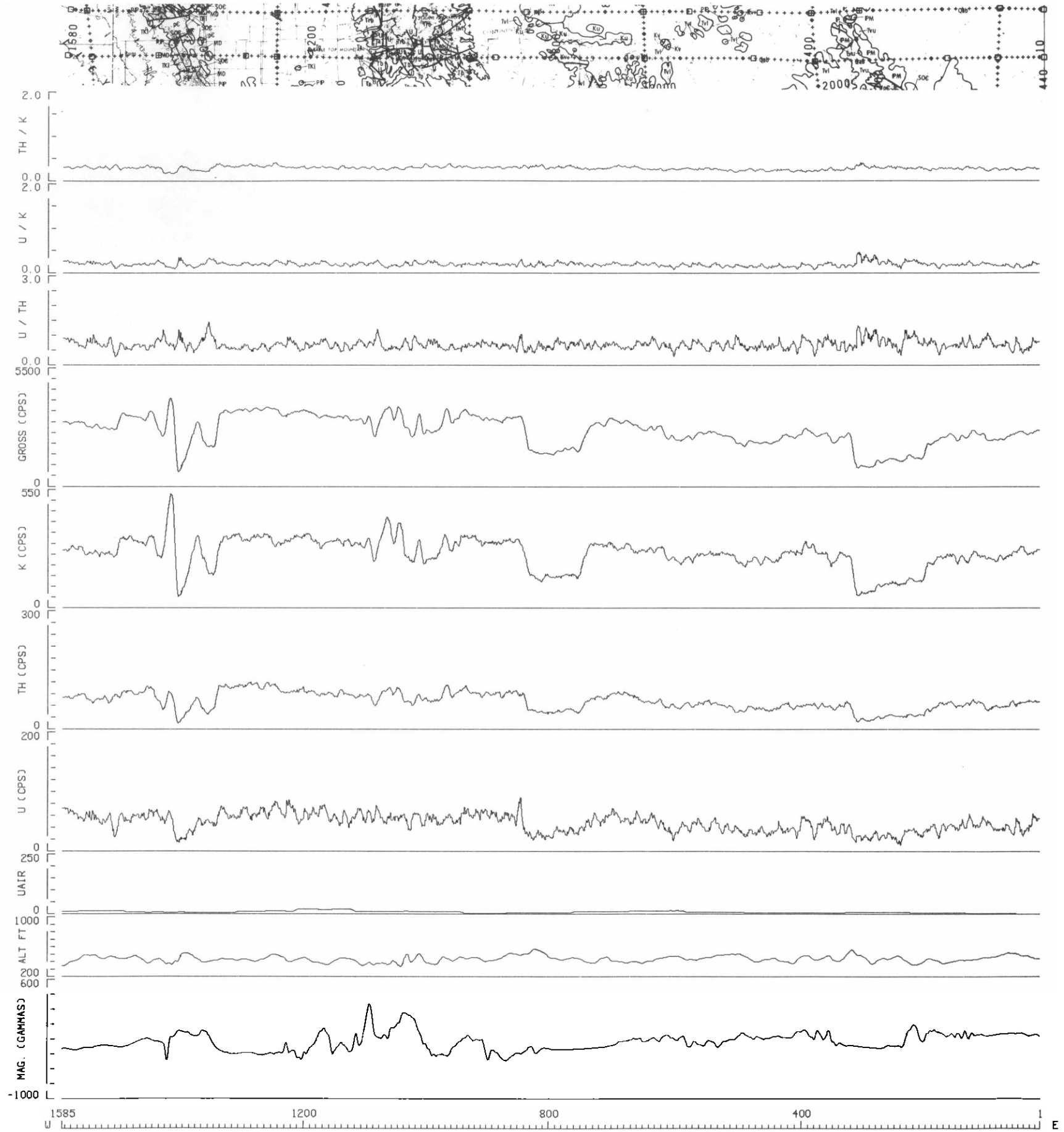
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-021 SILVER CITY NI12-12

3 MILE(S)



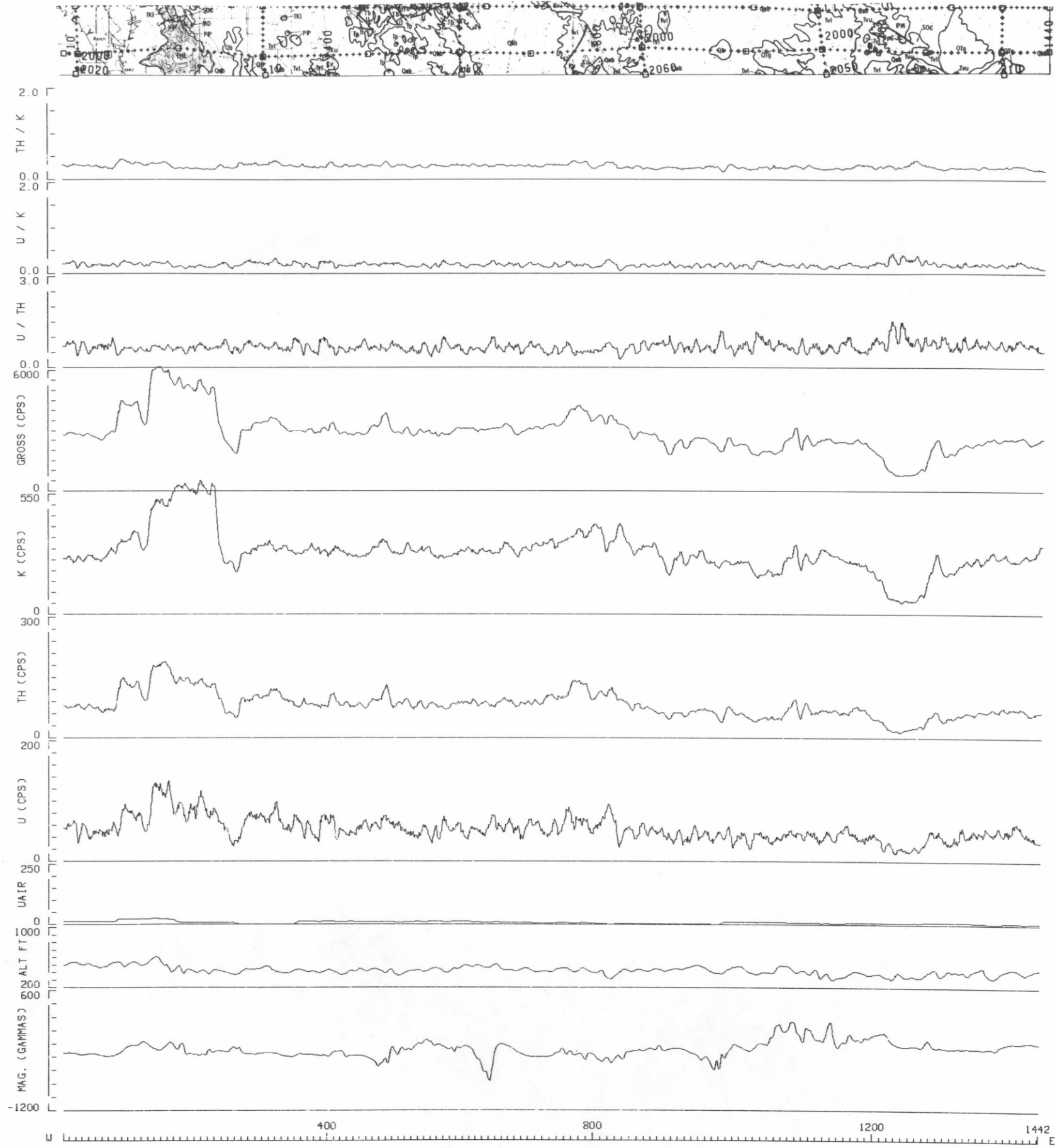
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-022 SILVER CITY NI12-12

3 MILES



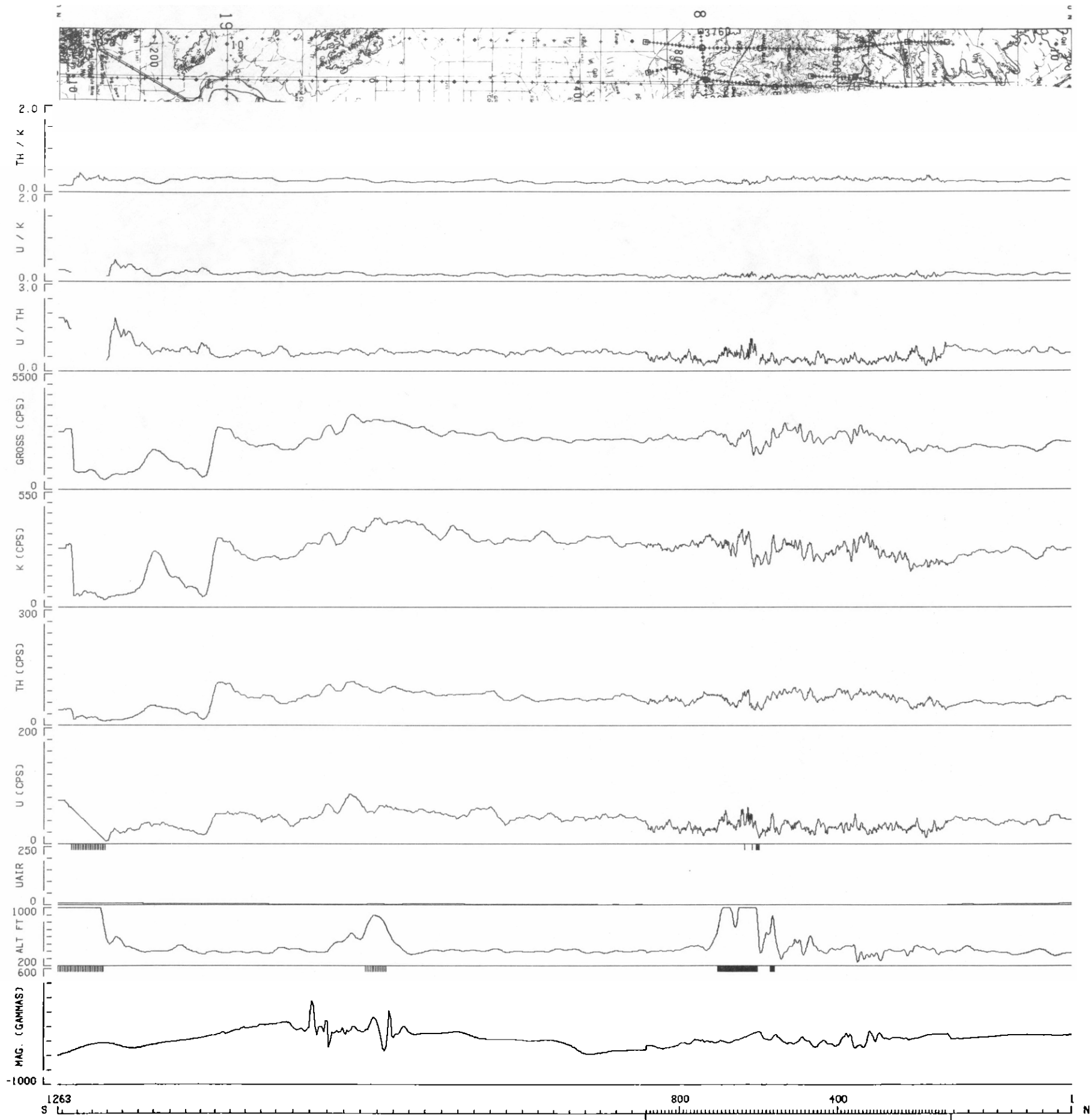
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-023 SILVER CITY NI12-12

3 MILE(S)

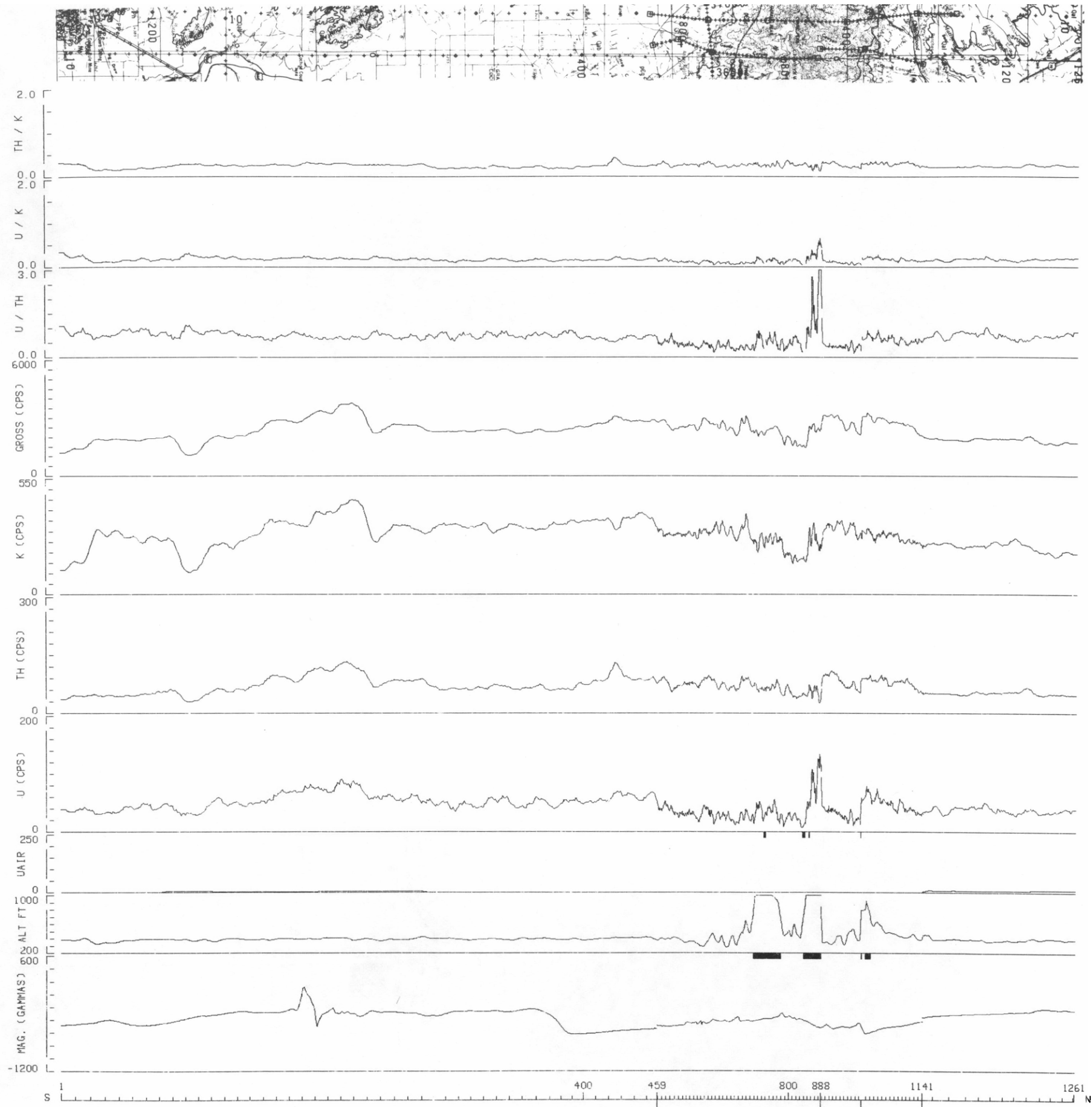


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-201 SILVER CITY NI12-12

3 MILE(S)



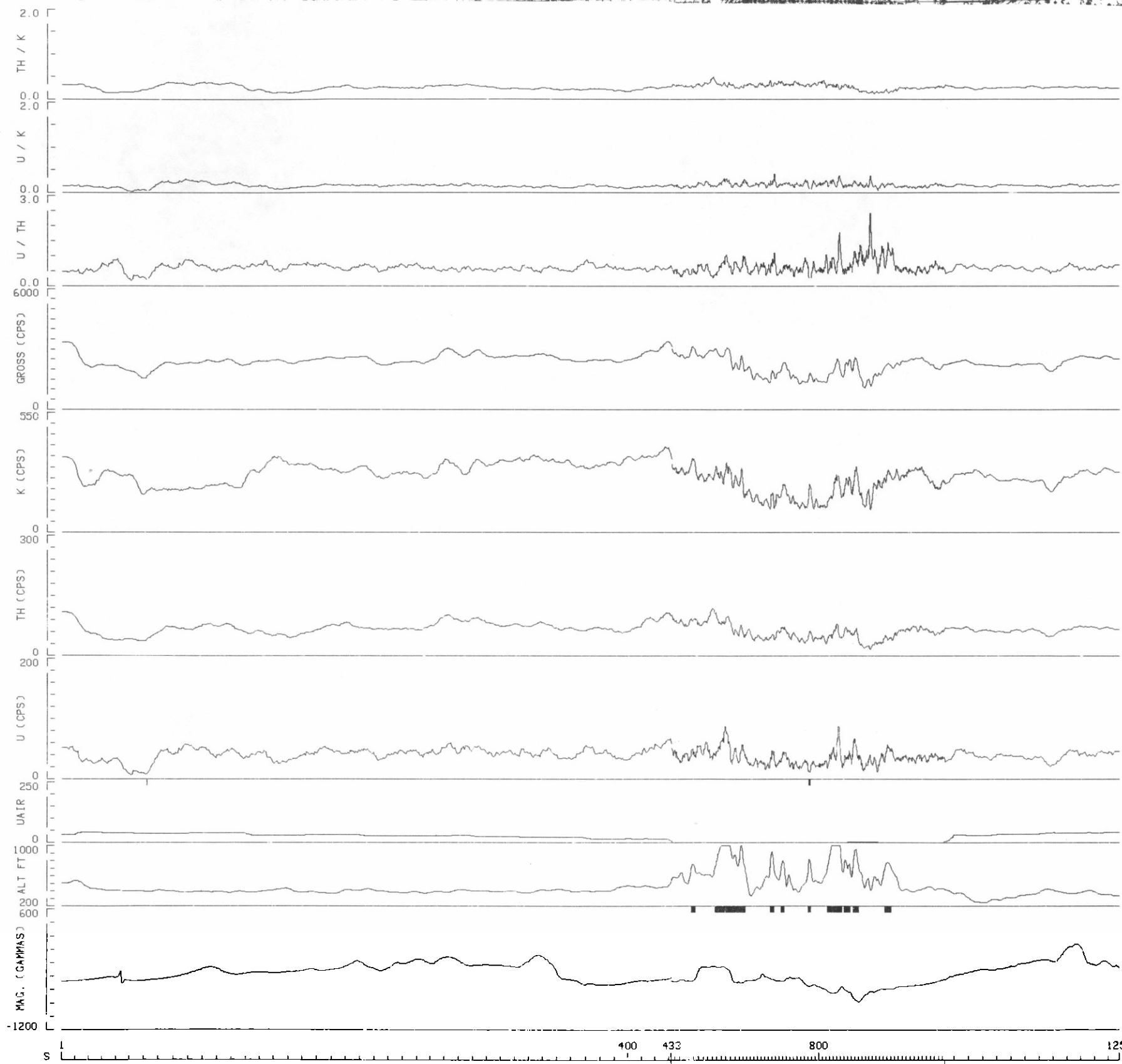
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-202 SILVER CITY NI12-12



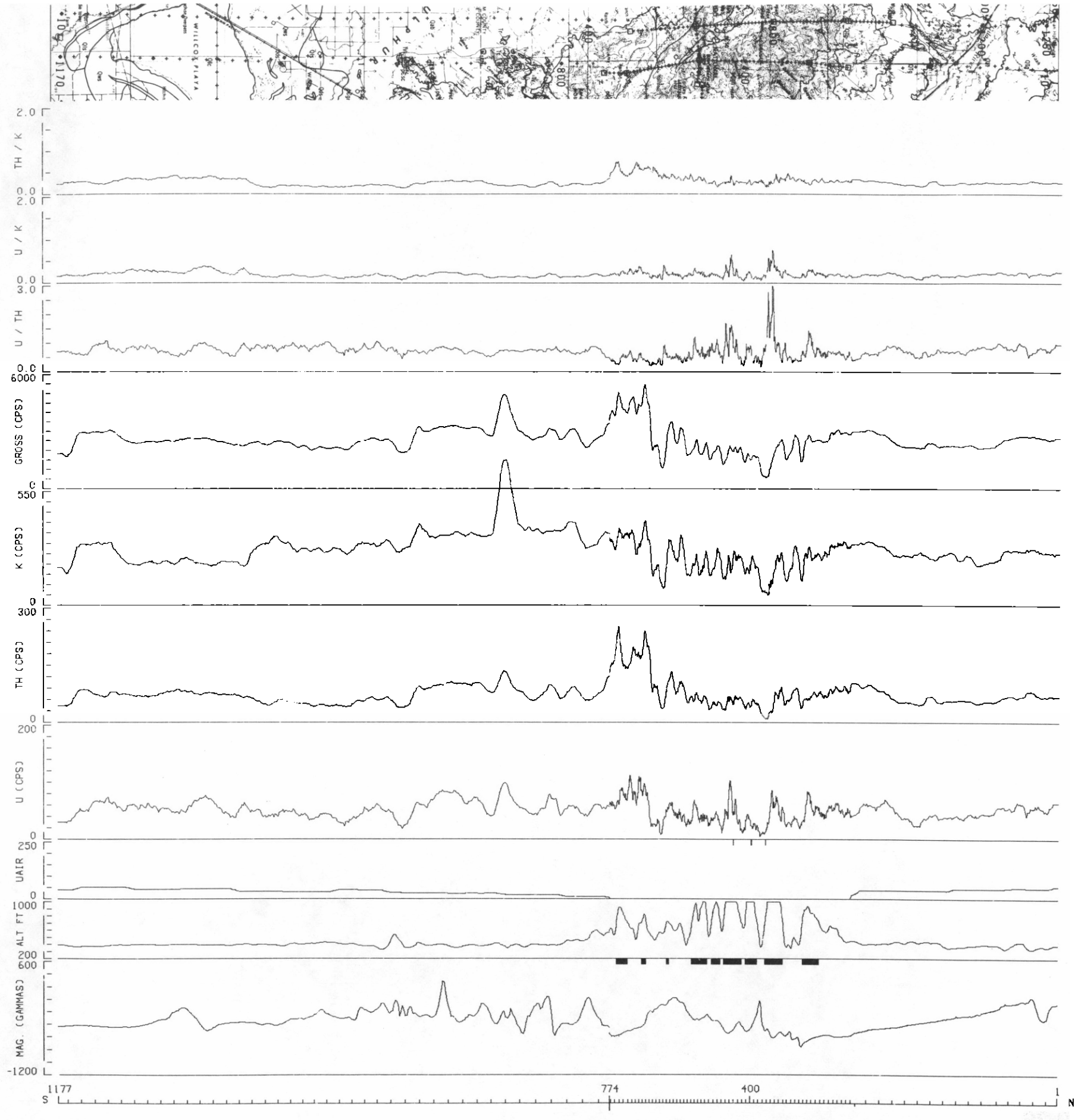


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
 FL-204 SILVER CITY NI12-12

3 MILE(S)

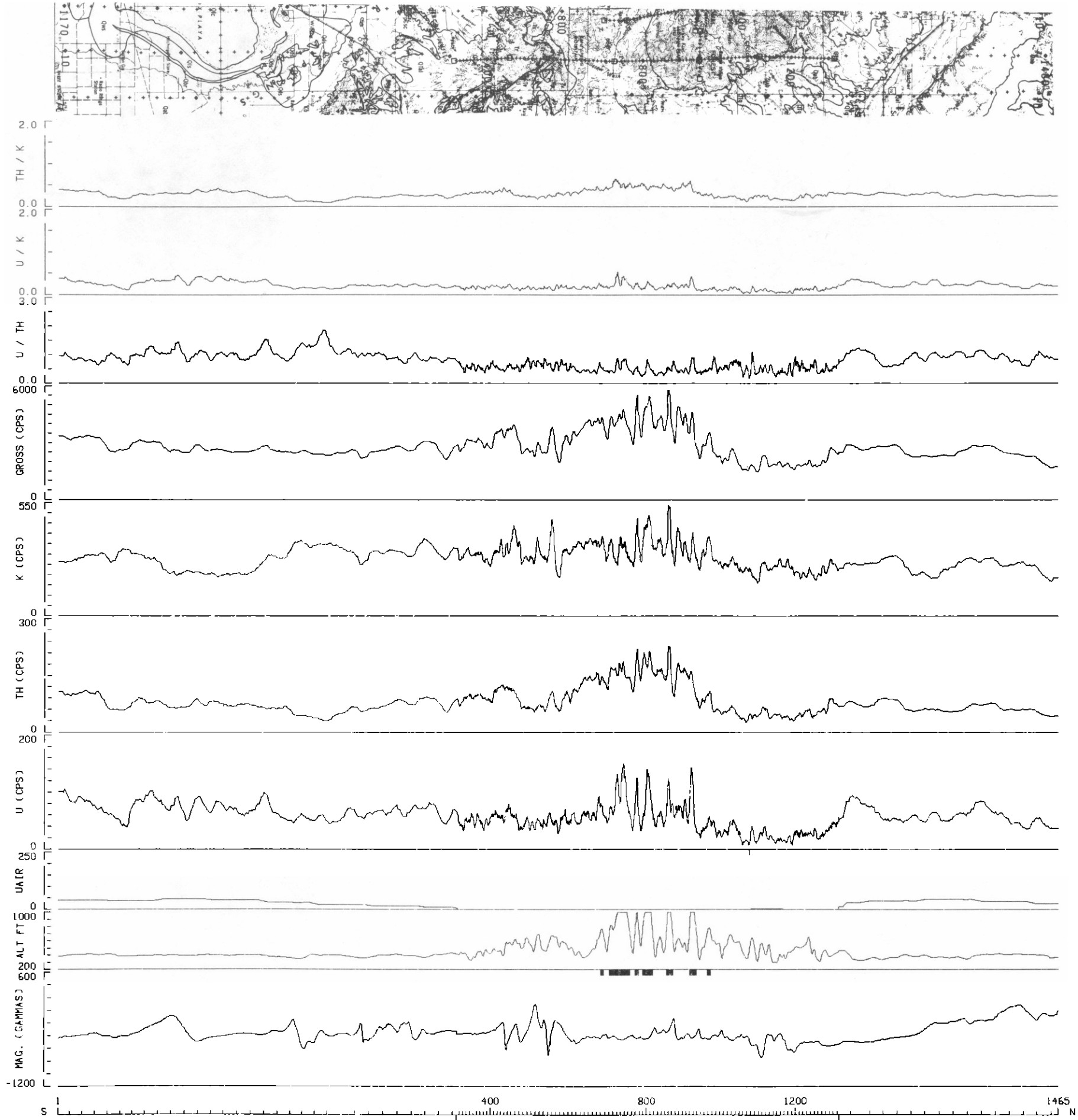


UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-205 SILVER CITY NI12-12



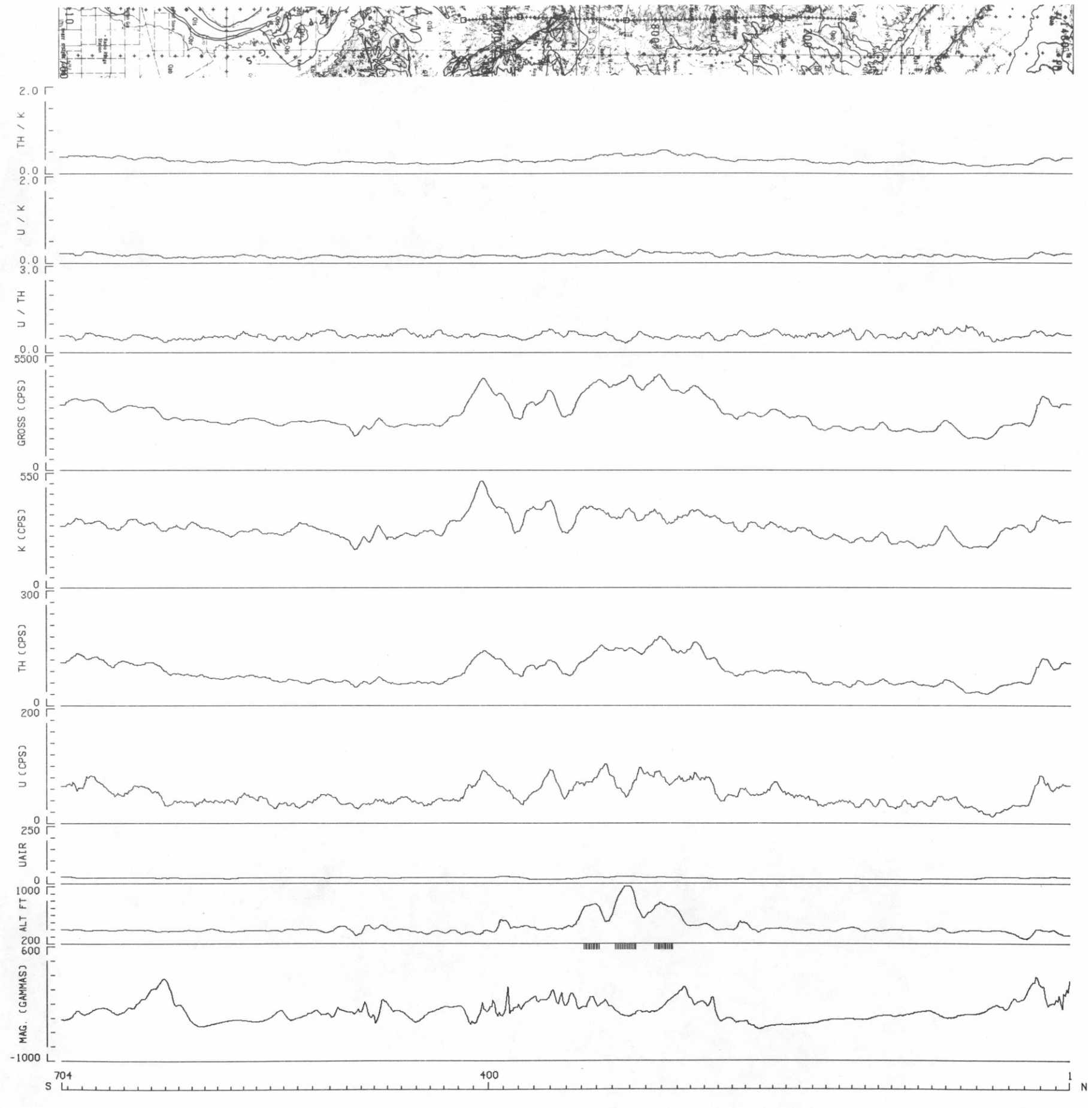
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-206 SILVER CITY NI12-12

3 MILE(S)



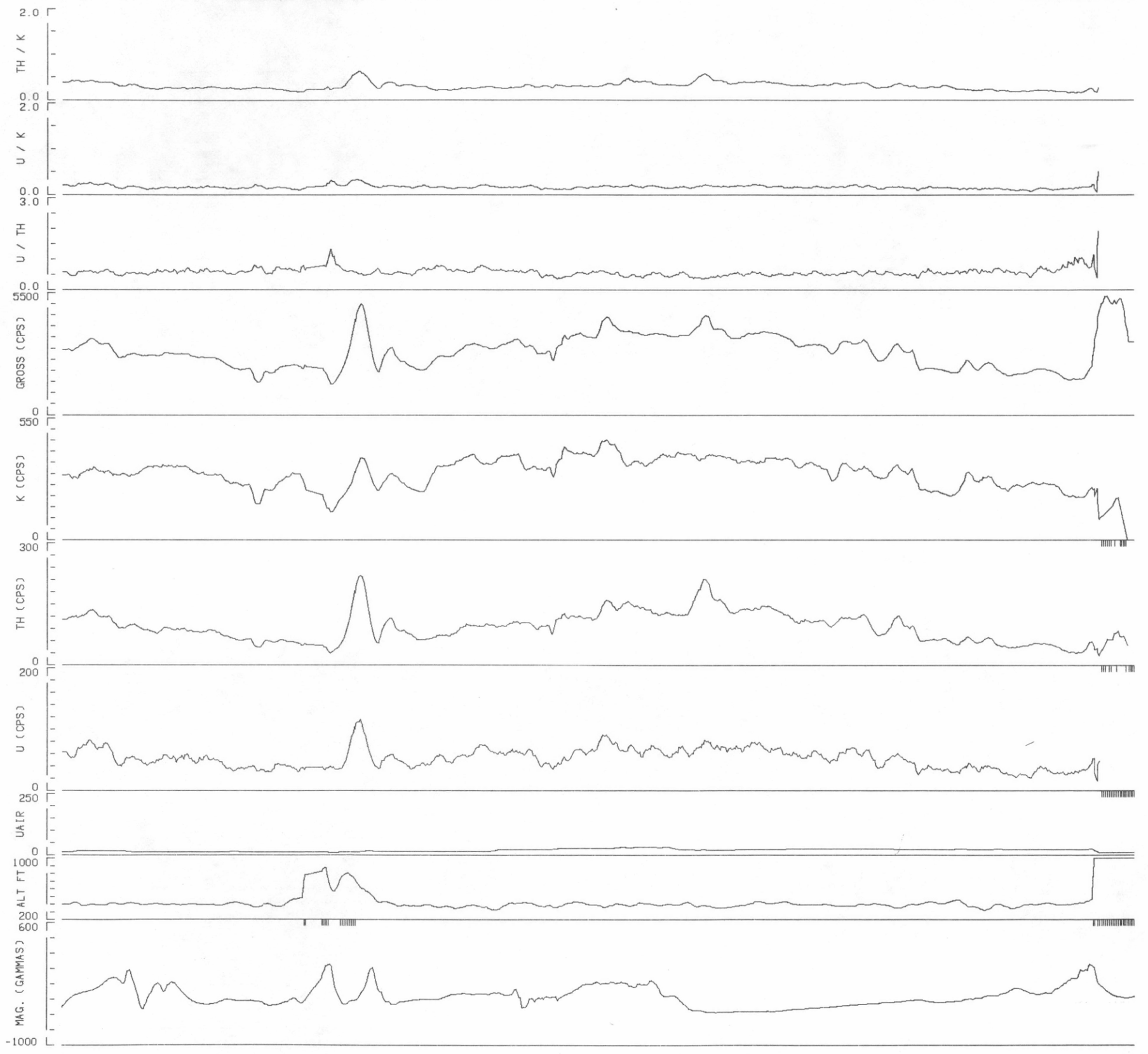
1 400 800 1200 1465 N

UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-207 SILVER CITY NI12-12





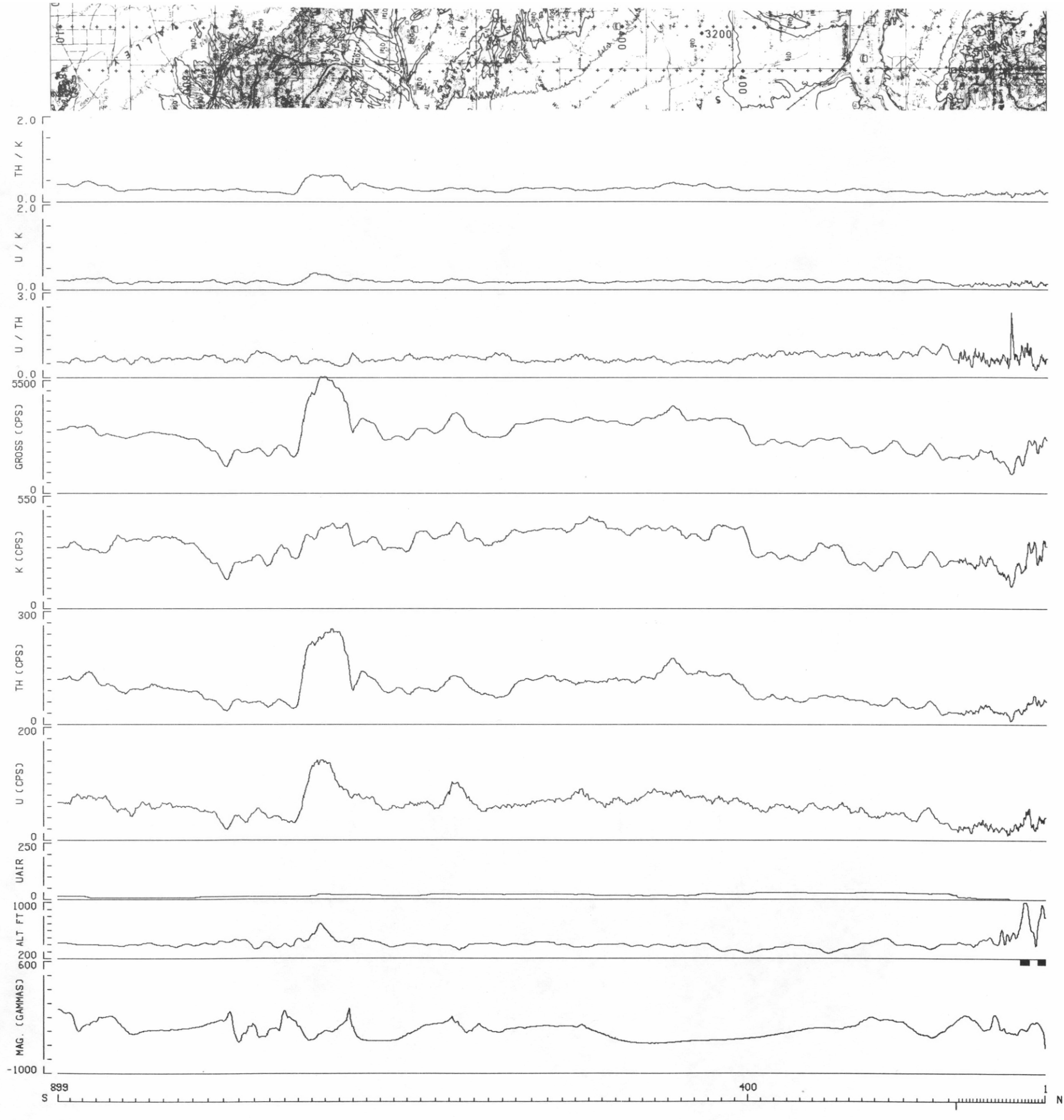
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
 FL-209 SILVER CITY NI12-12

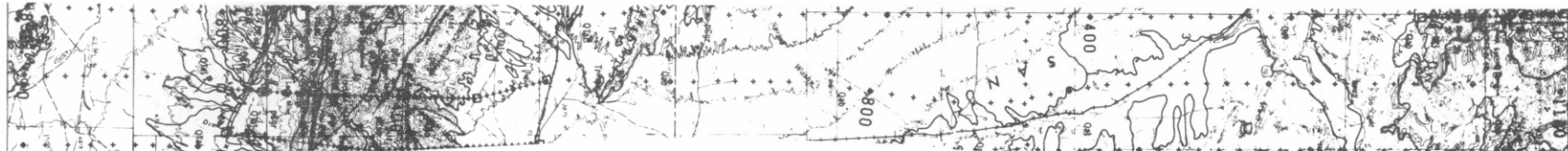


3 MILE(S)

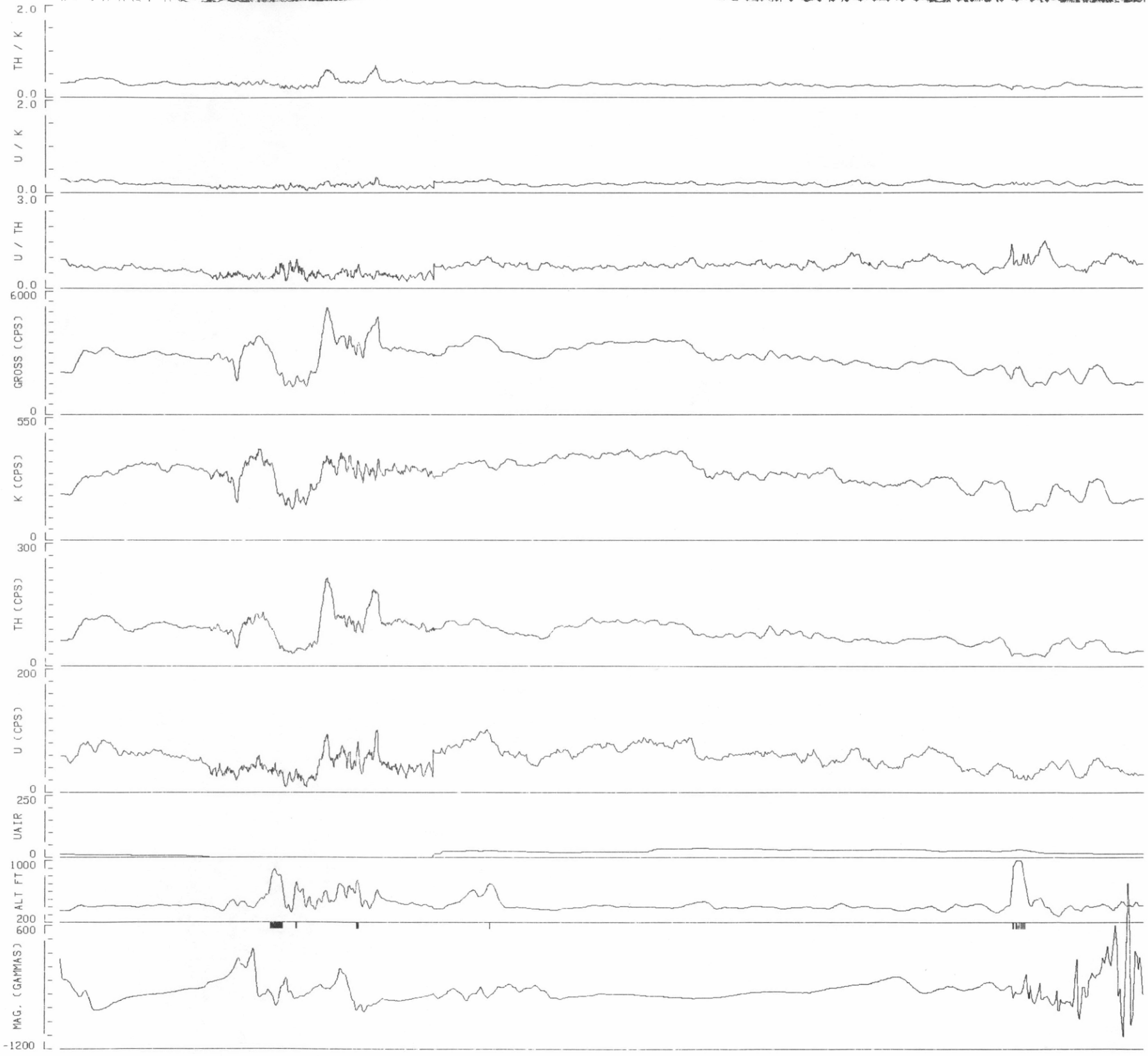
1 400 720 N

UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-210 SILVER CITY NI12-12





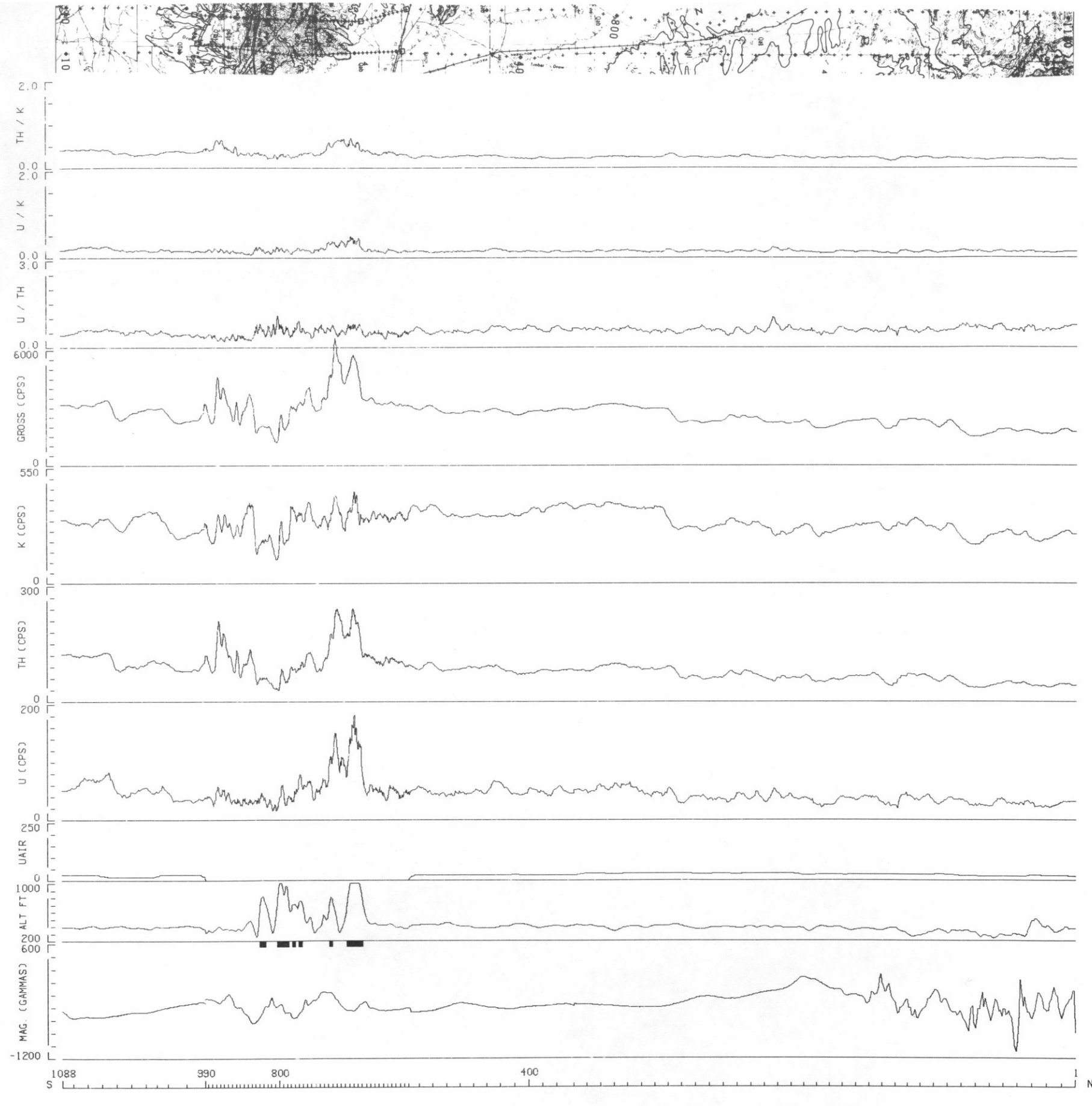
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
 FL-211 SILVER CITY NI12-12



3 MILE(S)

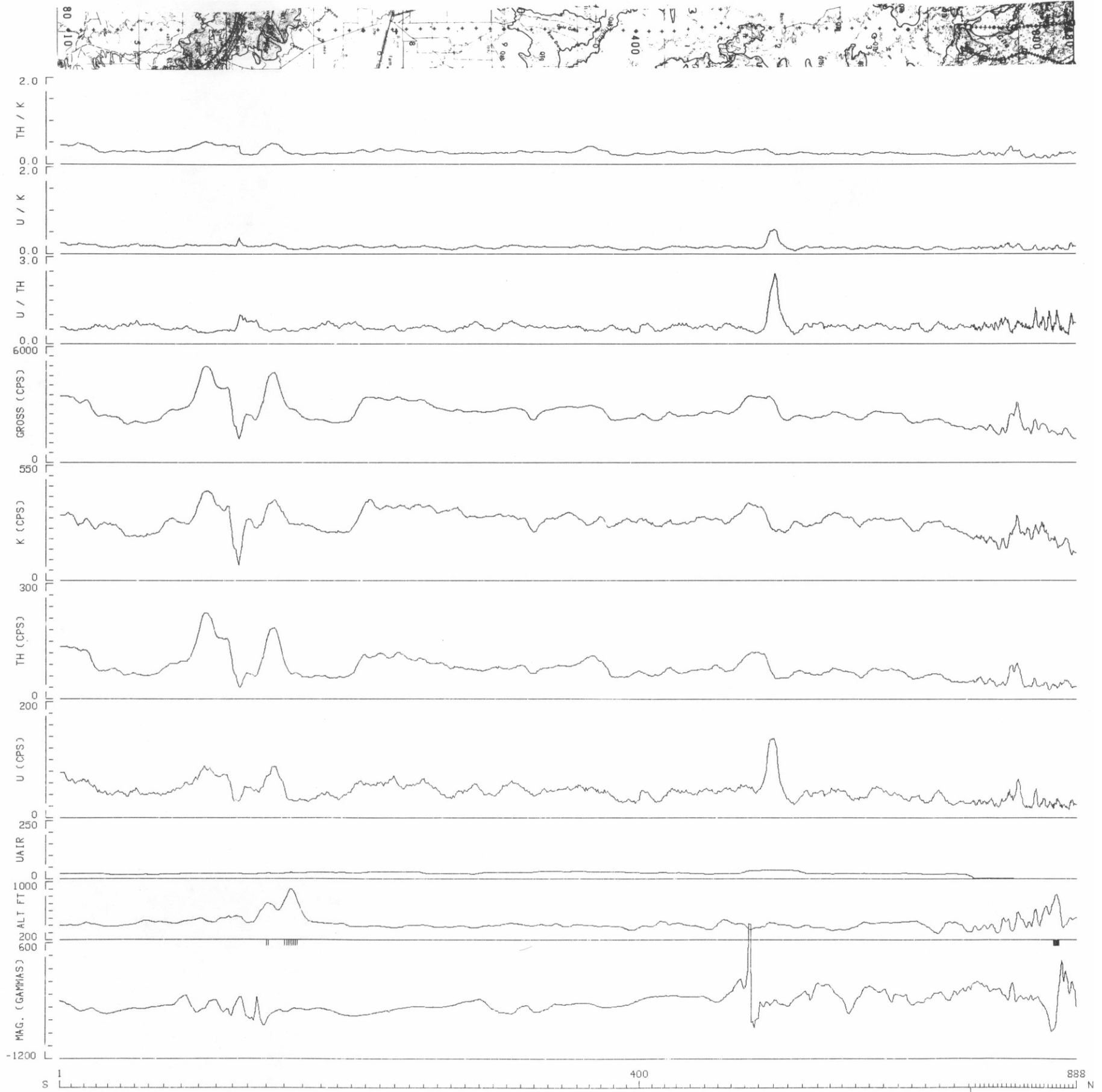
1 400 800 1143
 S N

UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-212 SILVER CITY NI12-12

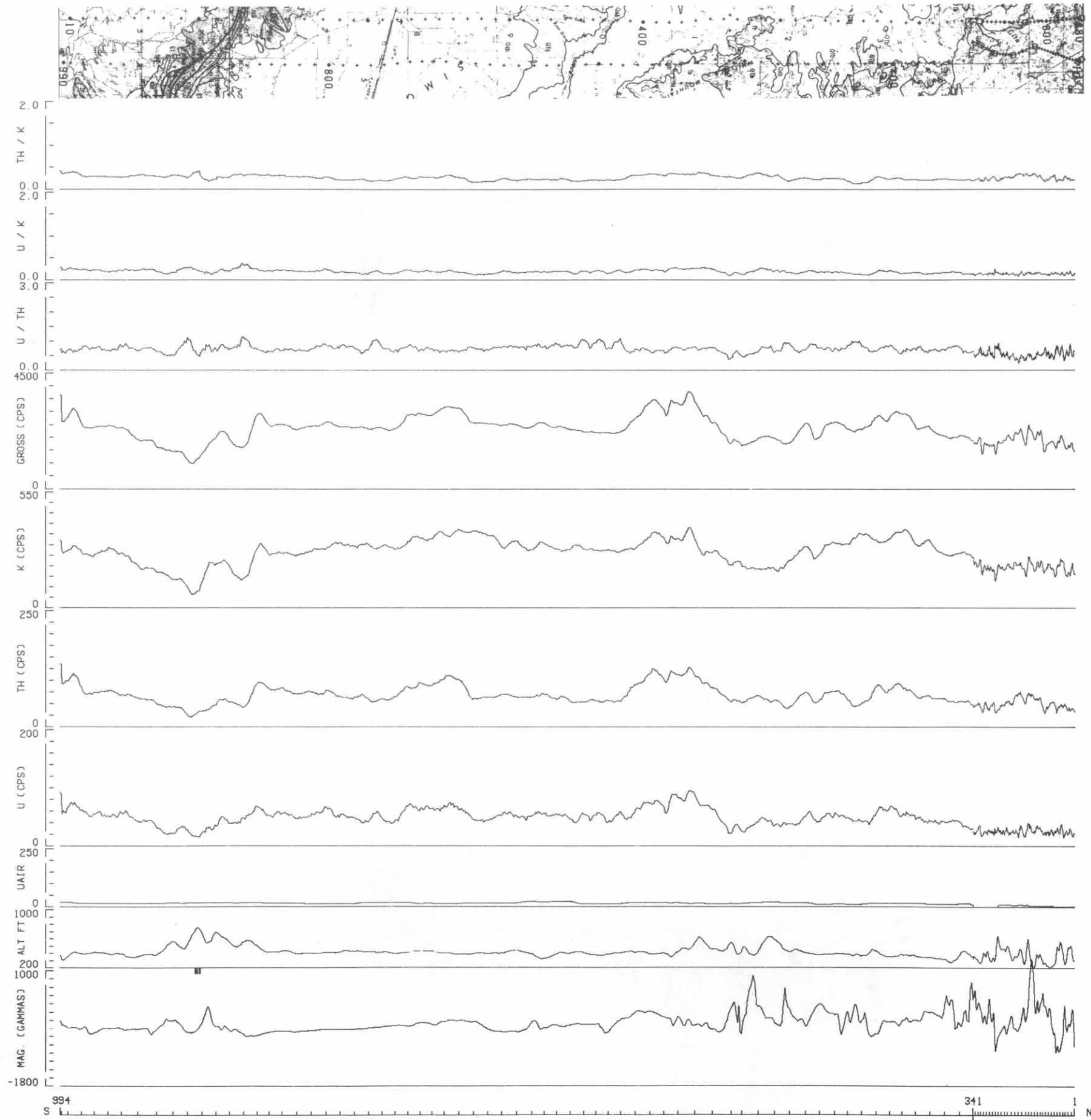


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-214 SILVER CITY NI12-12

3 MILES

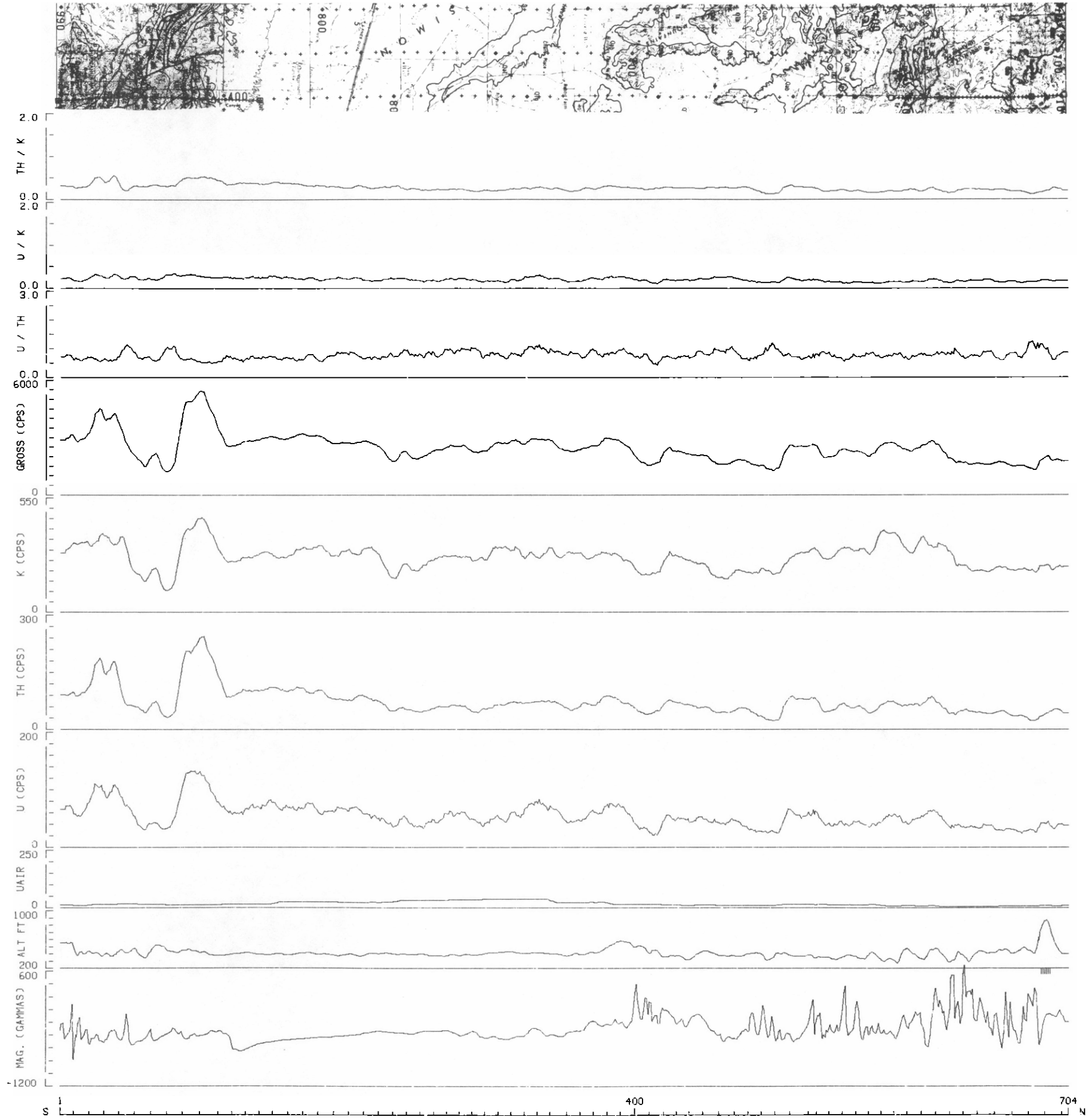


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-215 SILVER CITY NI12-12

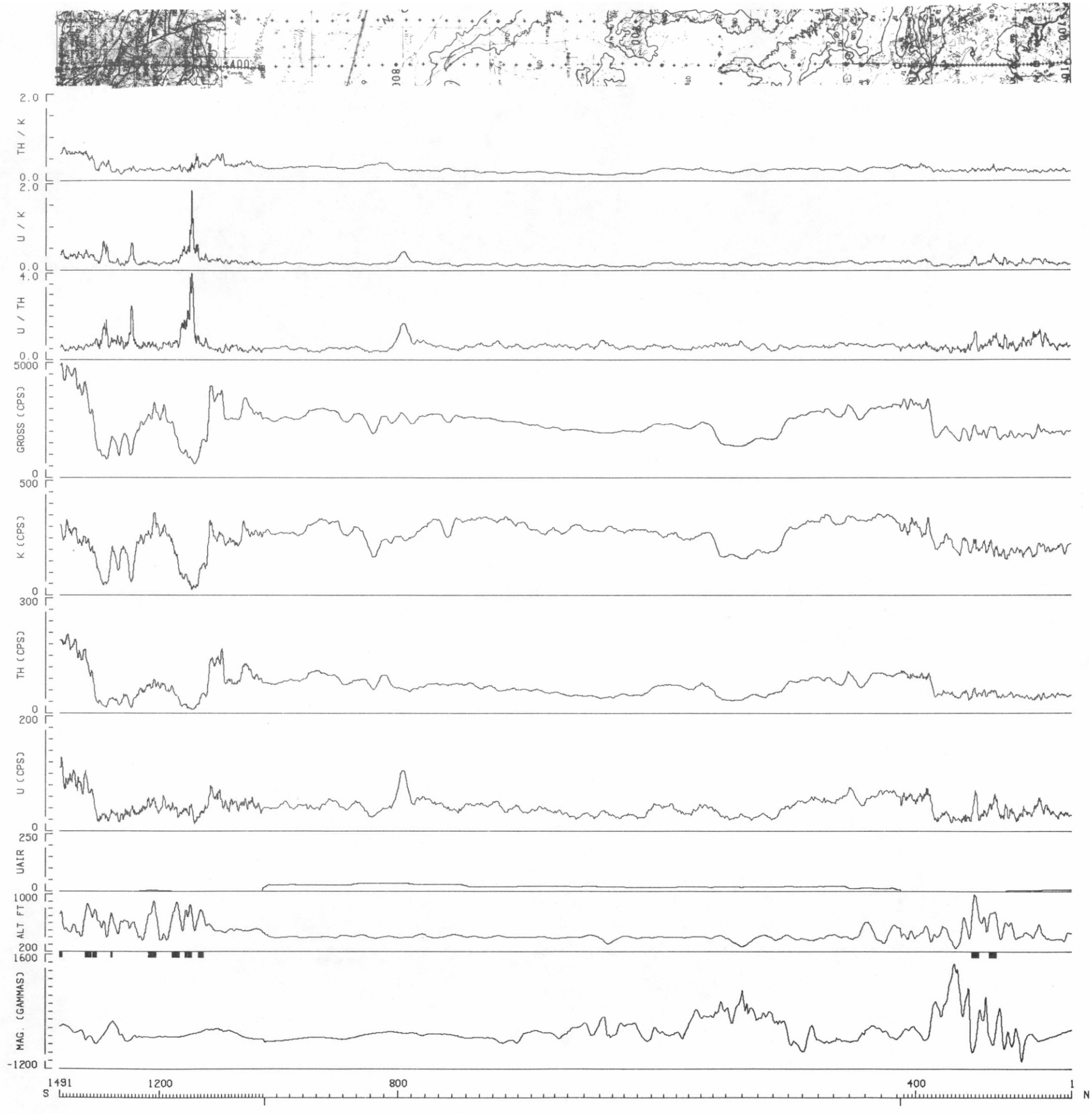


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-216 SILVER CITY NI12-12

3 MILES

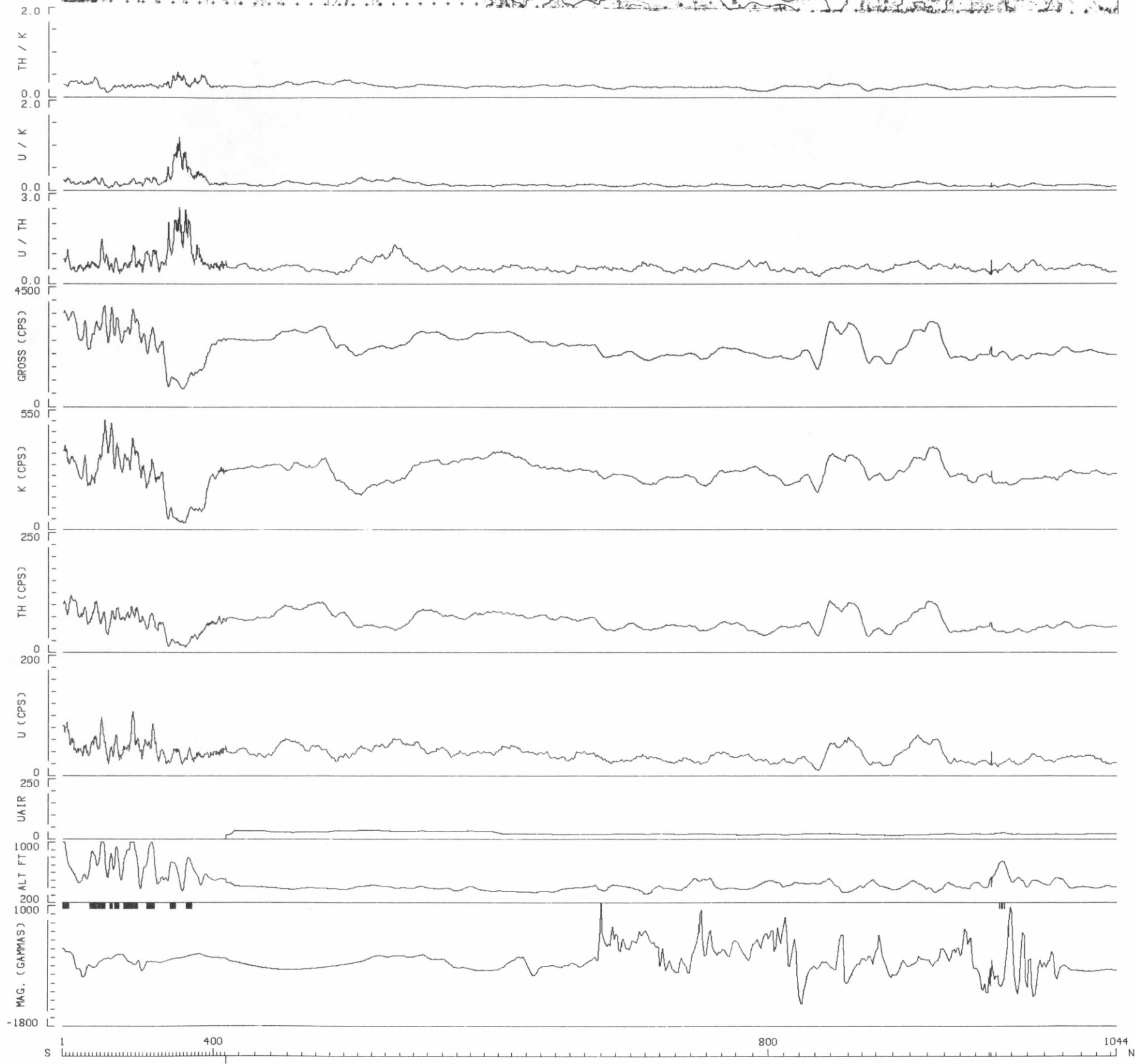


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-217 SILVER CITY NI12-12



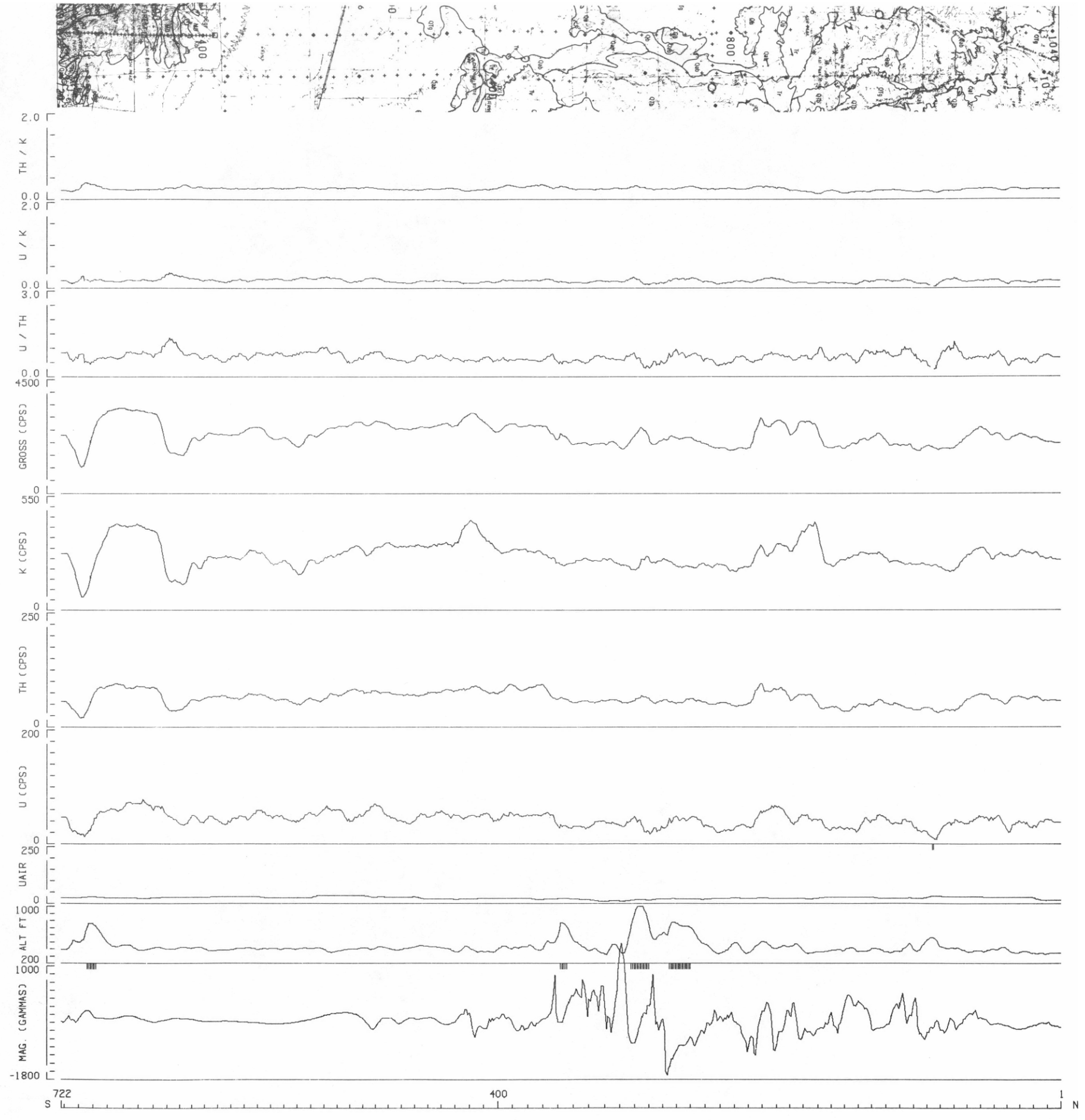


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
 FL-219 SILVER CITY NI12-12



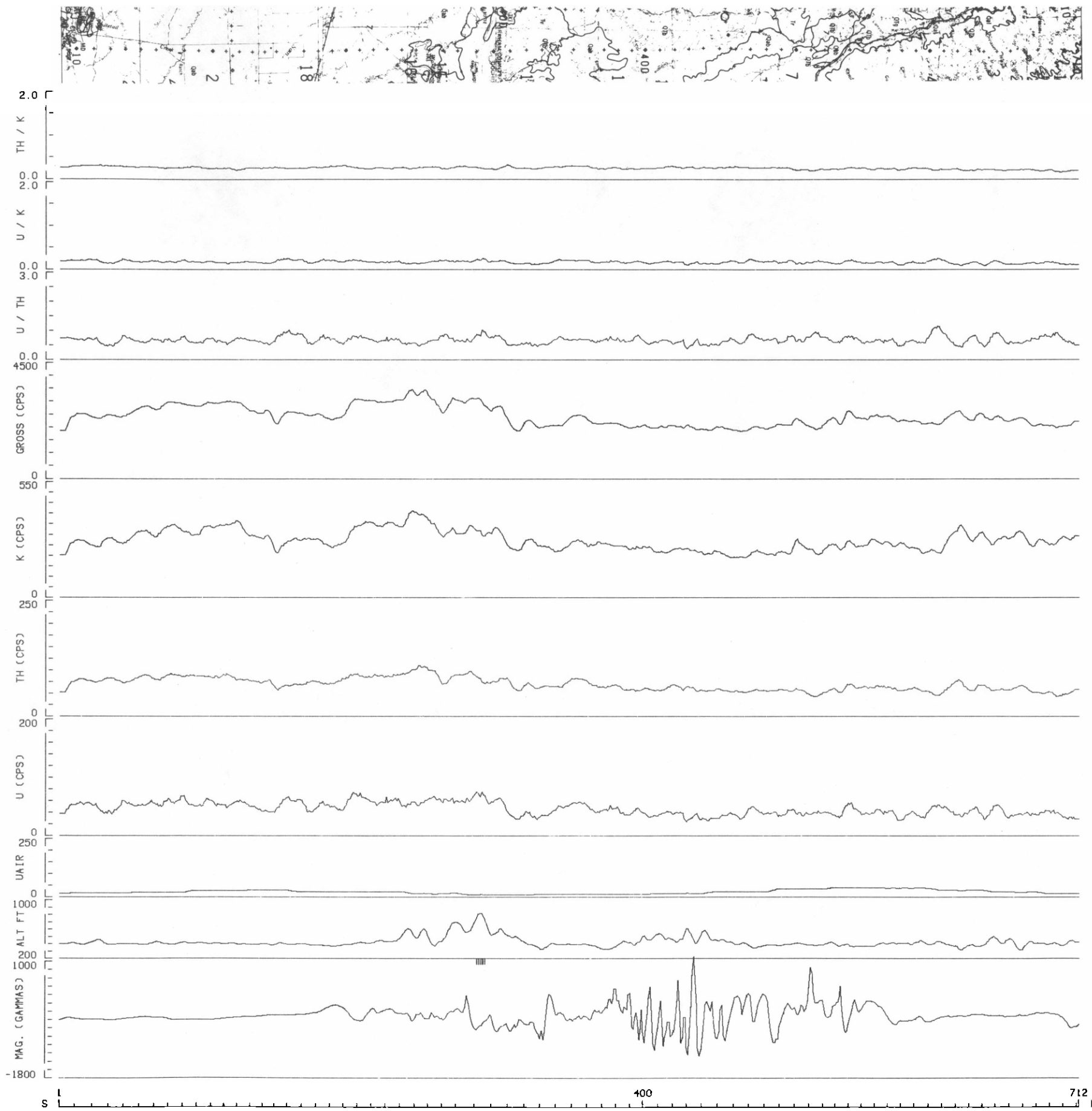
3 MILES

UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-220 SILVER CITY NI12-12

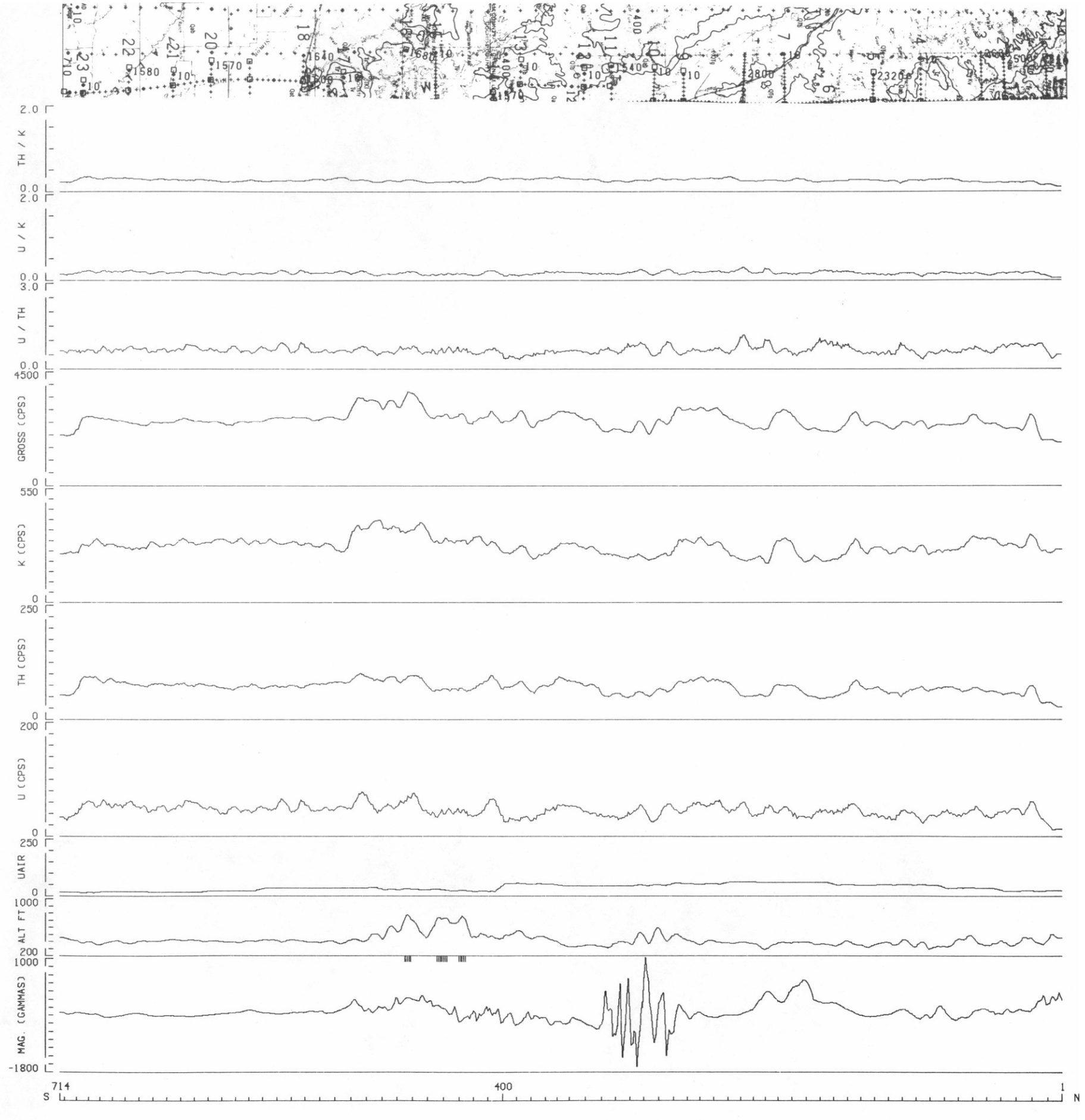


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-221 SILVER CITY NI12-12

3 MILES



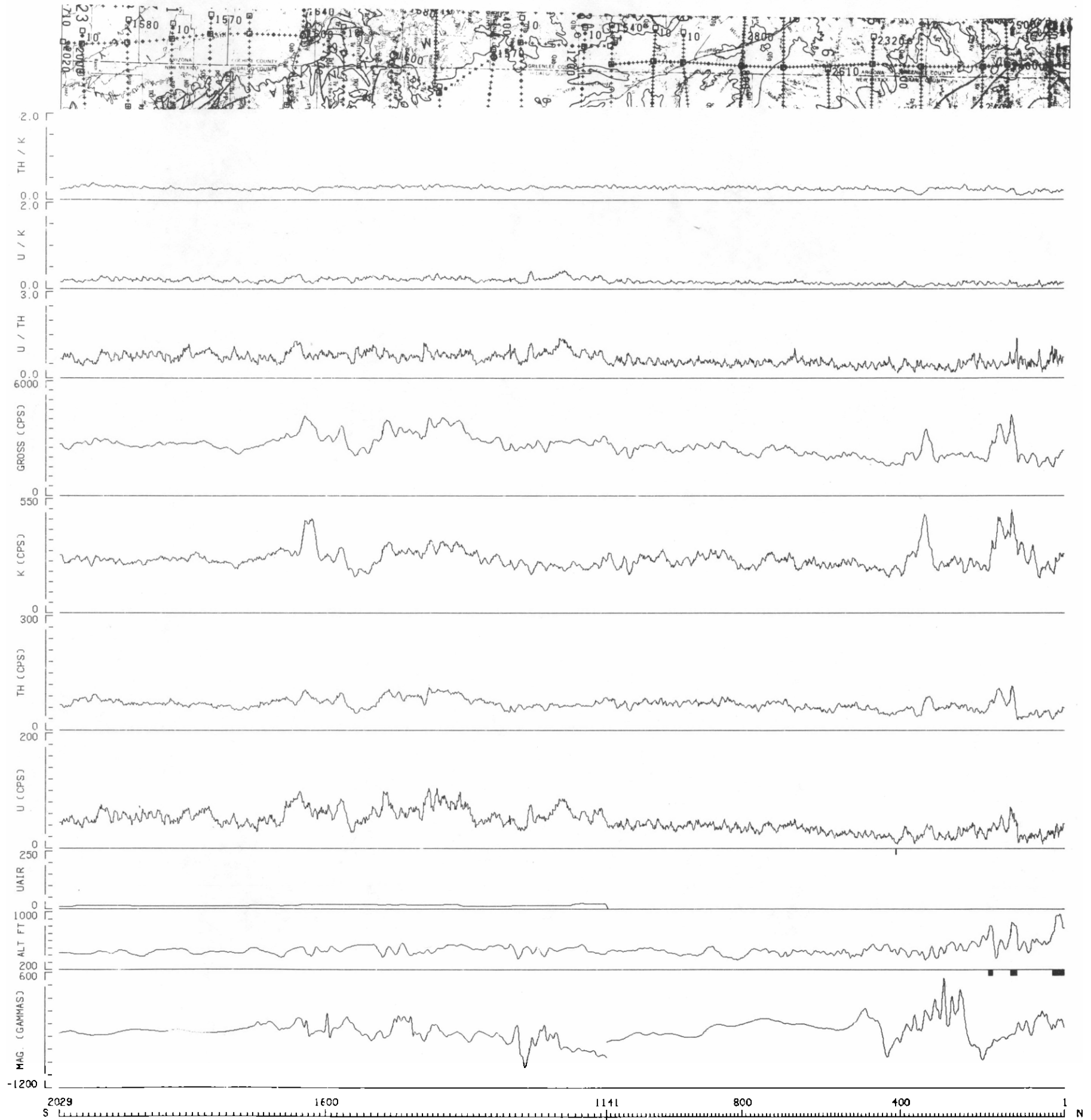
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-222 SILVER CITY NI12-12



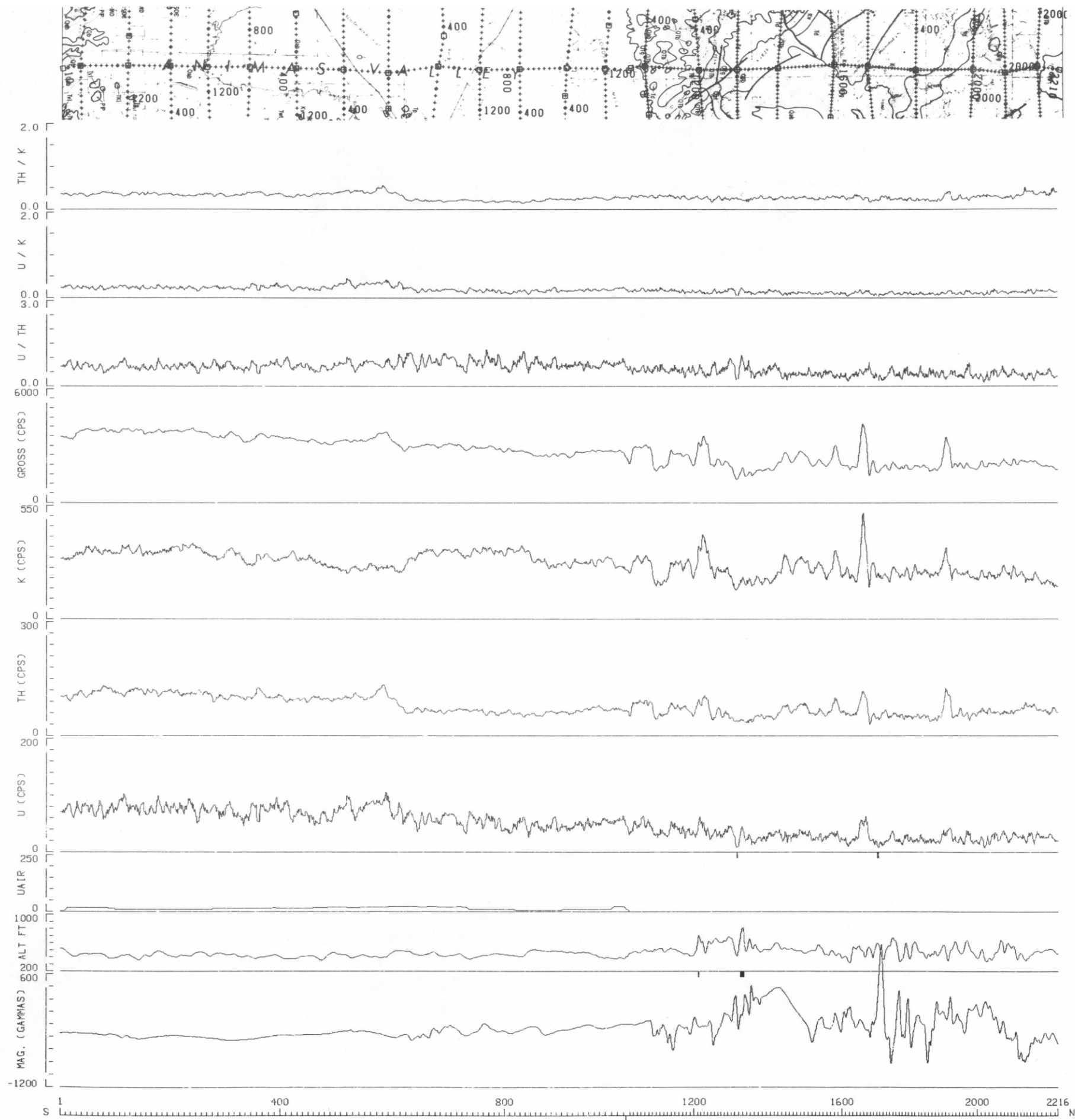
3 MILE(S)

UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-223 SILVER CITY NI12-12

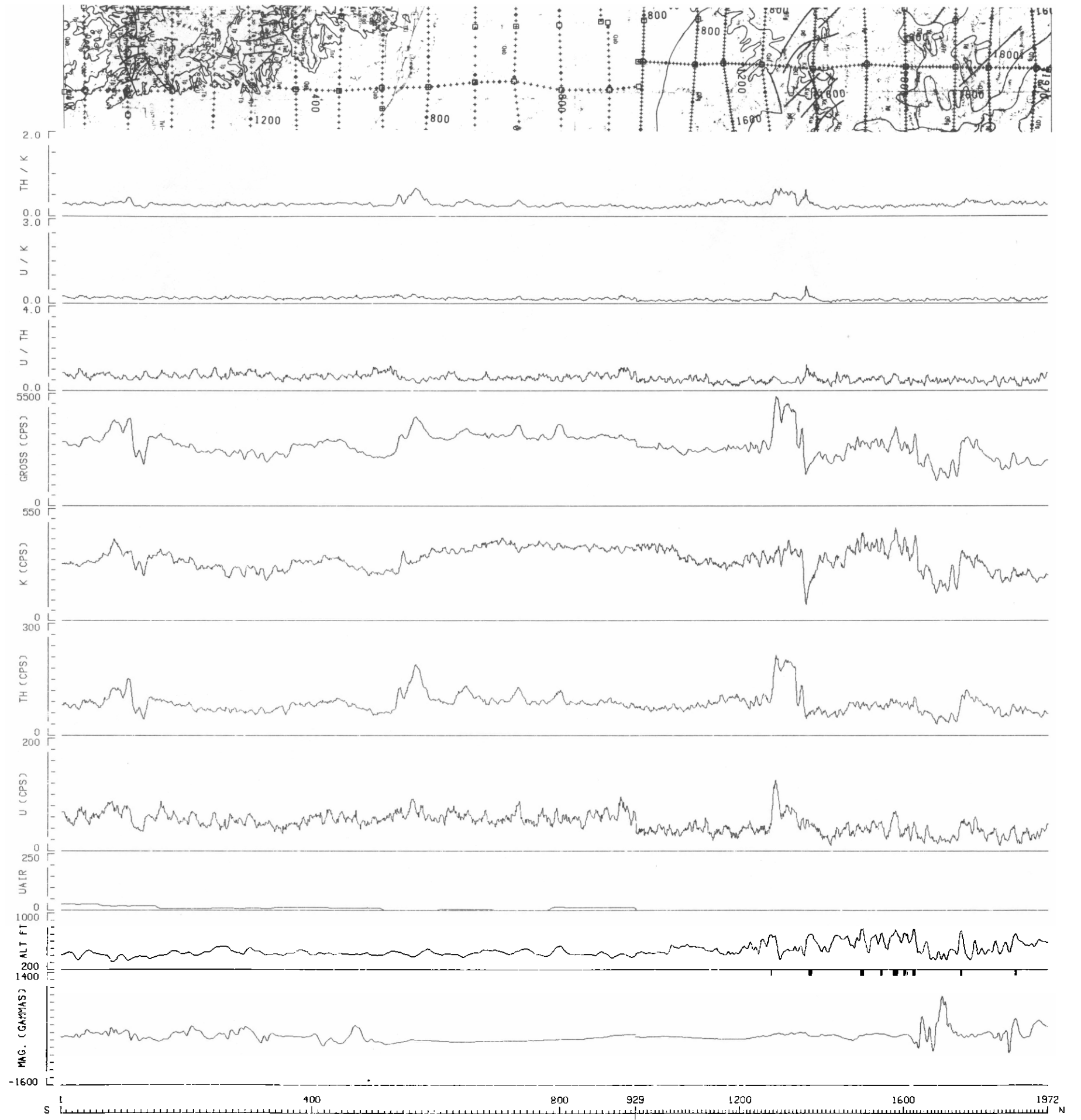
3 MILE(S)



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-224 SILVER CITY NI12-12

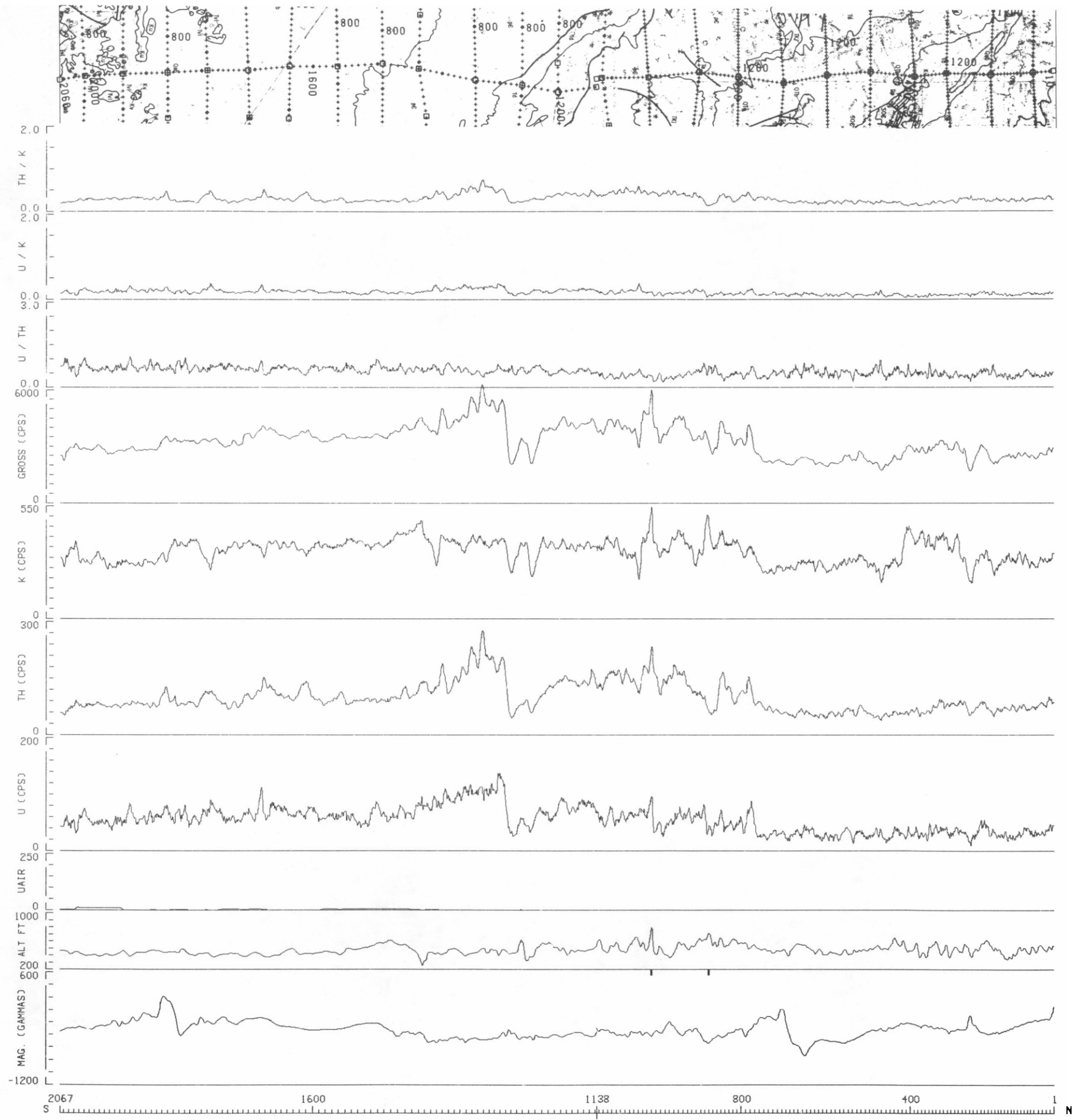


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-225 SILVER CITY NI12-12



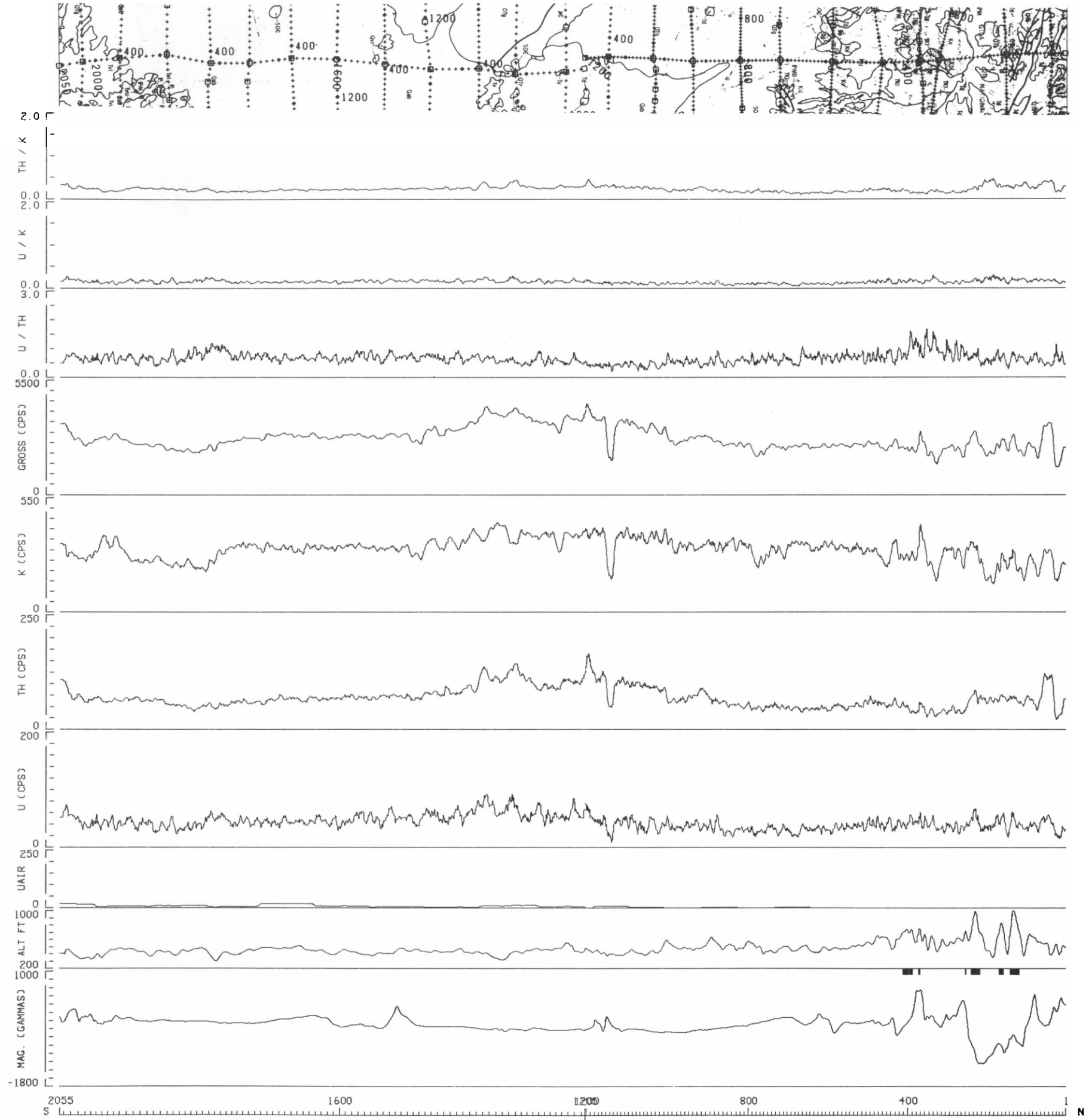
3 MILES

UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-226 SILVER CITY NI12-12



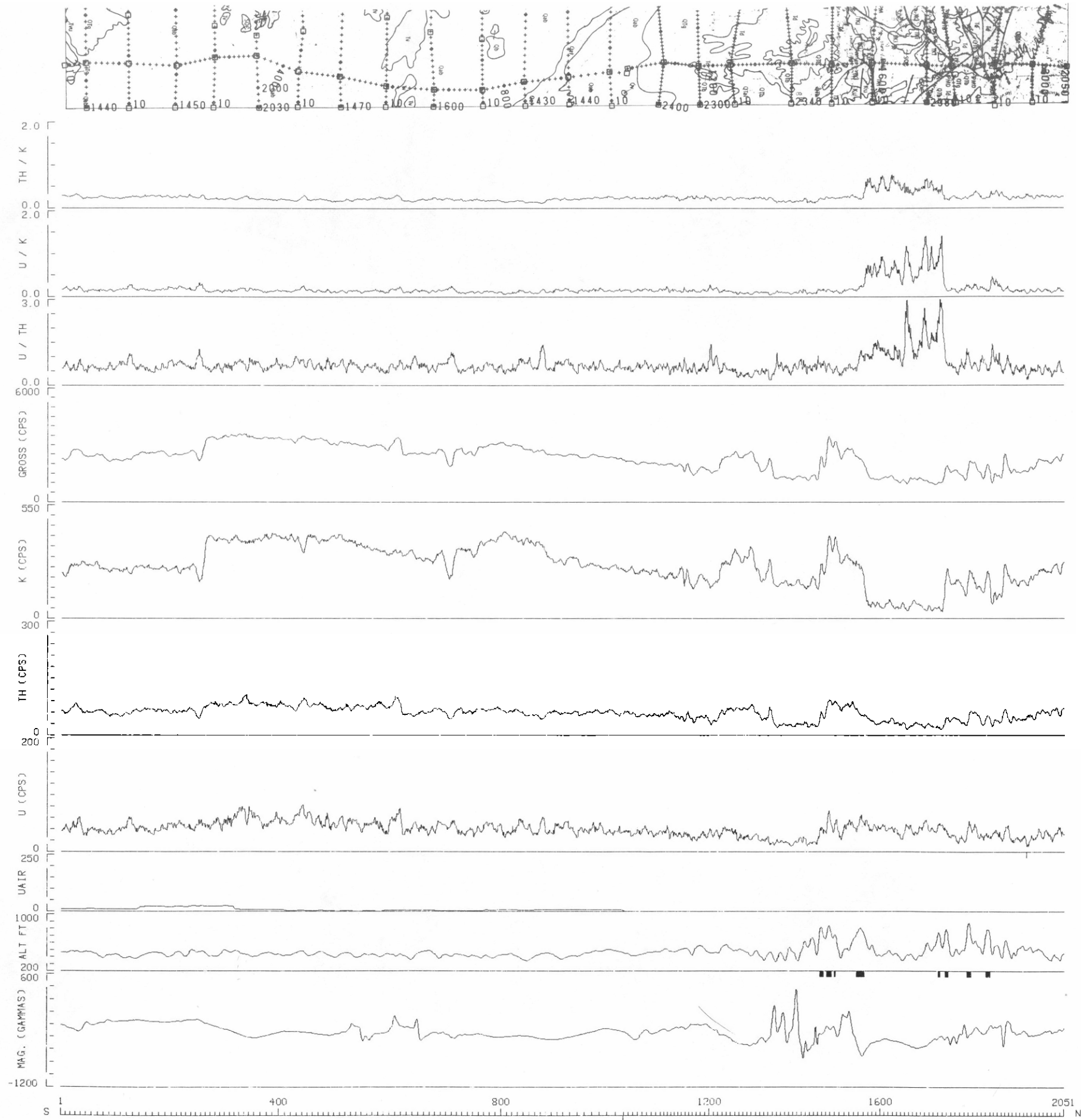
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-227 SILVER CITY NI12-12

3 MILE(S)



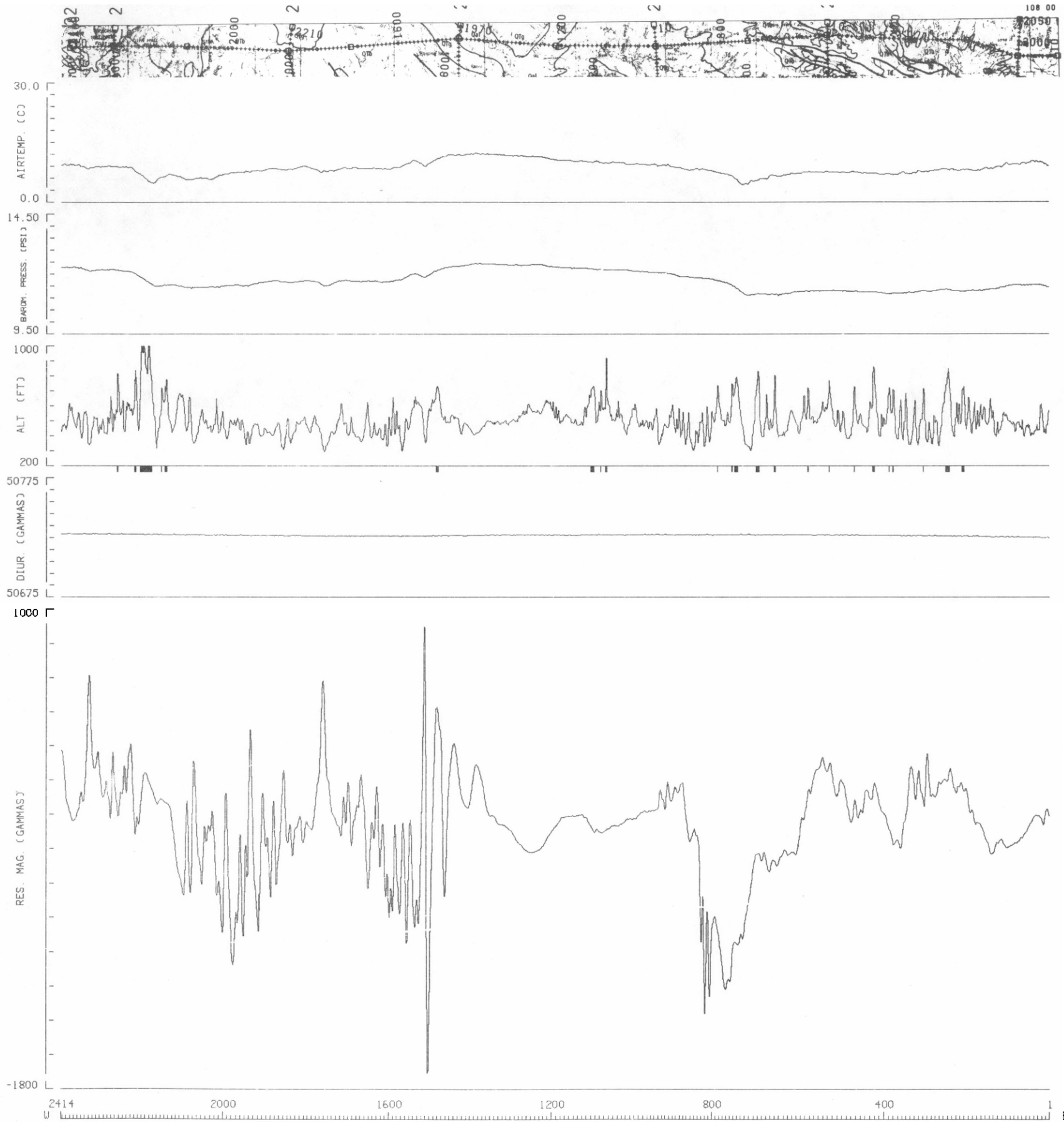
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-228 SILVER CITY NI12-12

3 MILES



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-001 SILVER CITY NI12-12

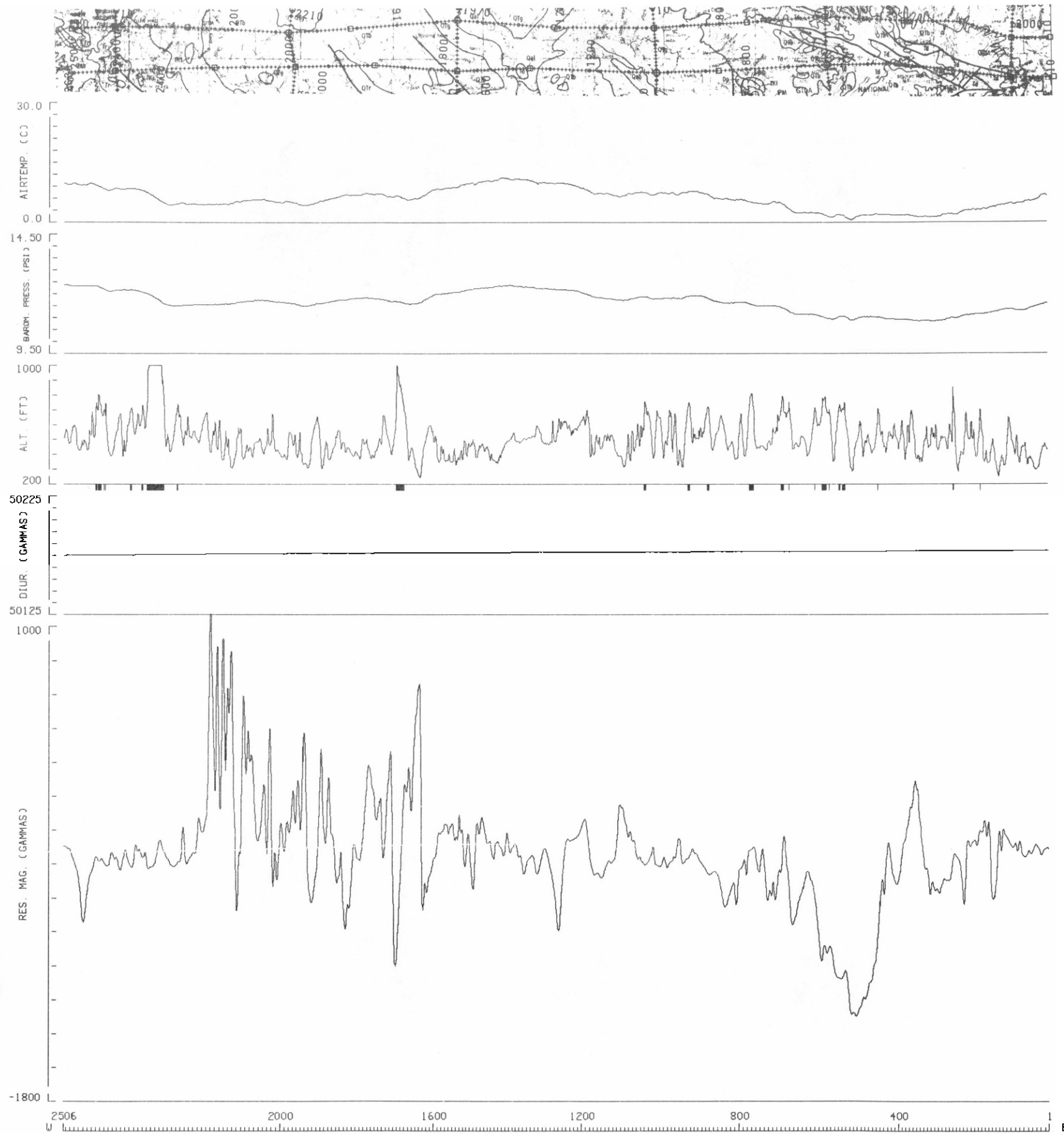
3 FILE(S)



108 00

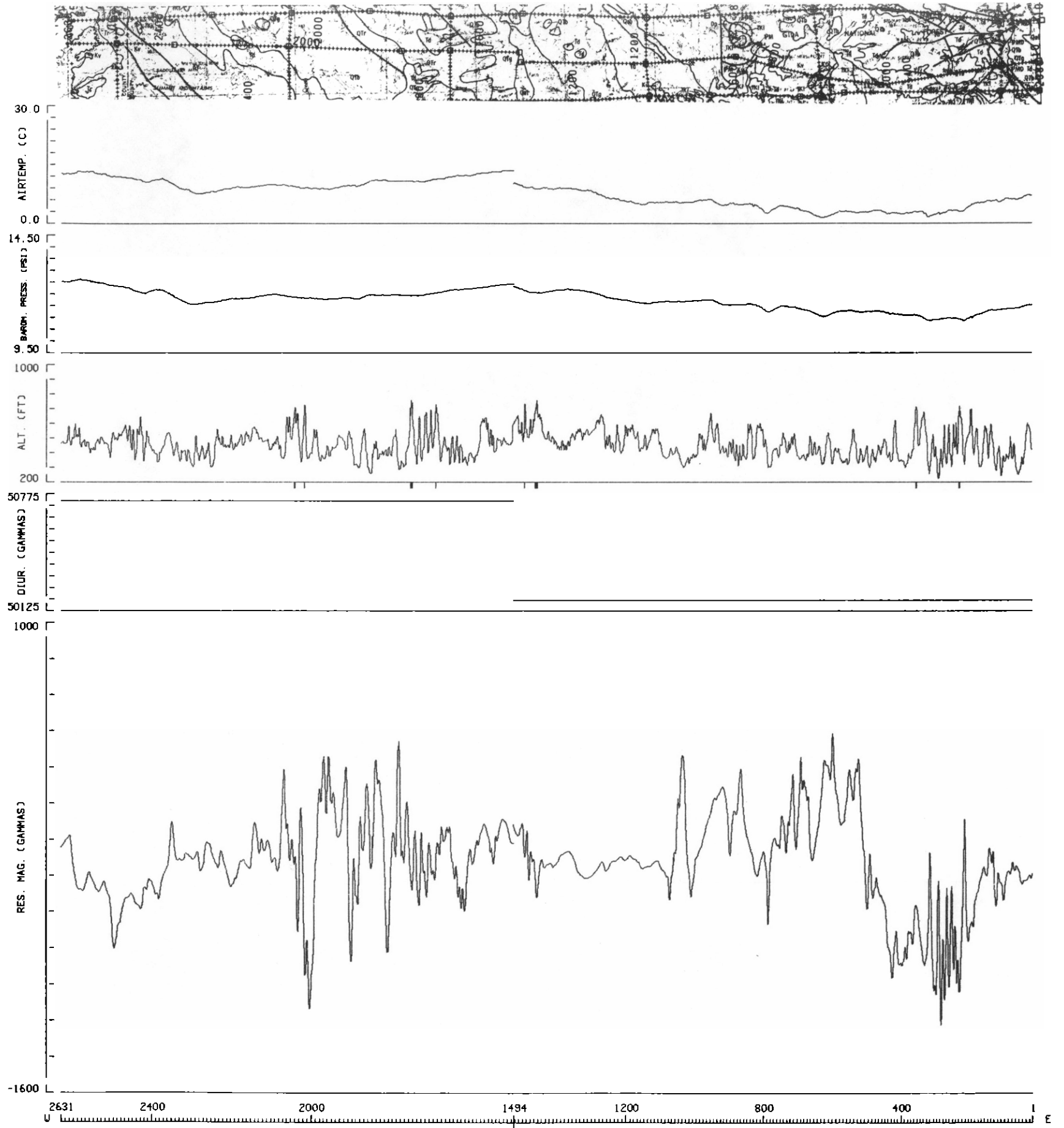
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-002 SILVER CITY NI12-12

3 MILES



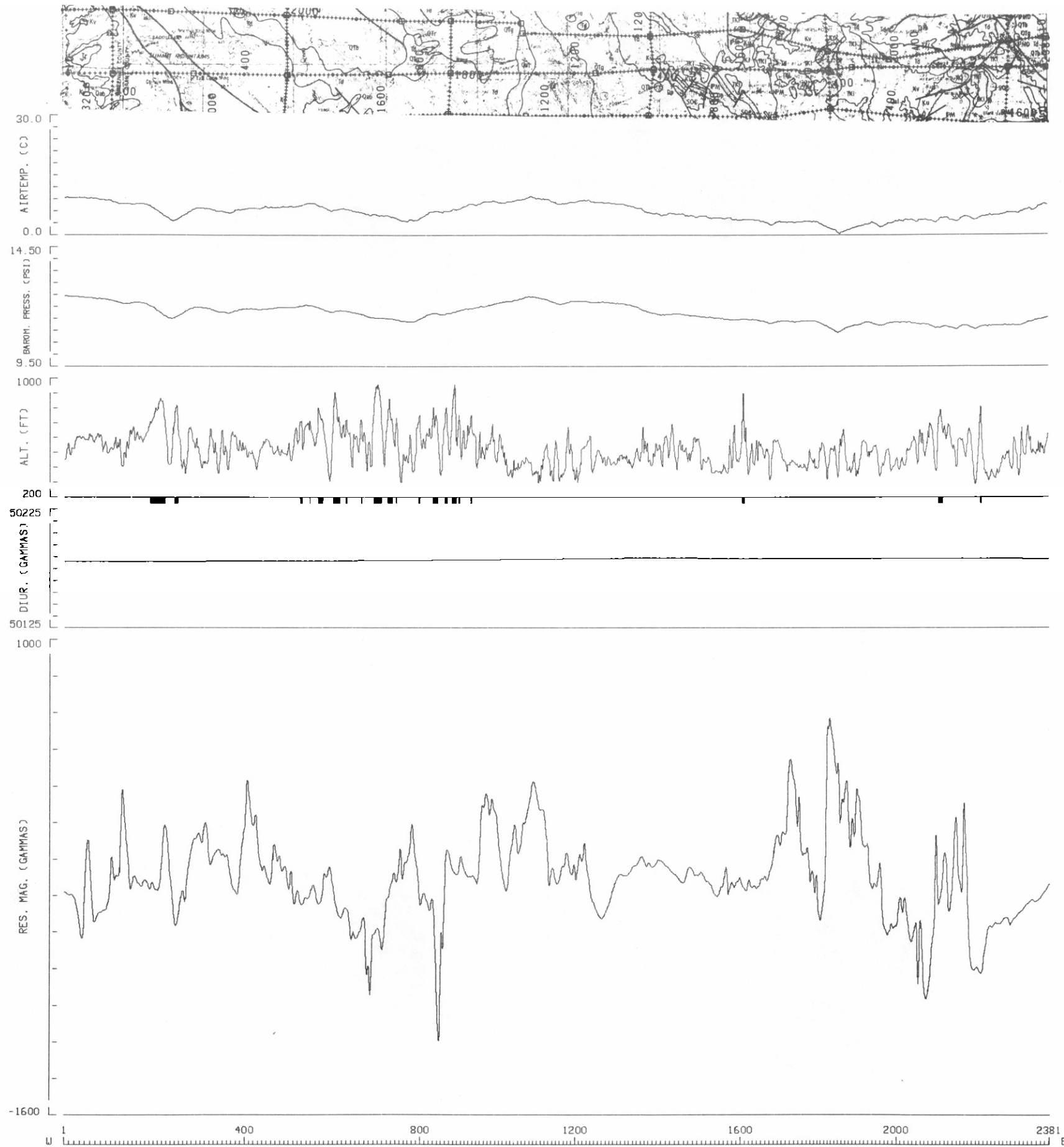
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-003 SILVER CITY NI12-12

3 MILE(S)

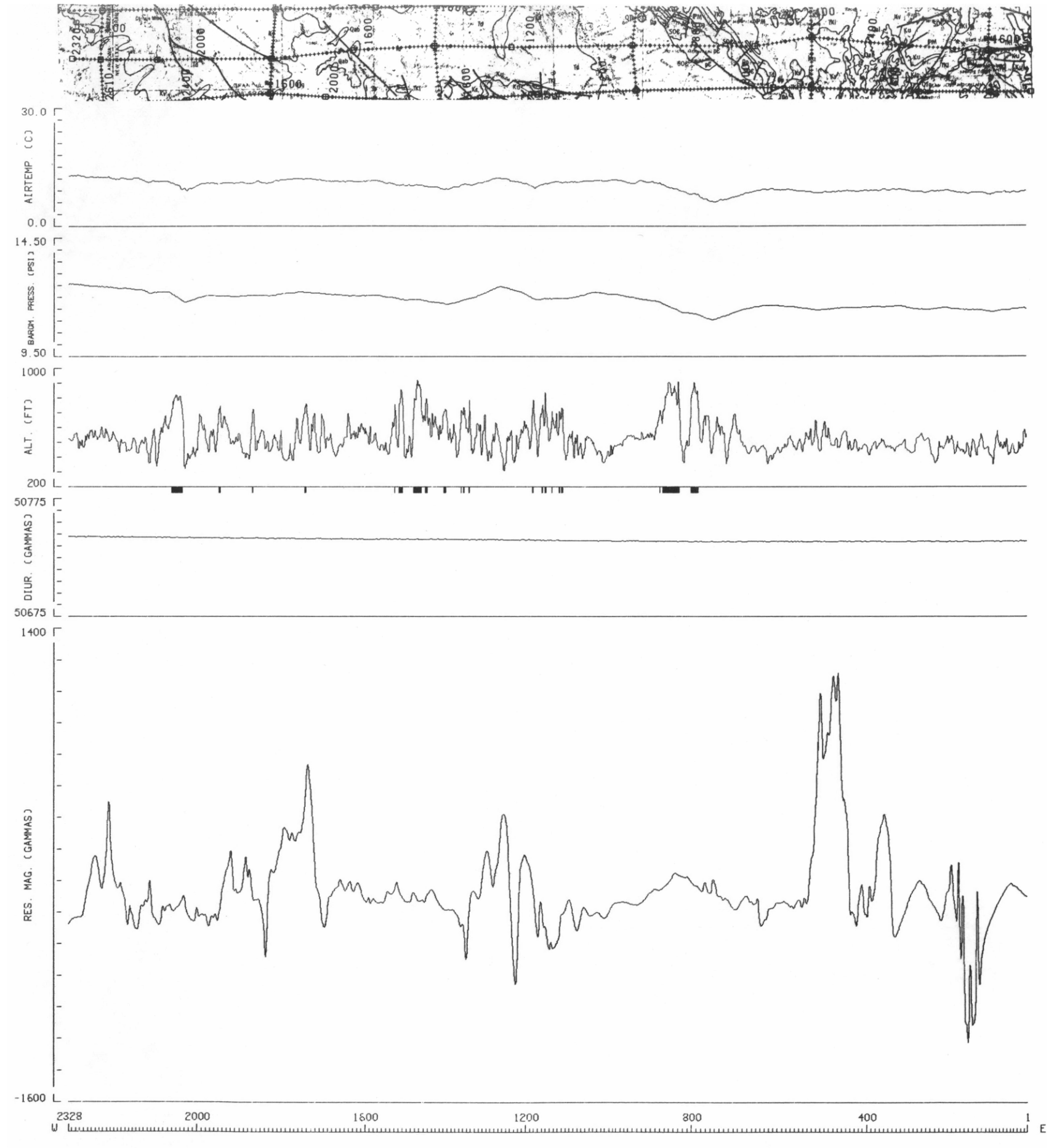


UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-004 SILVER CITY NI12-12

3 MILE(S)

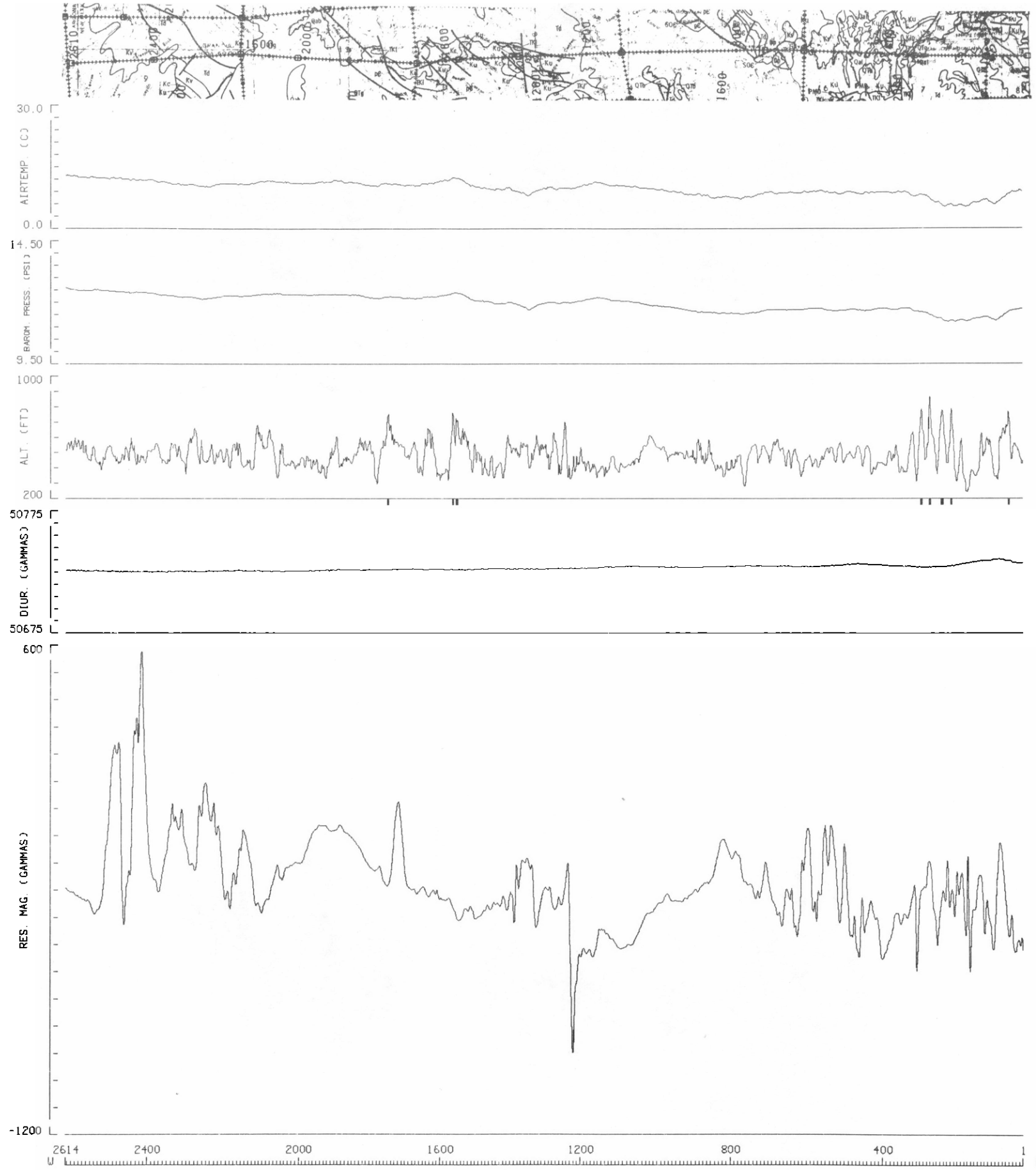


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-005 SILVER CITY NI12-12



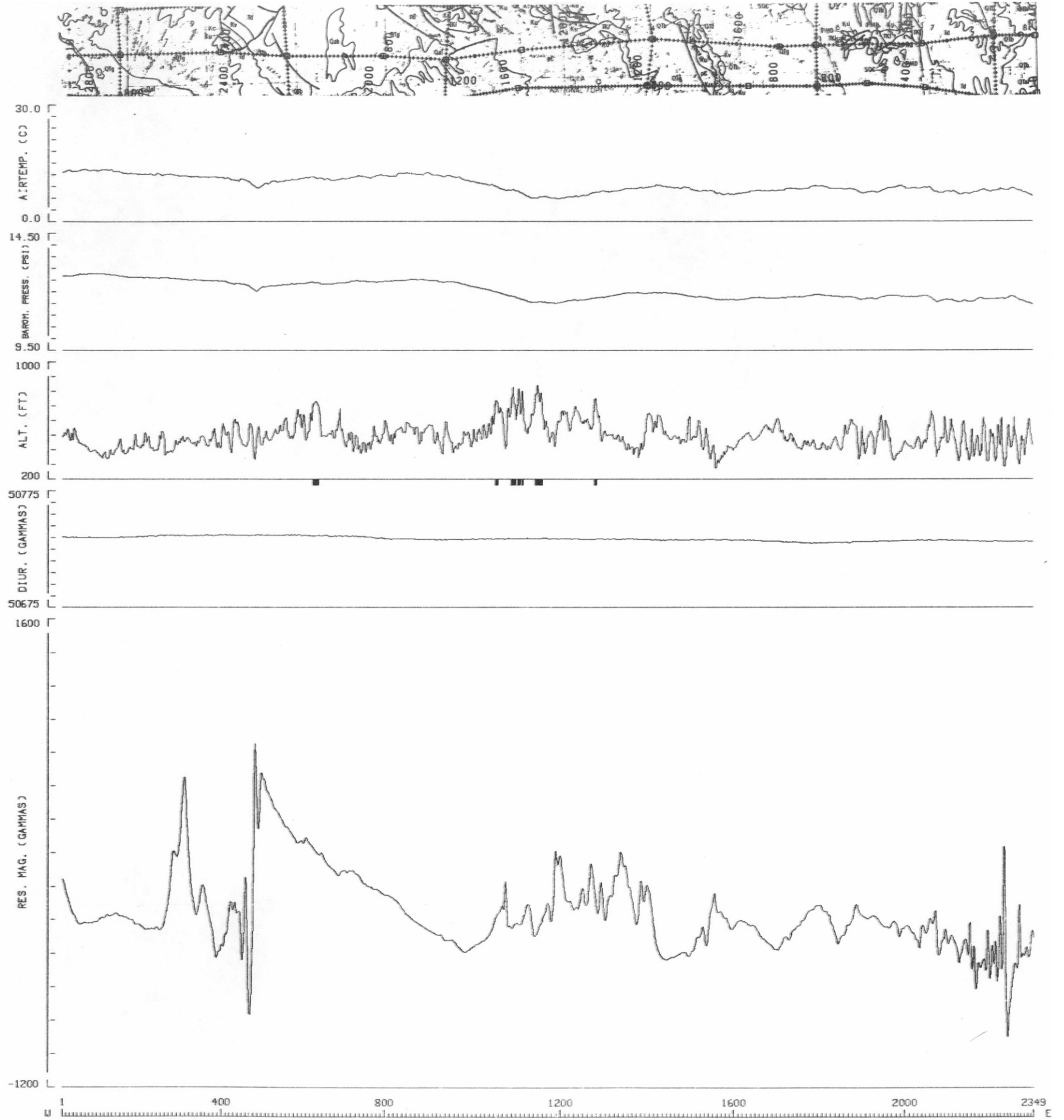
UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-006 SILVER CITY NI12-12

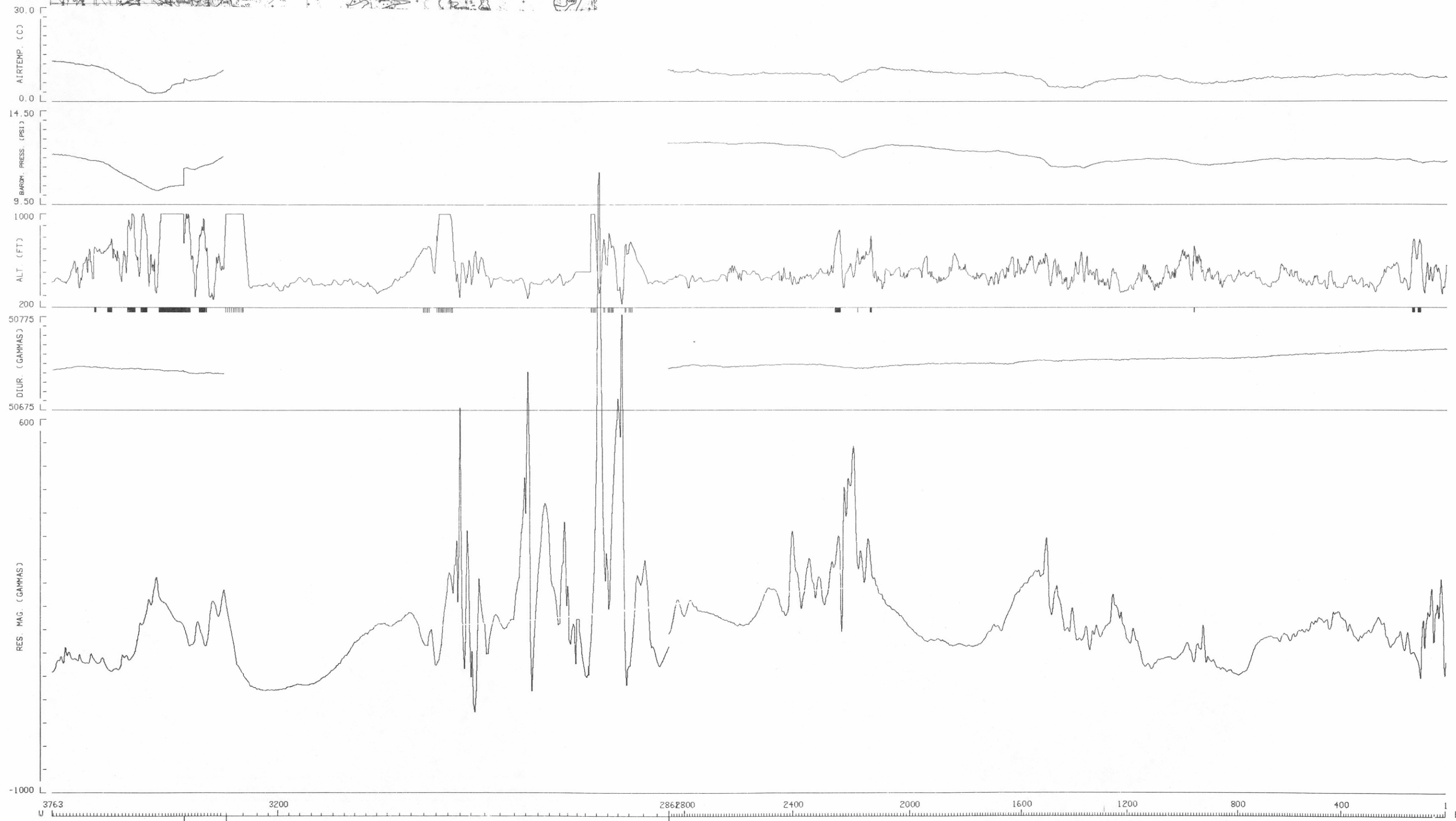
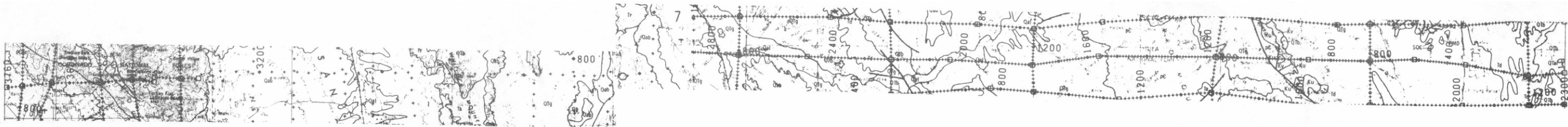
3 MILE(S)



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-007 SILVER CITY NI12-12

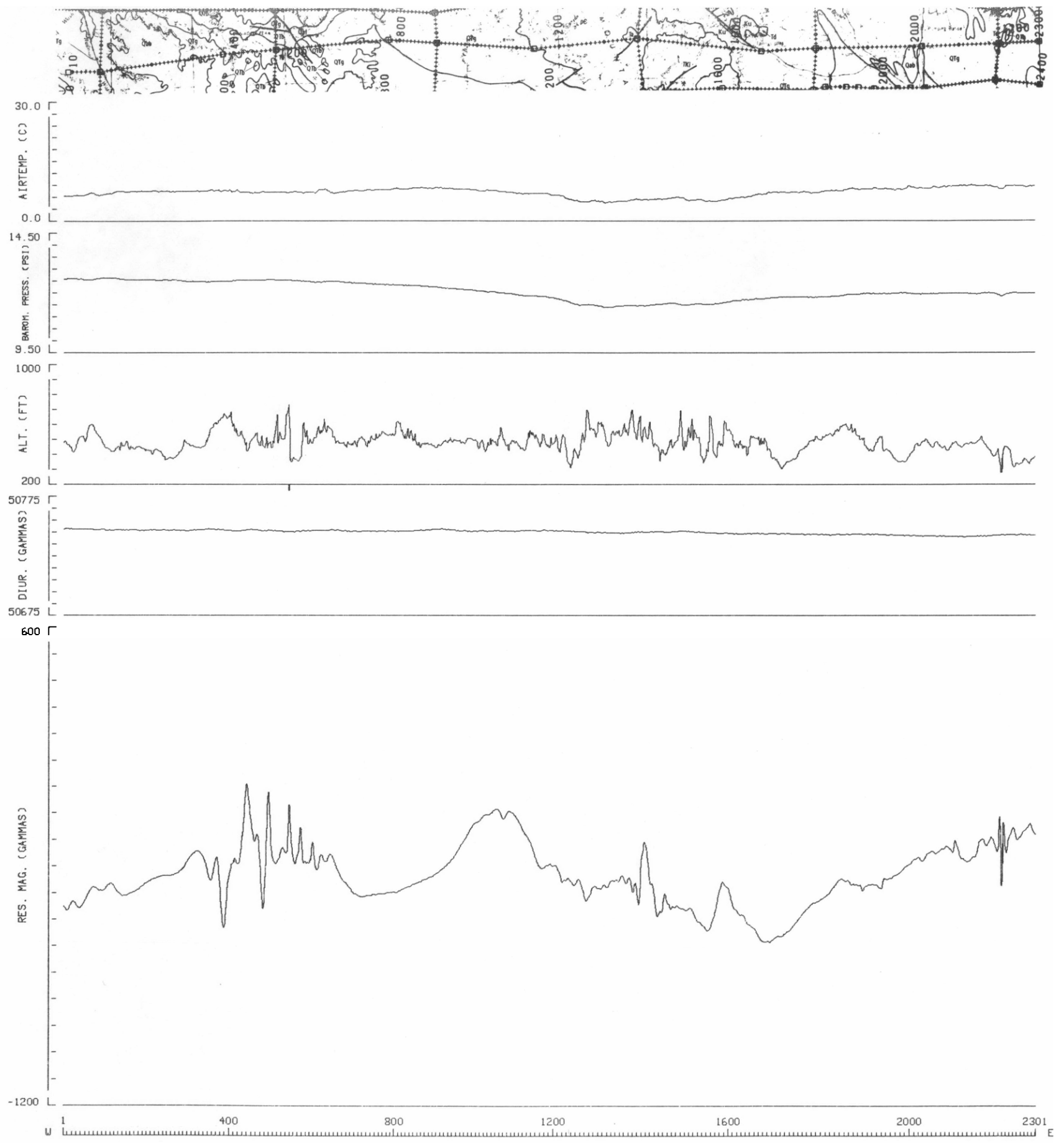
3 MILES





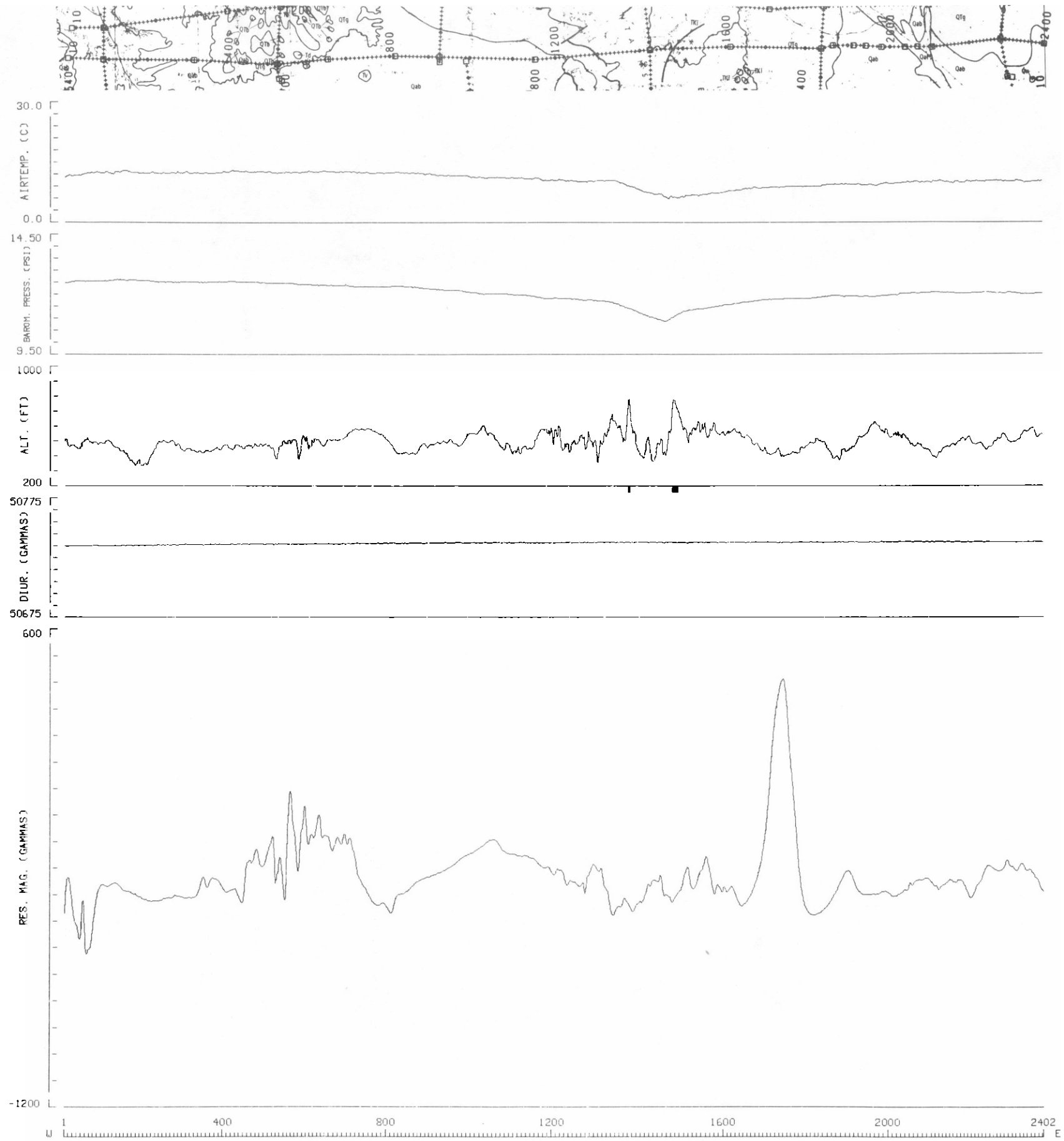
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-009 SILVER CITY NI12-12

3 MILE(S)



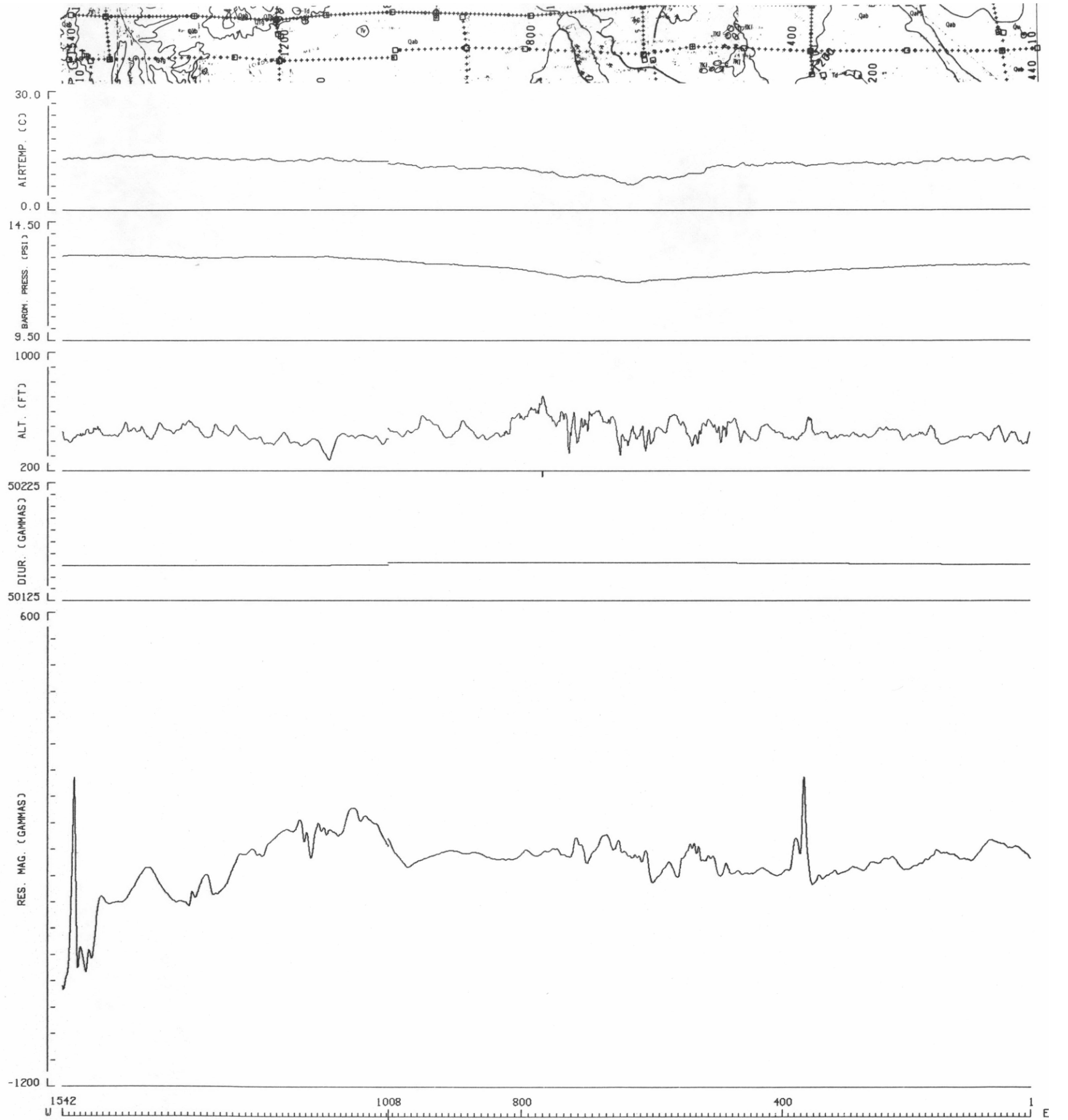
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-010 SILVER CITY NI12-12

3 MILE(S)



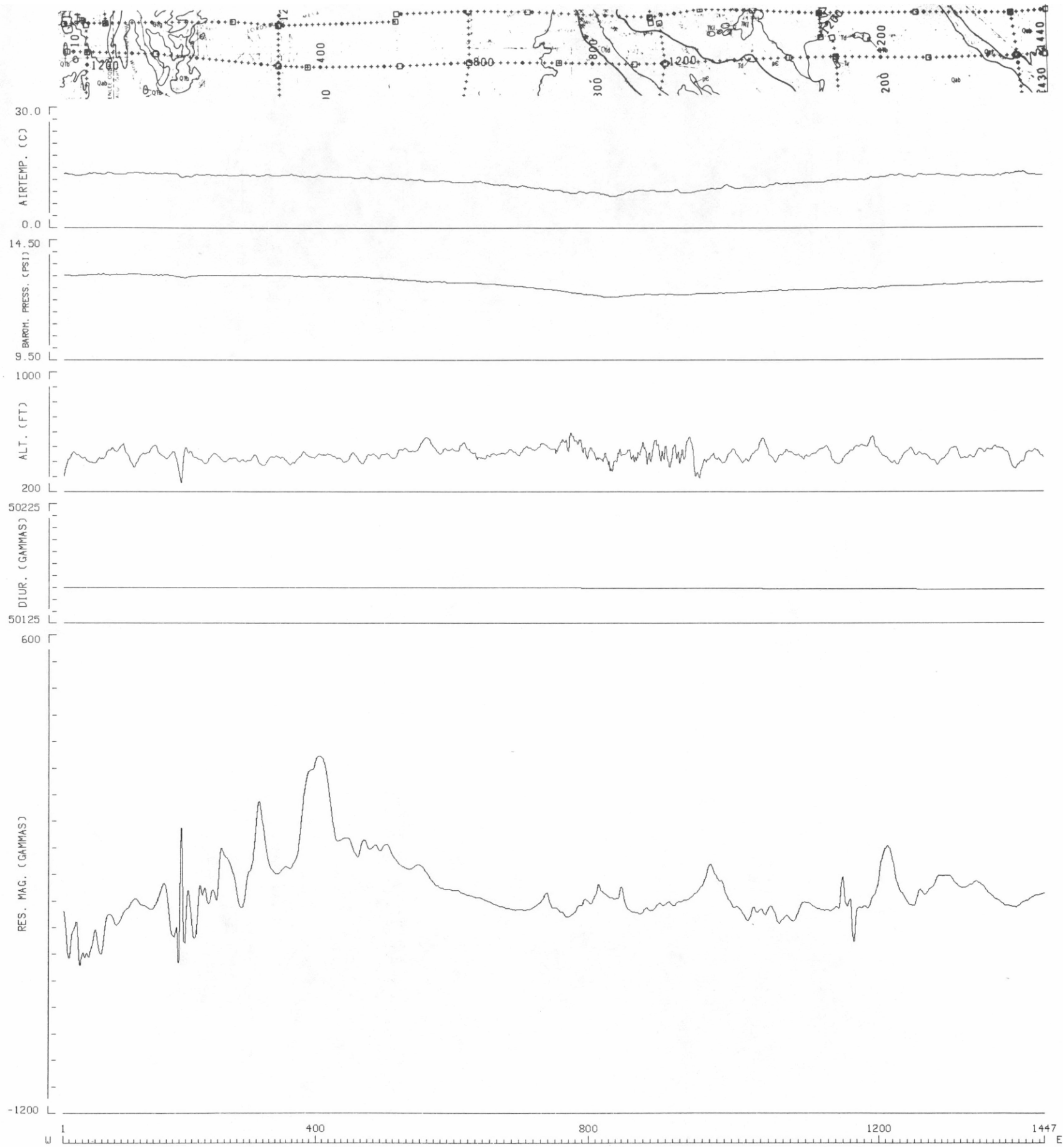
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-011 SILVER CITY NI12-12

3 MILE(S)



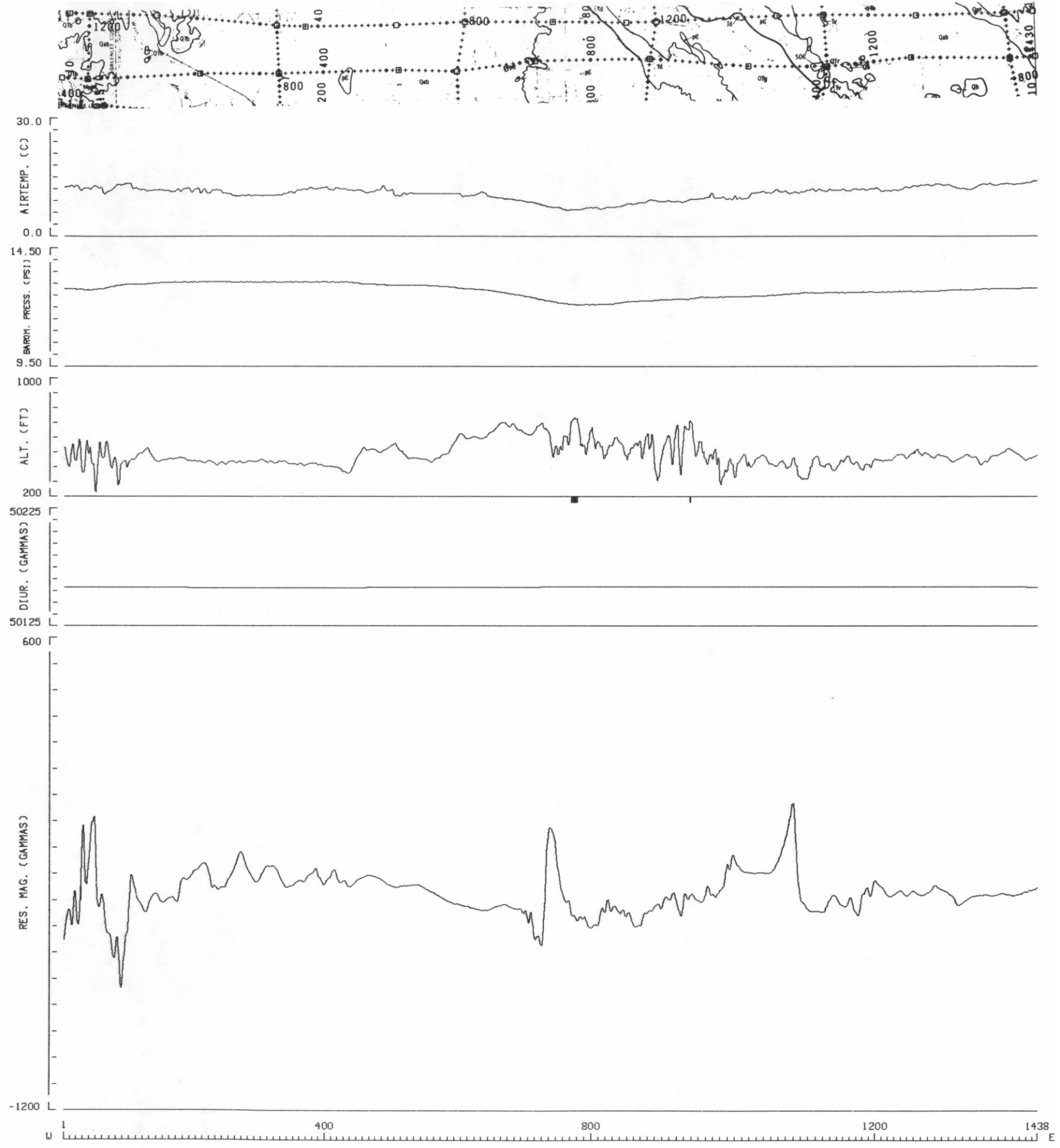
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-012 SILVER CITY NI12-12

3 MILE(S)



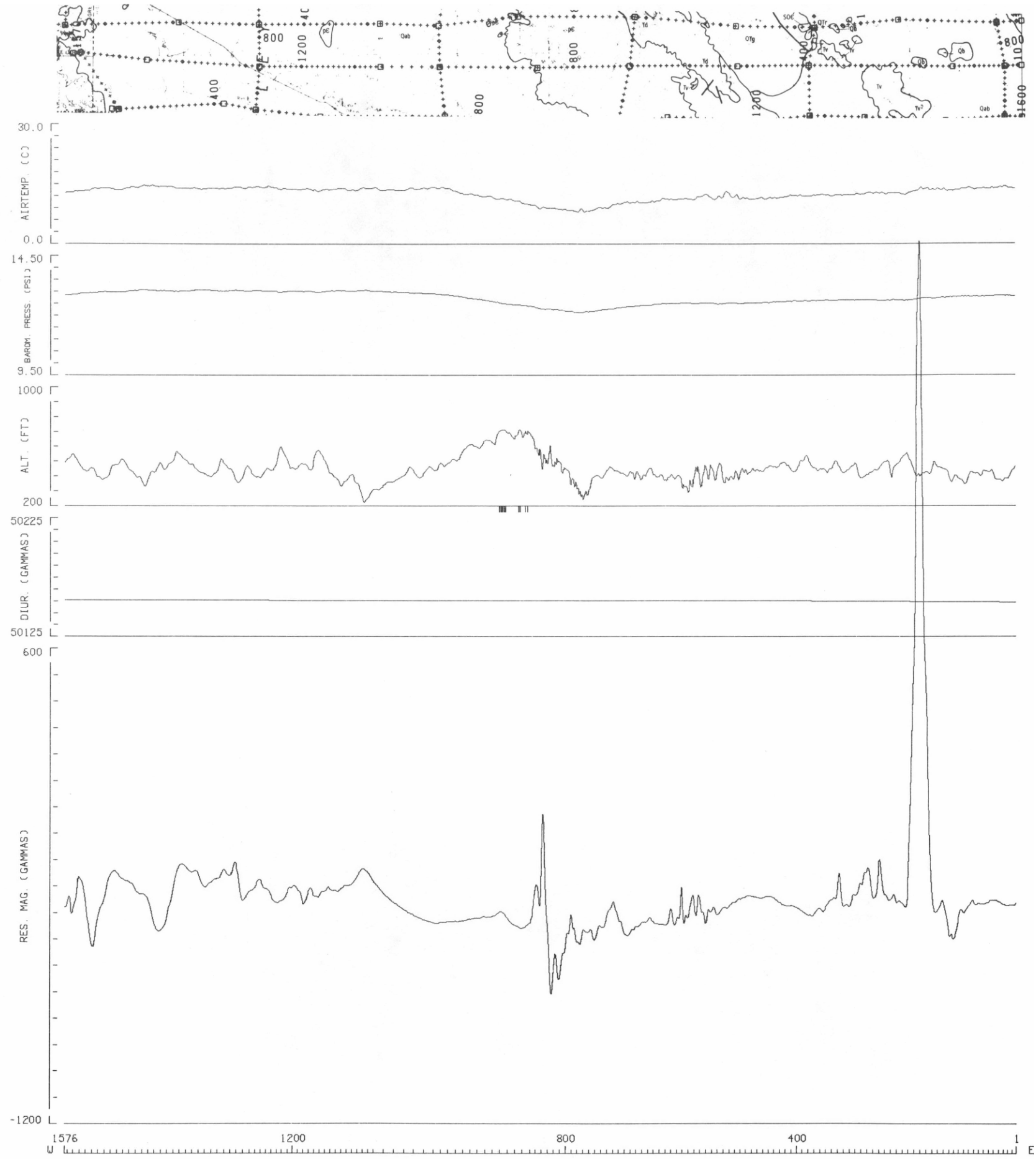
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-013 SILVER CITY NI12-12

3 MILE(S)



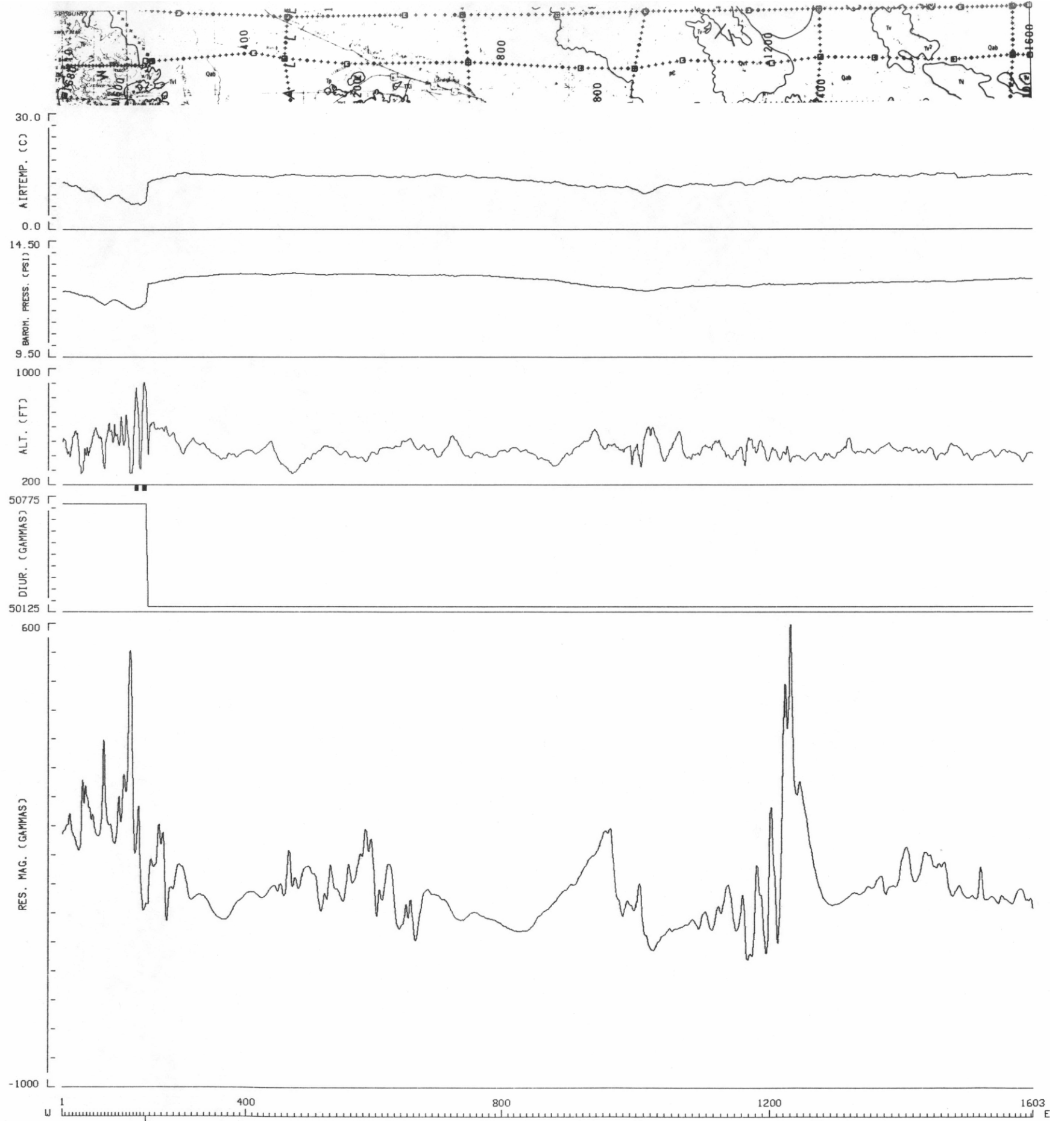
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-014 SILVER CITY NI12-12

3 MILES



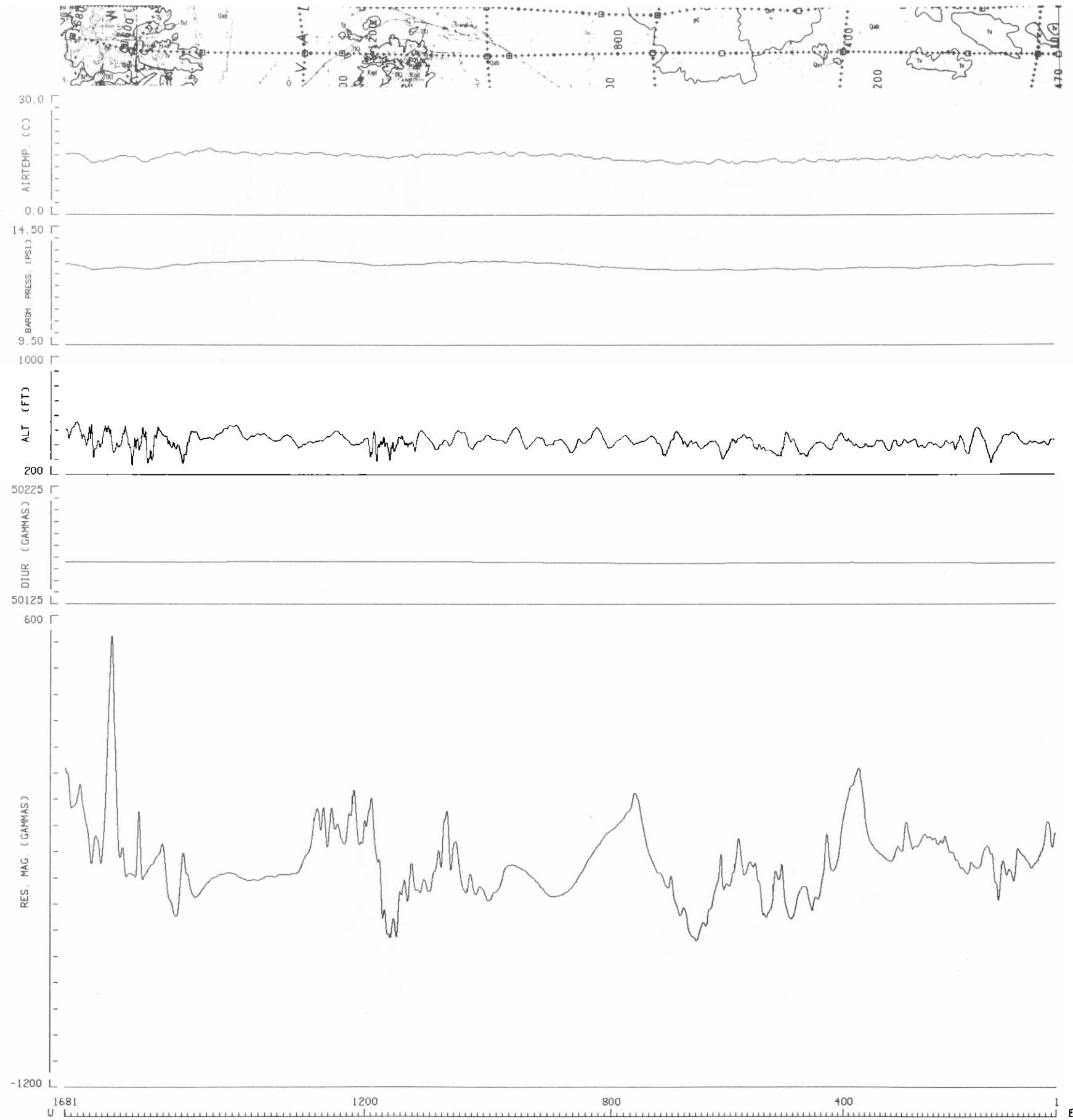
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-015 SILVER CITY NI12-12

3 MILES



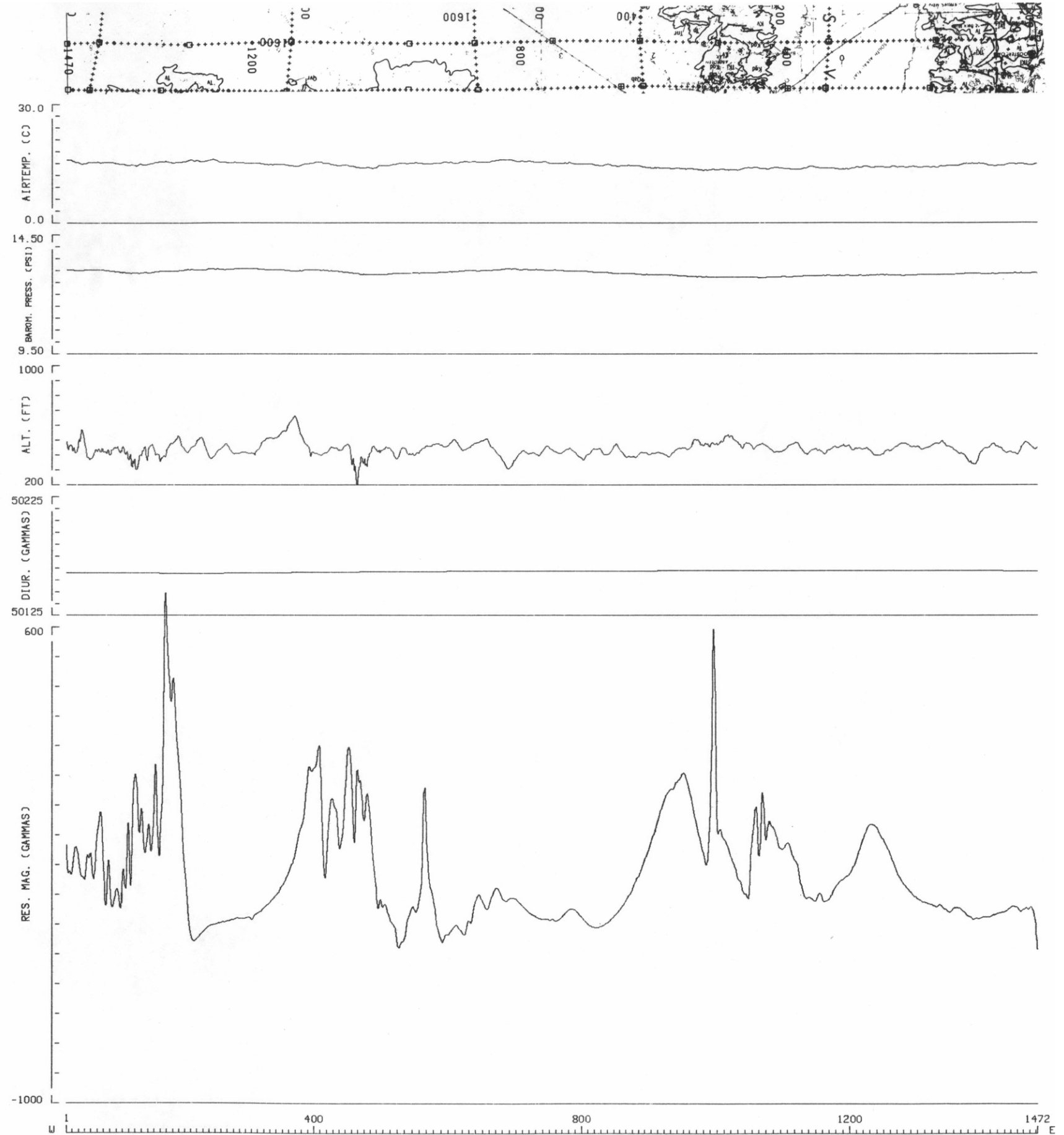
UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-016 SILVER CITY NI12-12

3 MILE(S)



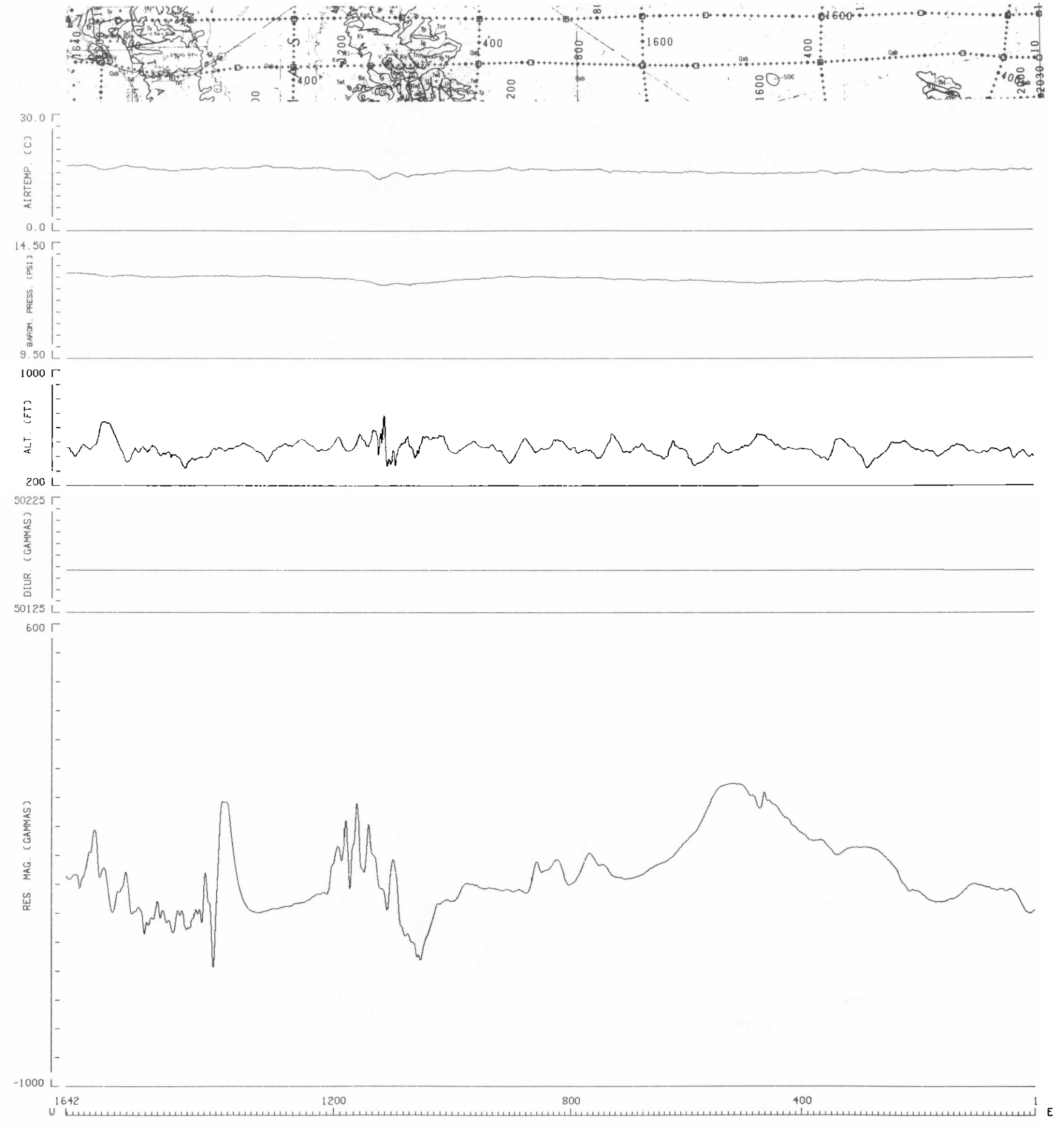
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-017 SILVER CITY NI12-12

3 MILE(S)

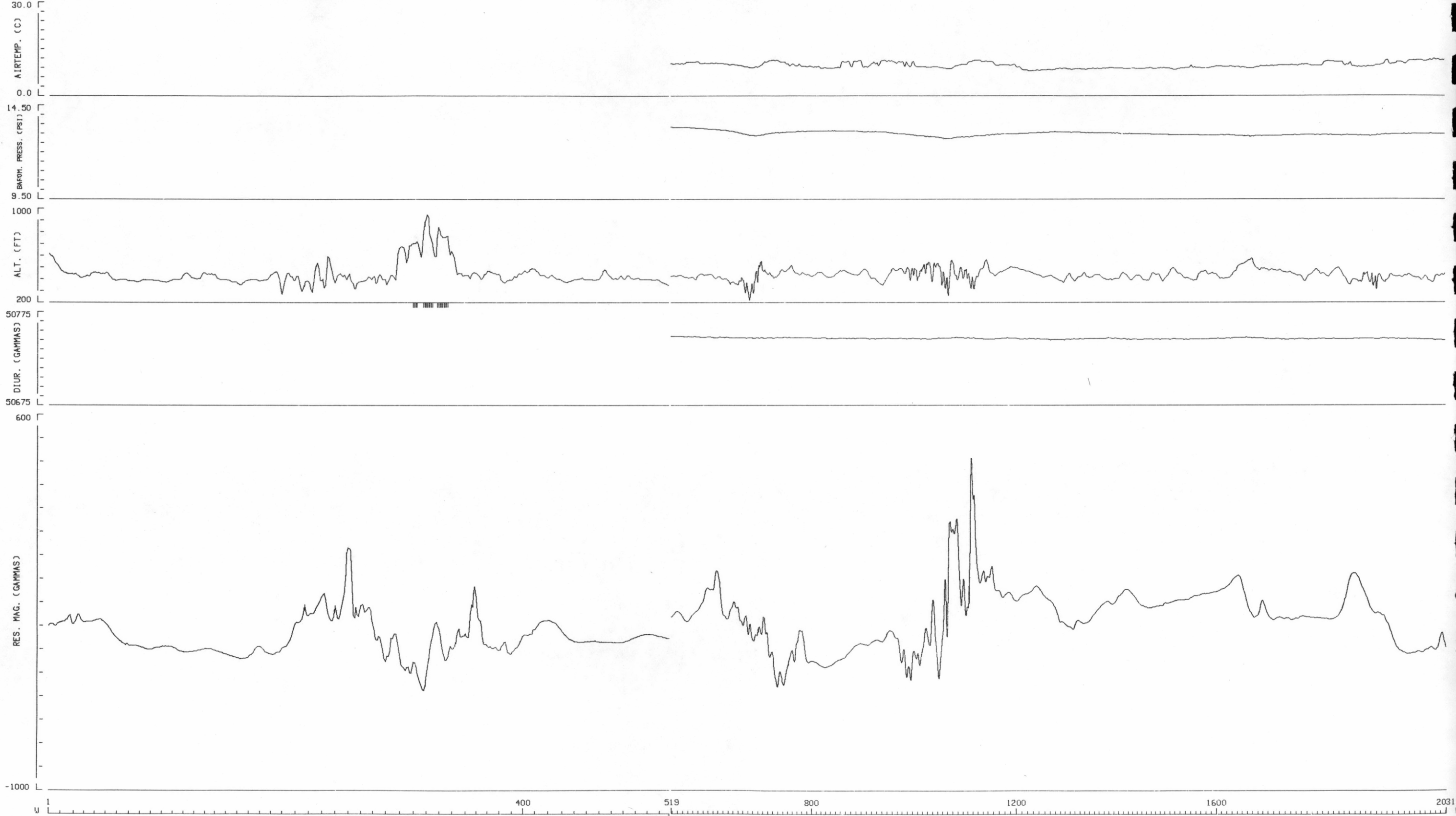
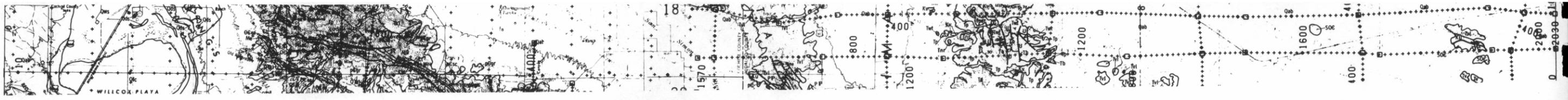


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-018 SILVER CITY NI12-12

3 MILE(S)



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-019 SILVER CITY NI12-12

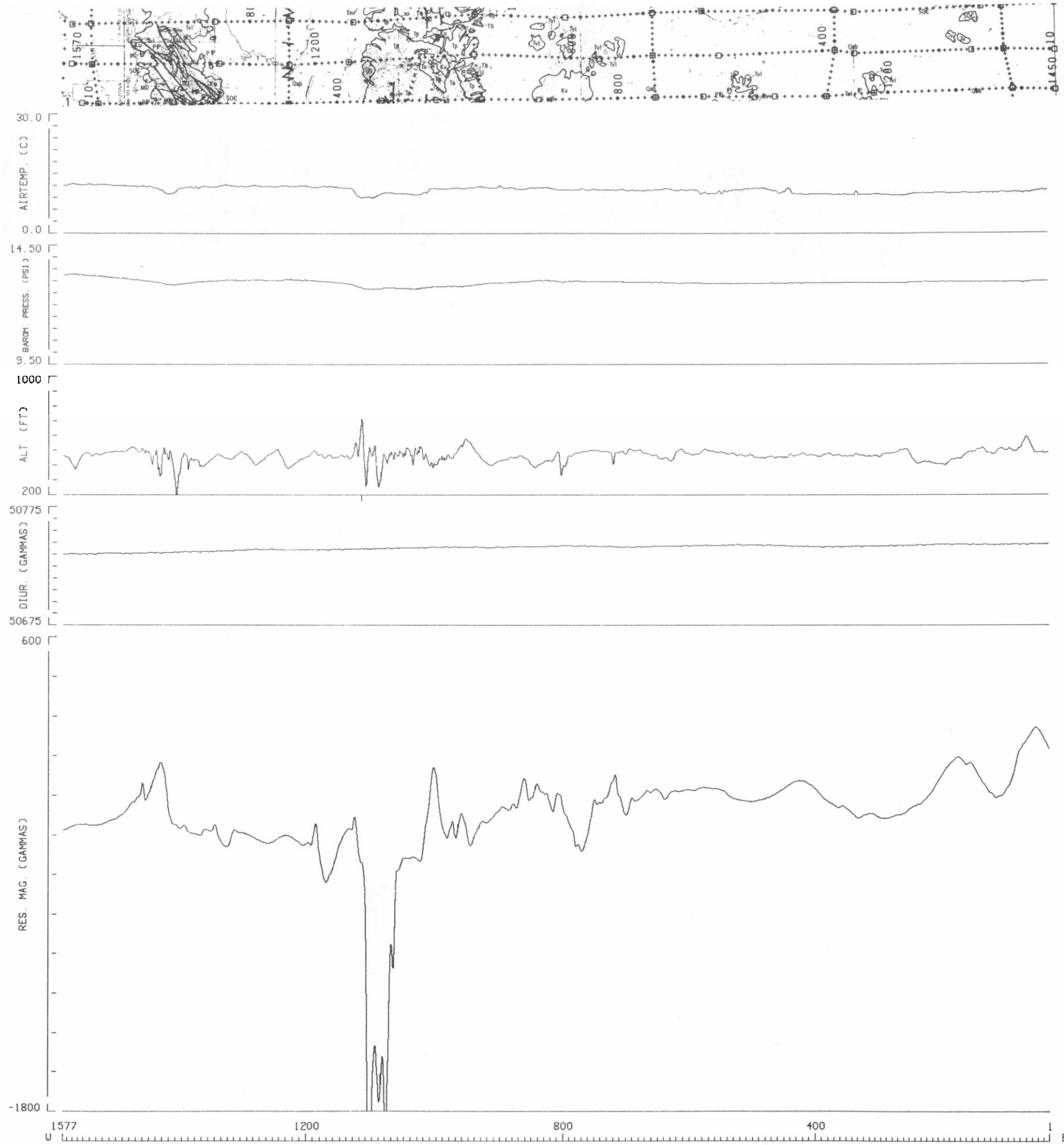


3 MILE(S)

P-66

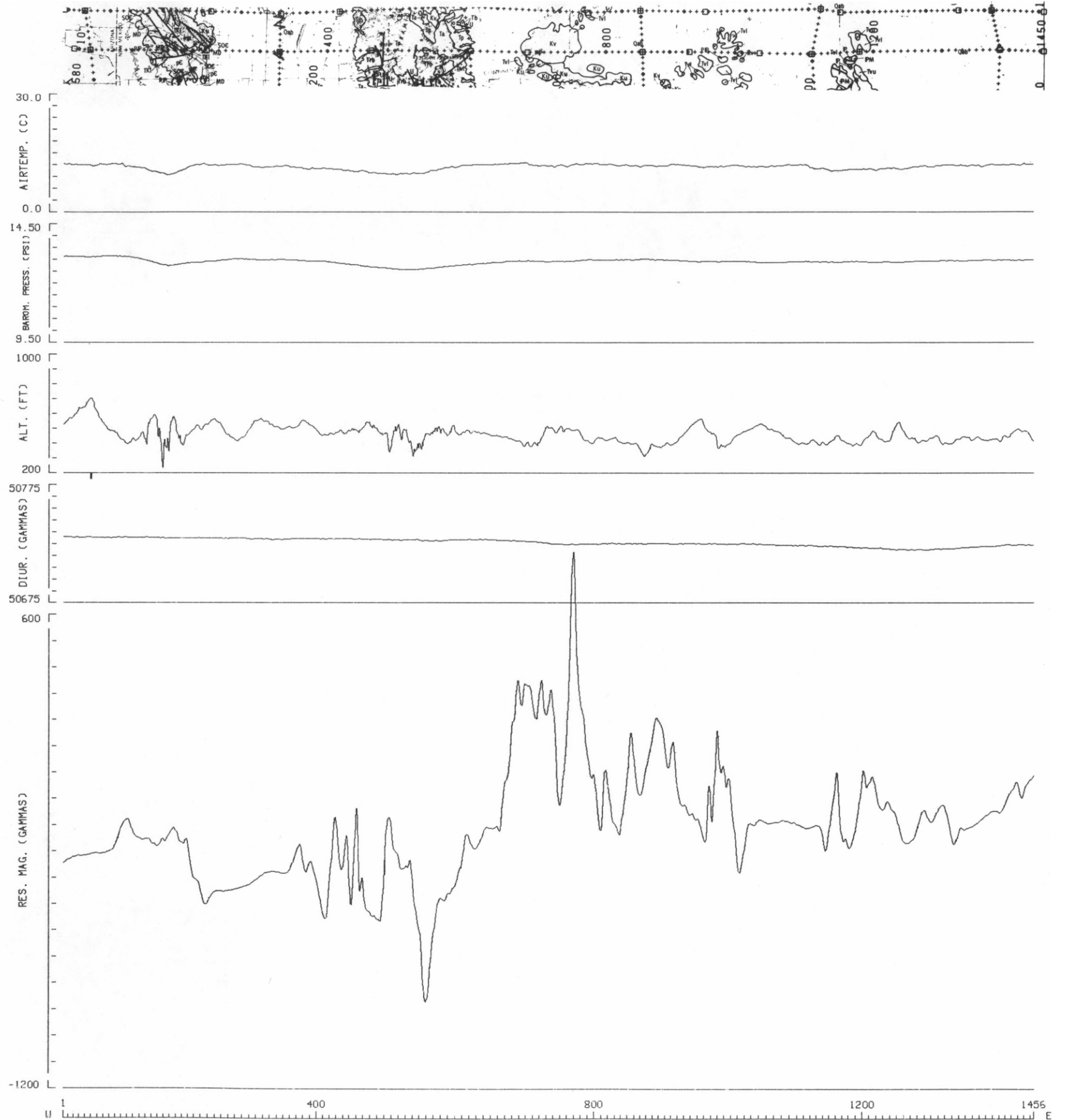
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-020 SILVER CITY NI12-12

3 MILE(S)



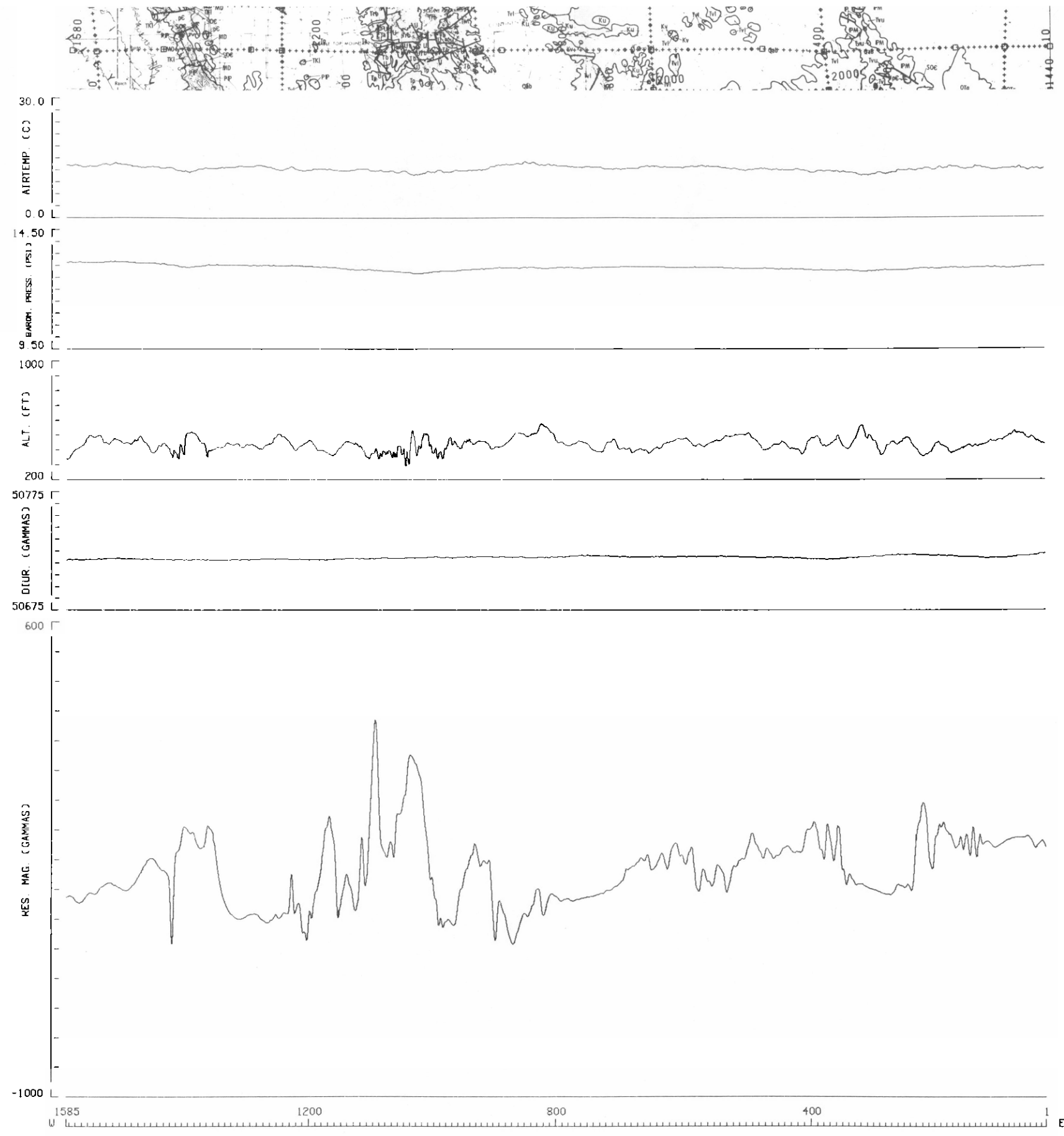
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-021 SILVER CITY NI12-12

3 MILE(S)



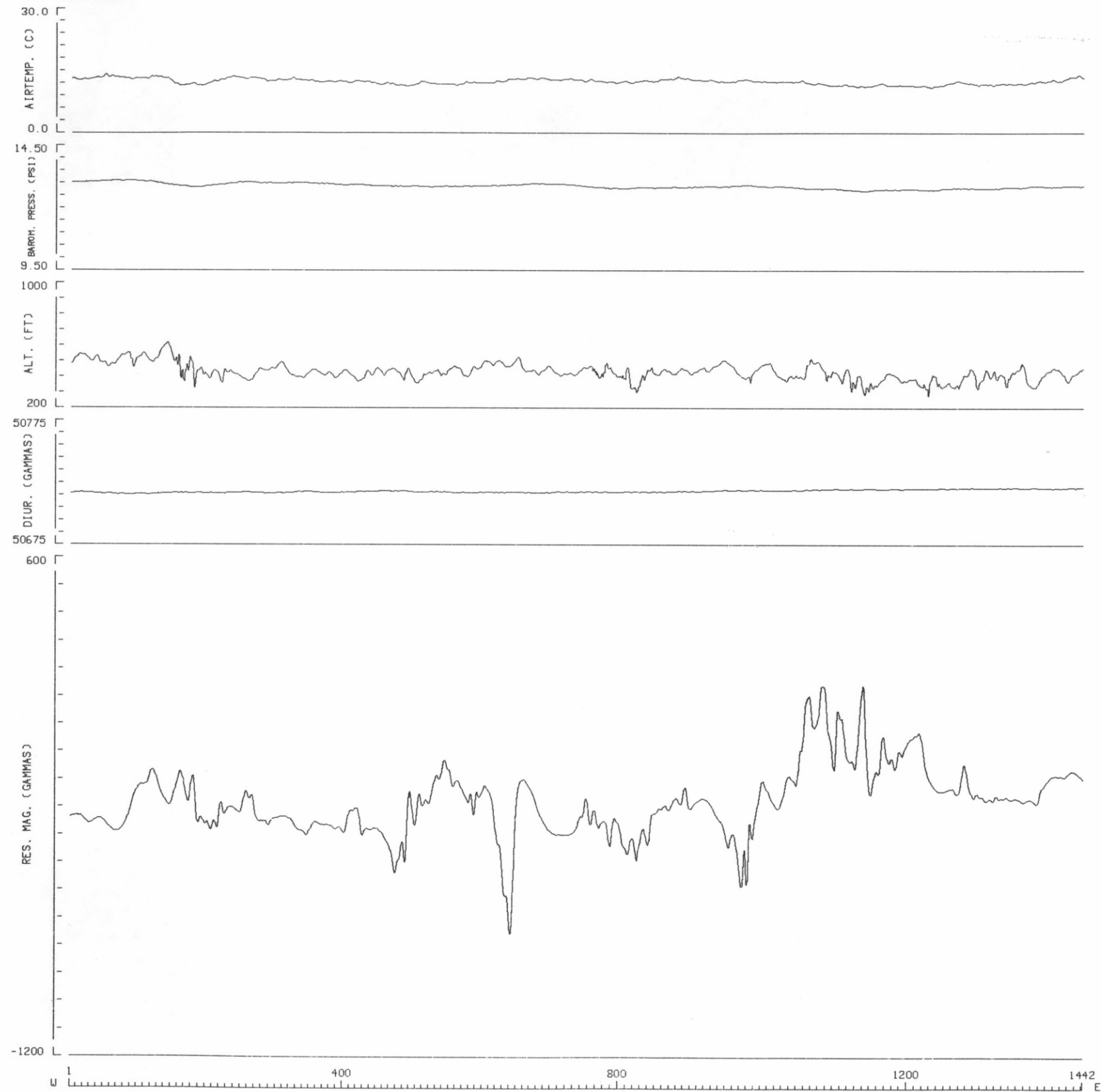
UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-022 SILVER CITY NI12-12

3 MILE(S)





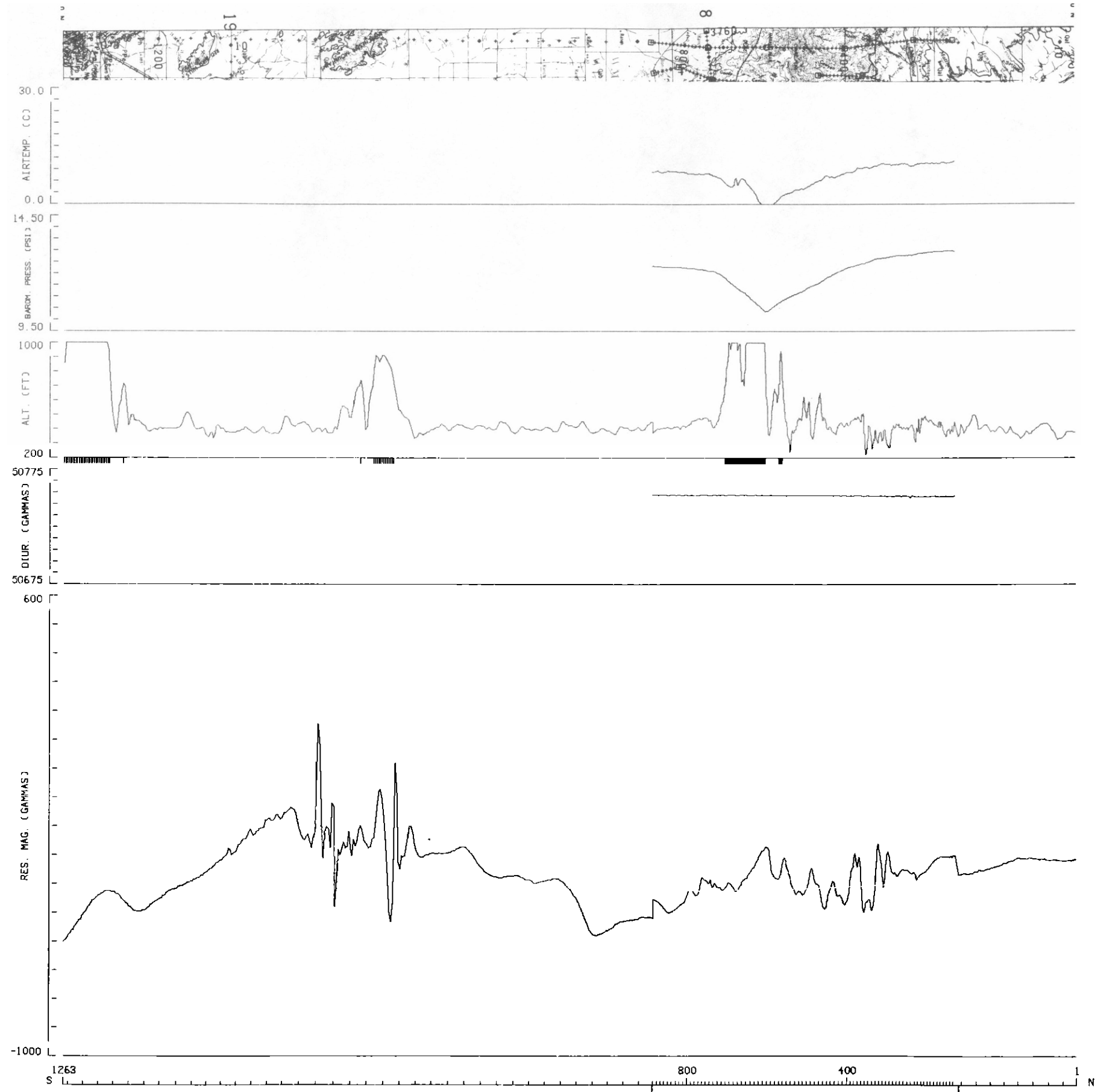
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
 FL-023 SILVER CITY NI12-12



3 MILE(S)

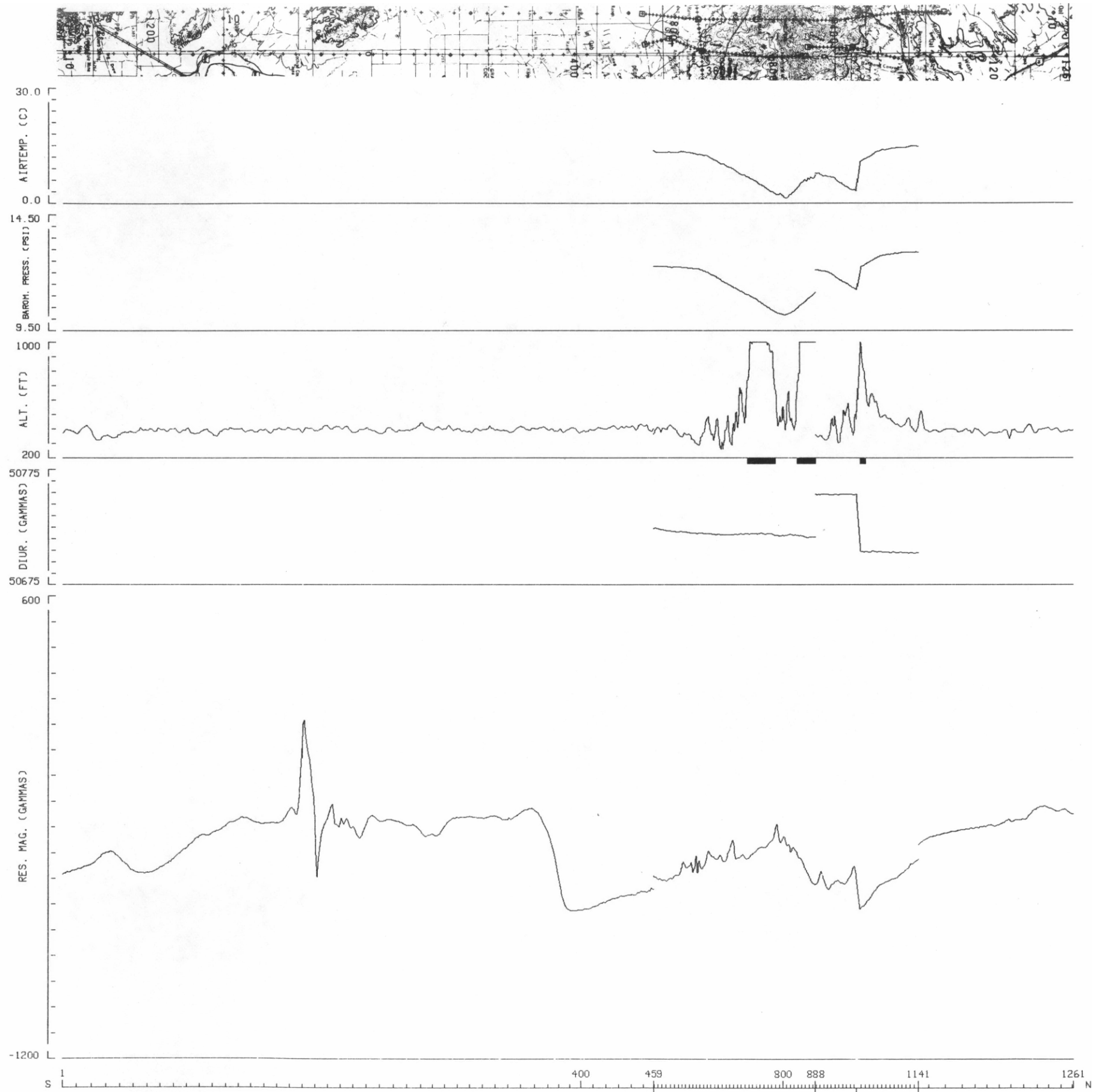
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-201 SILVER CITY NI12-12

3 MILE(S)



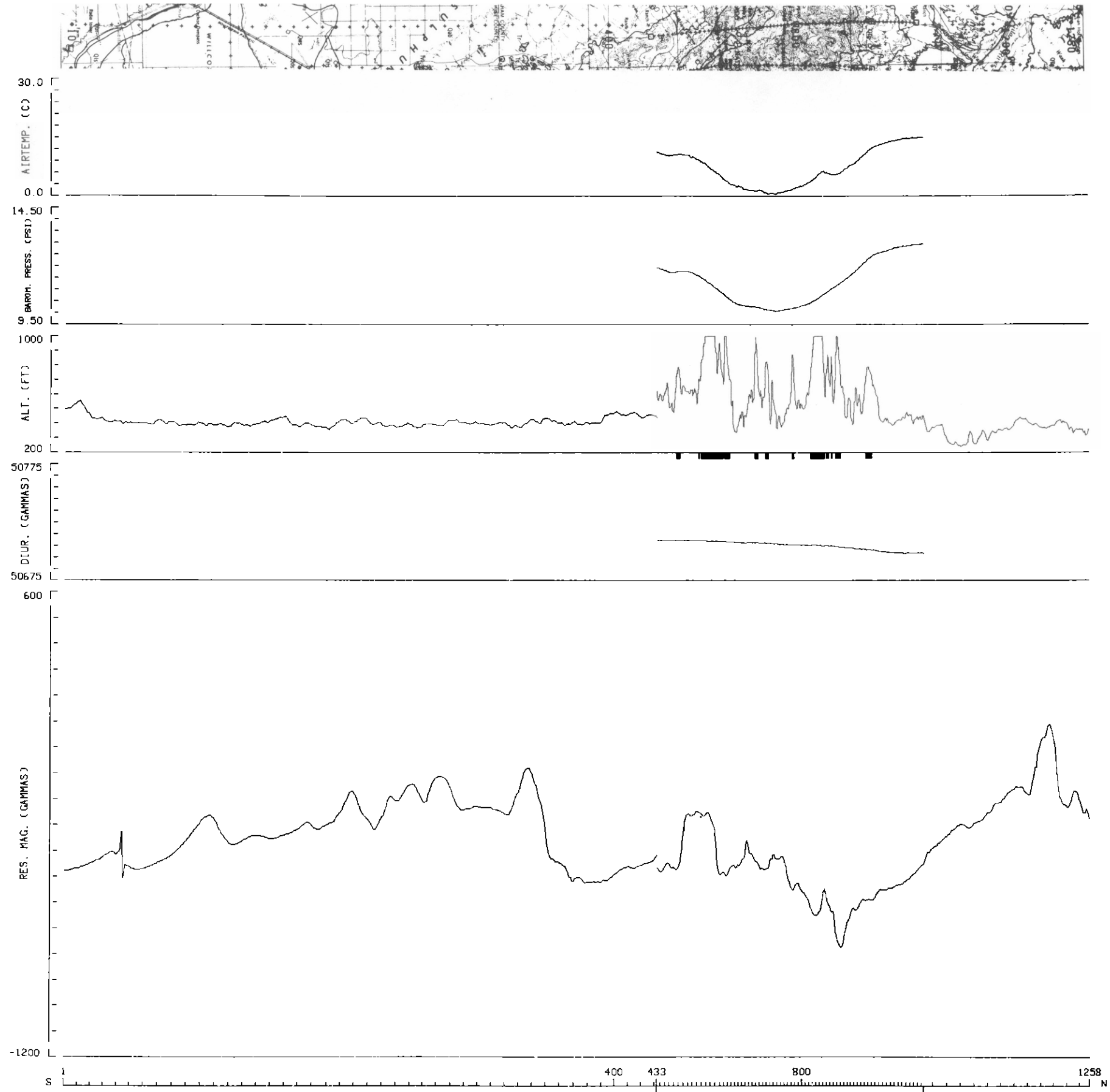
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-202 SILVER CITY NI12-12

3 MILE(S)



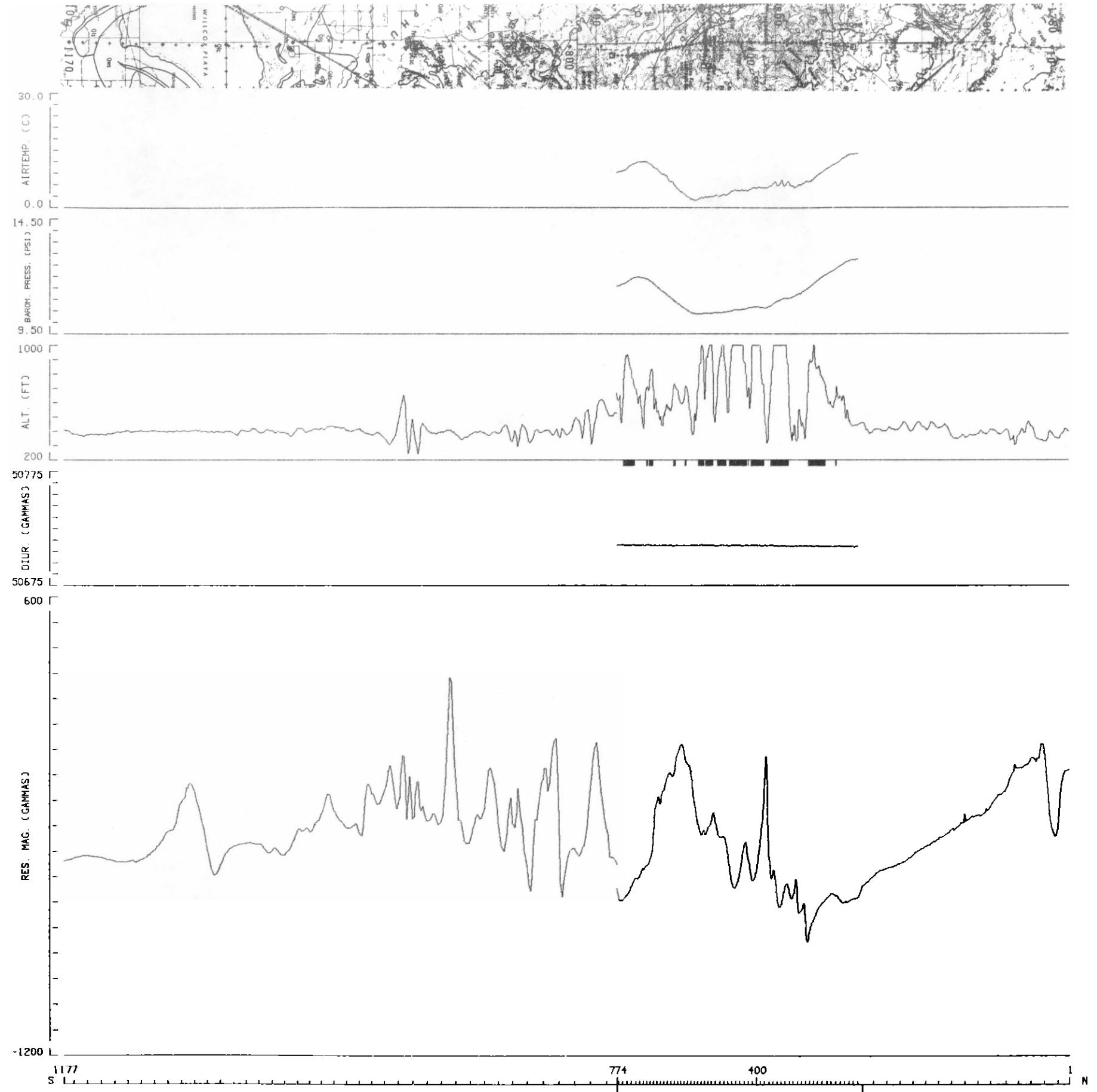
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-204 SILVER CITY NI12-12

3 MILES



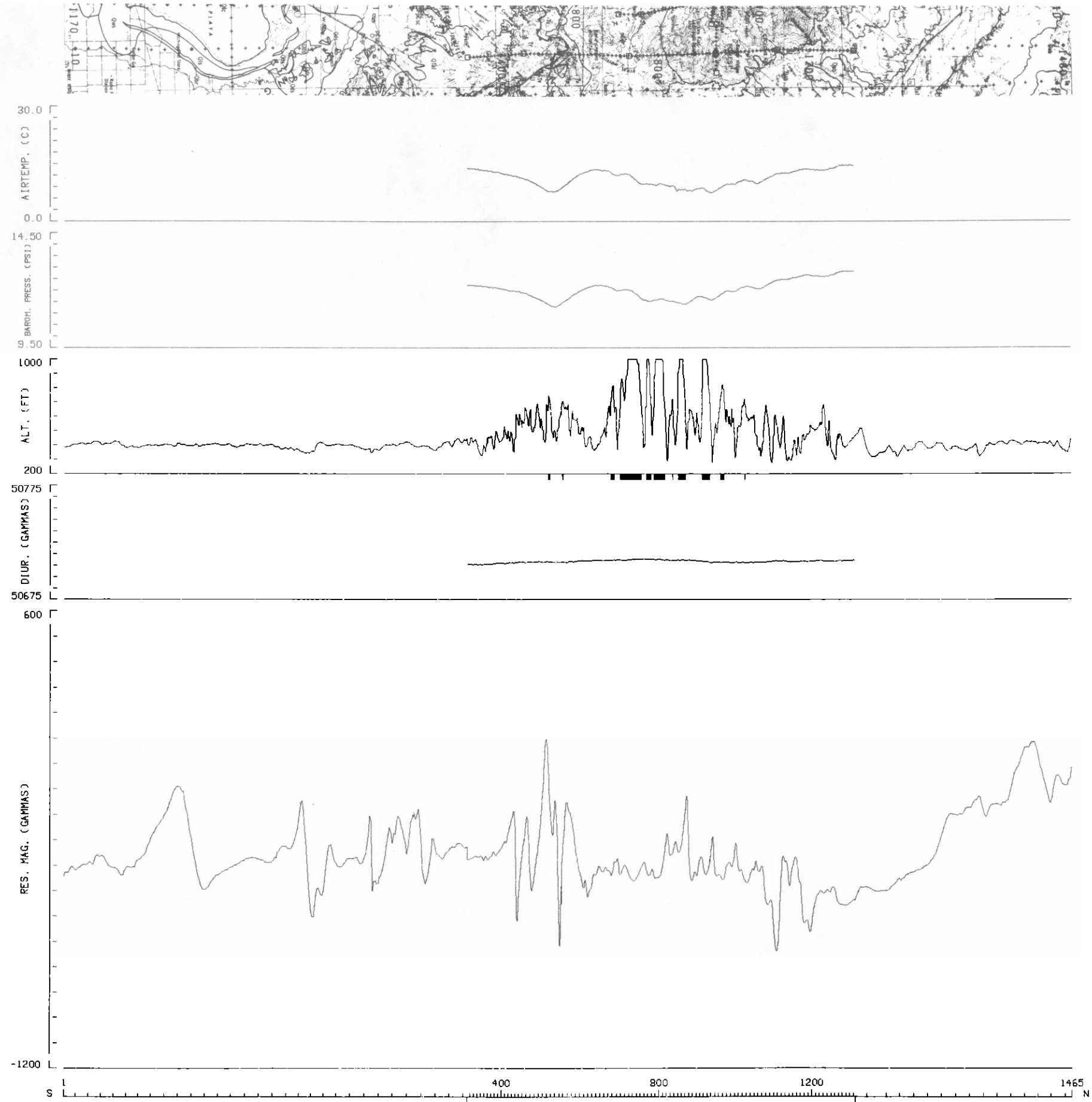
UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-205 SILVER CITY NI12-12

3 MILES



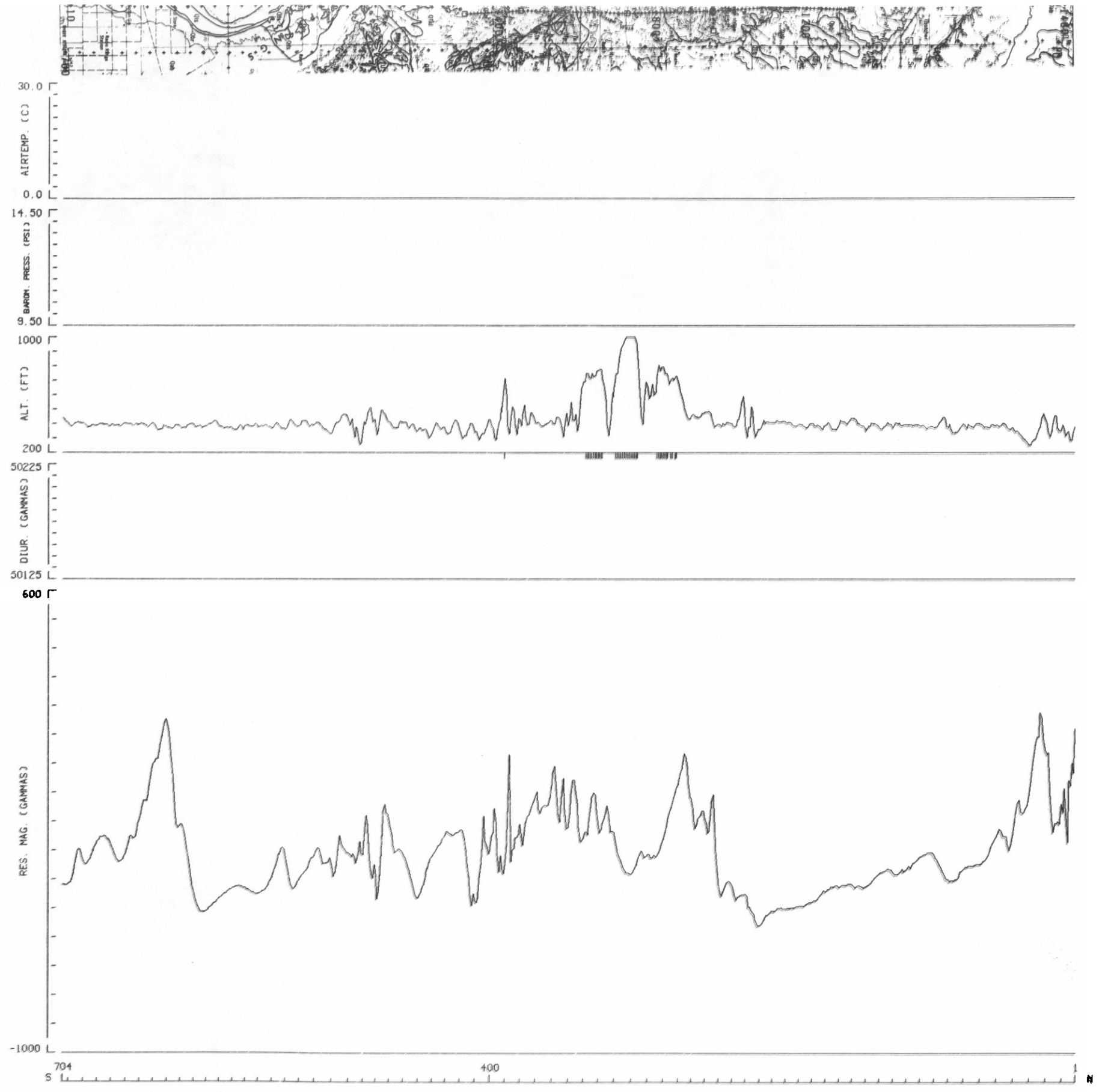
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-206 SILVER CITY NI12-12

3 MILES

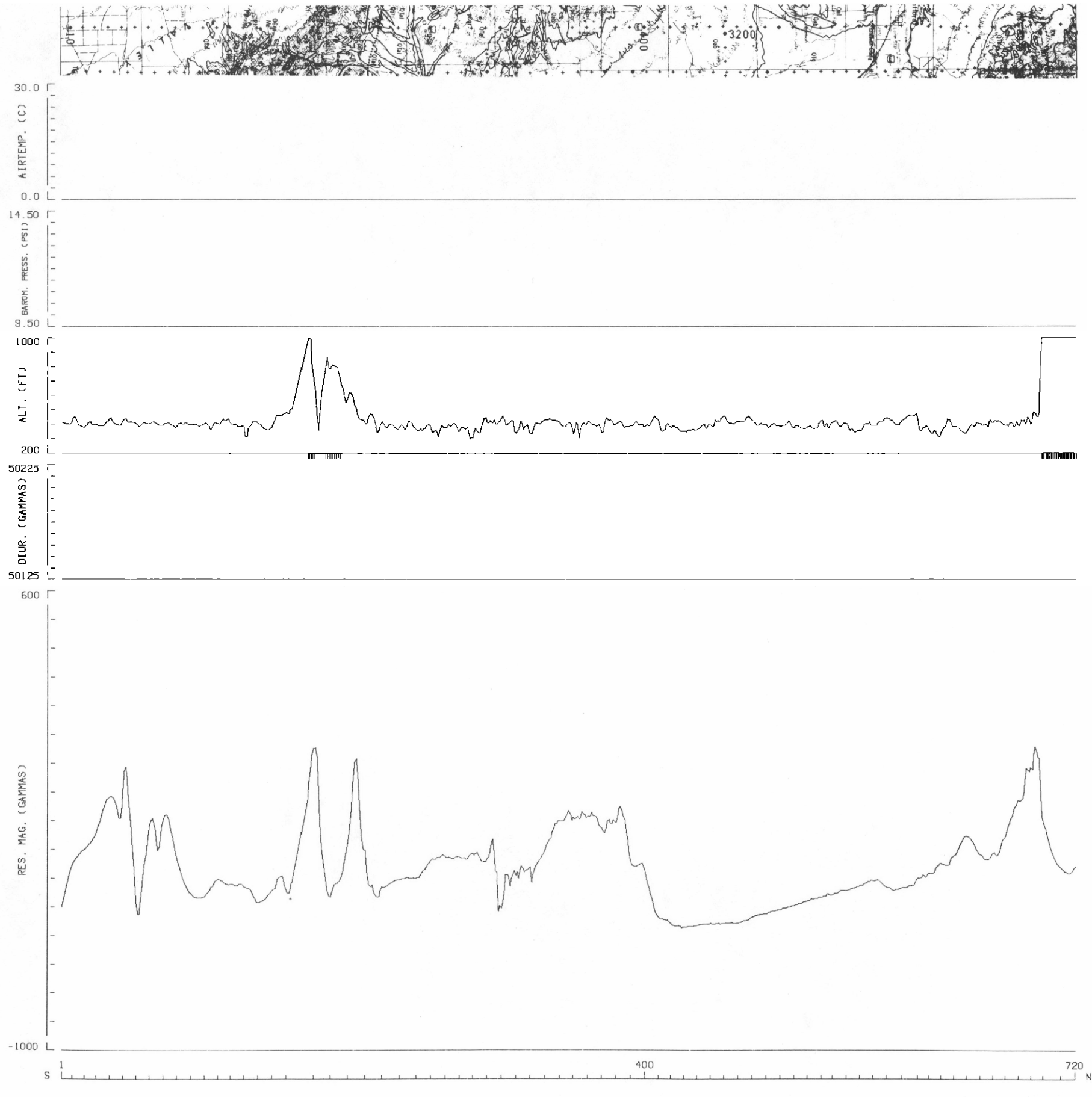


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-207 SILVER CITY NI12-12

3 MILES

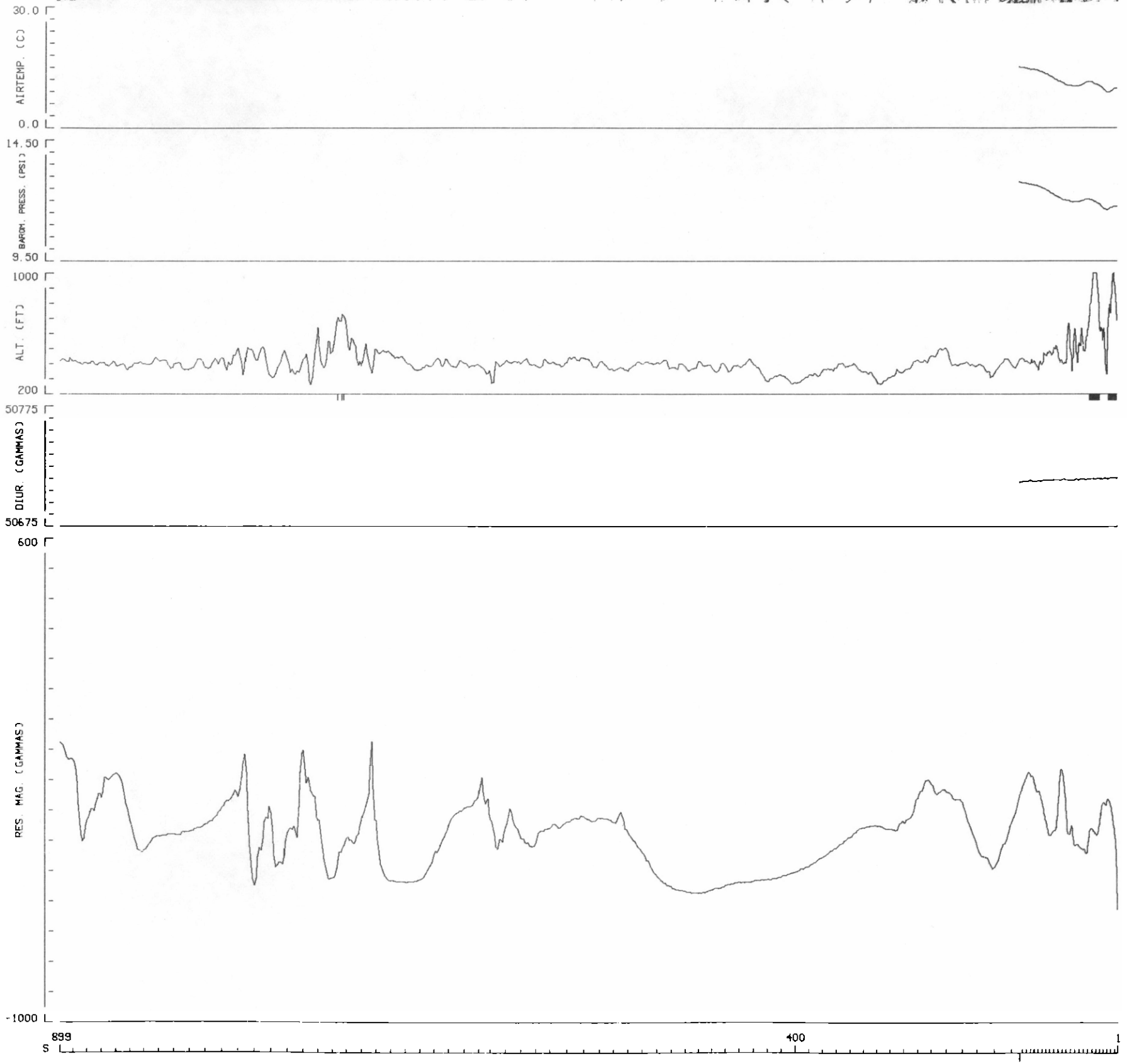


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-209 SILVER CITY NI12-12

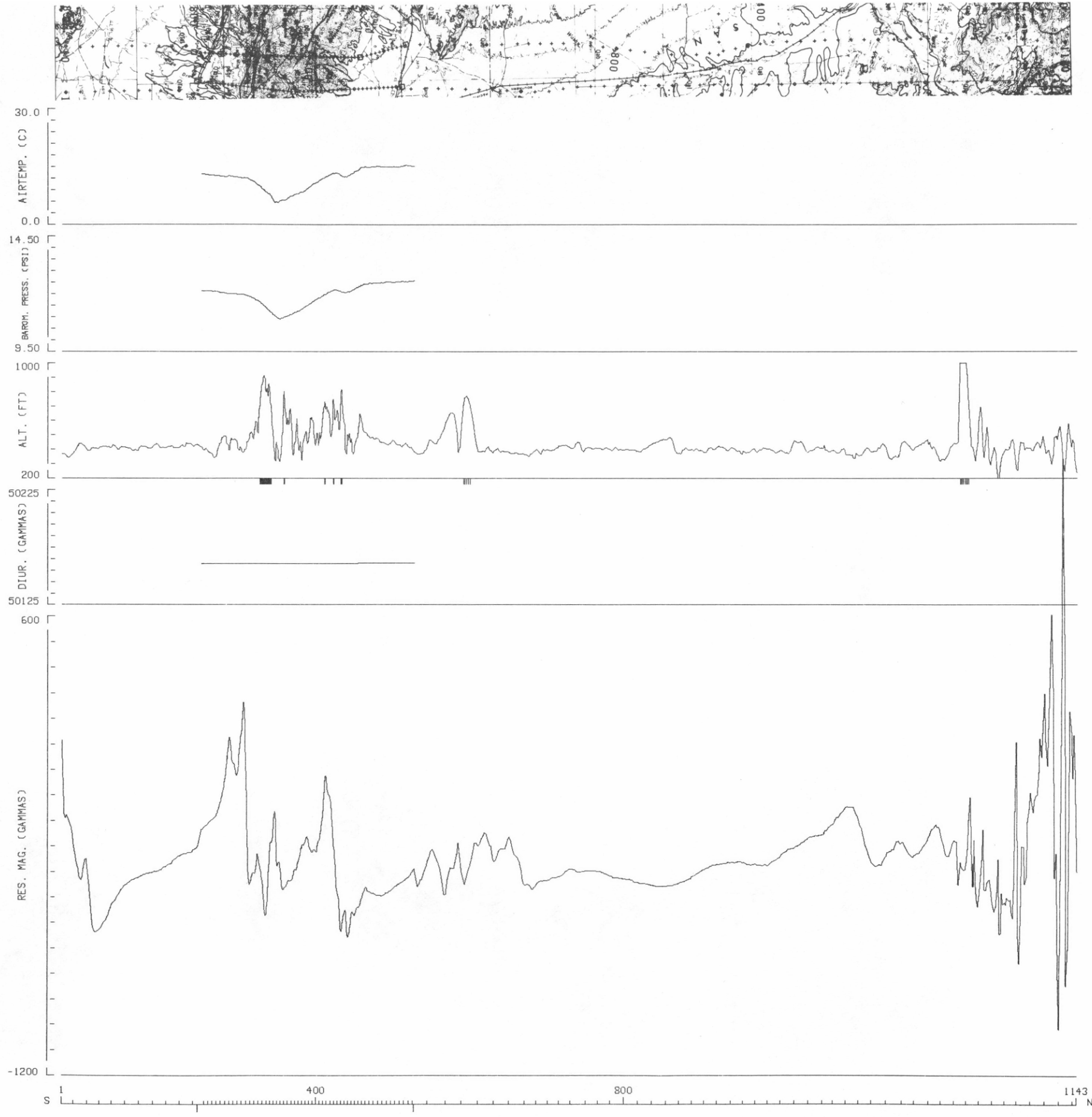


UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-210 SILVER CITY NI12-12

3 MILES

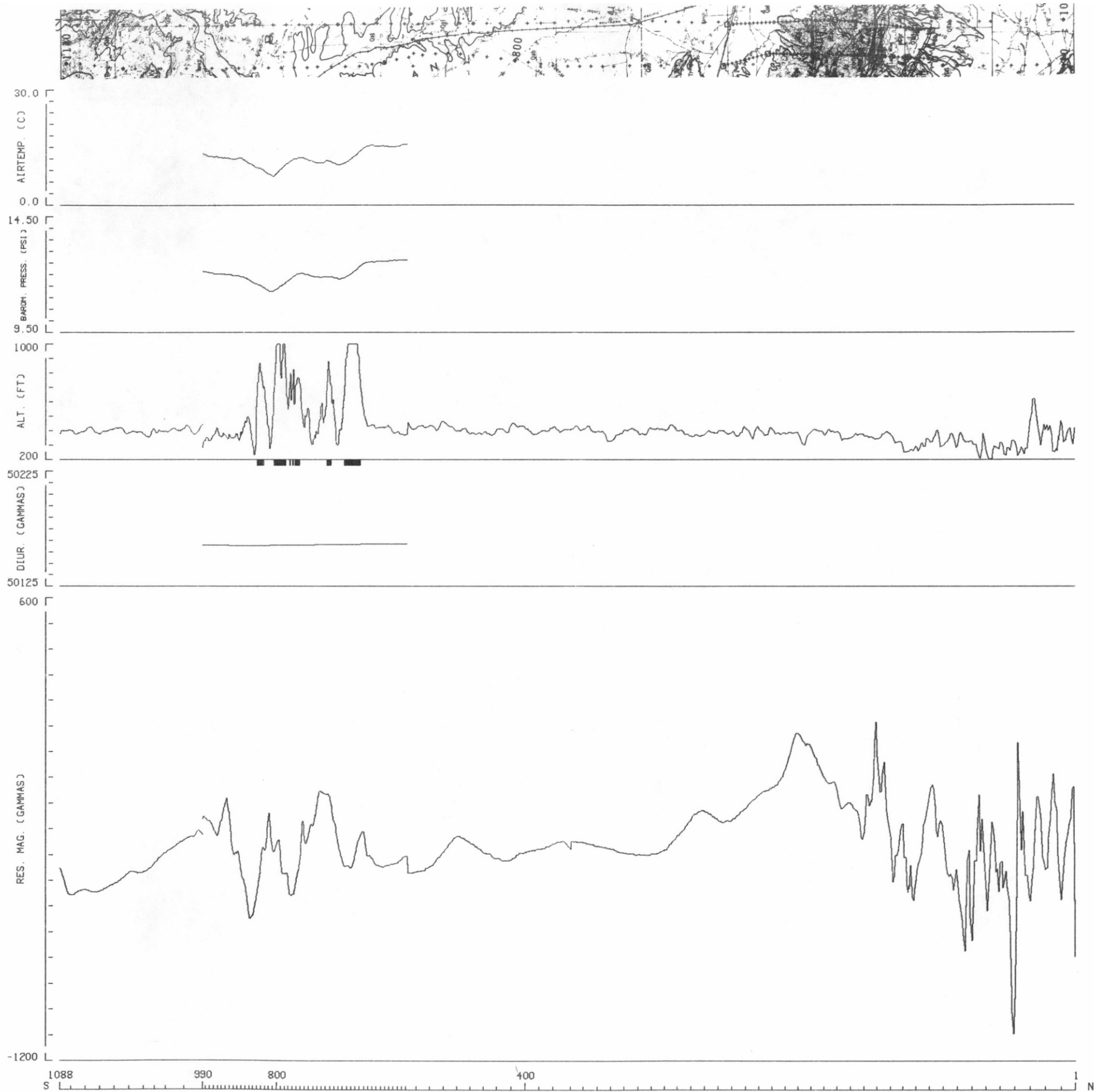


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-211 SILVER CITY NI12-12

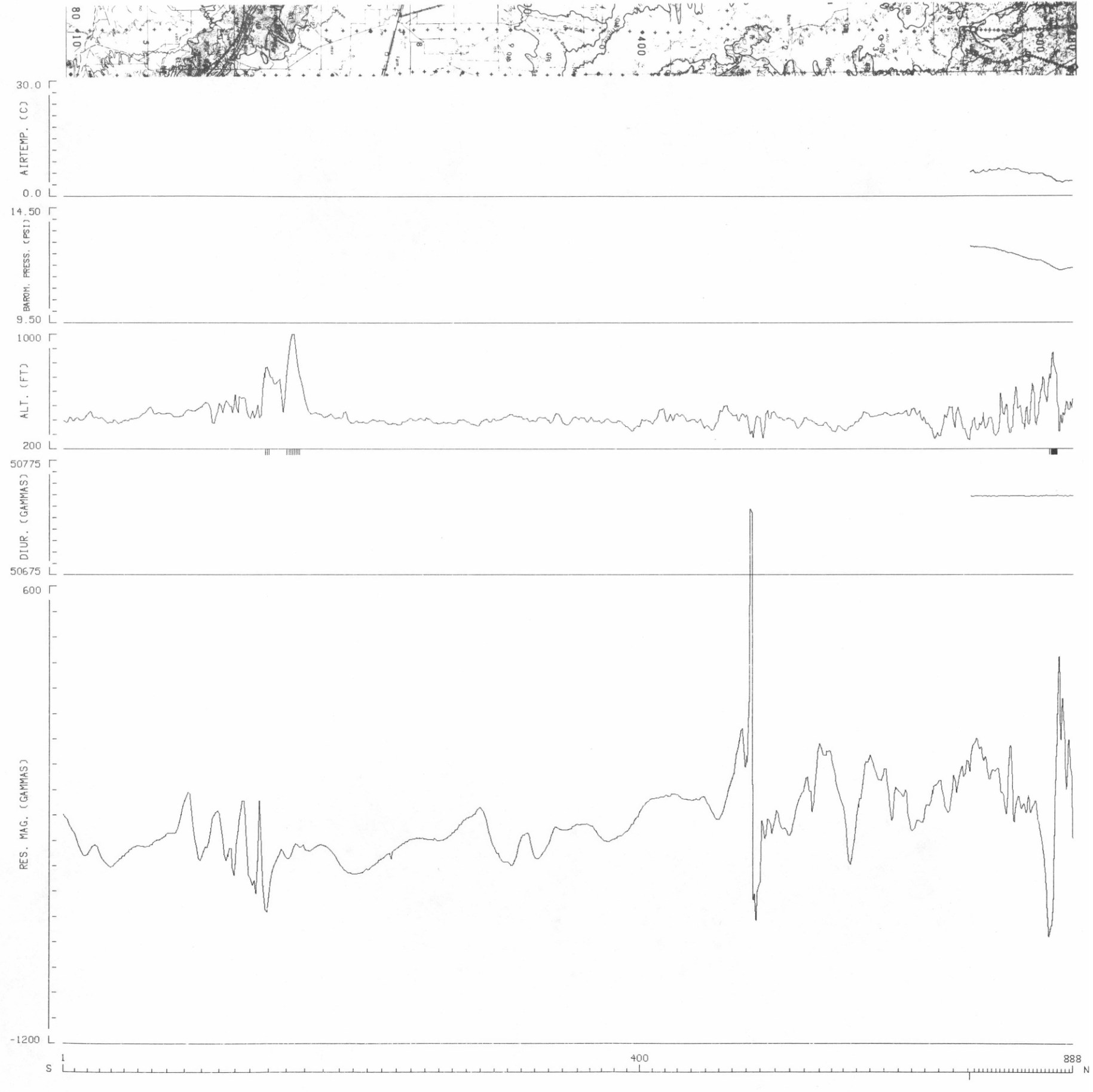


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-212 SILVER CITY NI12-12

3 MILES

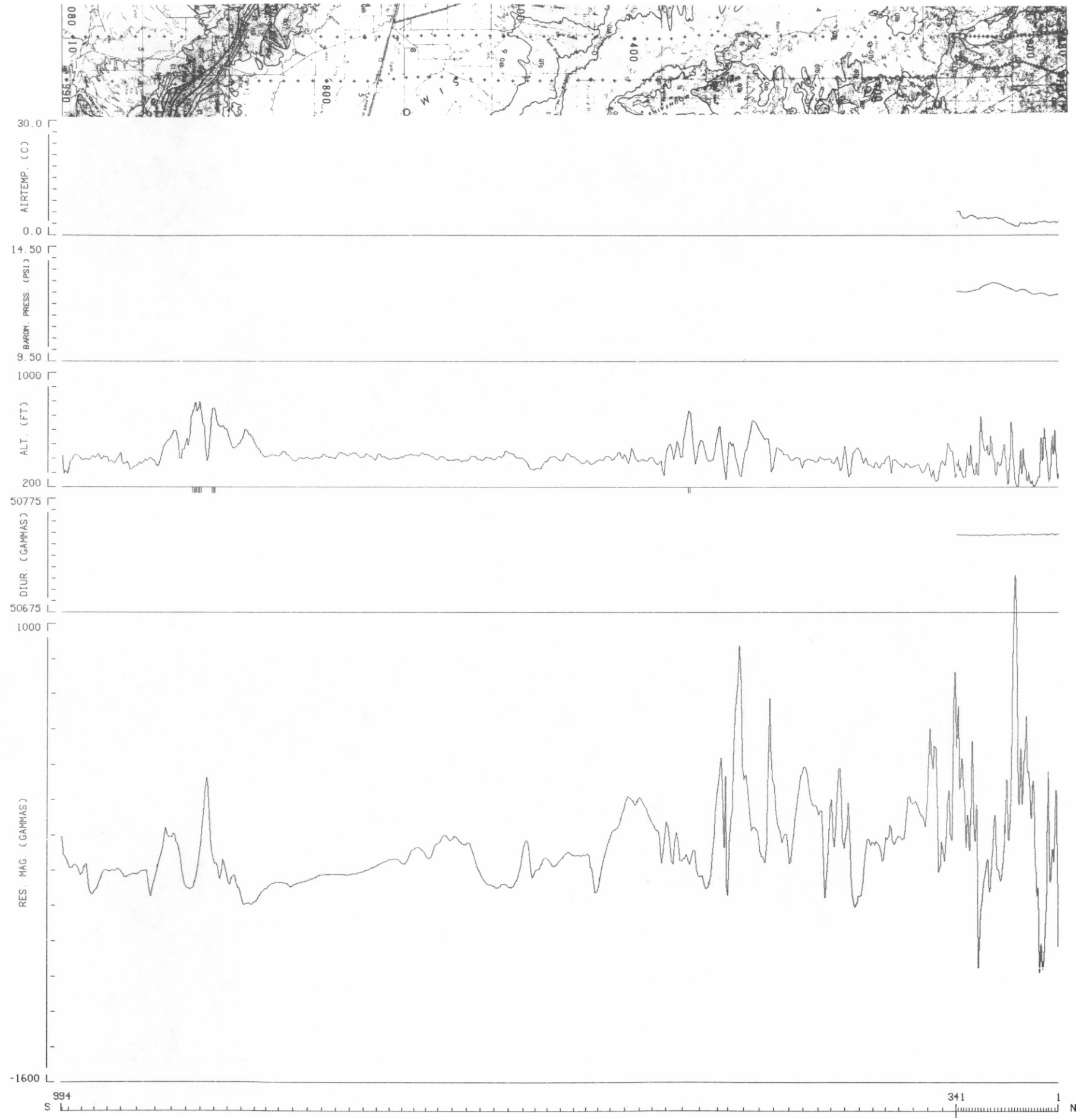


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-214 SILVER CITY NI12-12



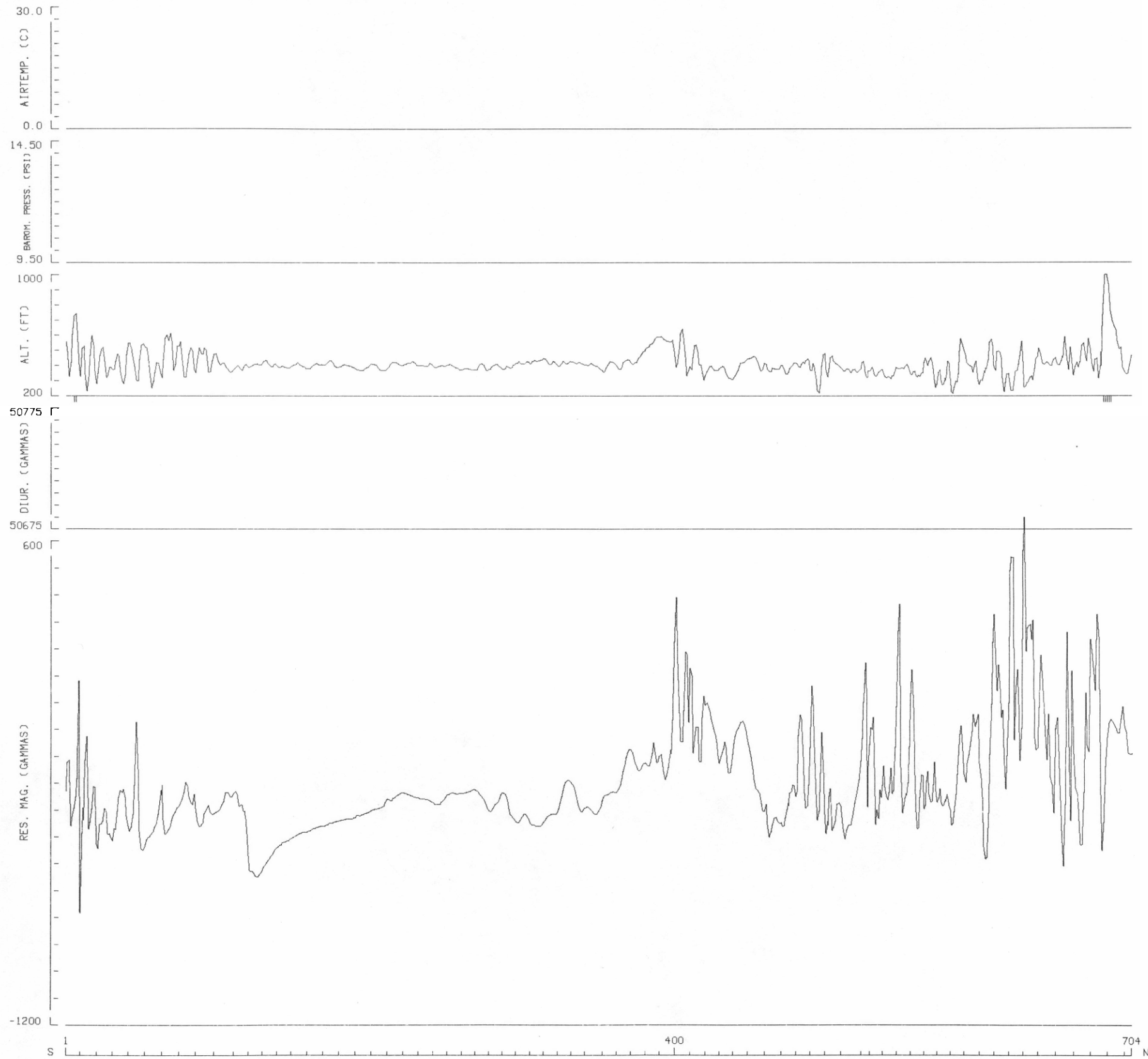
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-215 SILVER CITY NI12-12

3 MILE(S)



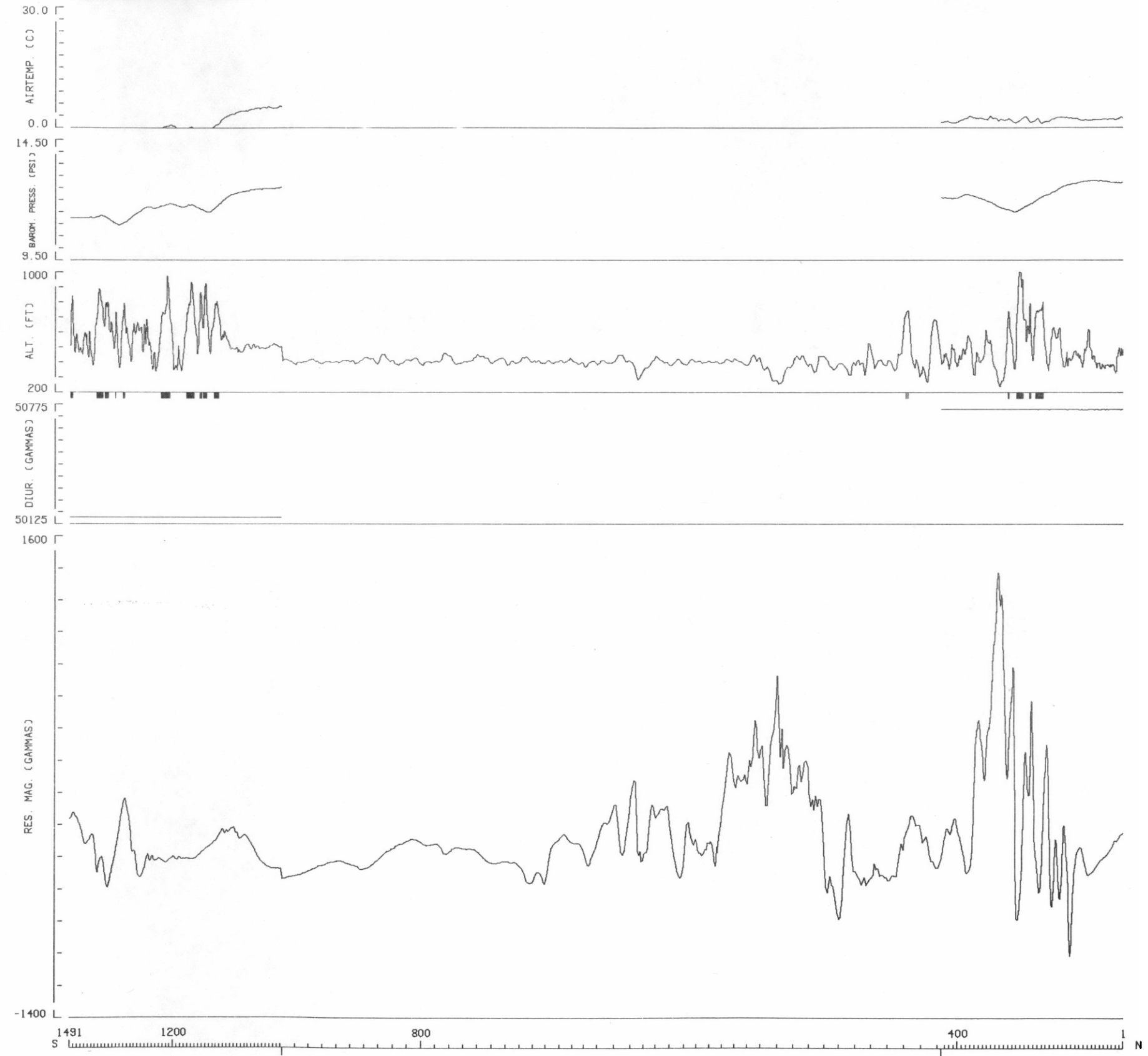
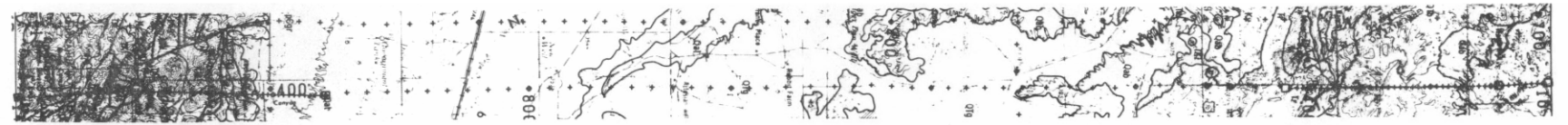
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-216 SILVER CITY NI12-12

3 MILES



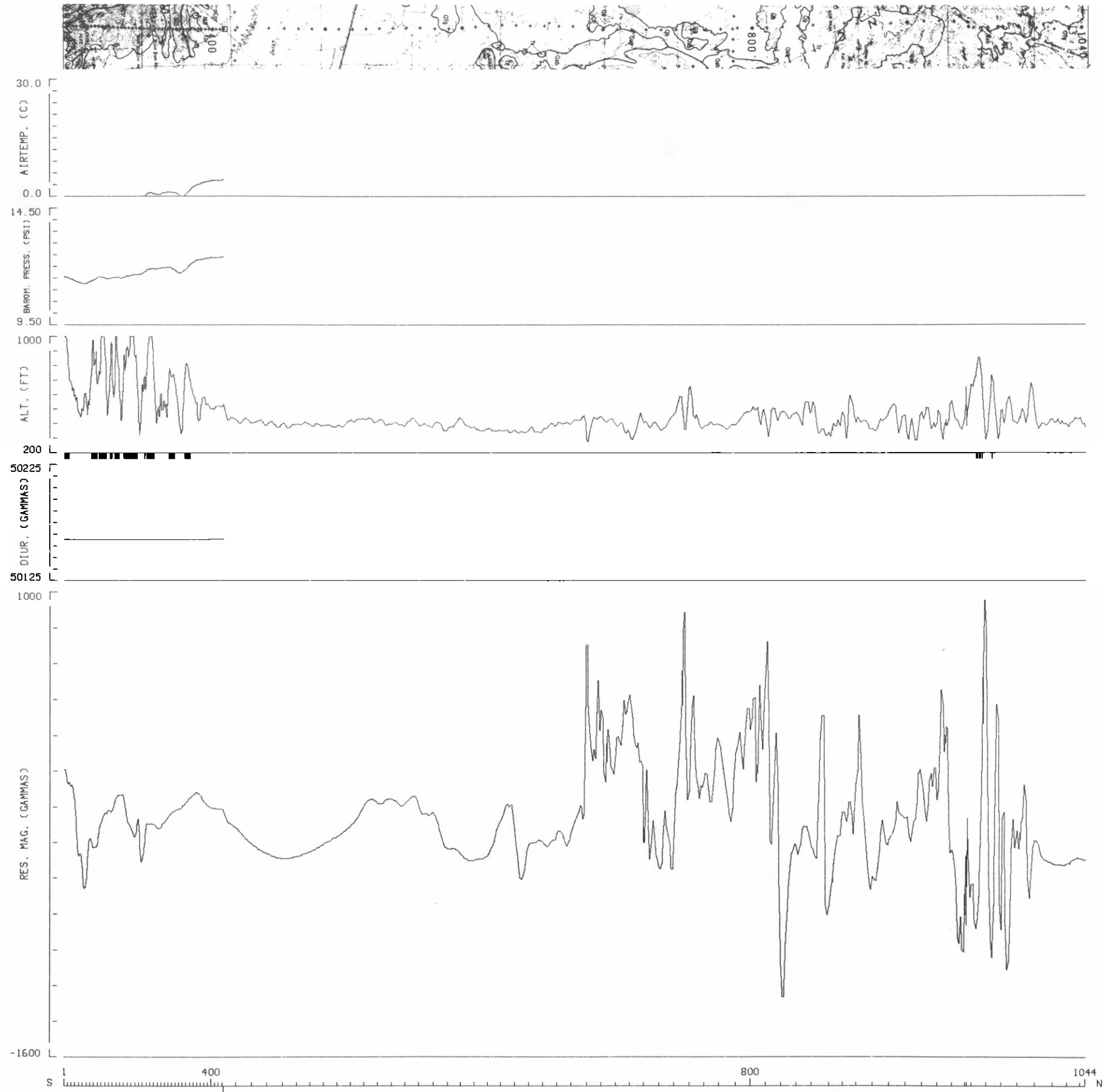
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-217 SILVER CITY NI12-12

3 MILES



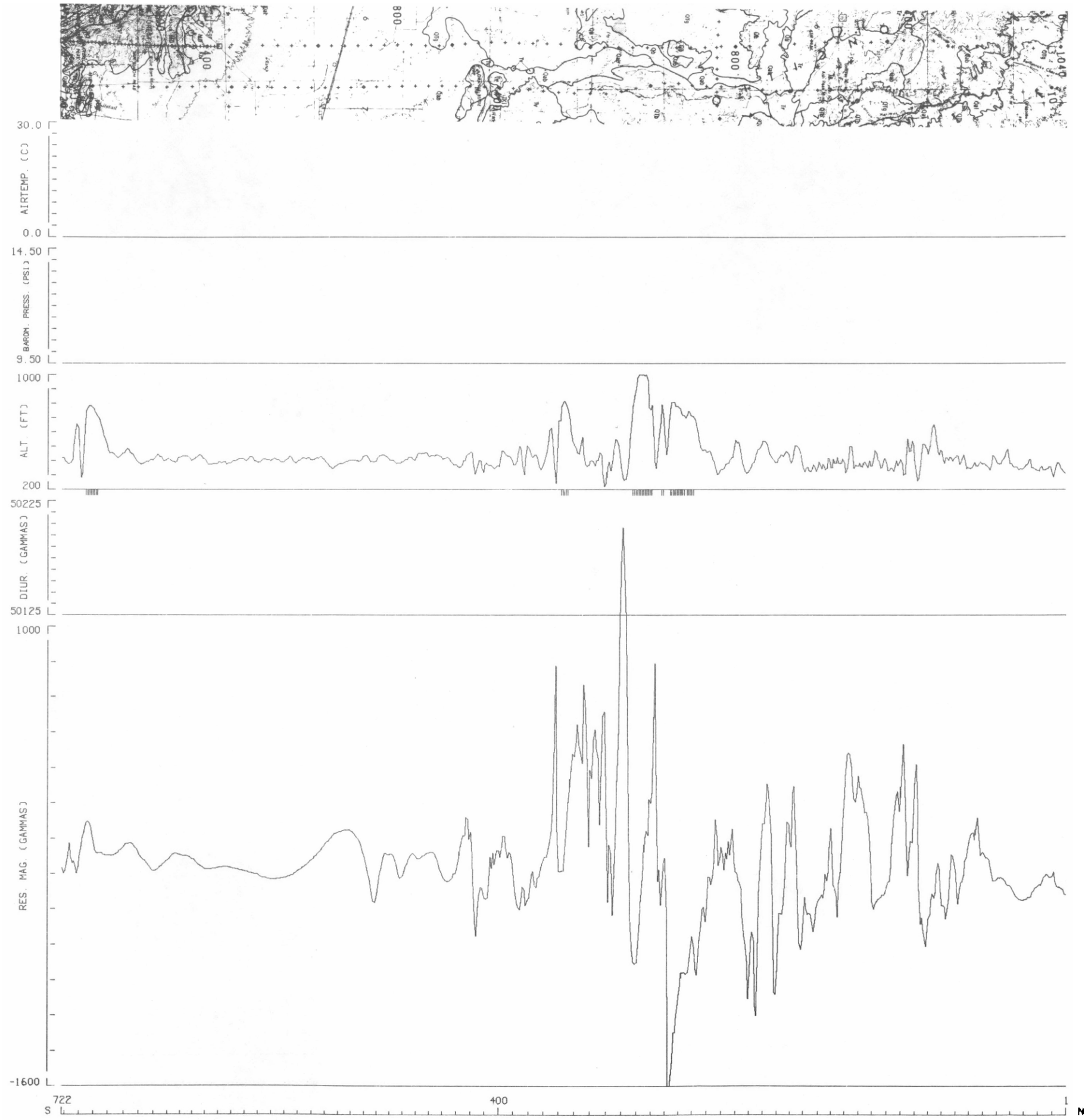
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-219 SILVER CITY NI12-12

3 MILES



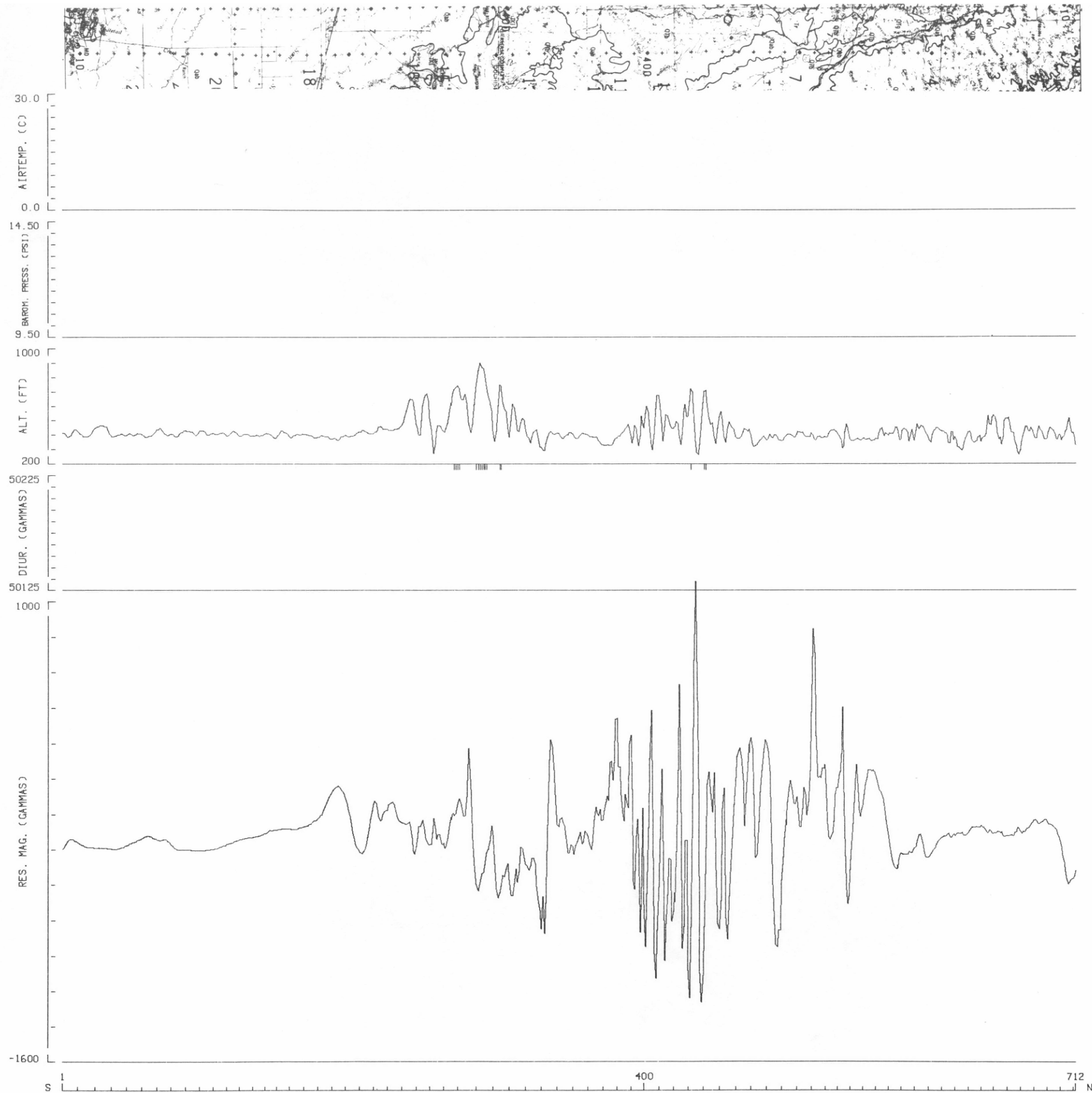
UTAH-ARIZONA SURVEY 1978 US DEPT OF ENERGY TEXAS INSTRUMENTS
FL-220 SILVER CITY NI12-12

3 MILE(S)



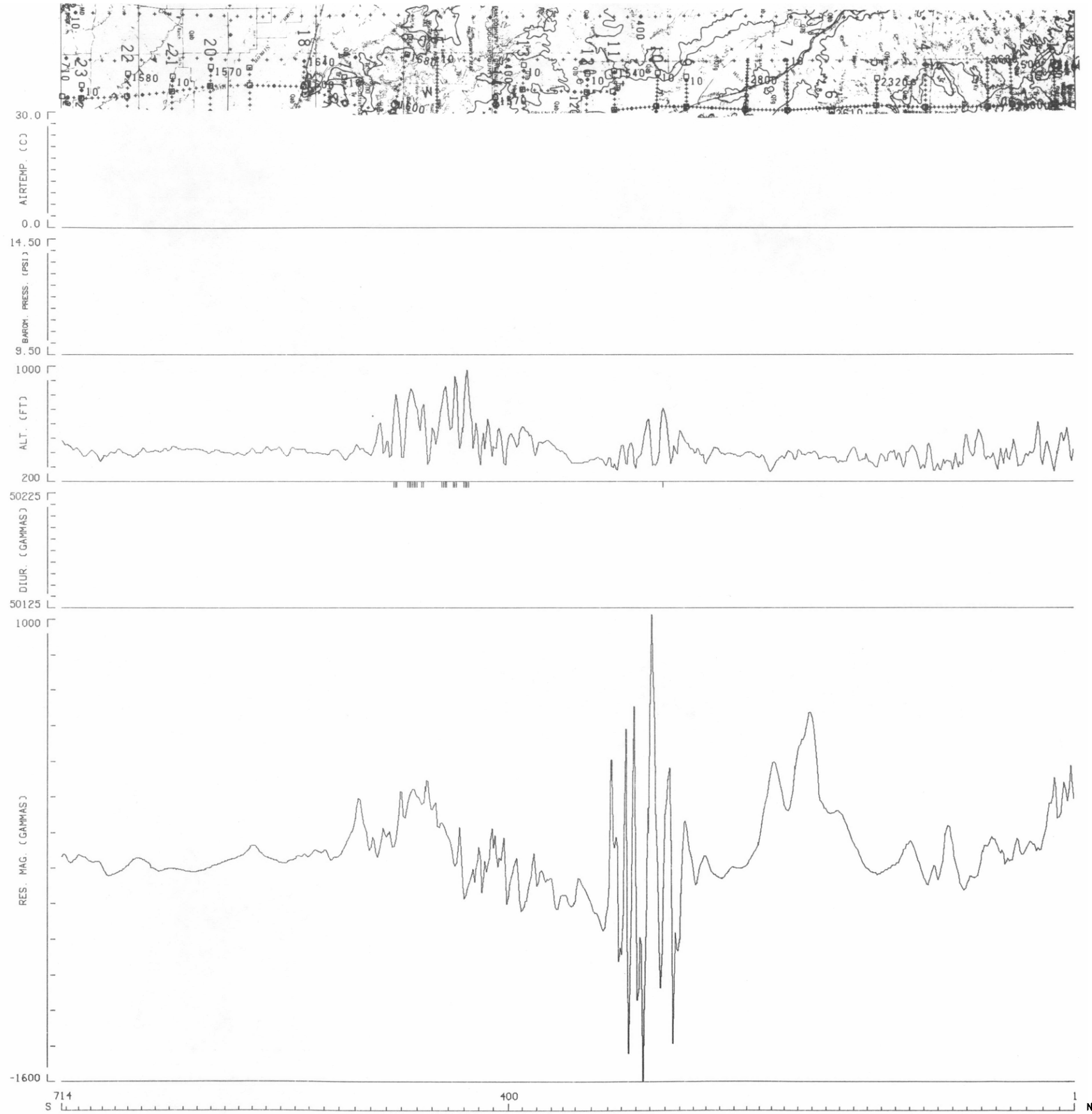
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-221 SILVER CITY NI12-12

3 MILES

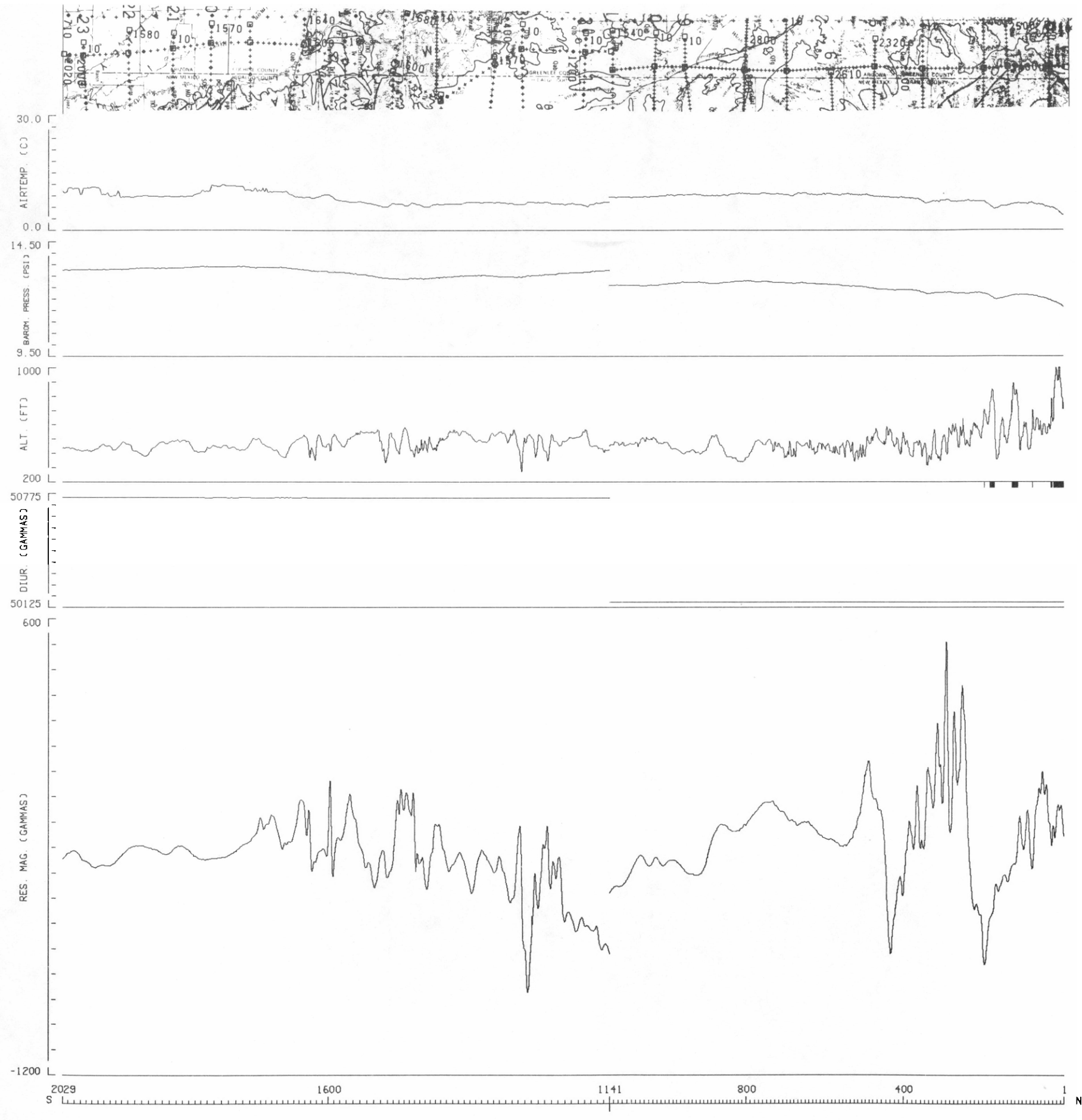


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-222 SILVER CITY NI12-12

3 MILES(S)

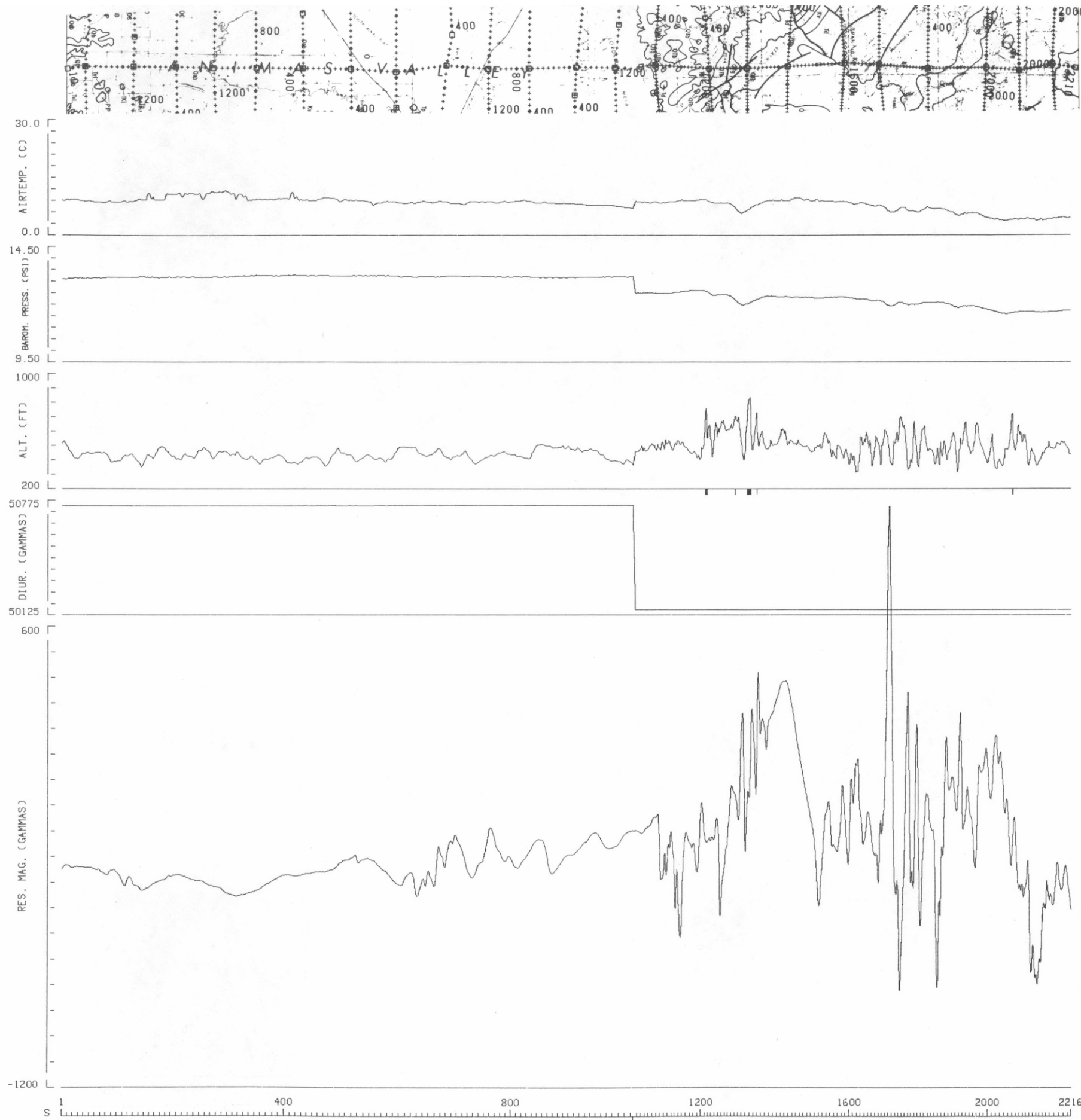


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-223 SILVER CITY NI12-12

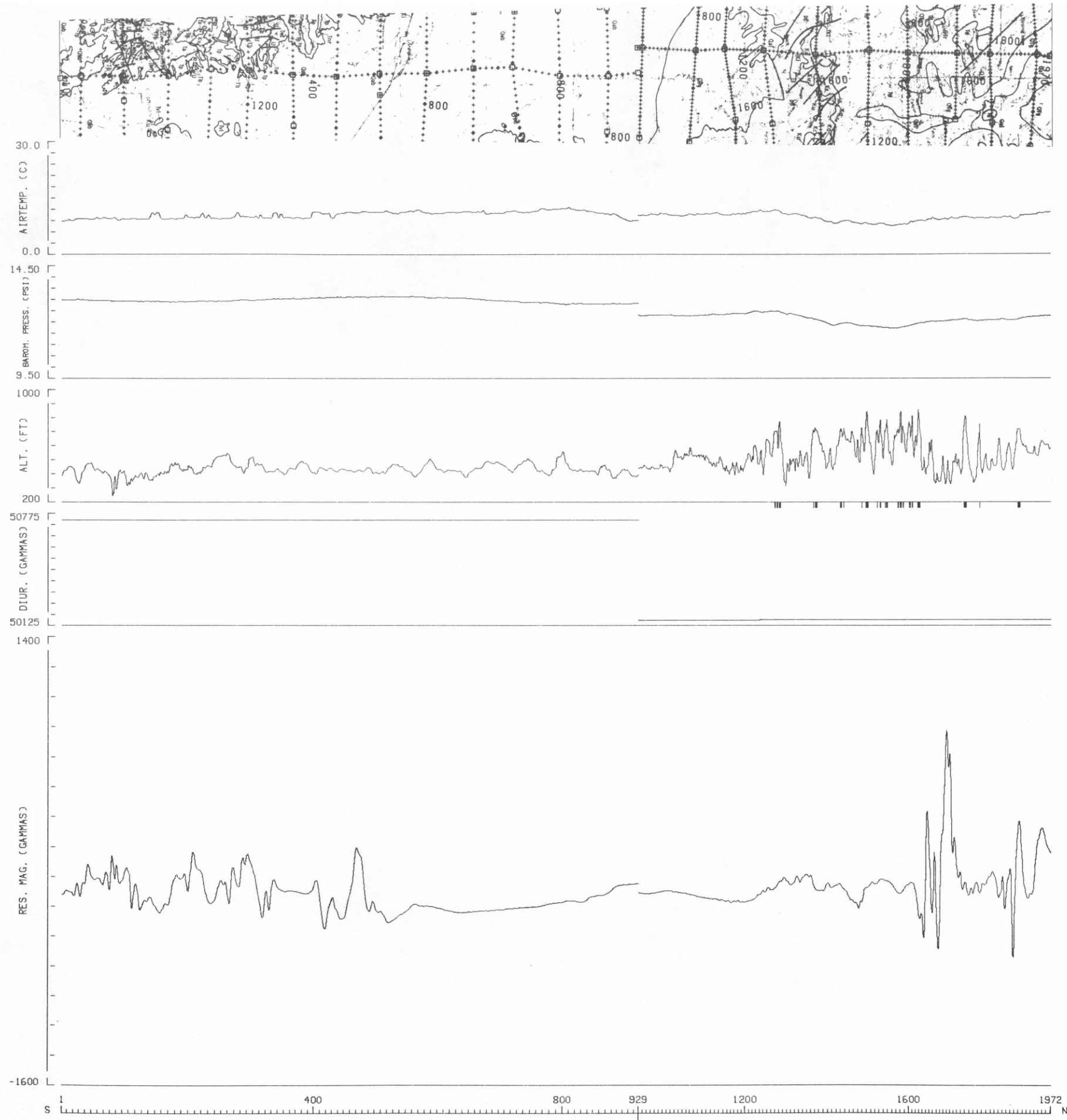


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-224 SILVER CITY NI12-12

3 MILE(S)

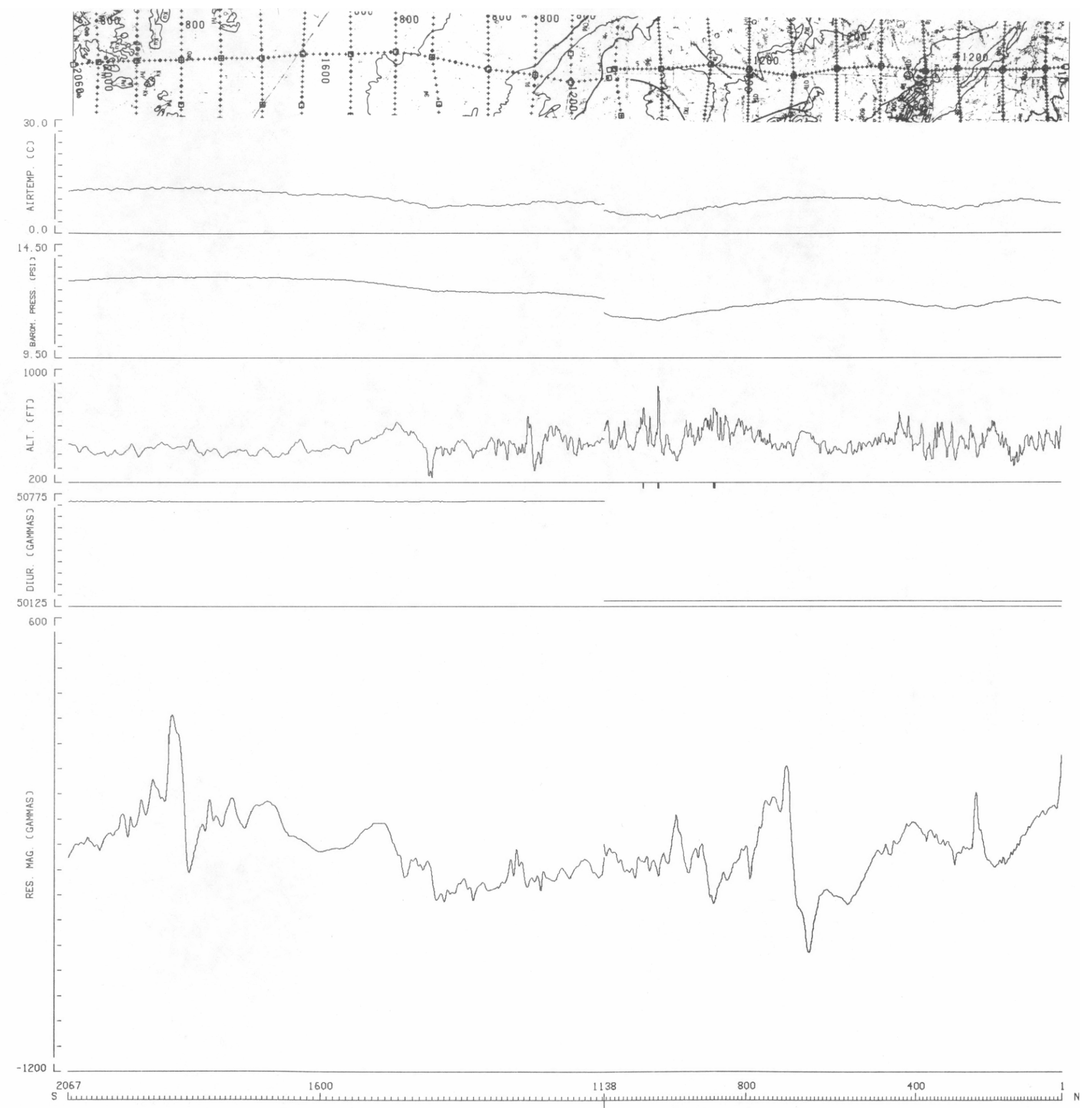


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-225 SILVER CITY NI12-12

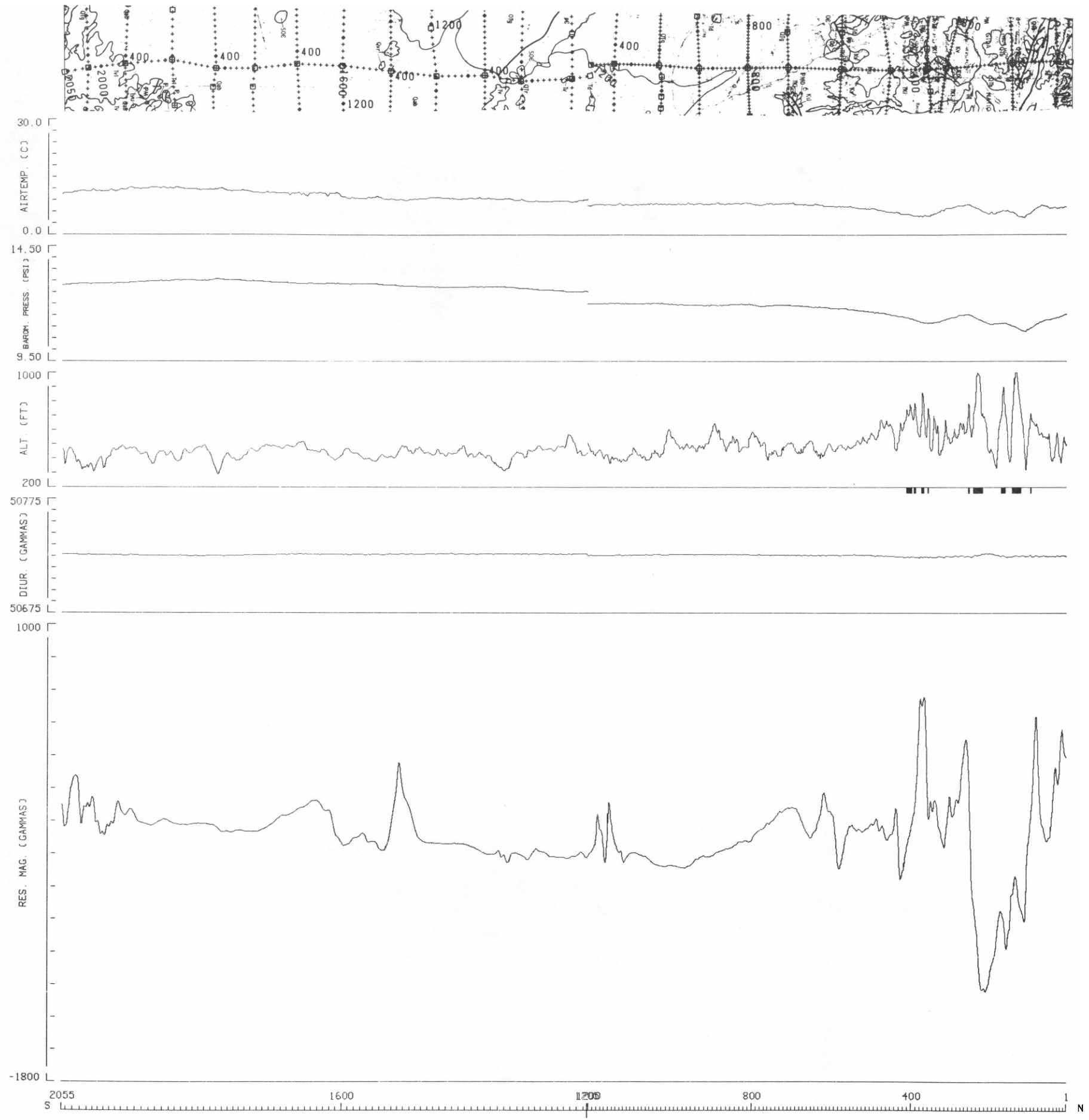


UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-226 SILVER CITY NI12-12

3 MILE(S)



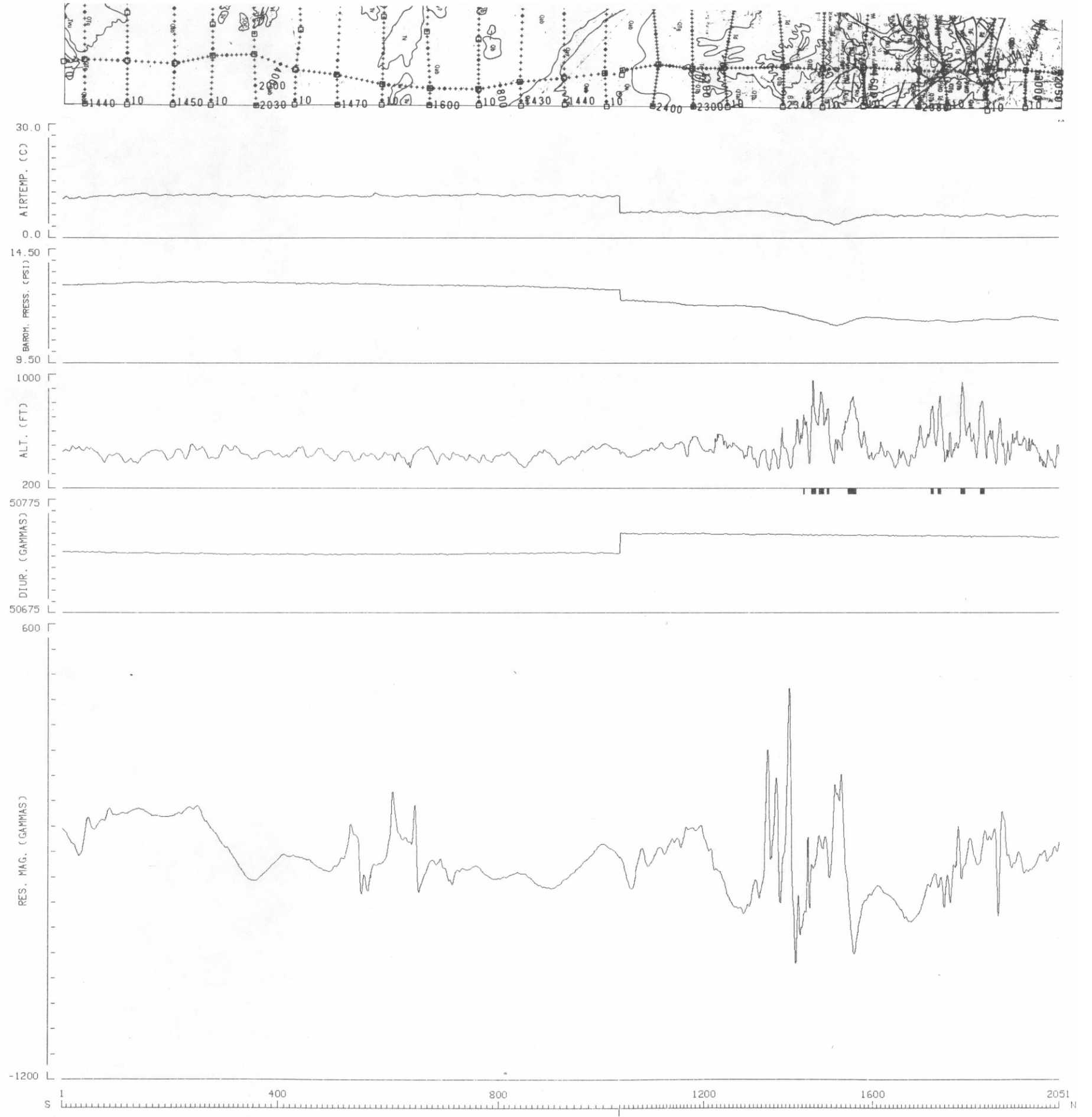
UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-227 SILVER CITY NI12-12



UTAH-ARIZONA SURVEY 1978 US DEPT. OF ENERGY TEXAS INSTRUMENTS
FL-228 SILVER CITY NI12-12

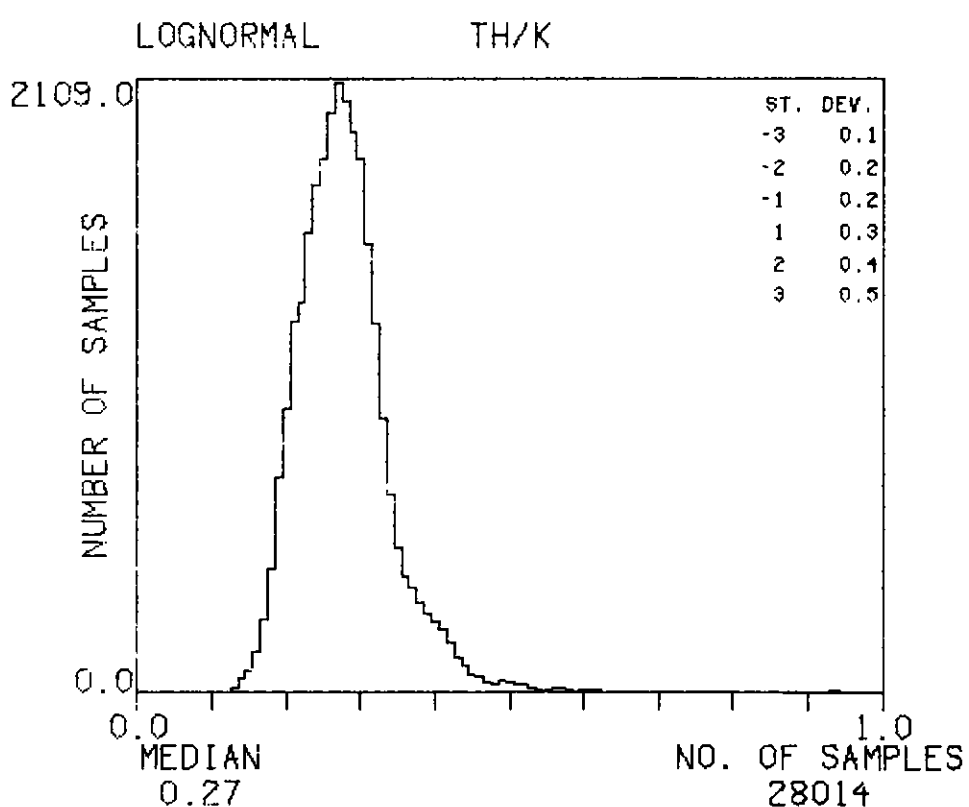
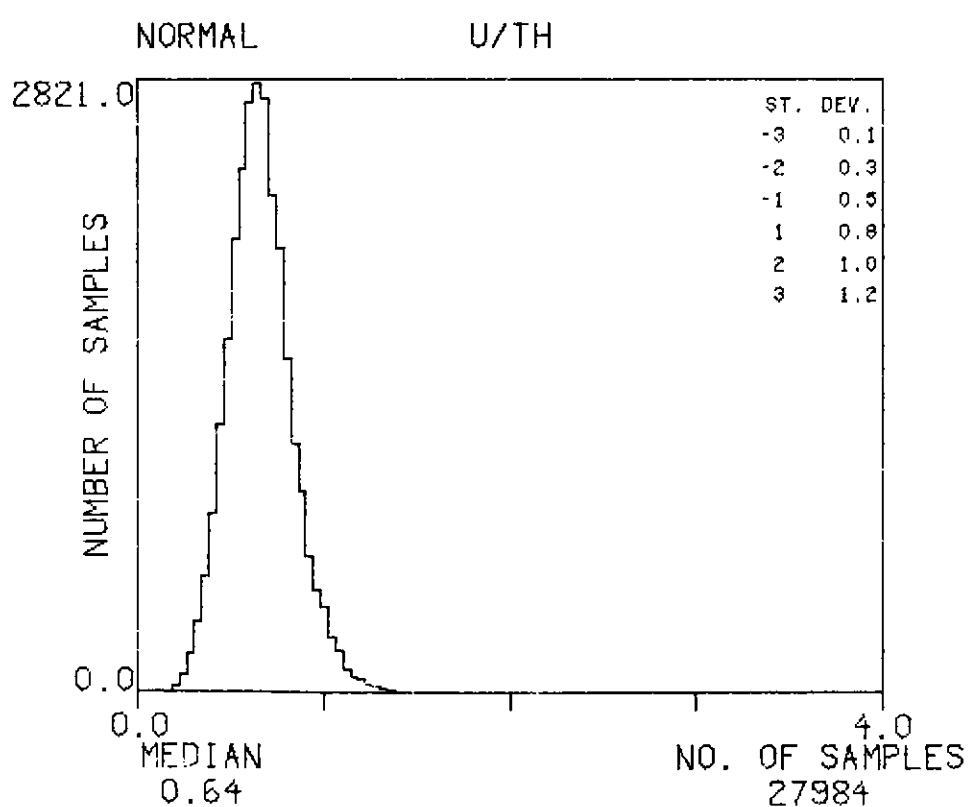
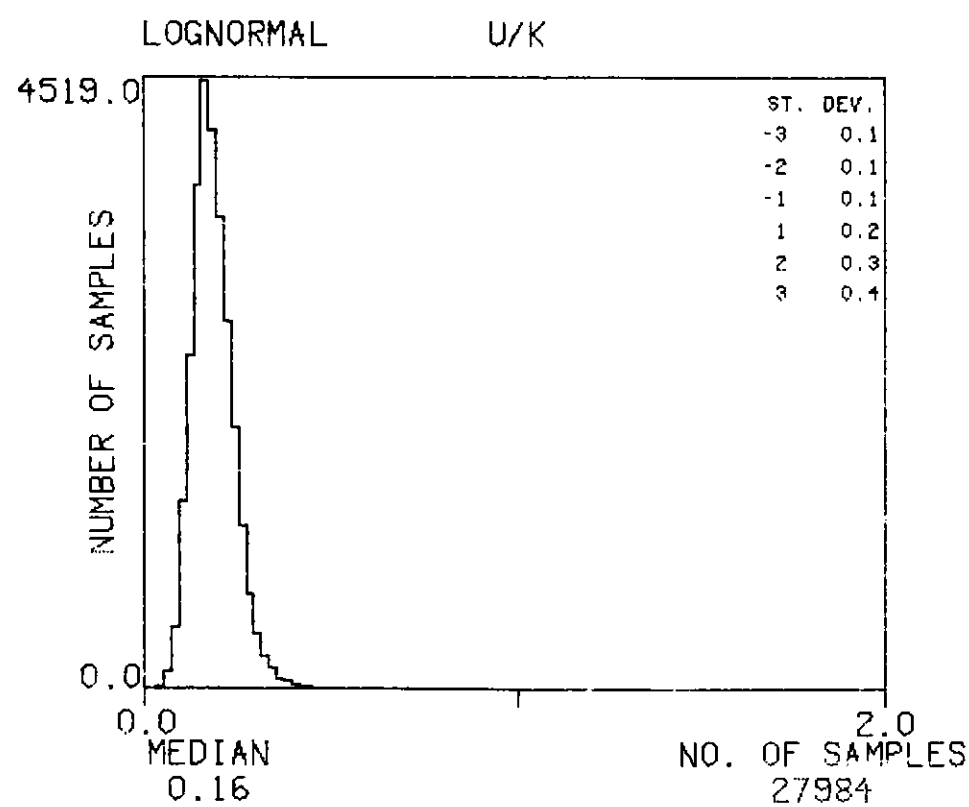
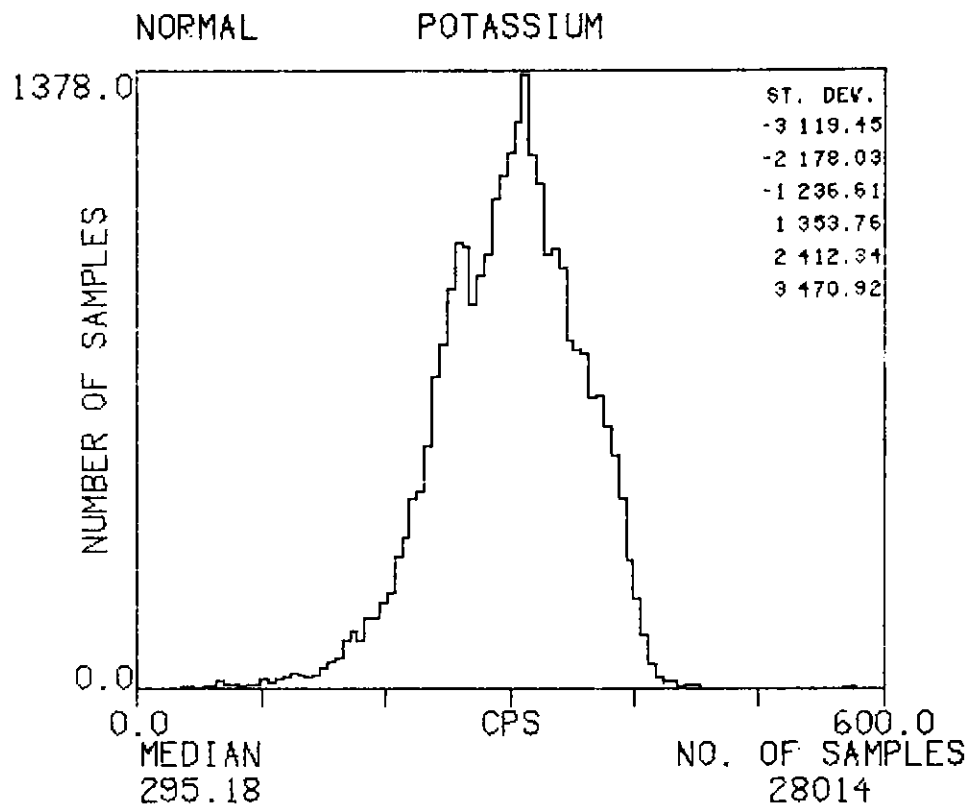
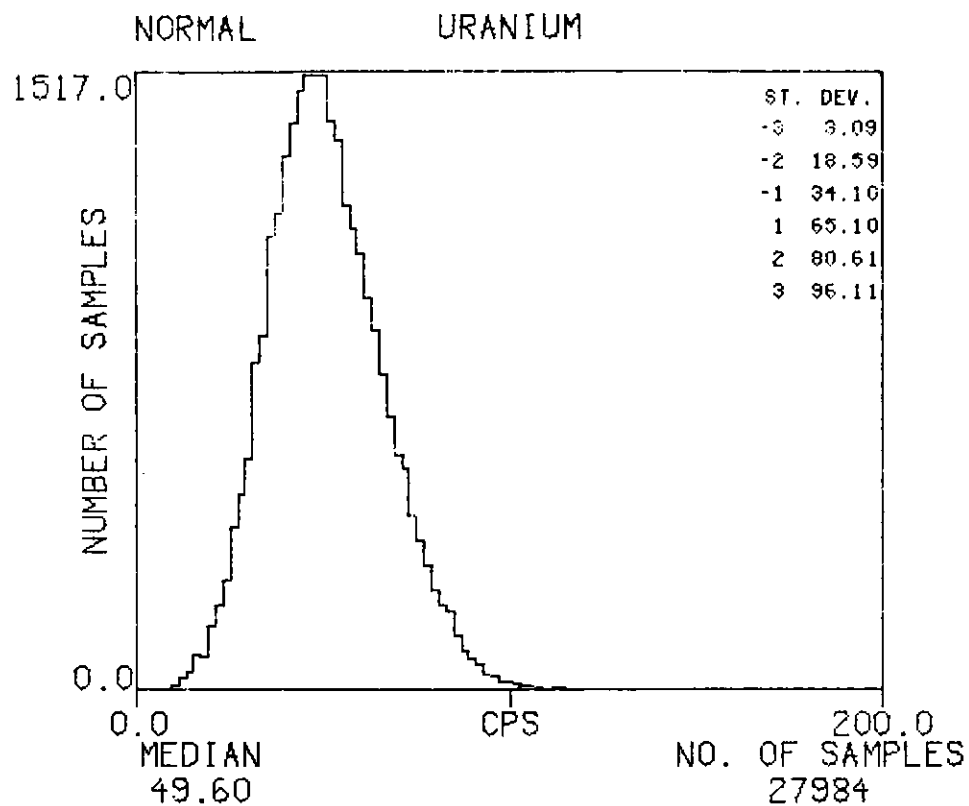
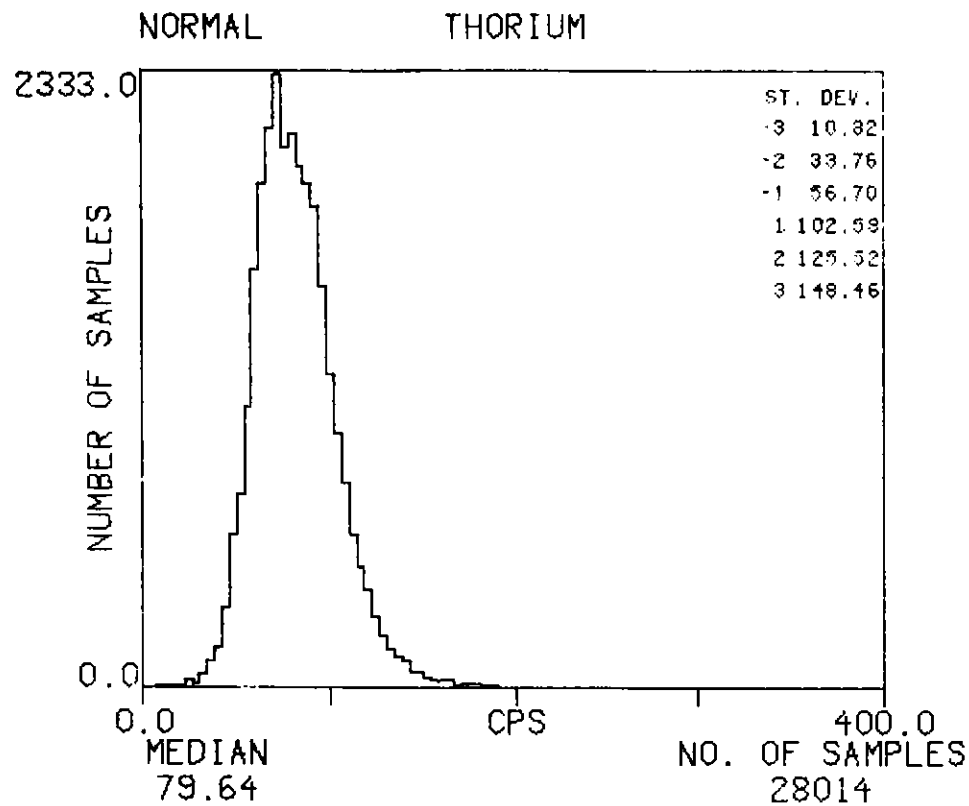
P-94

3 MILE(S)



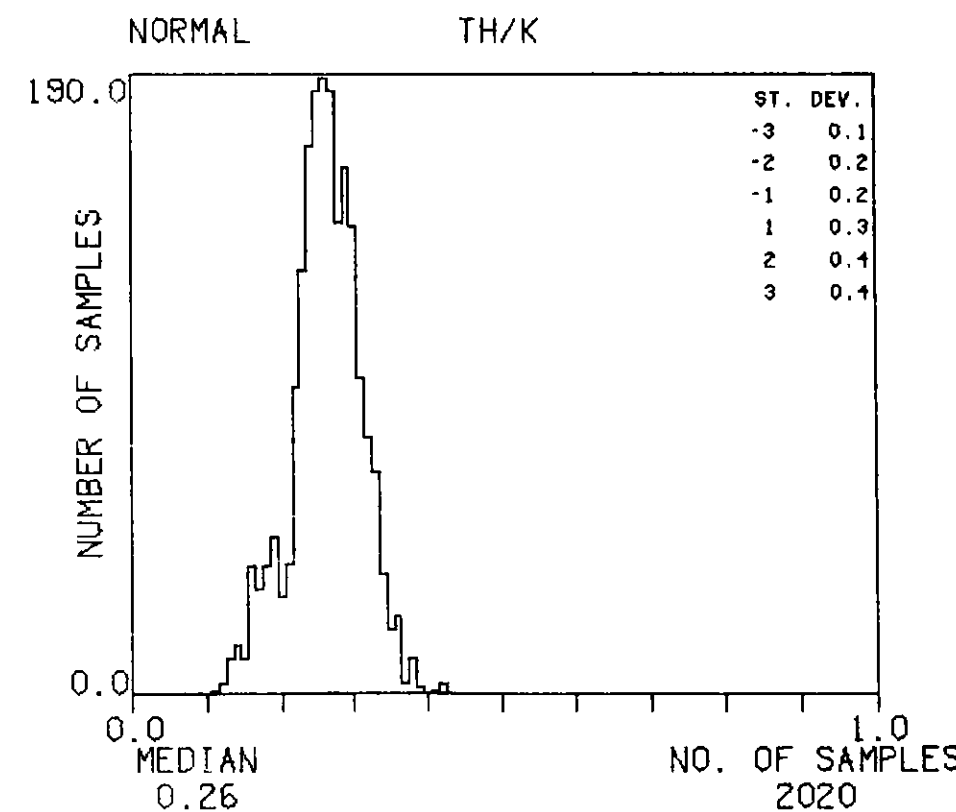
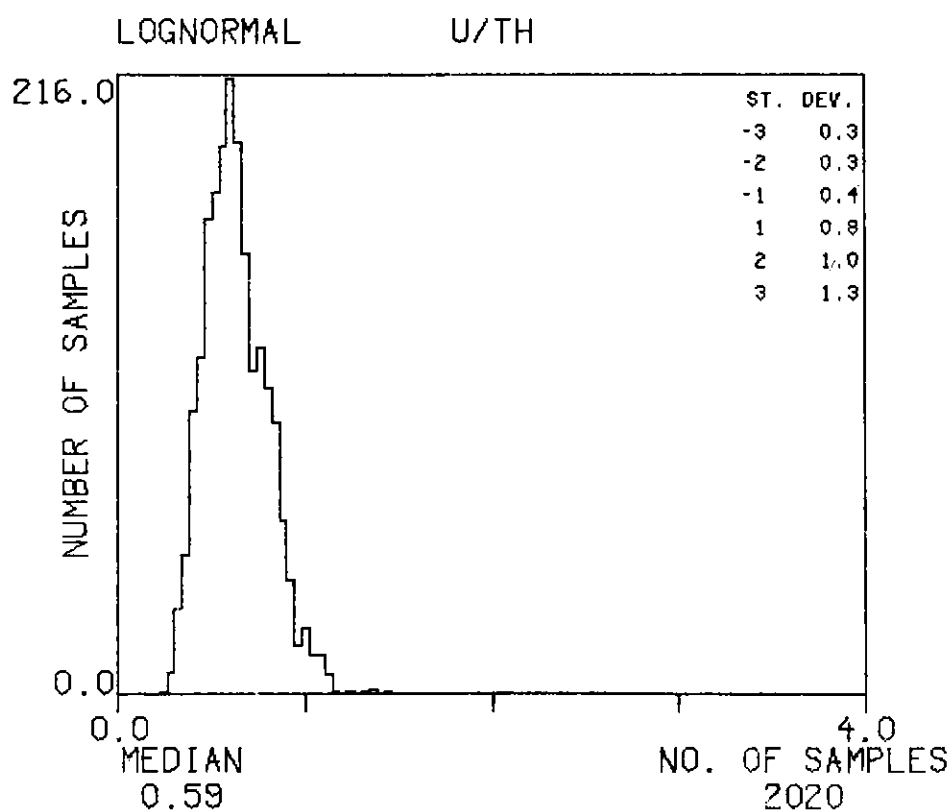
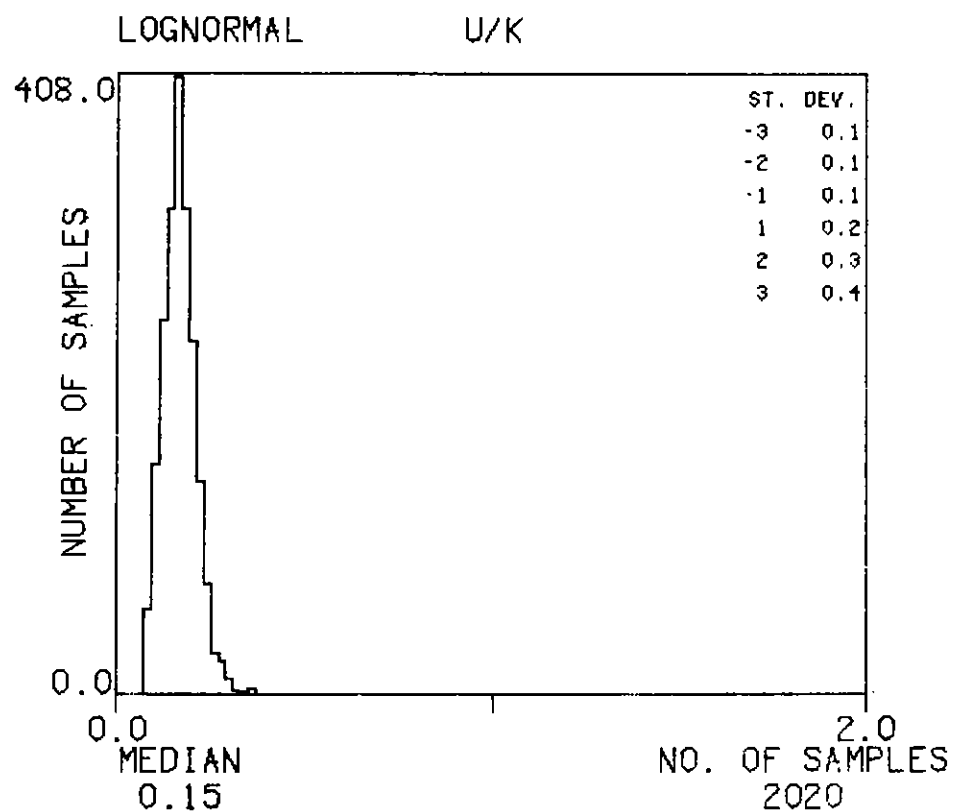
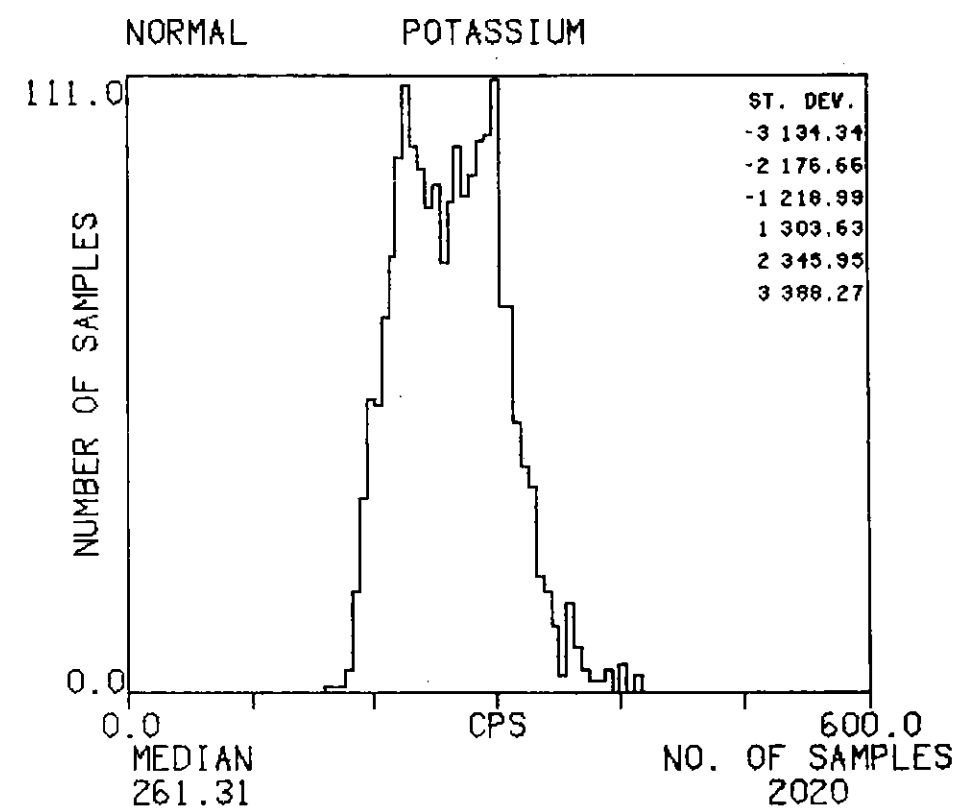
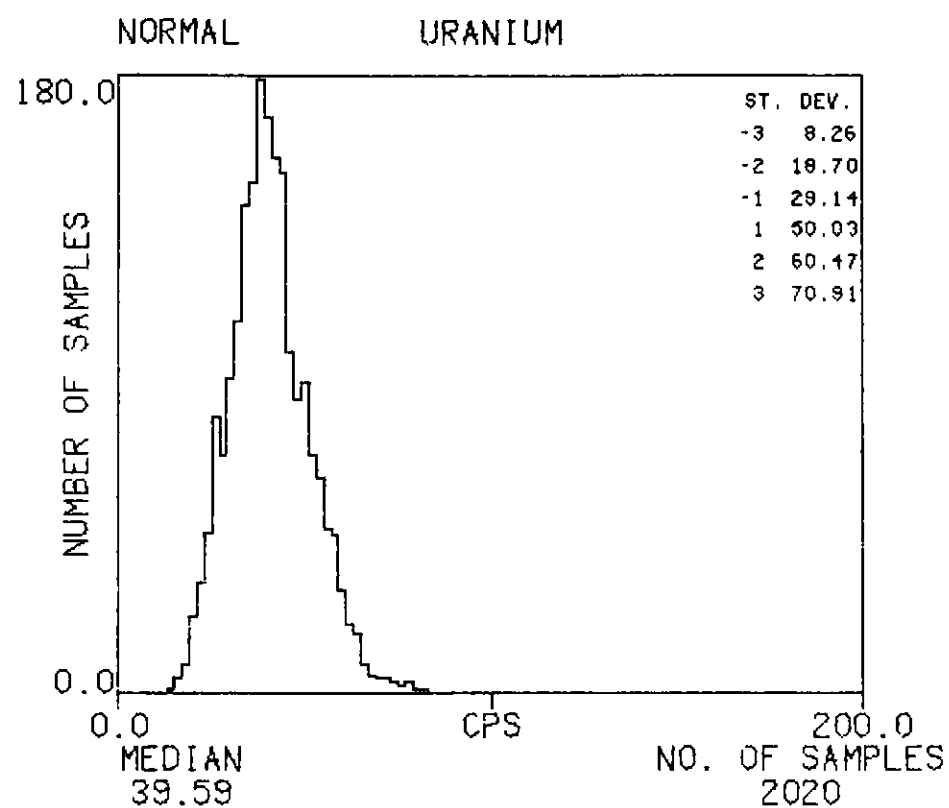
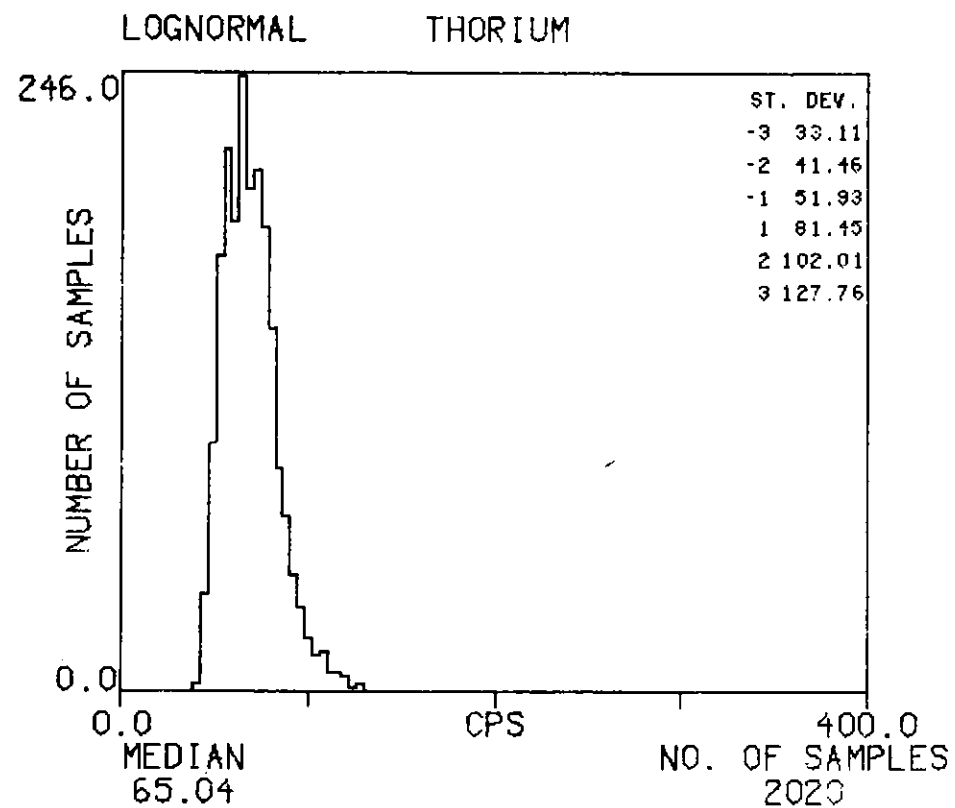
HISTOGRAMS : QAB

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



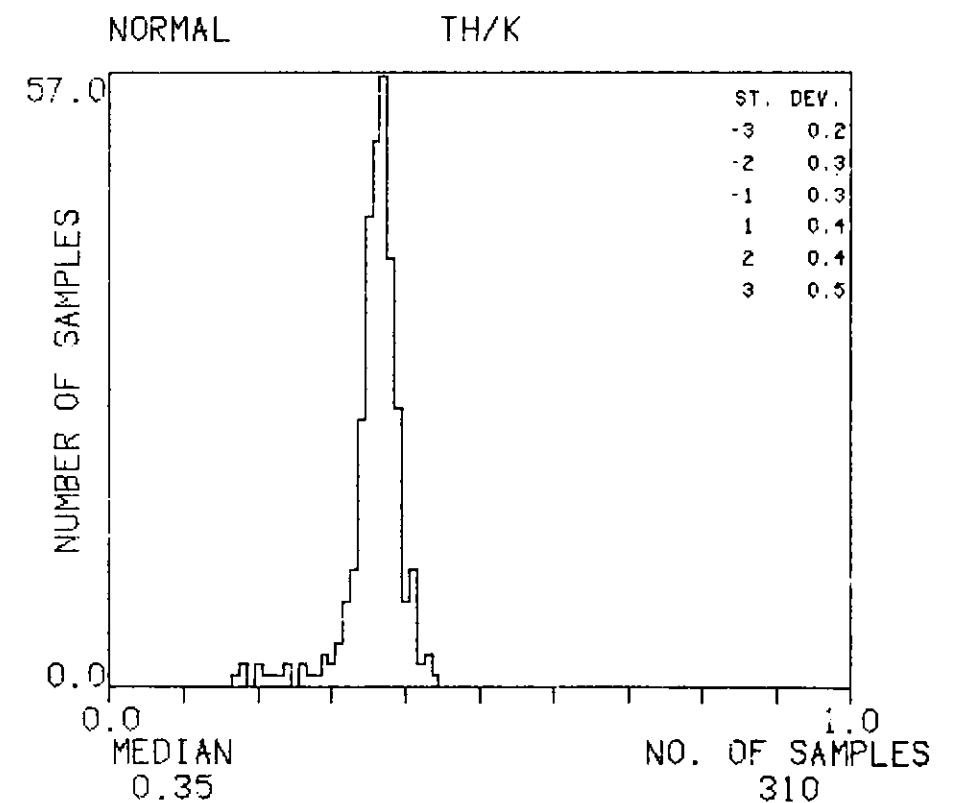
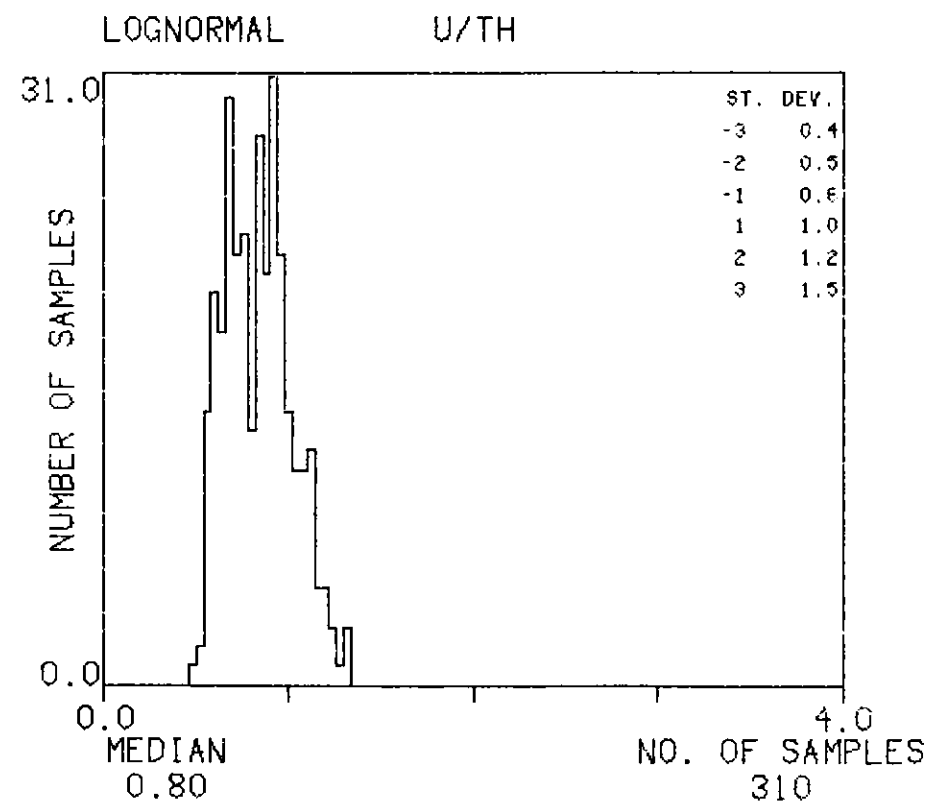
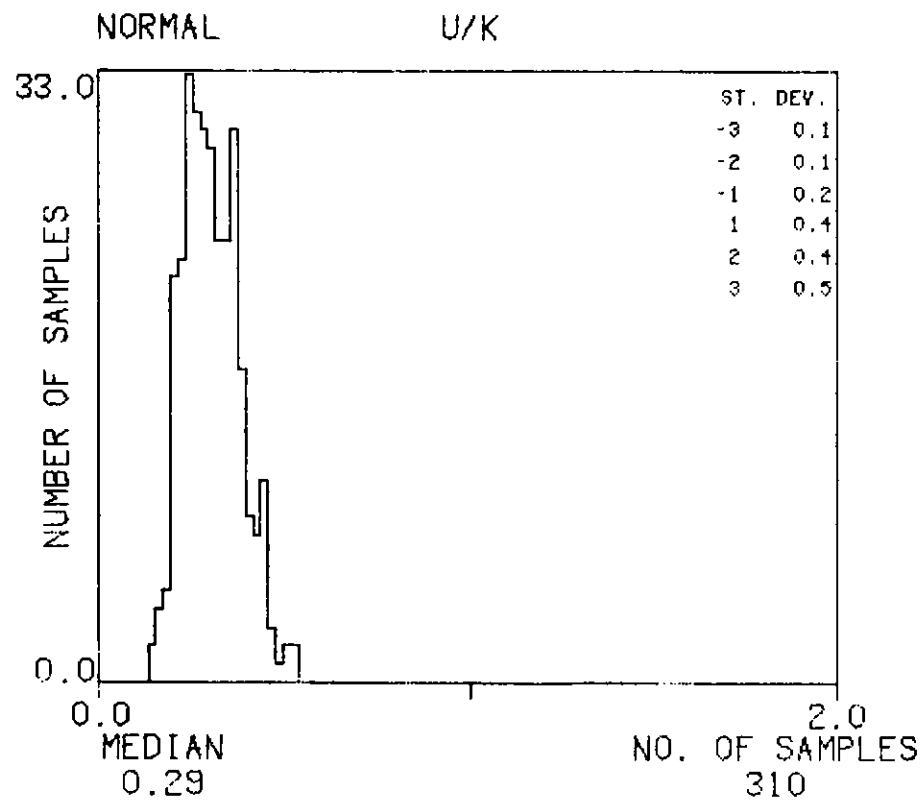
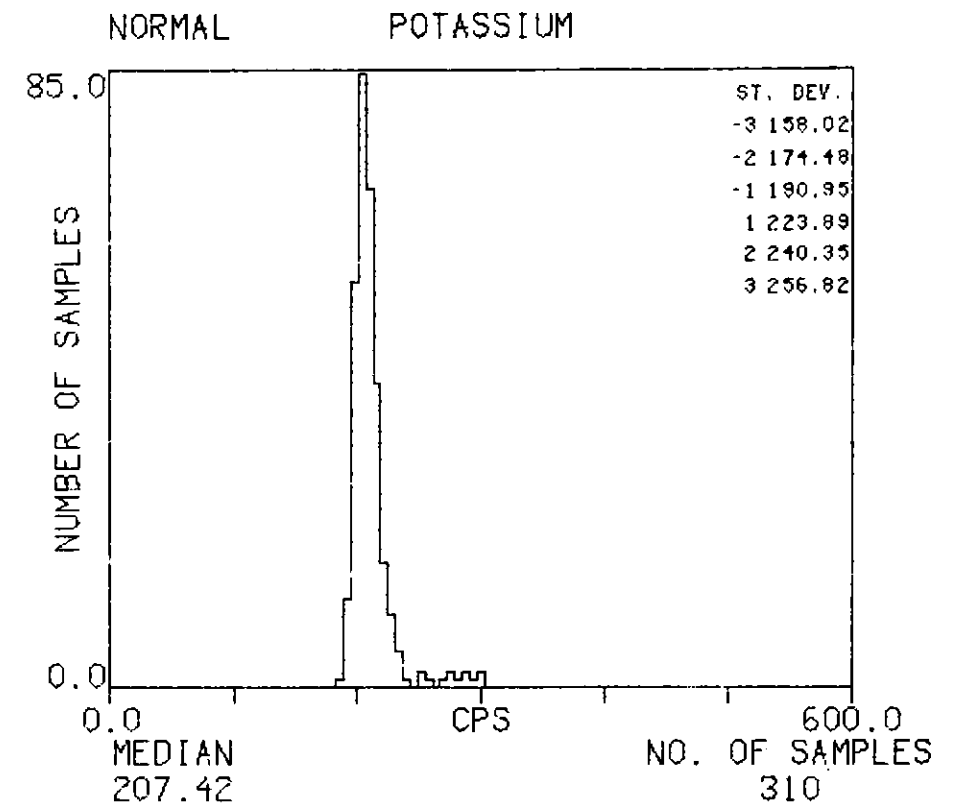
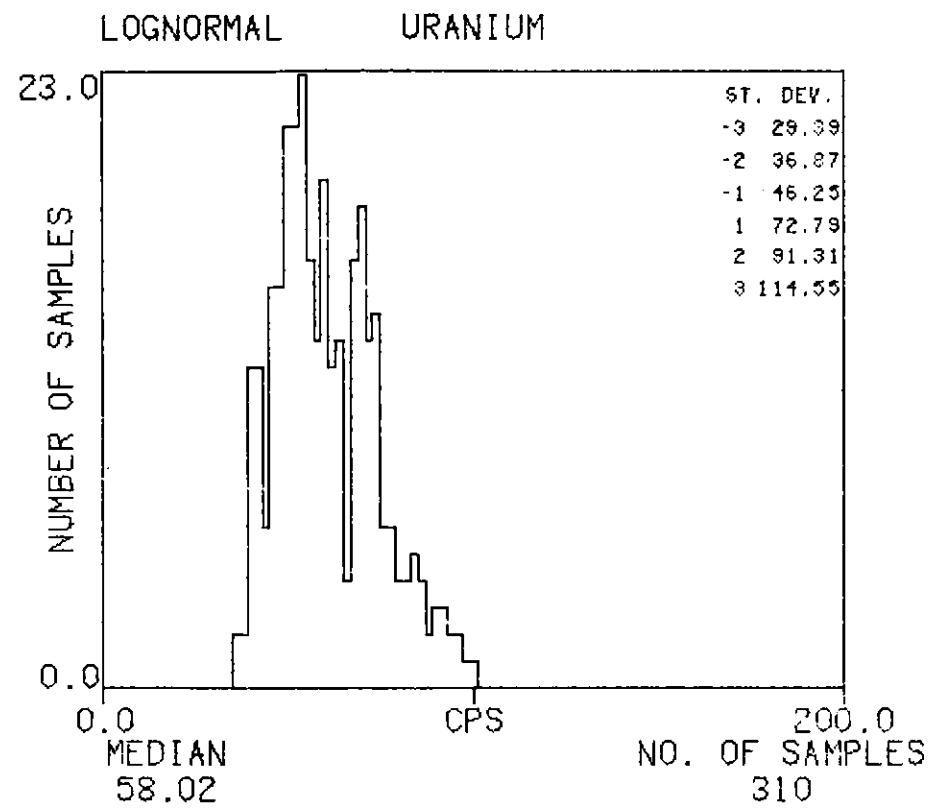
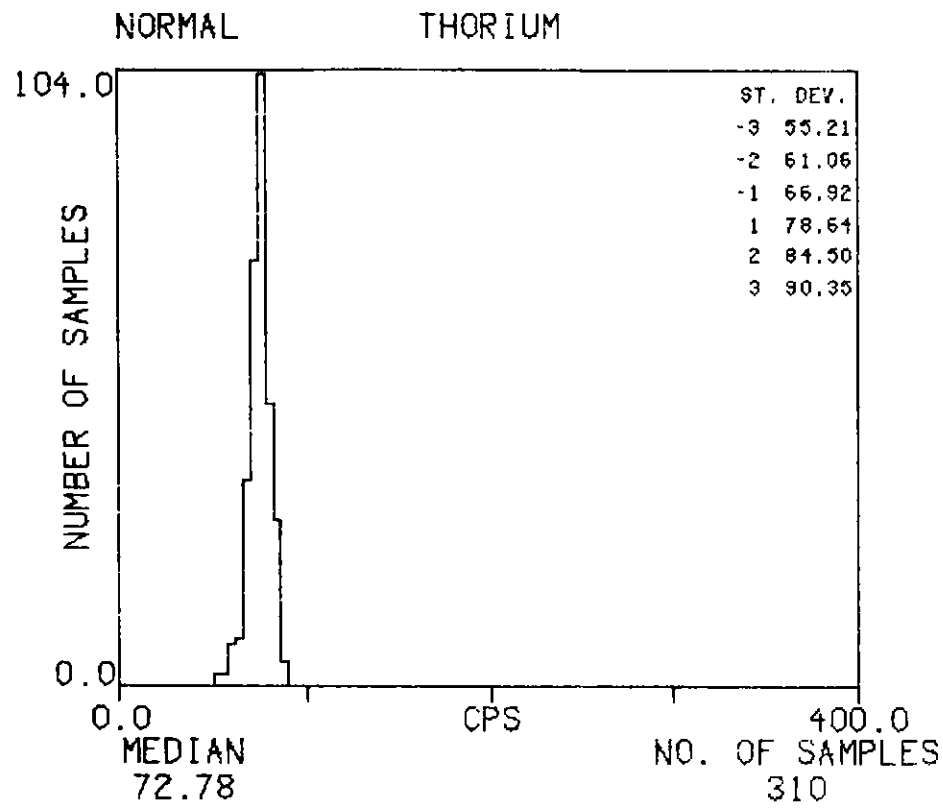
HISTOGRAMS : QAL

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



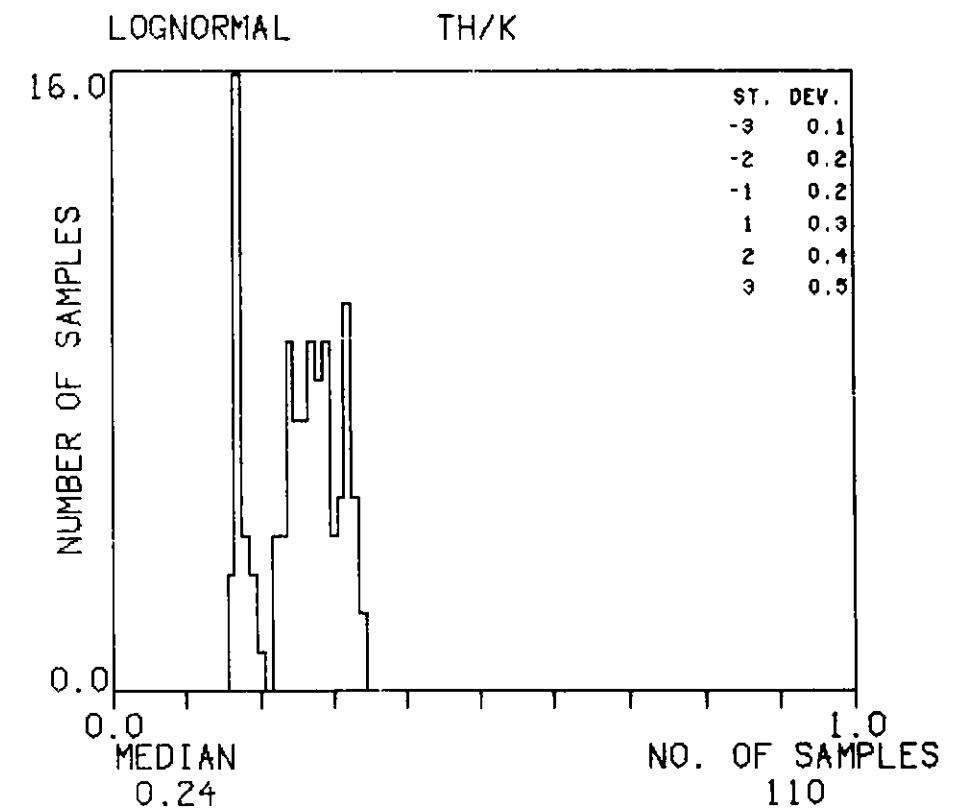
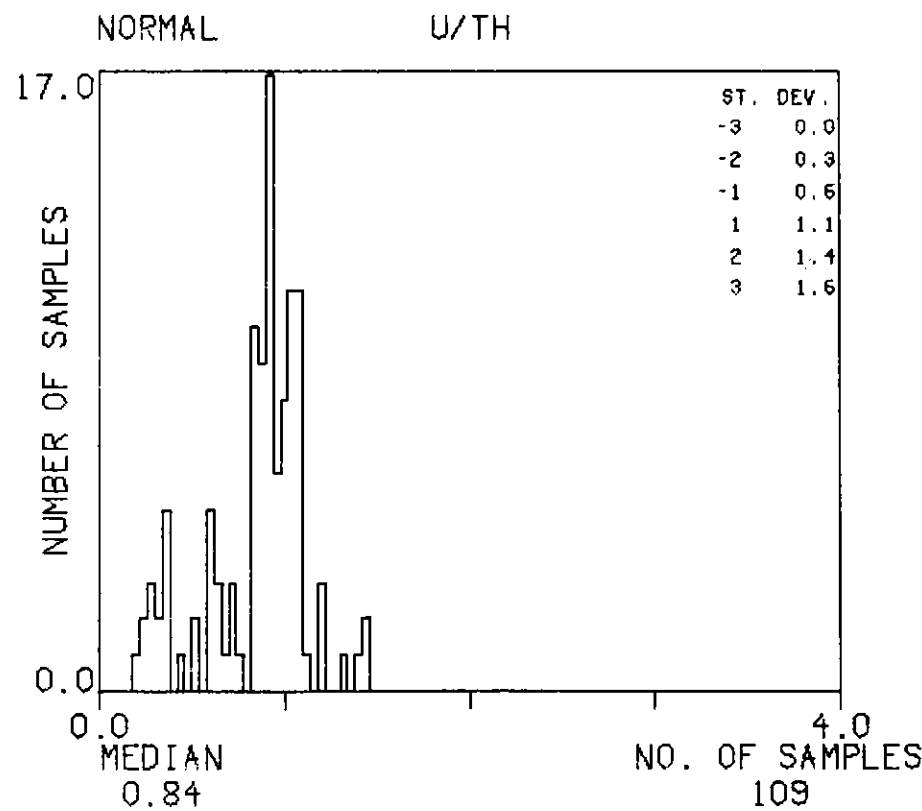
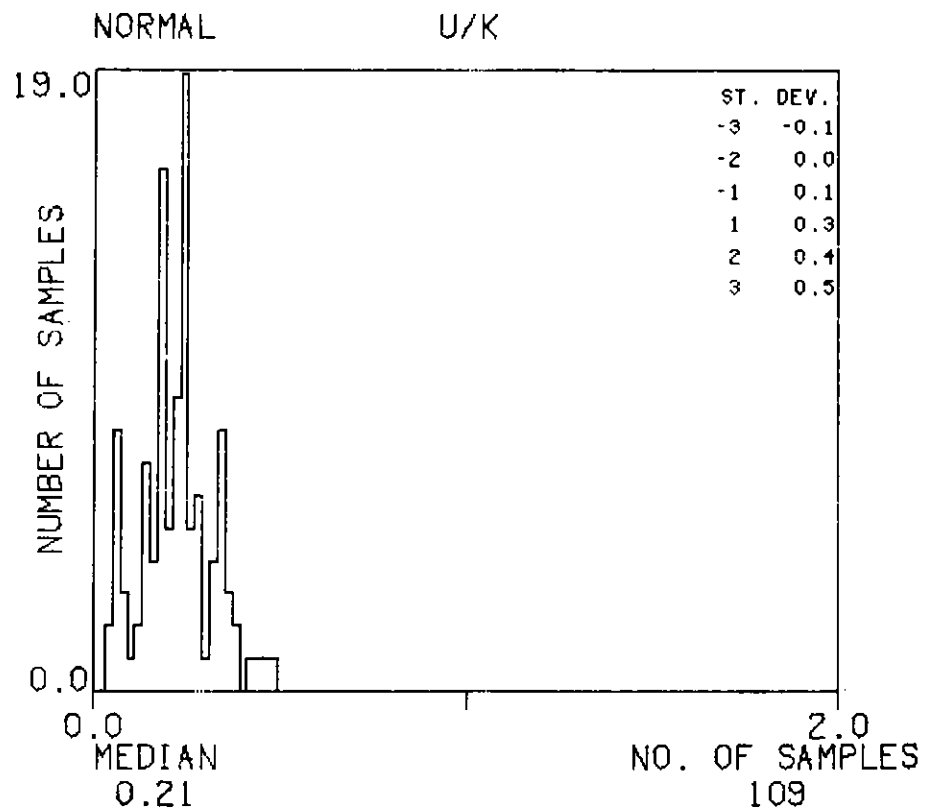
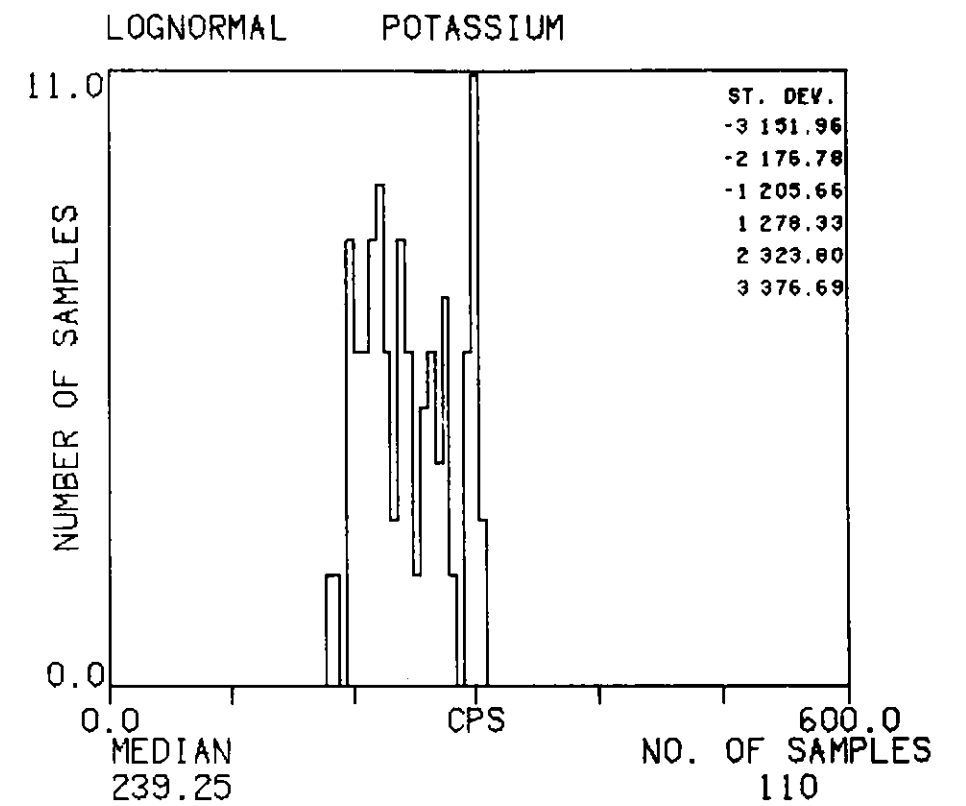
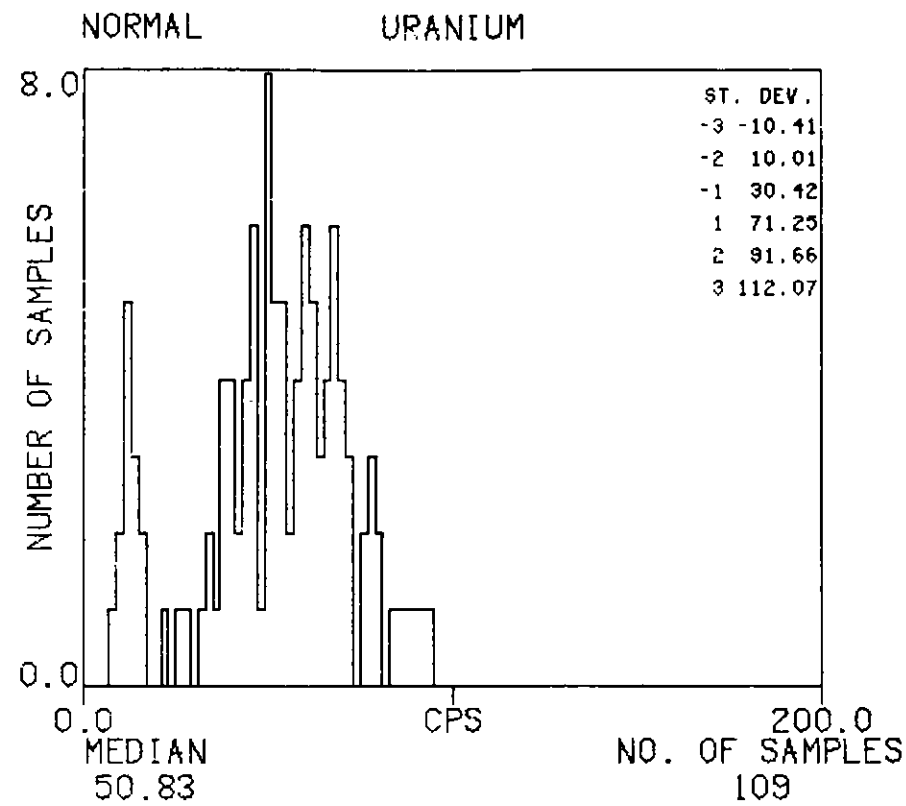
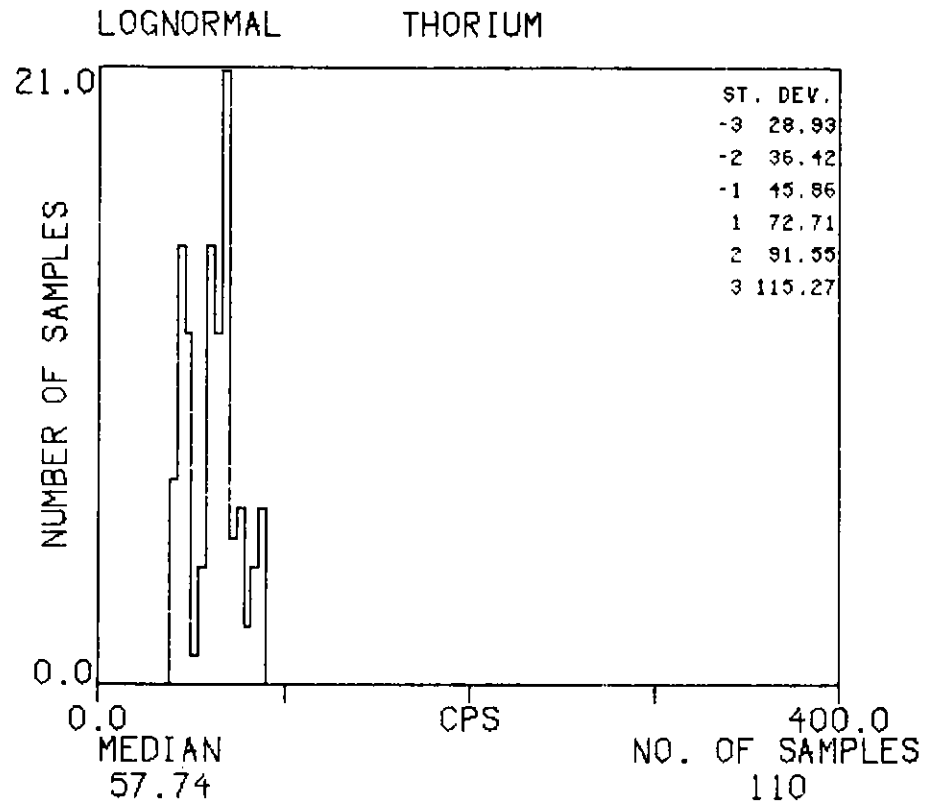
HISTOGRAMS : QLC

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



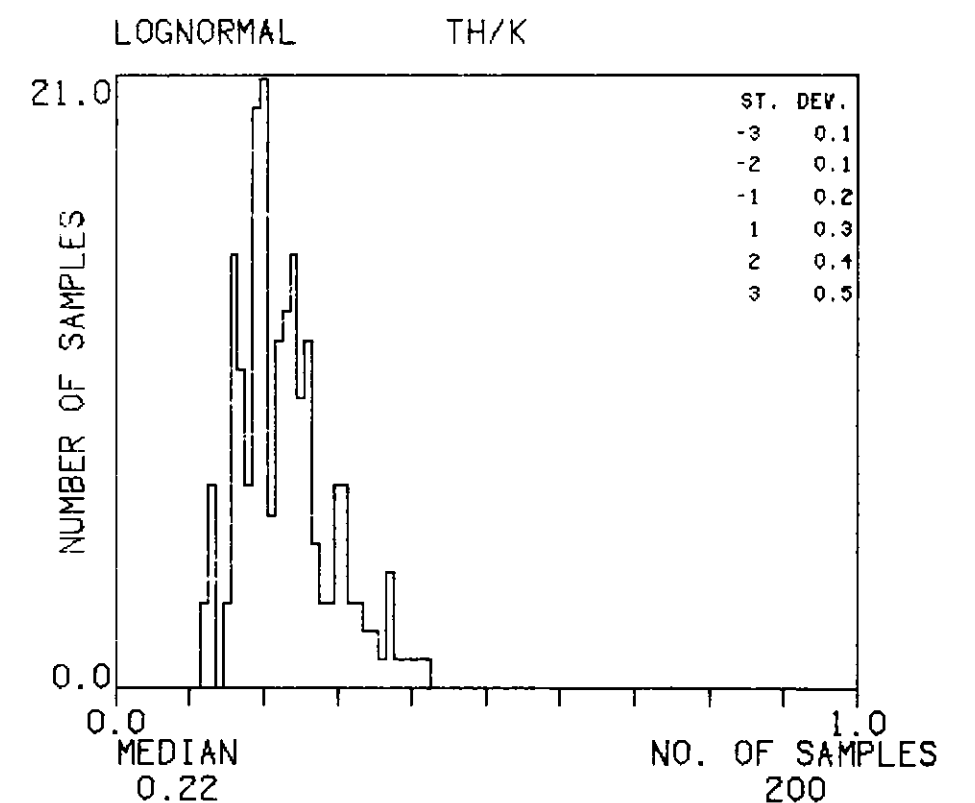
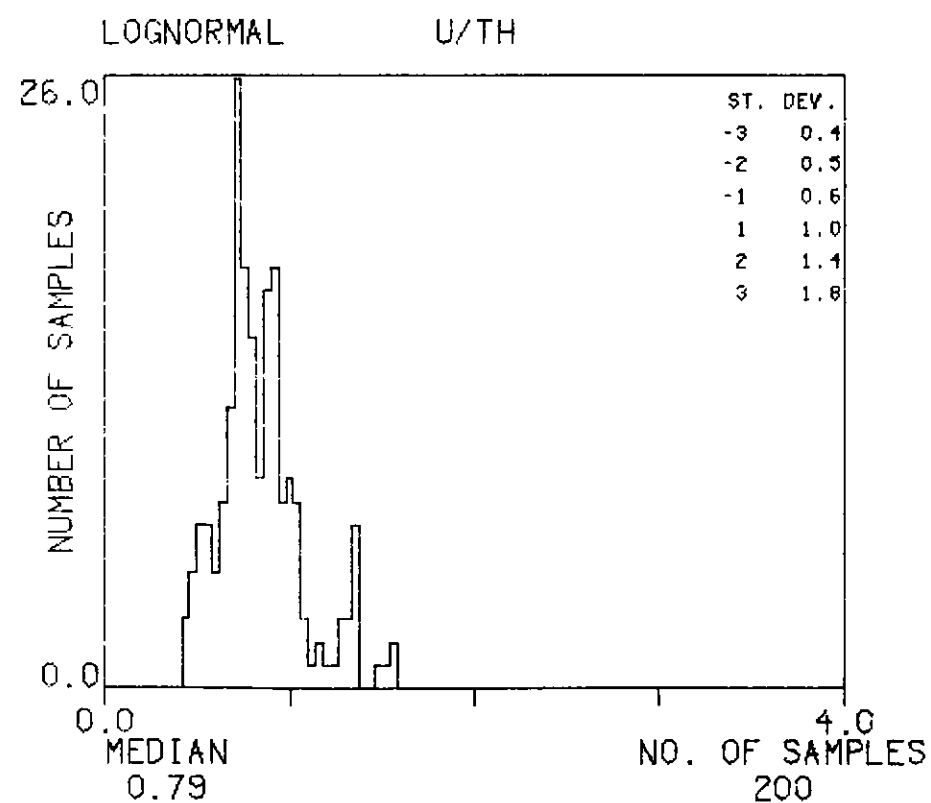
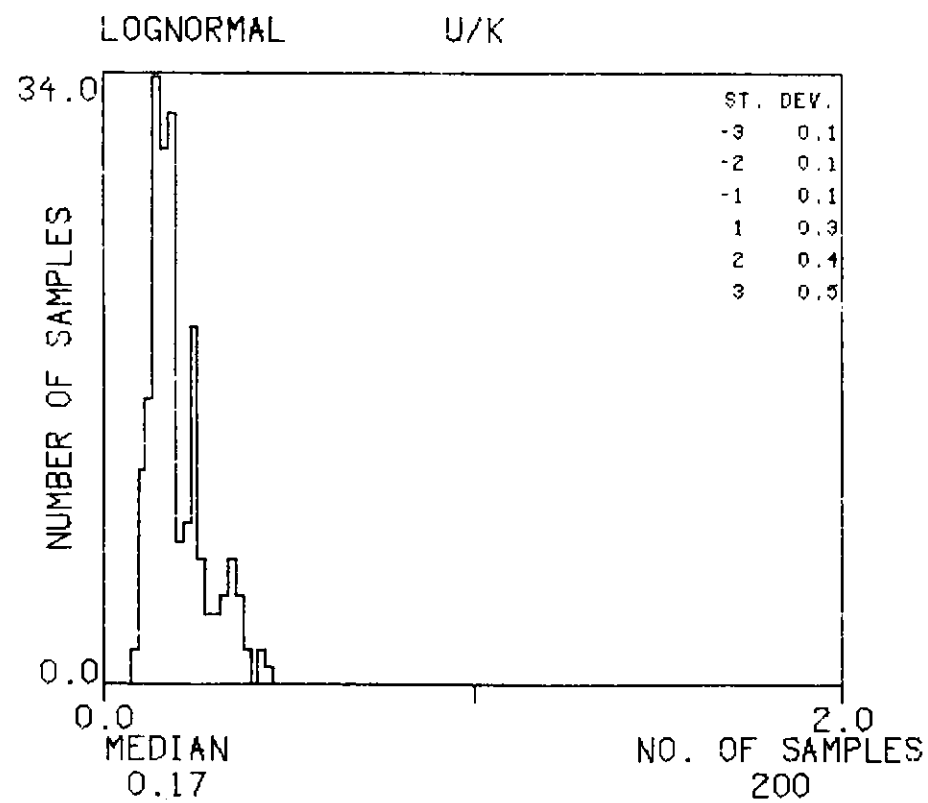
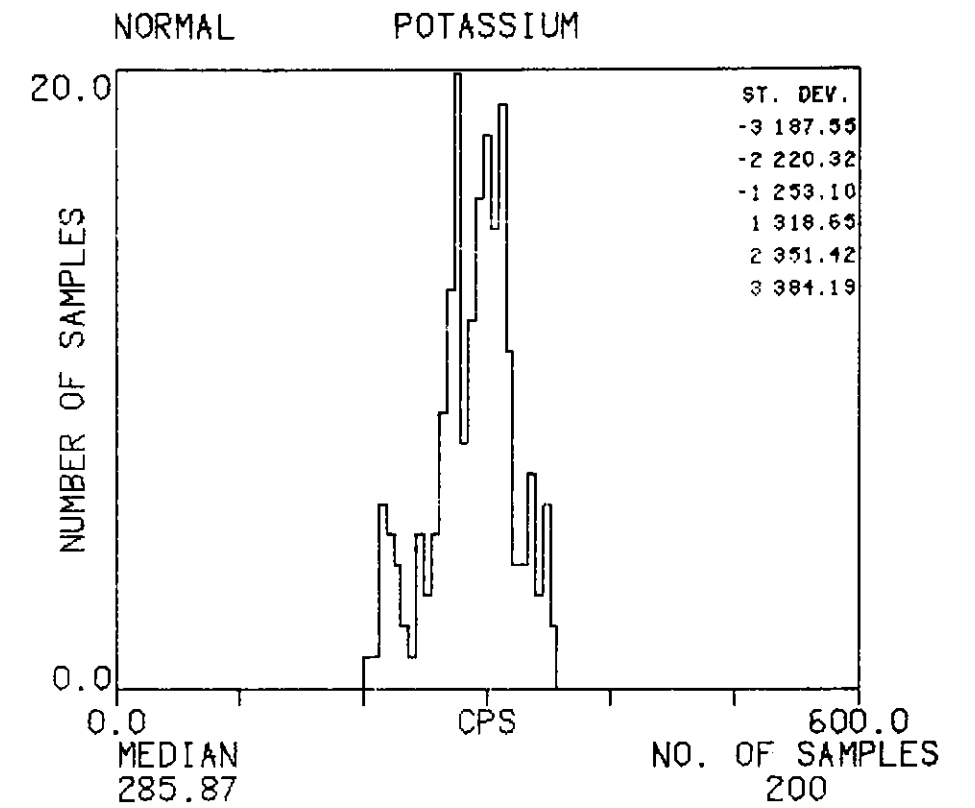
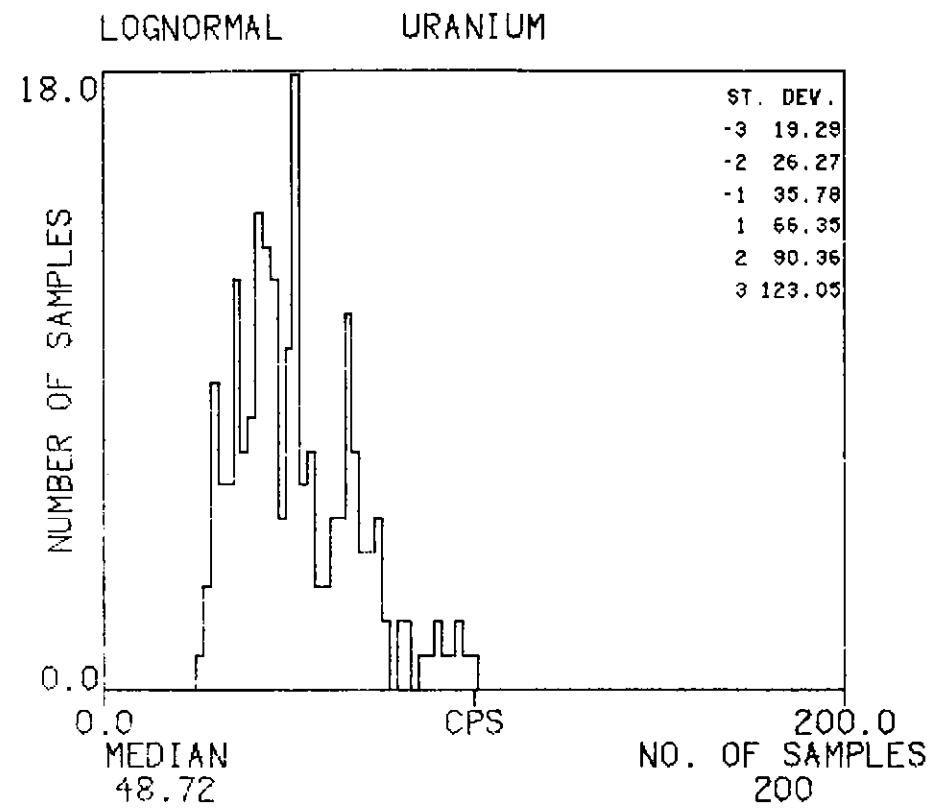
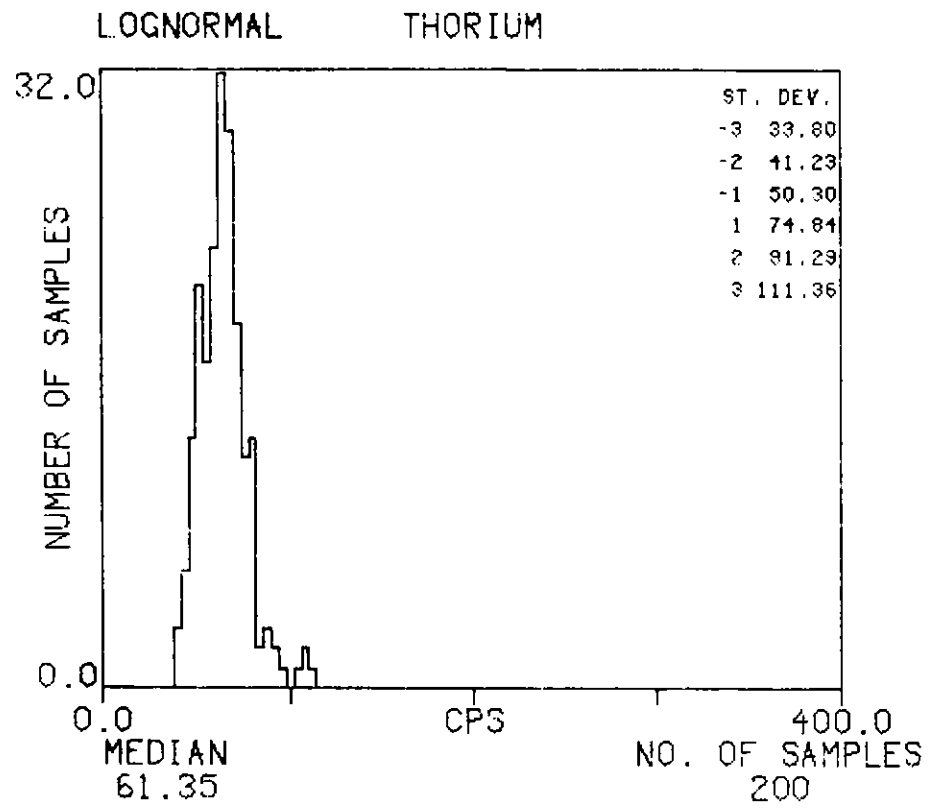
HISTOGRAMS : QLS

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



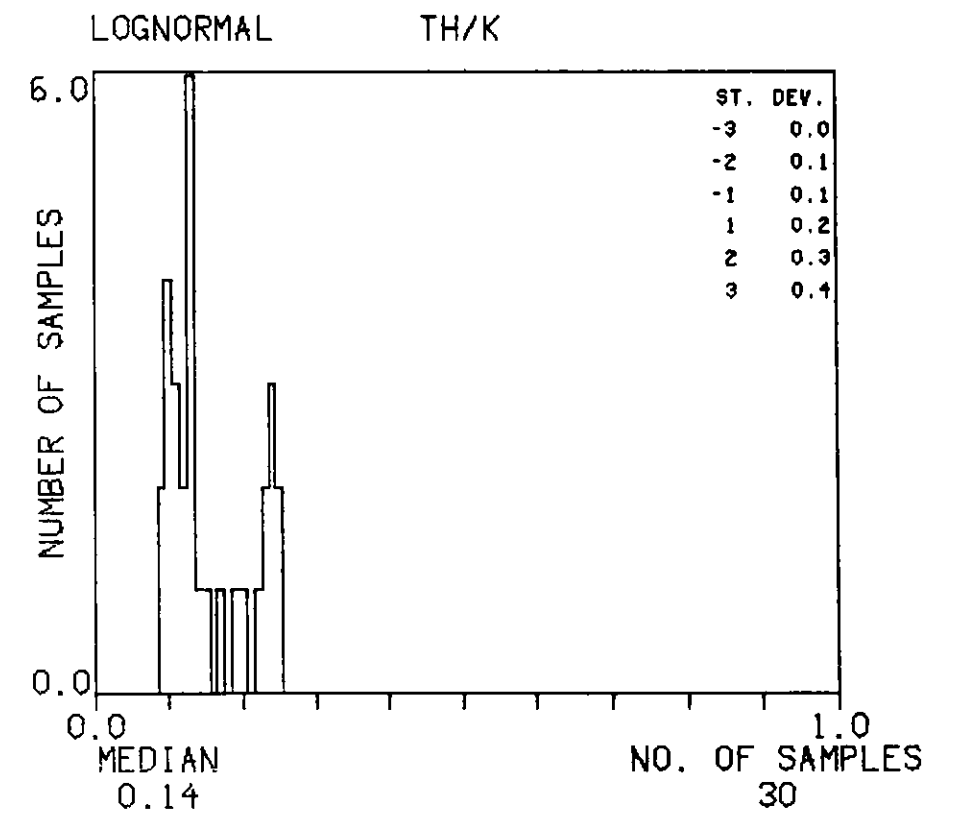
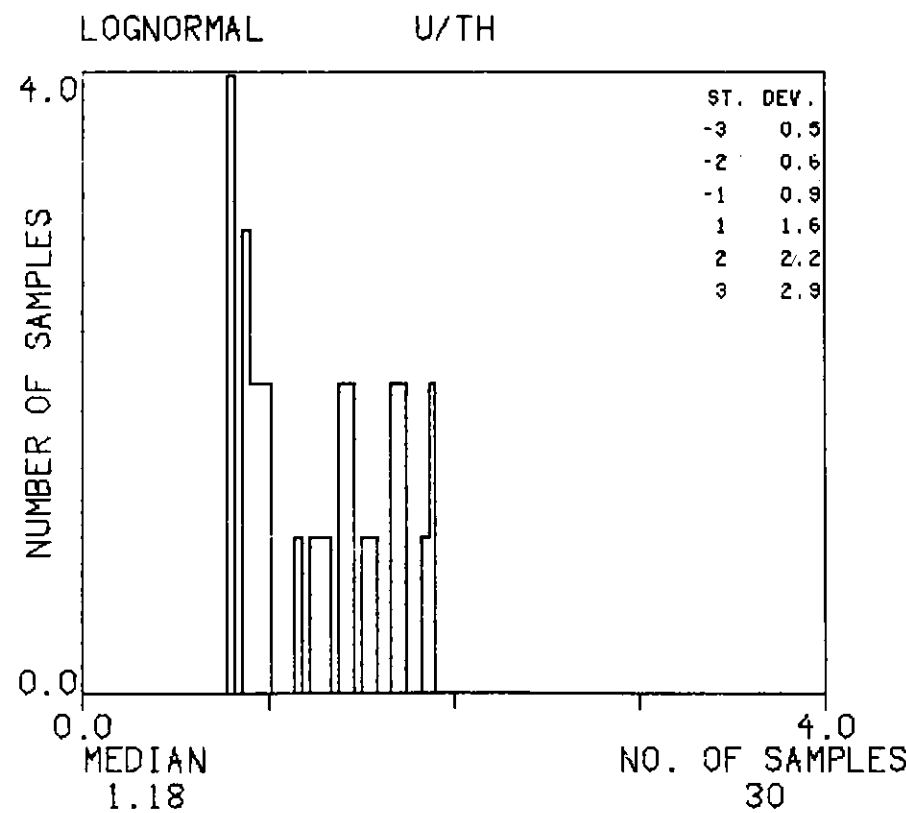
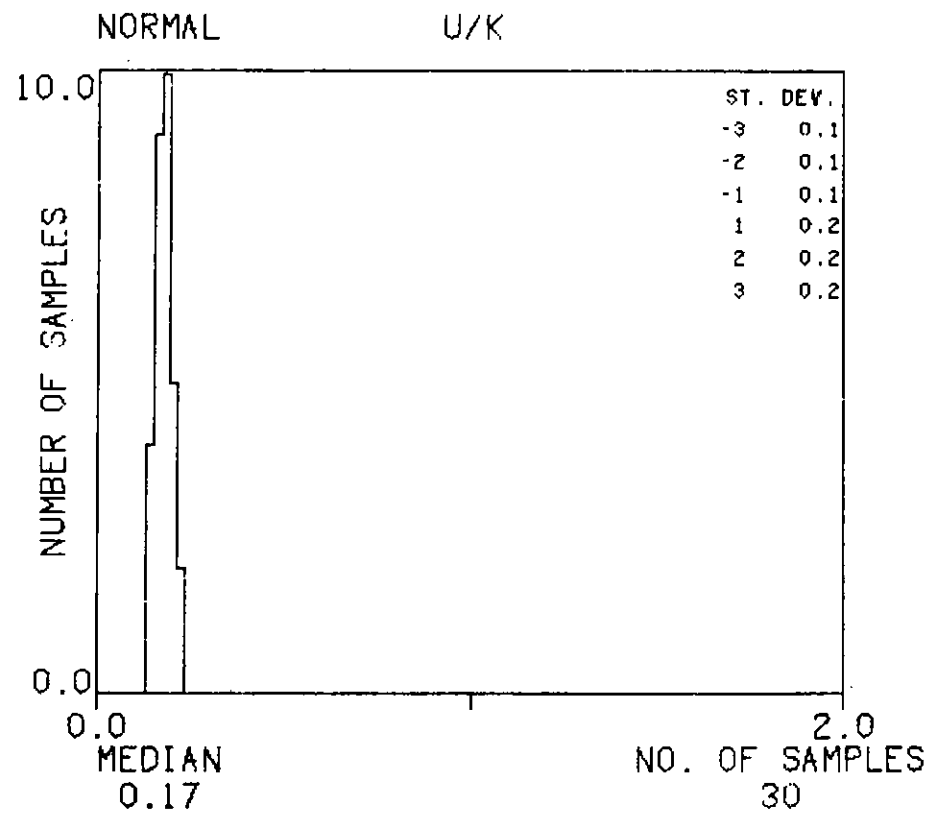
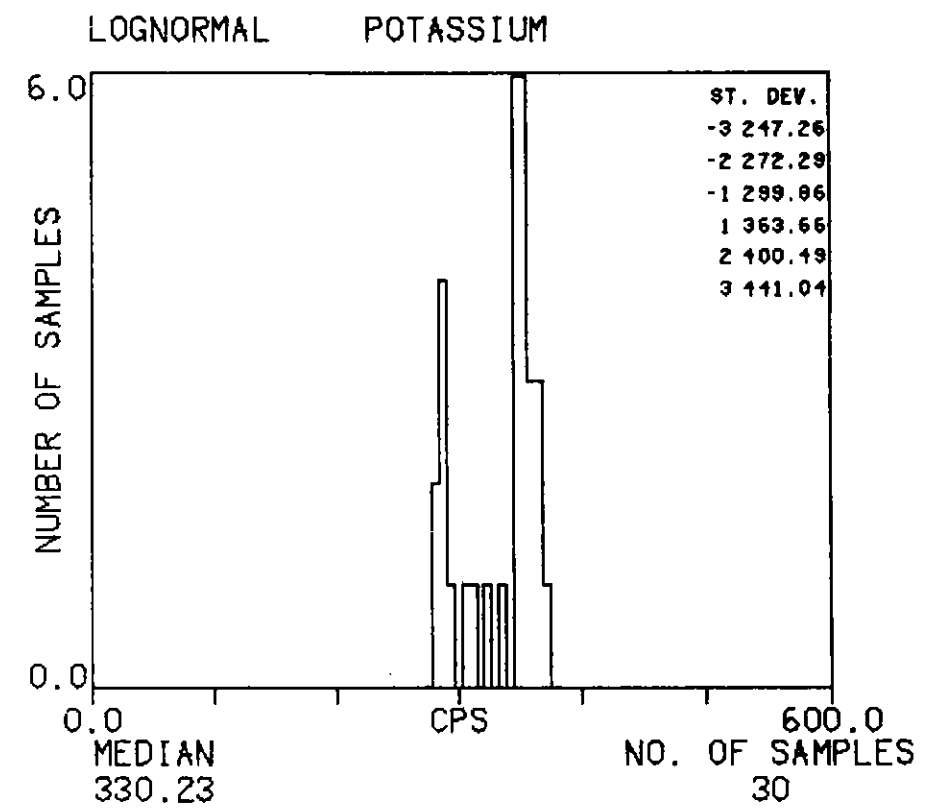
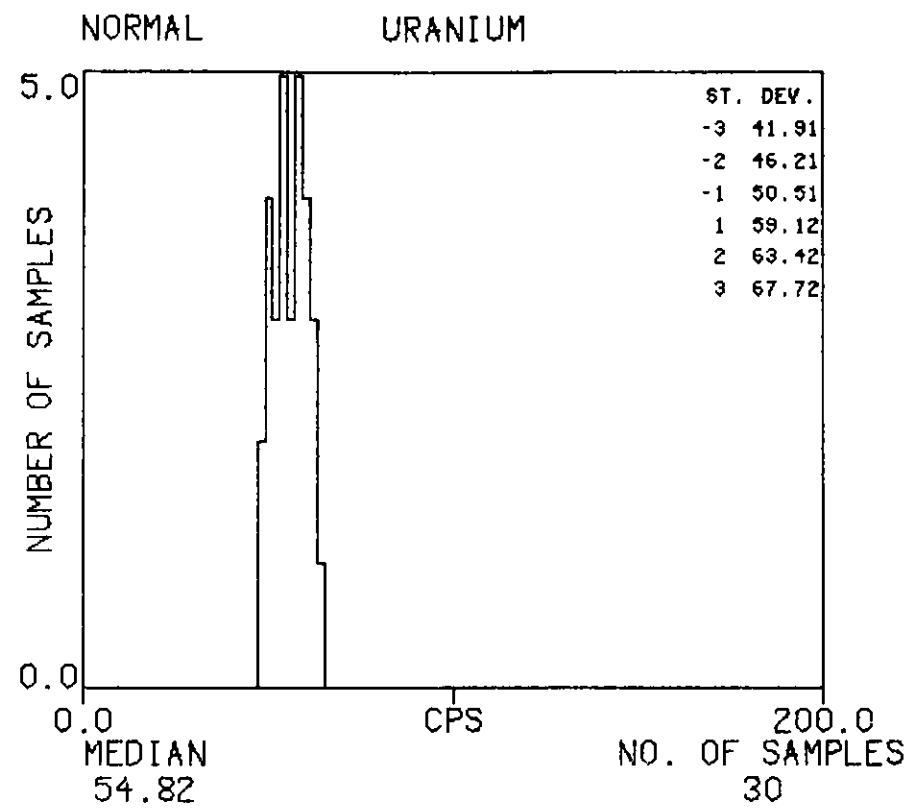
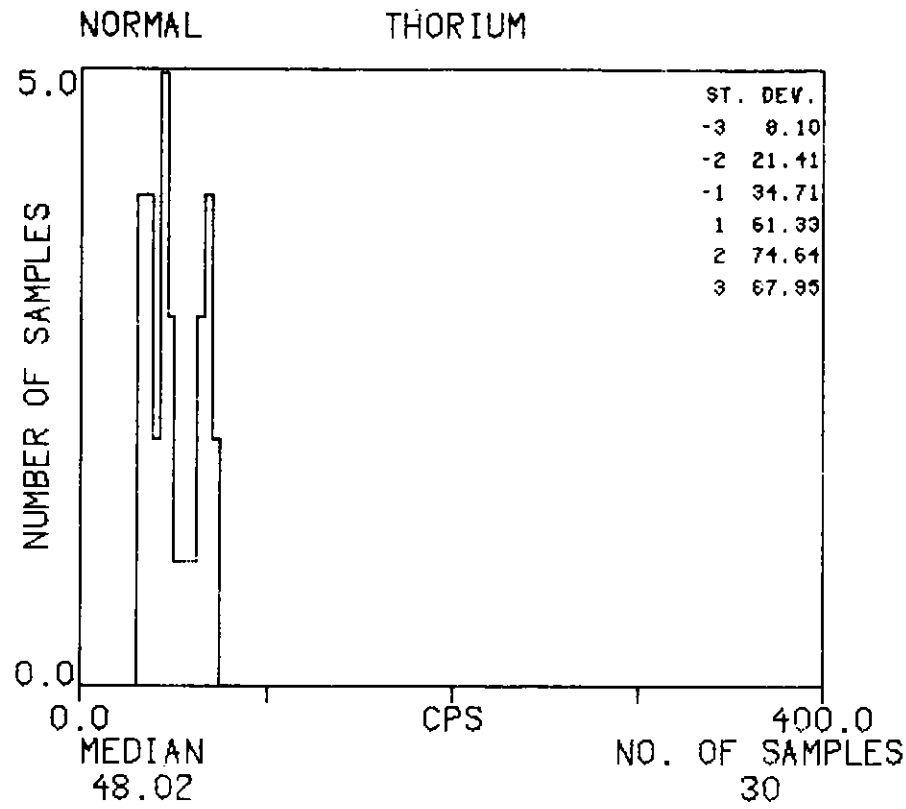
HISTOGRAMS : QWS

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



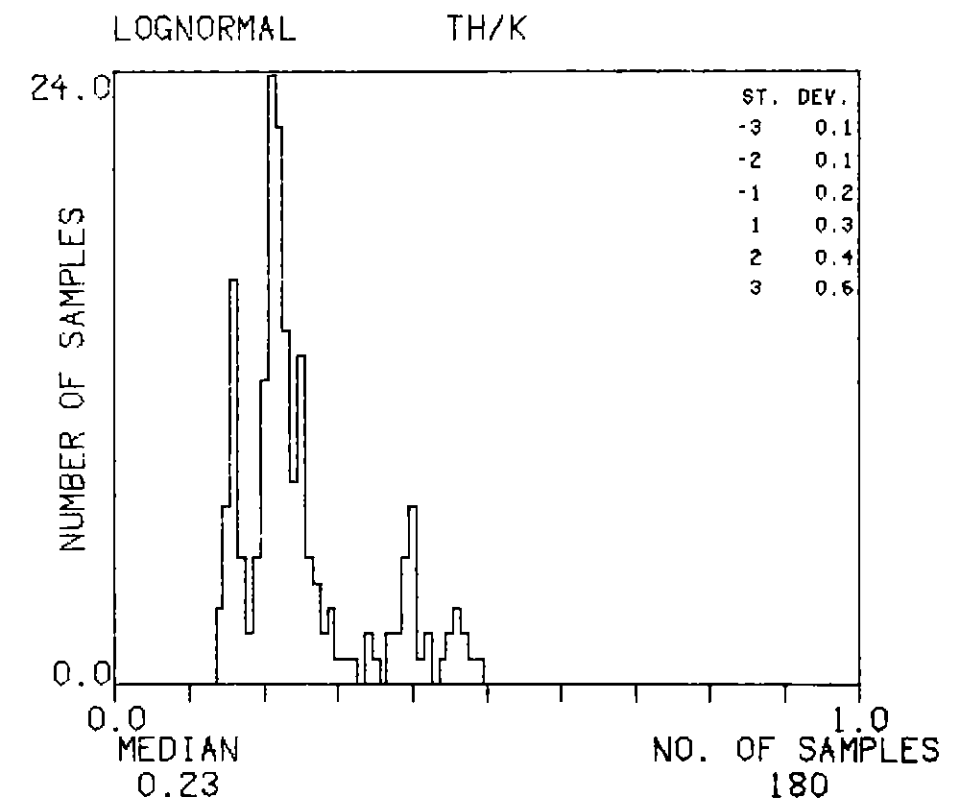
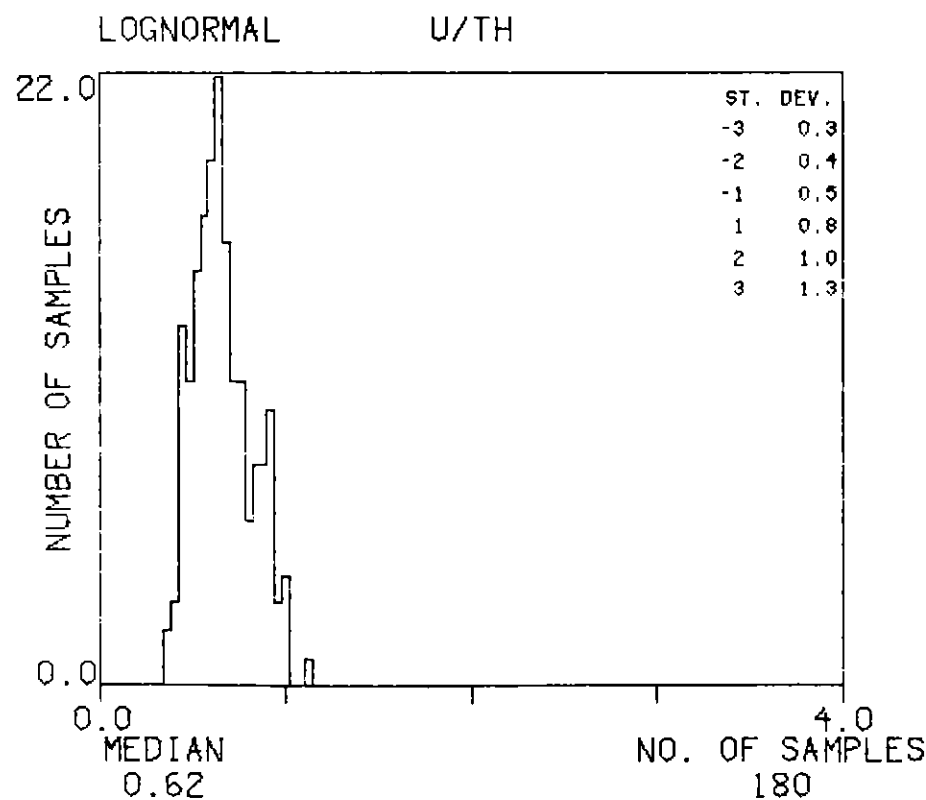
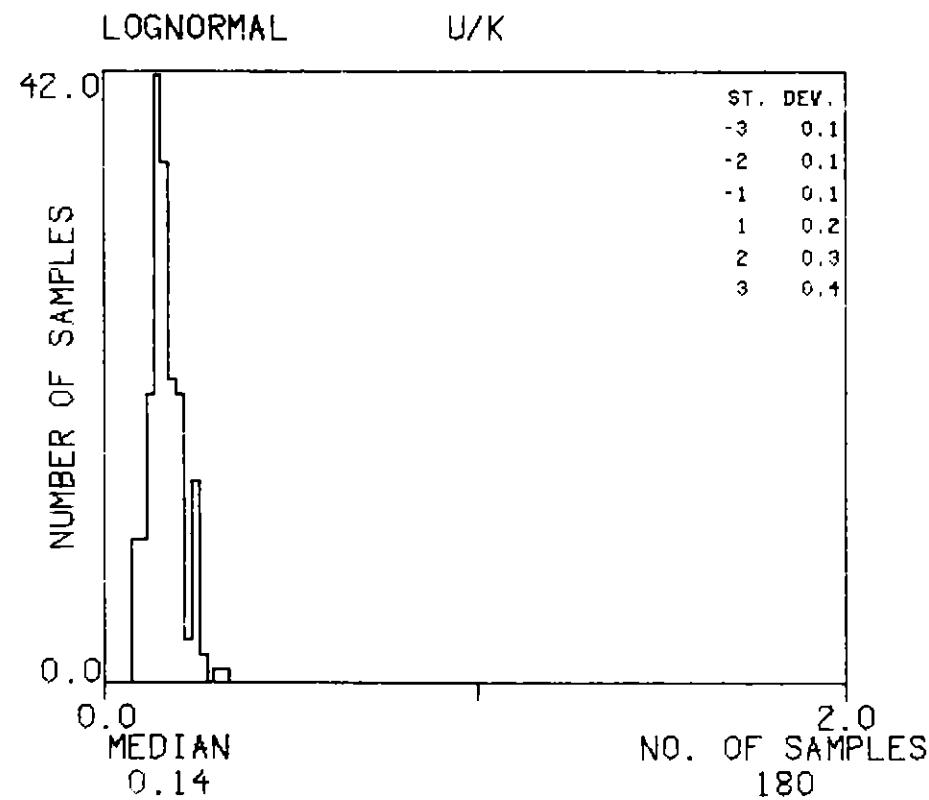
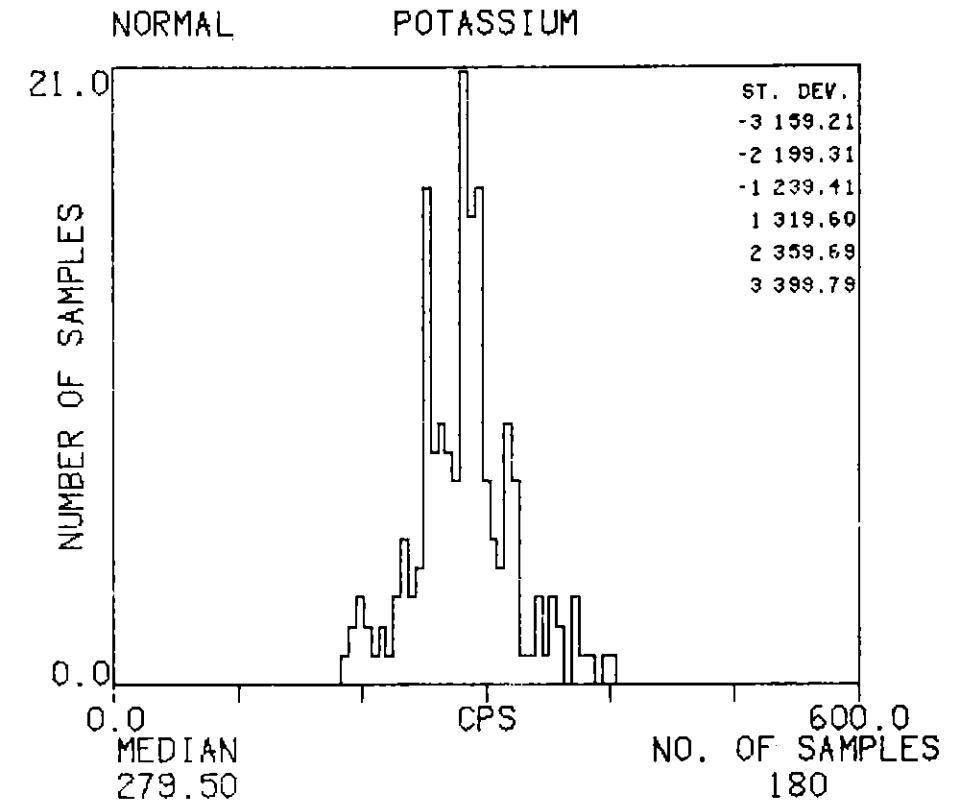
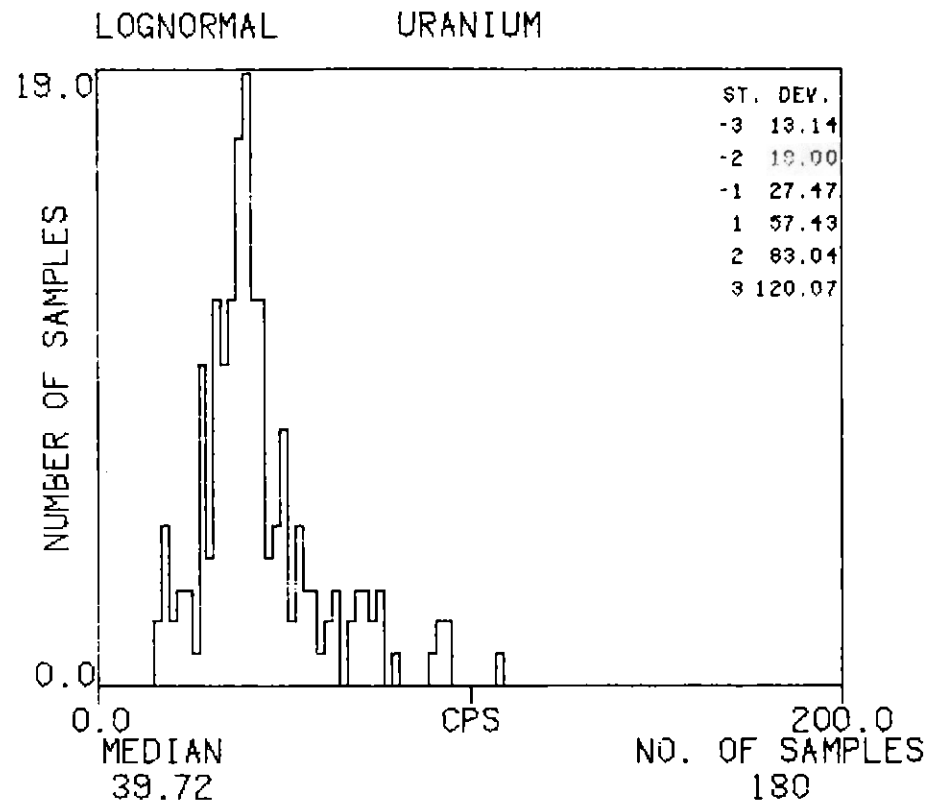
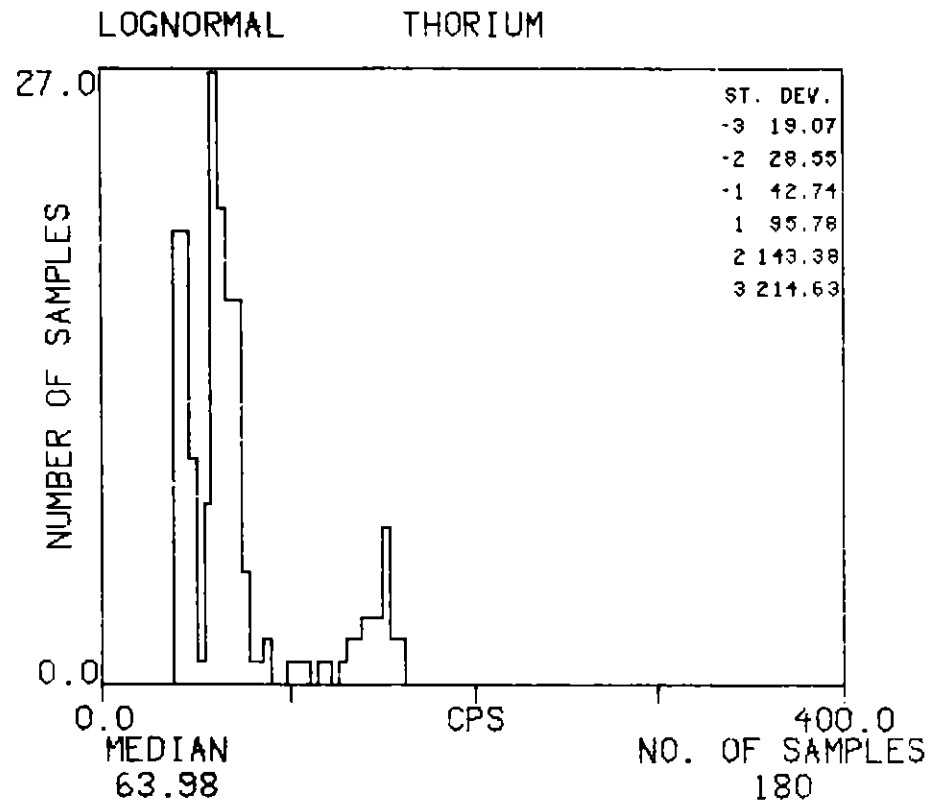
HISTOGRAMS : QDS

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



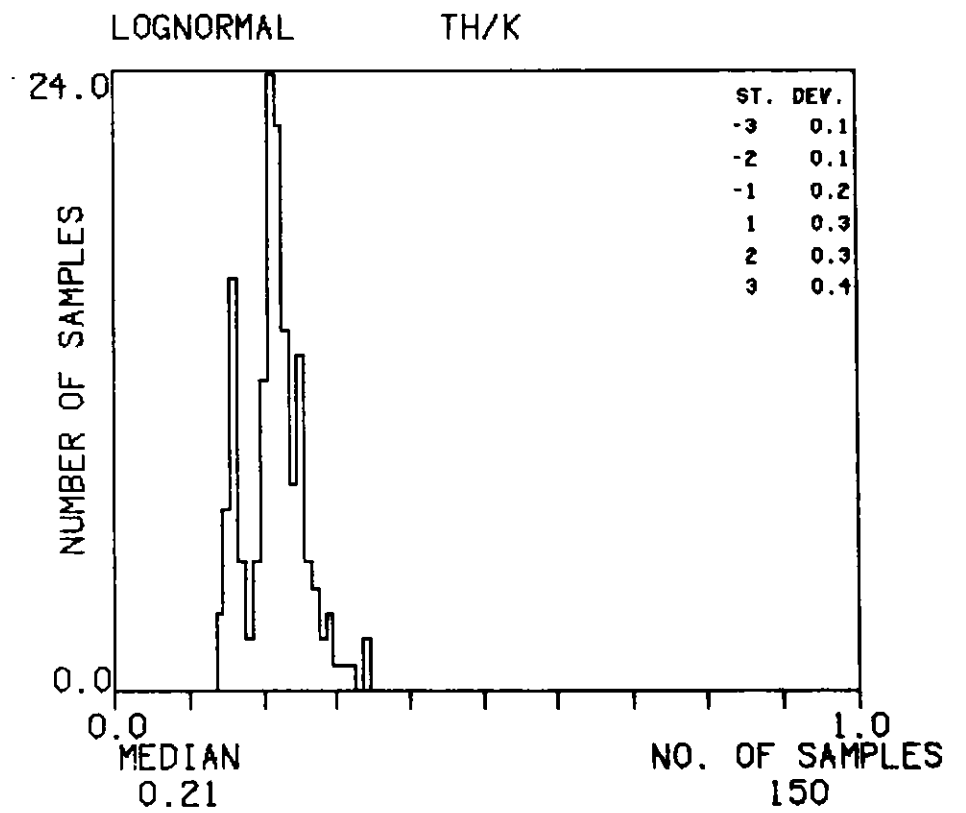
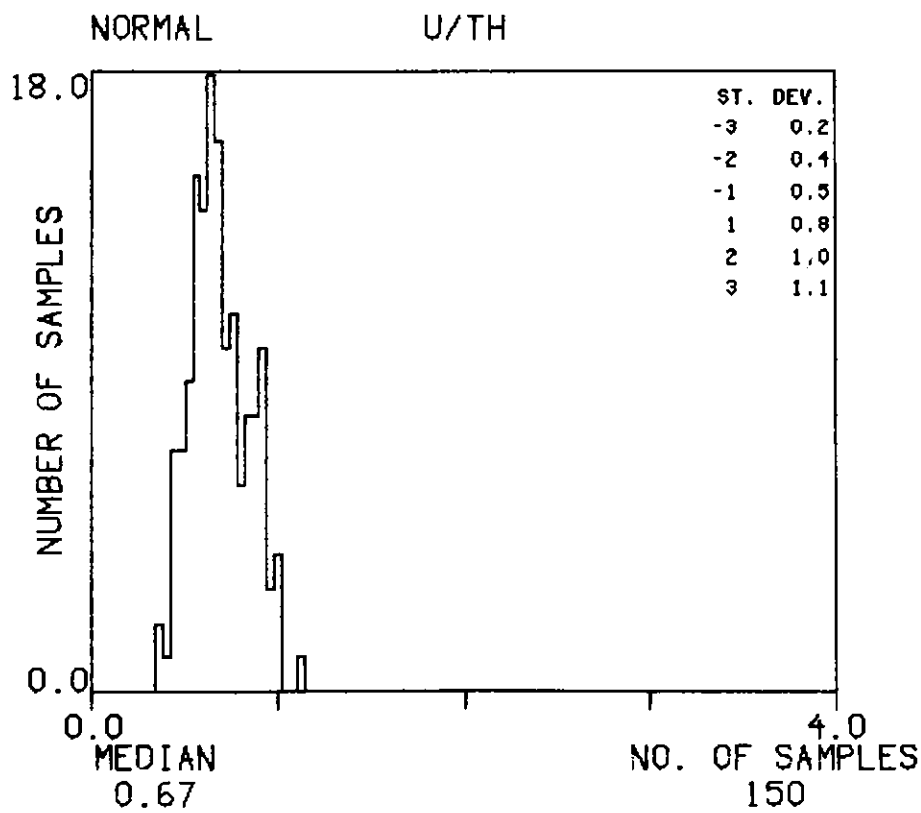
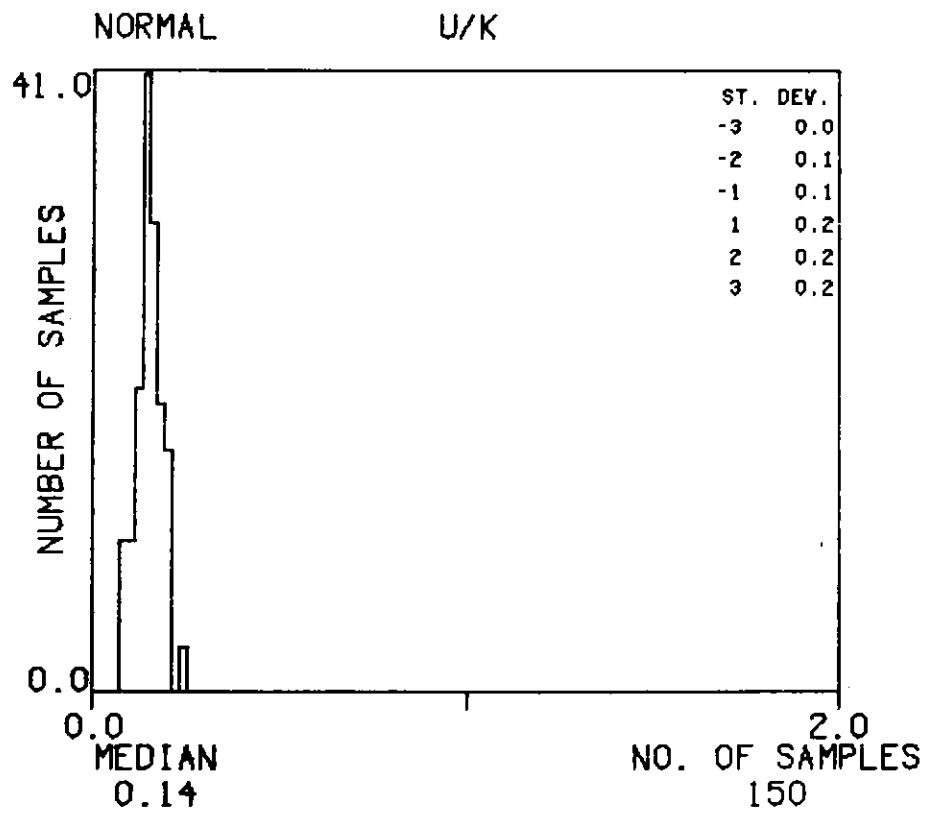
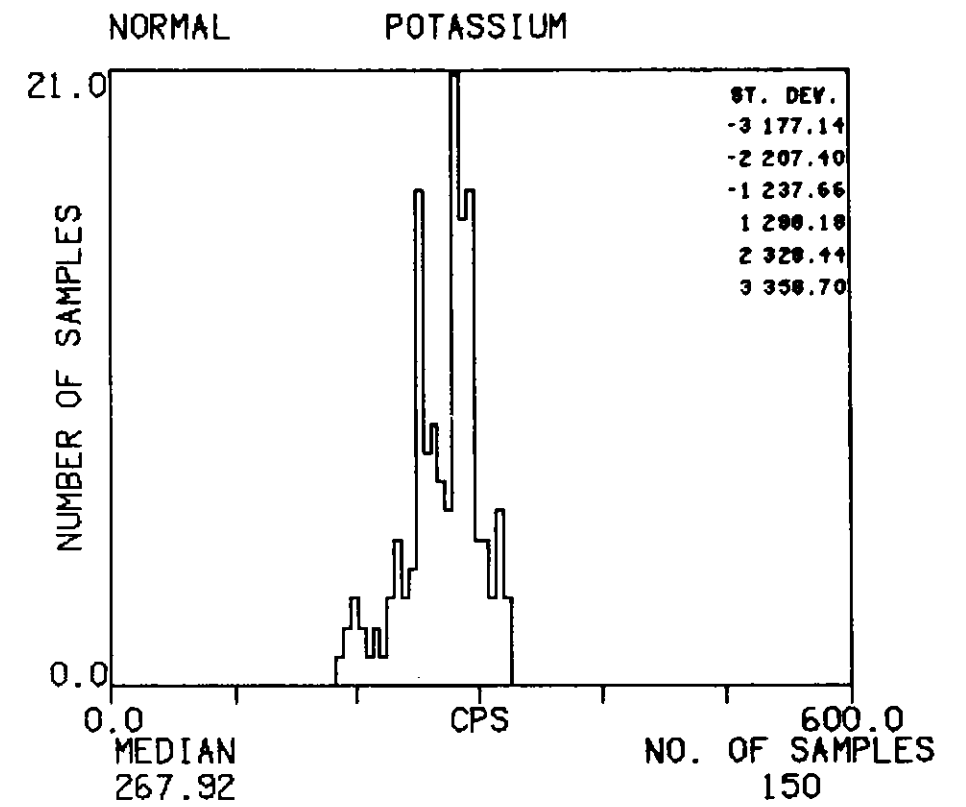
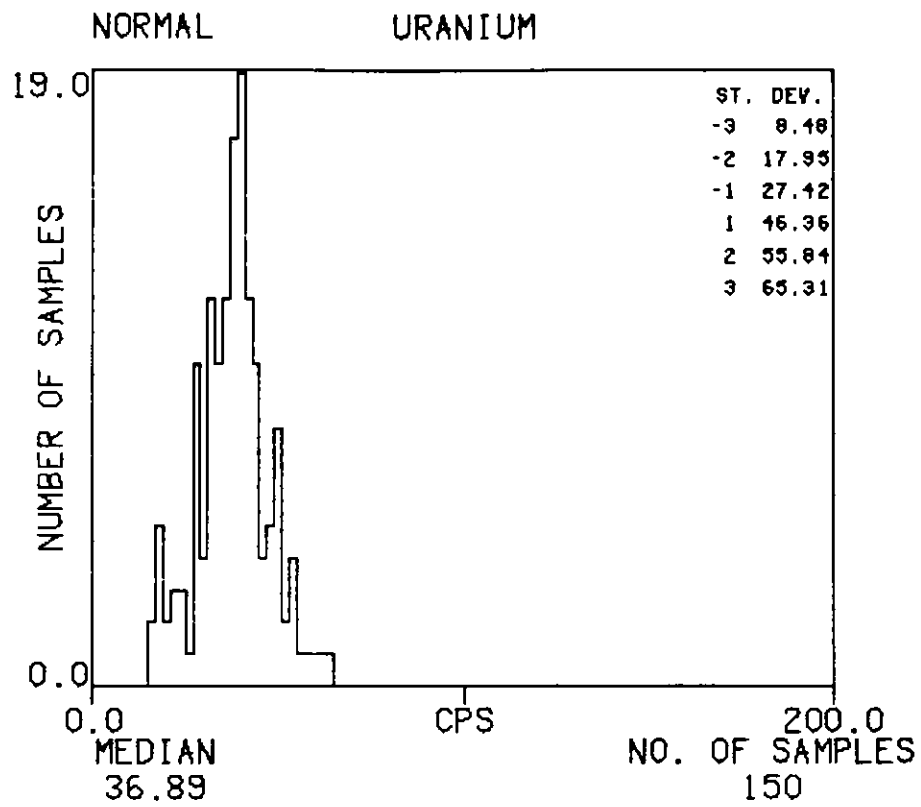
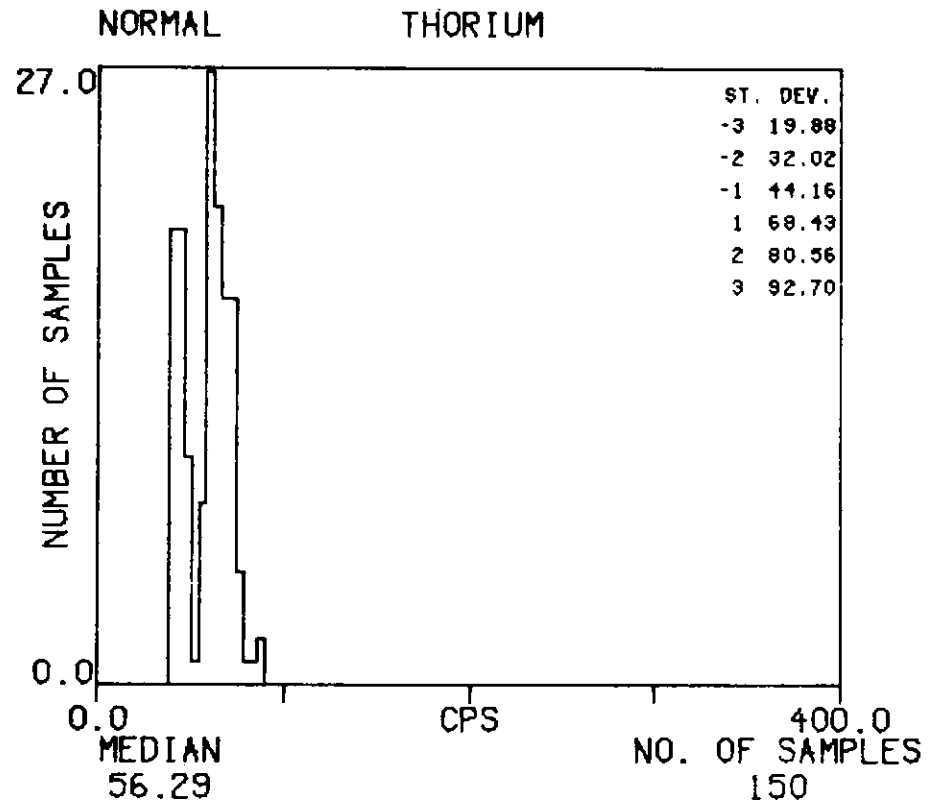
HISTOGRAMS : QVR

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



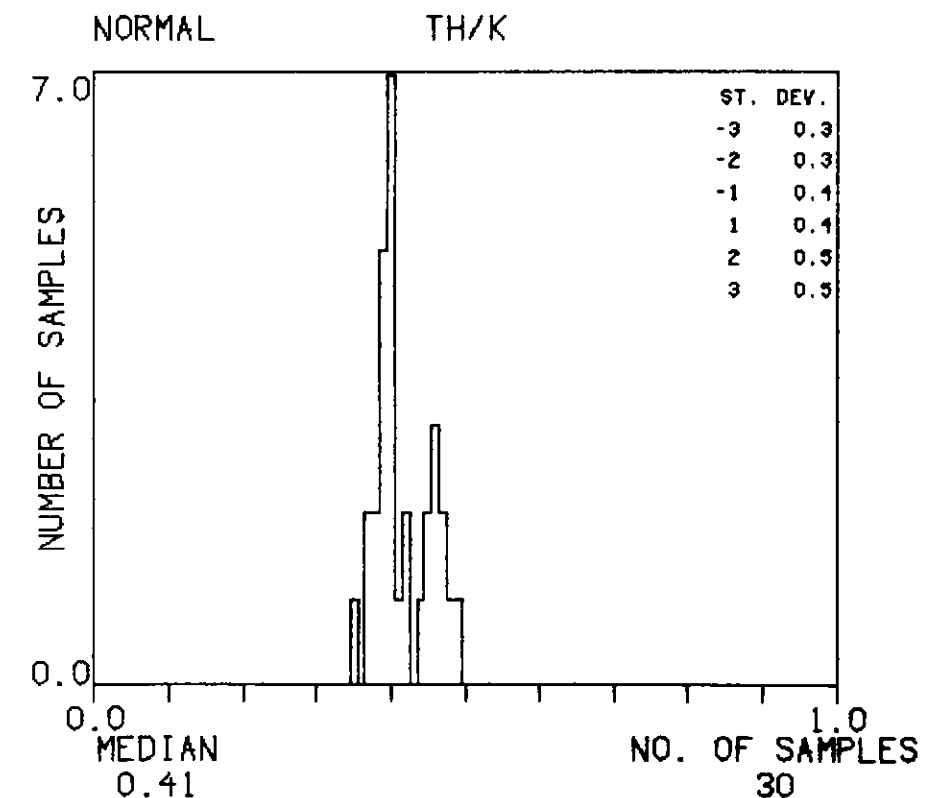
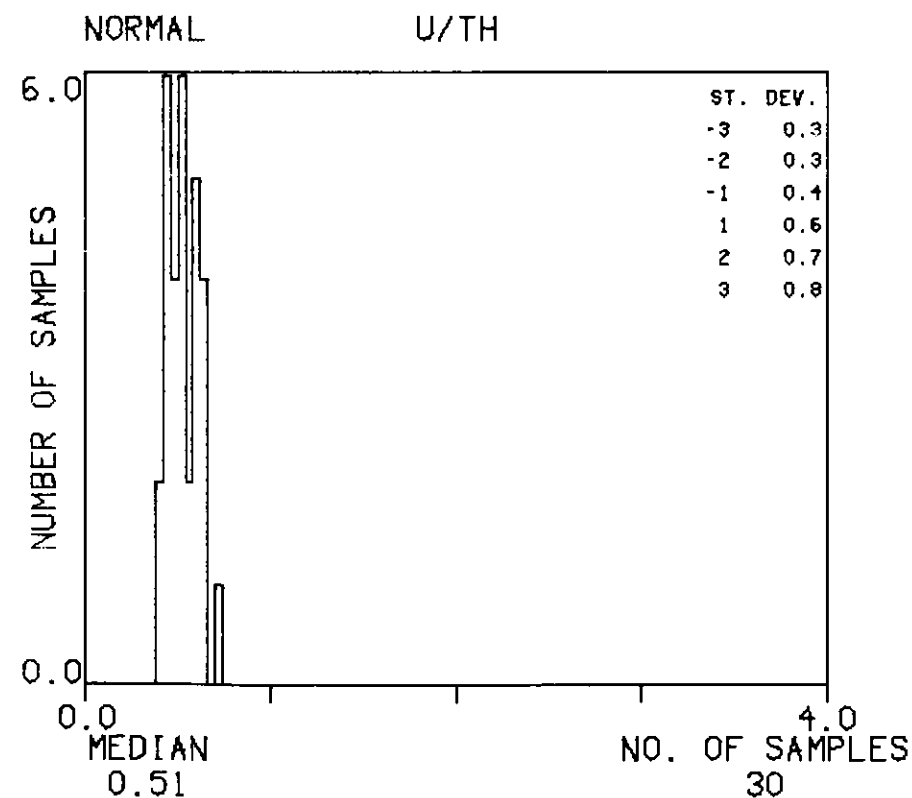
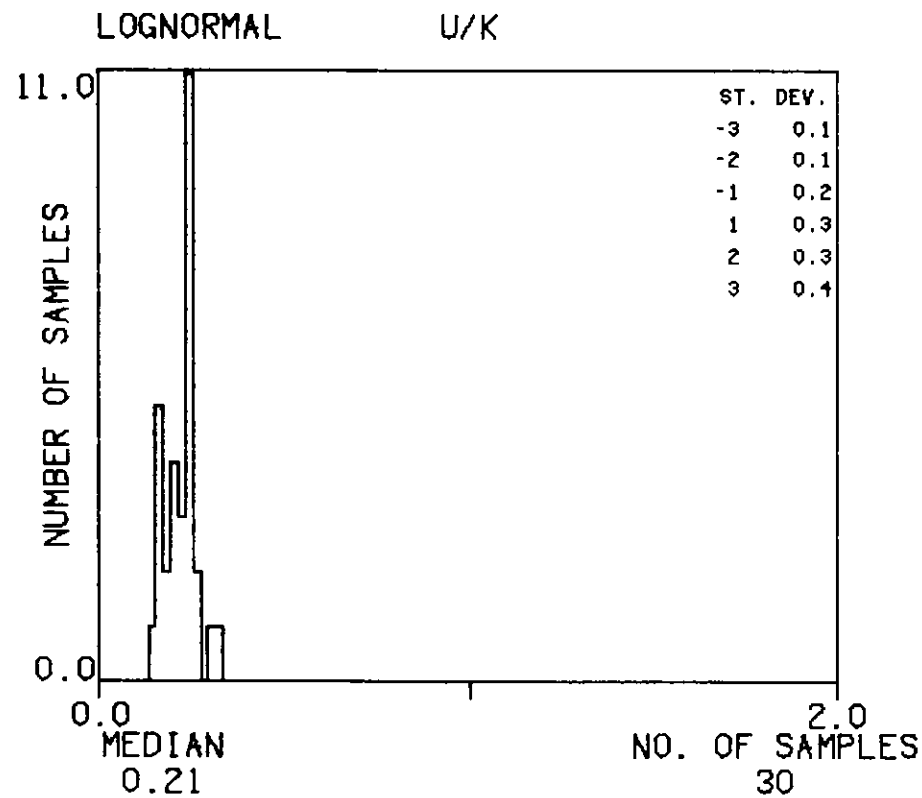
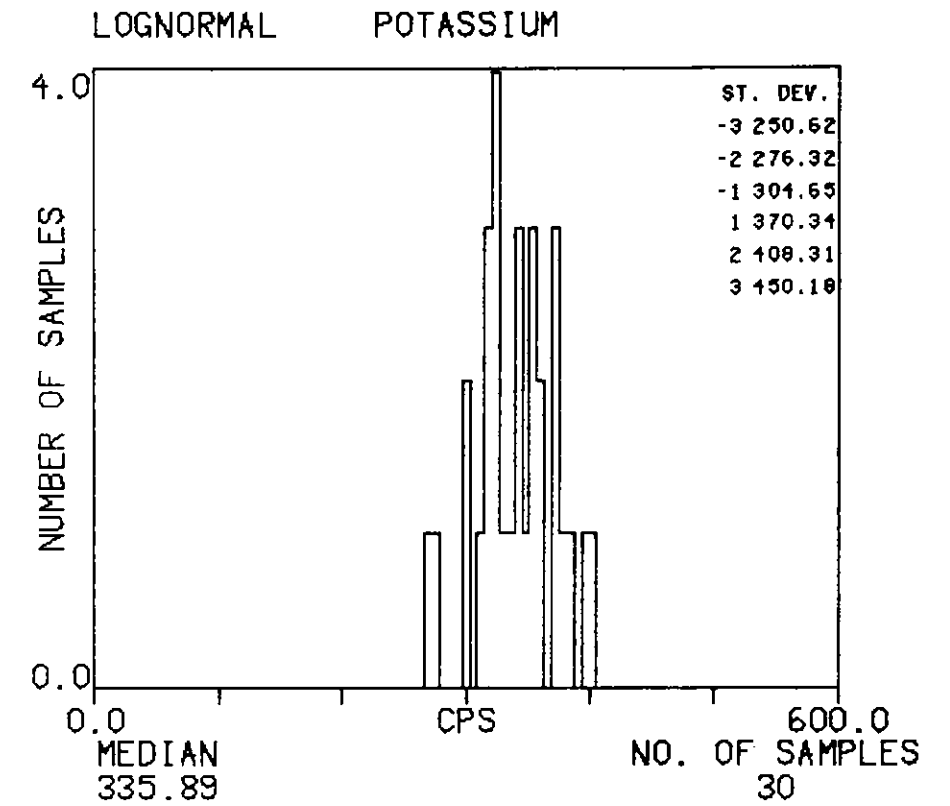
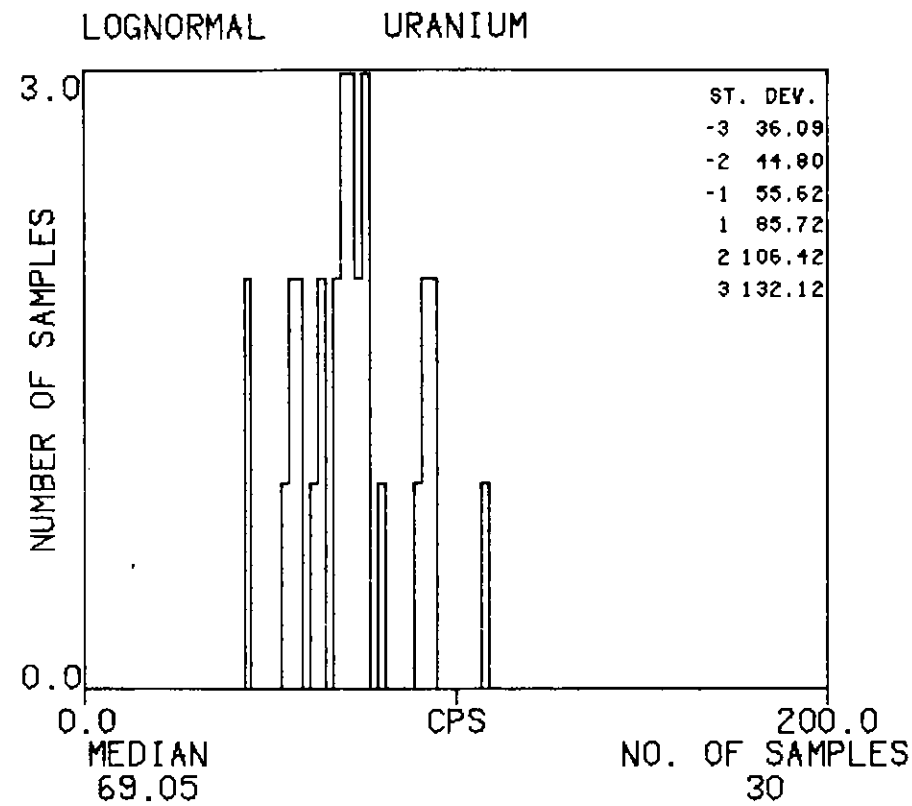
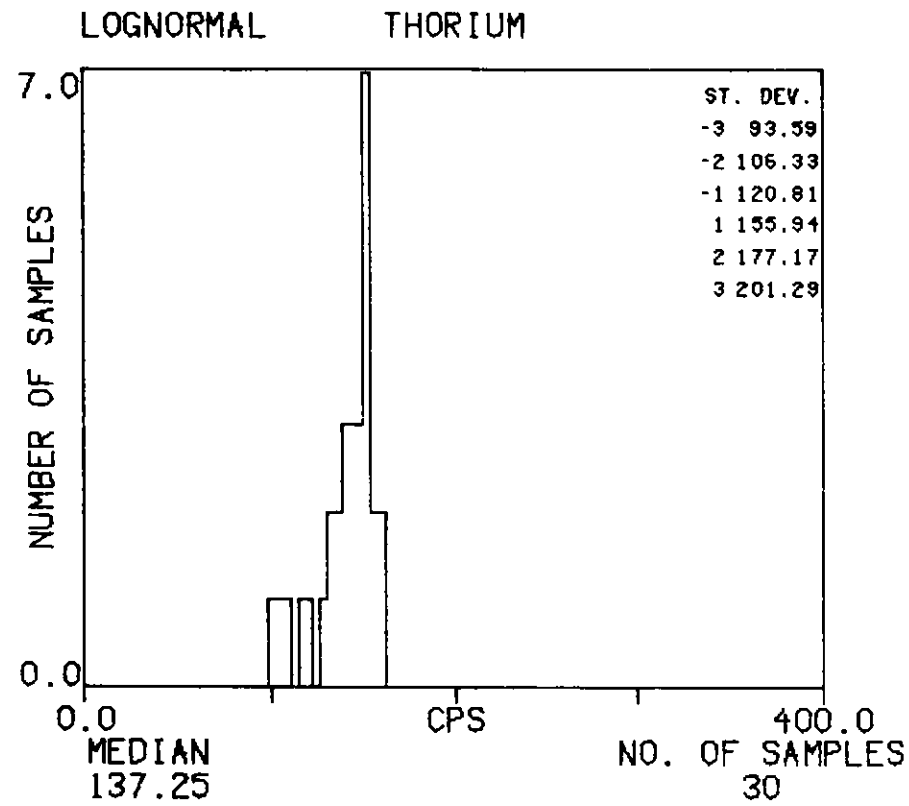
HISTOGRAMS : QVR-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



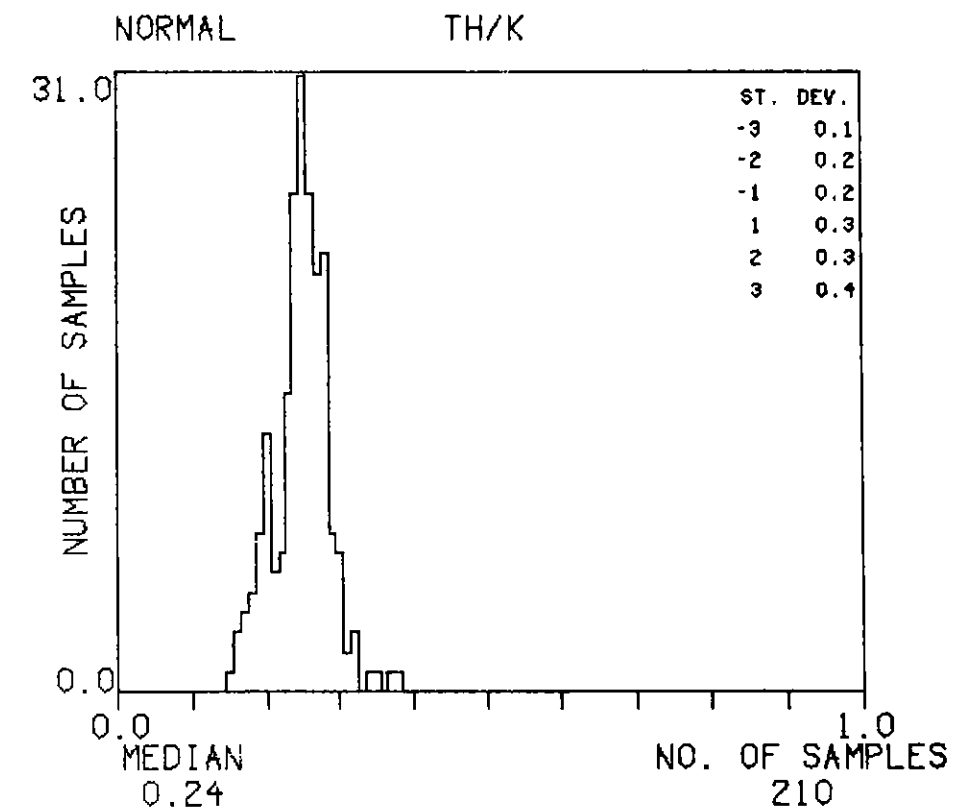
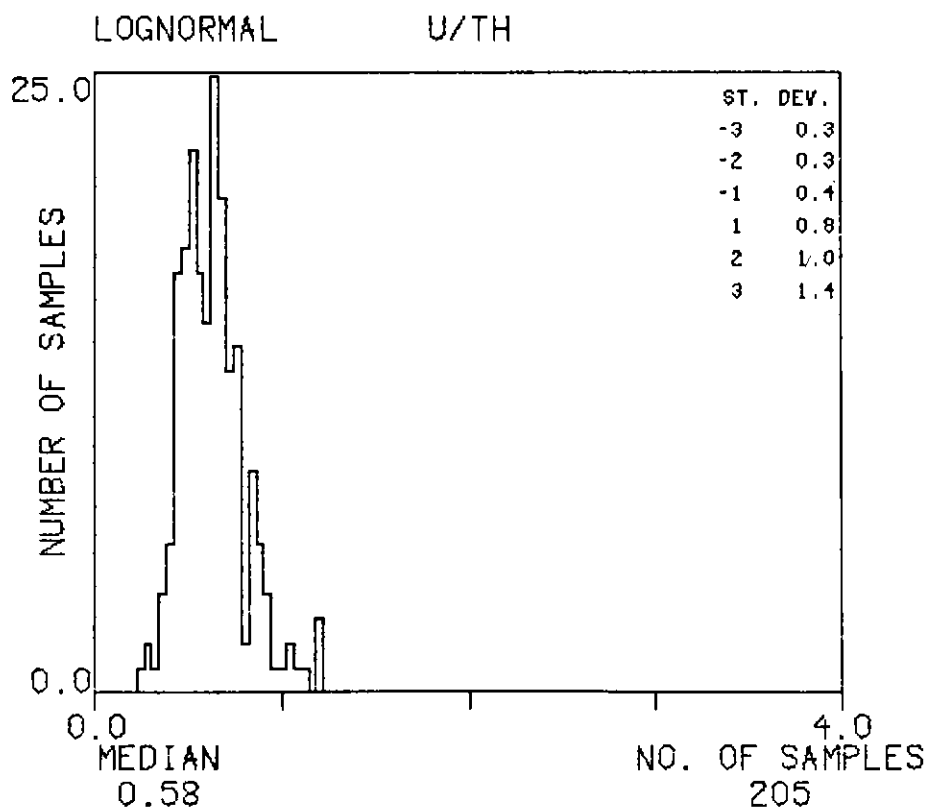
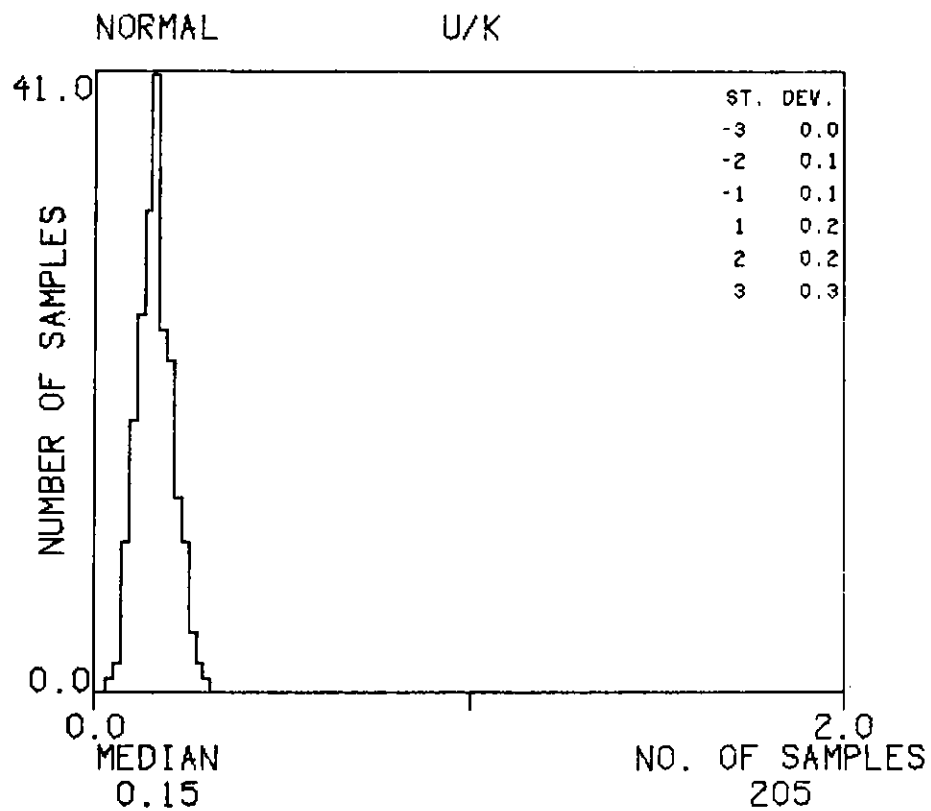
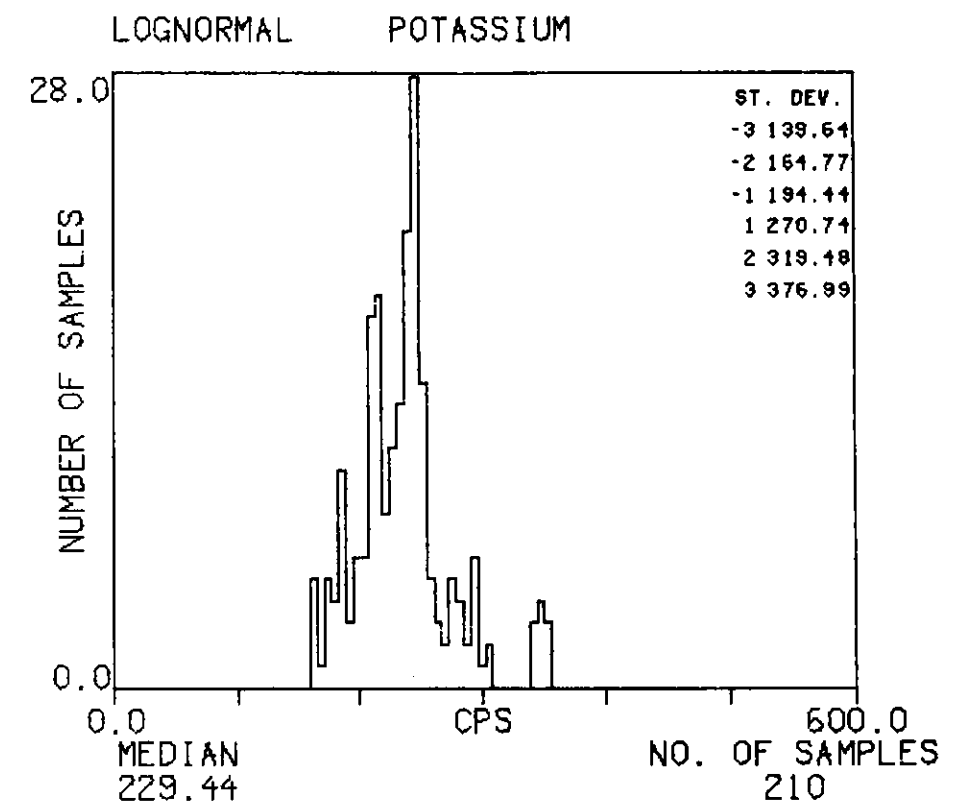
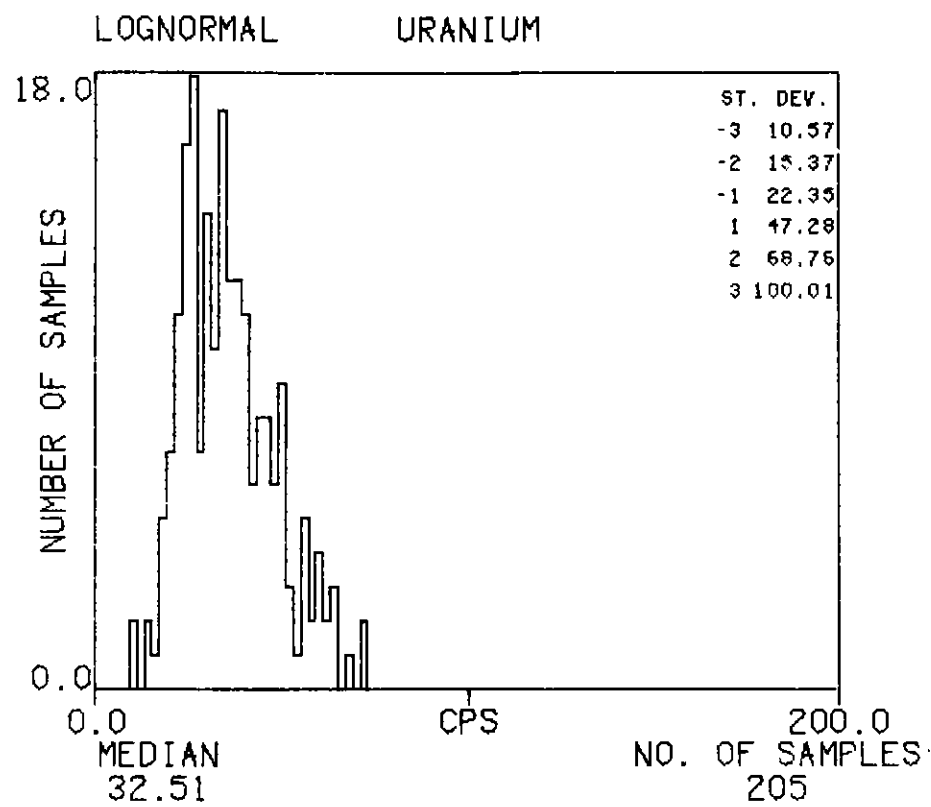
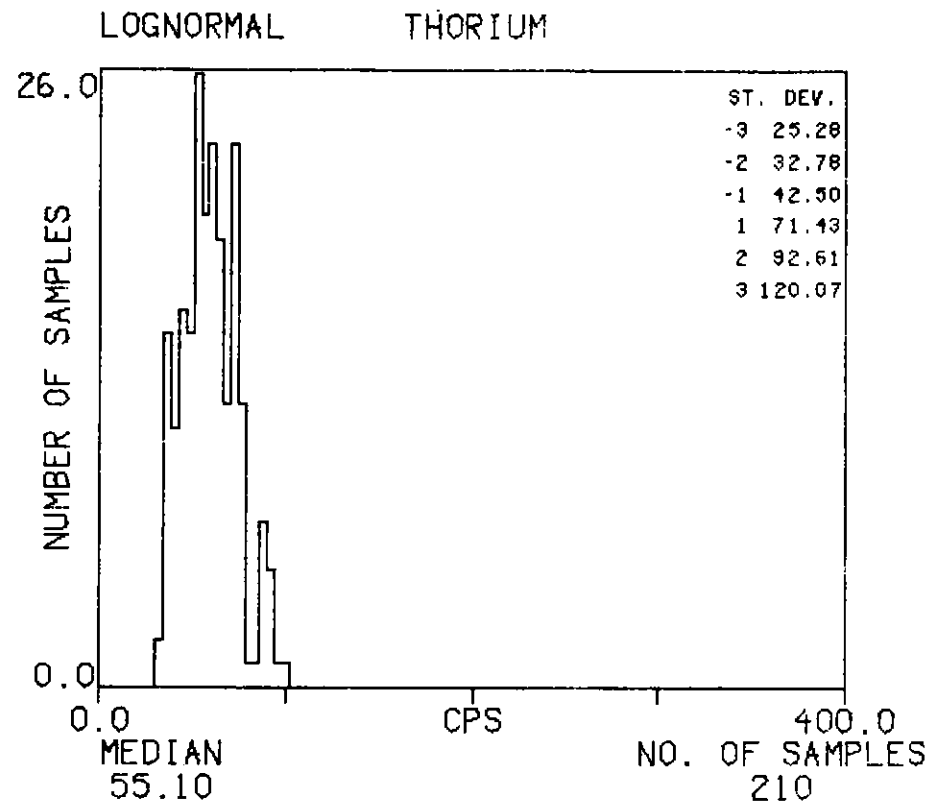
HISTOGRAMS : QVR-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



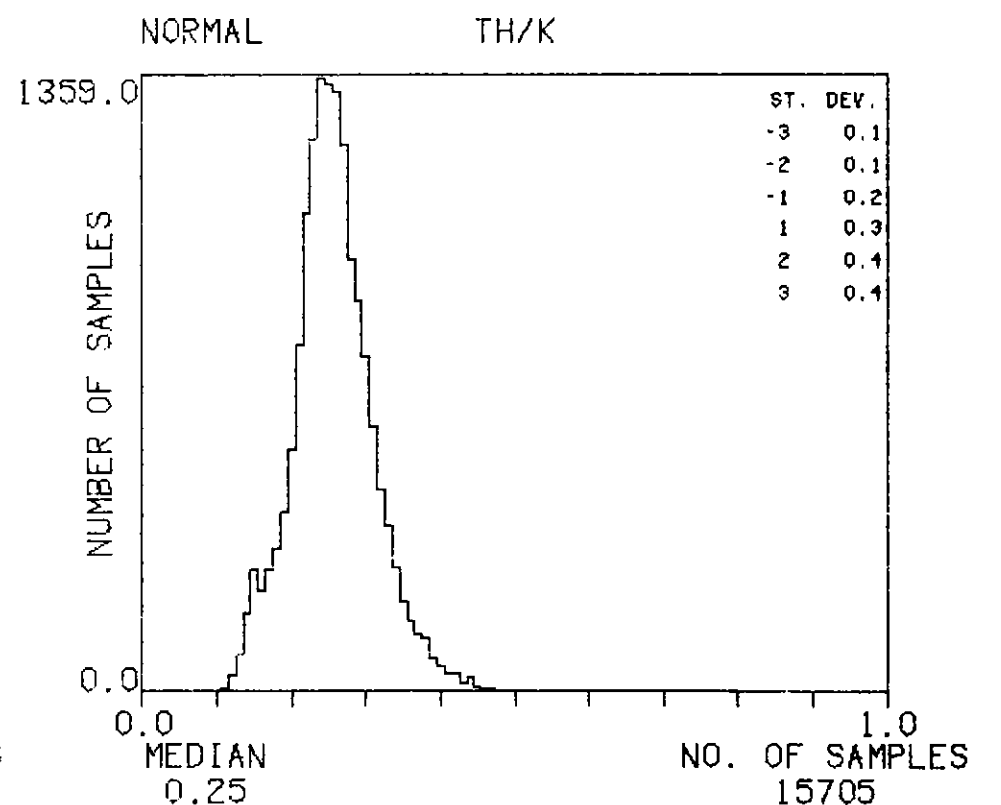
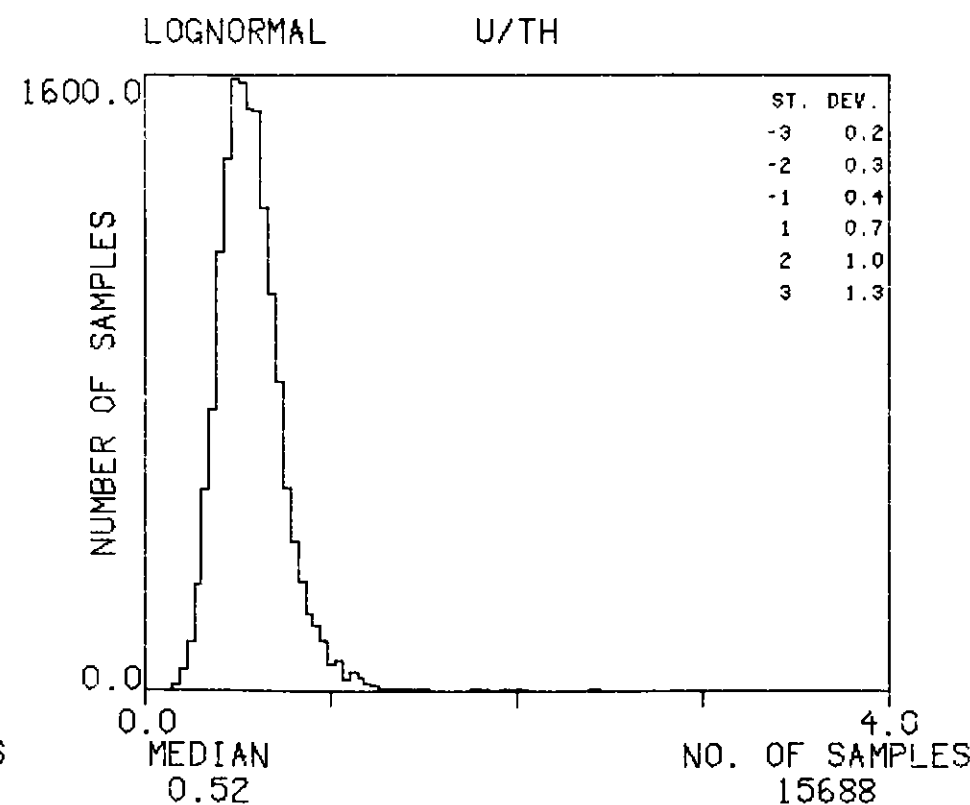
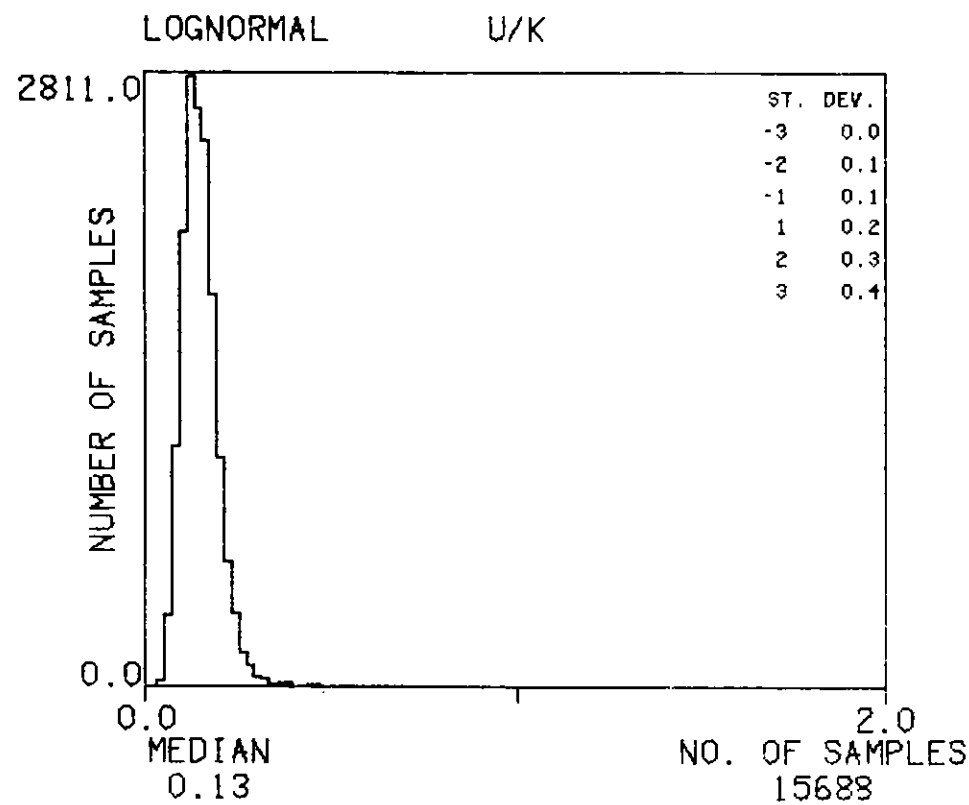
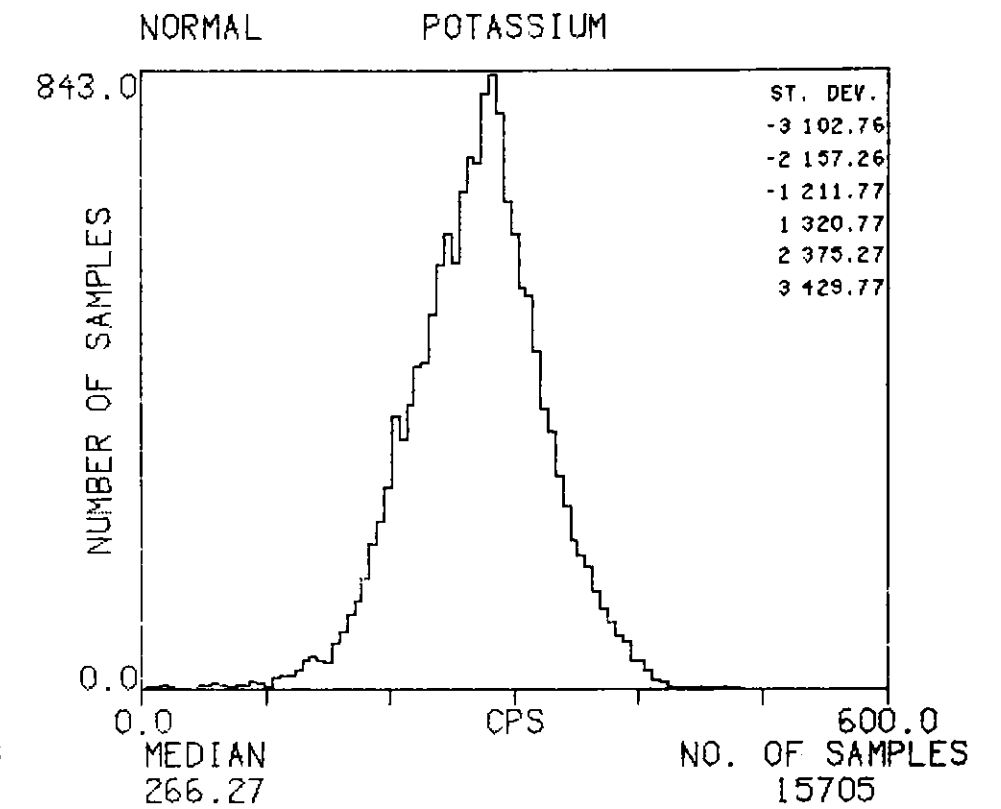
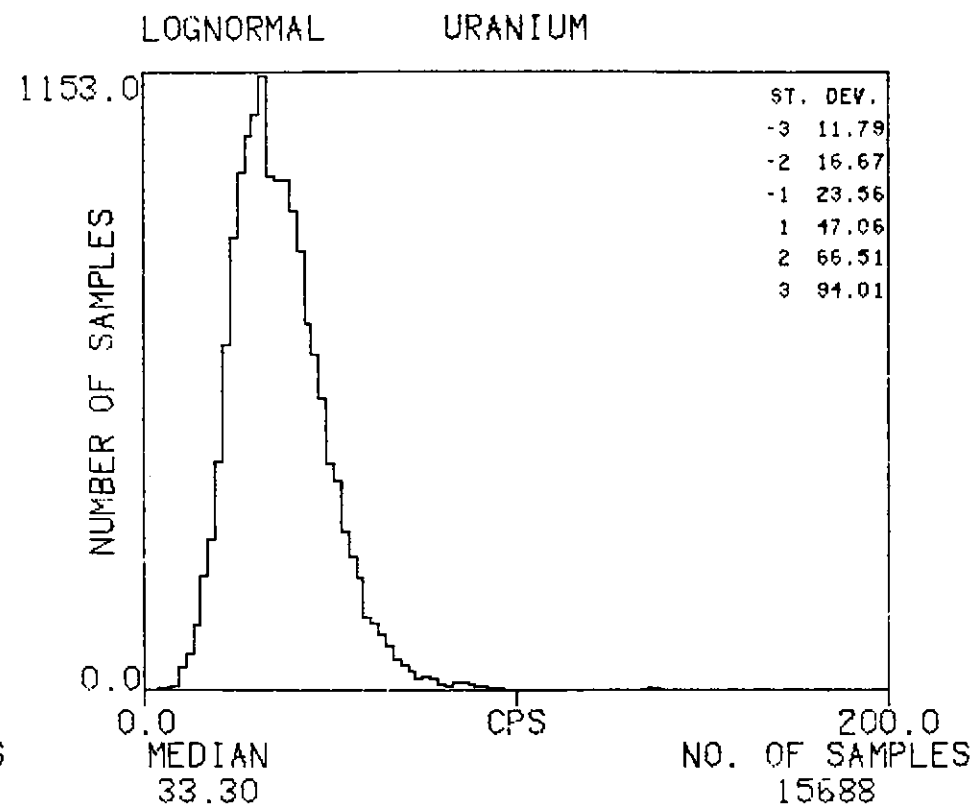
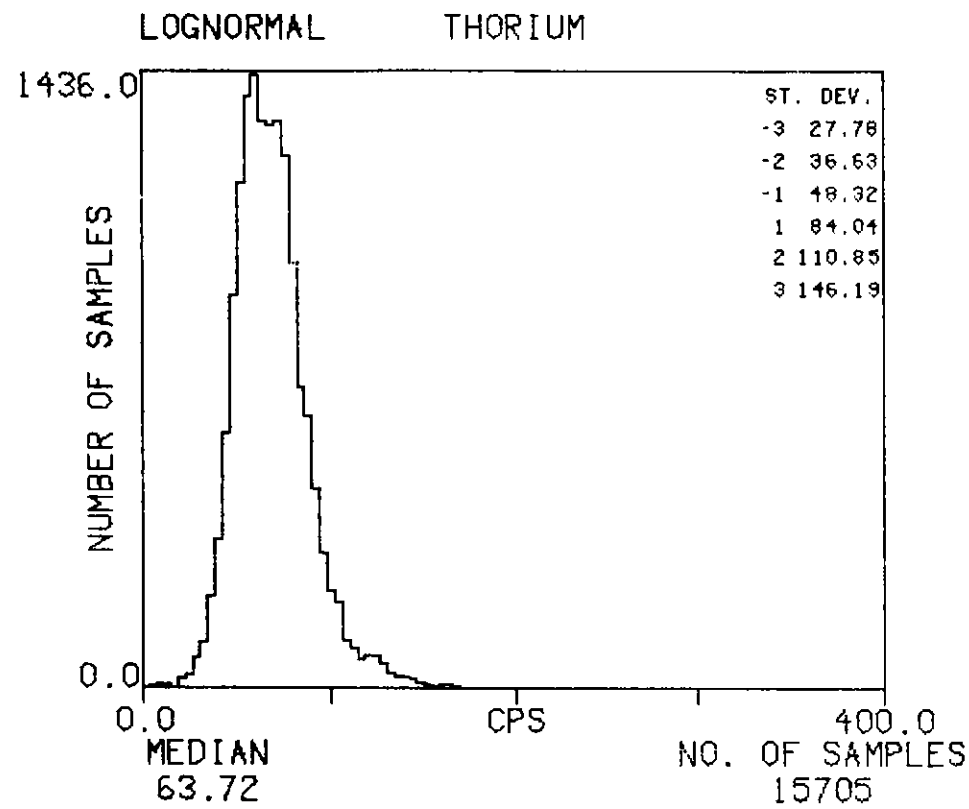
HISTOGRAMS : QB

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



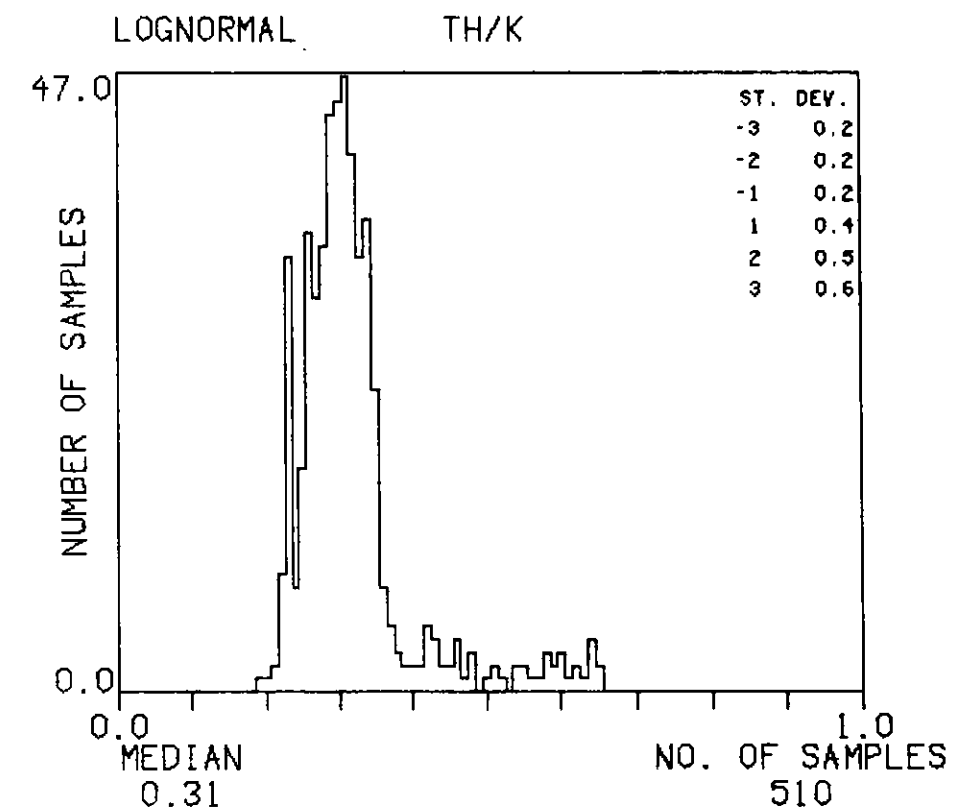
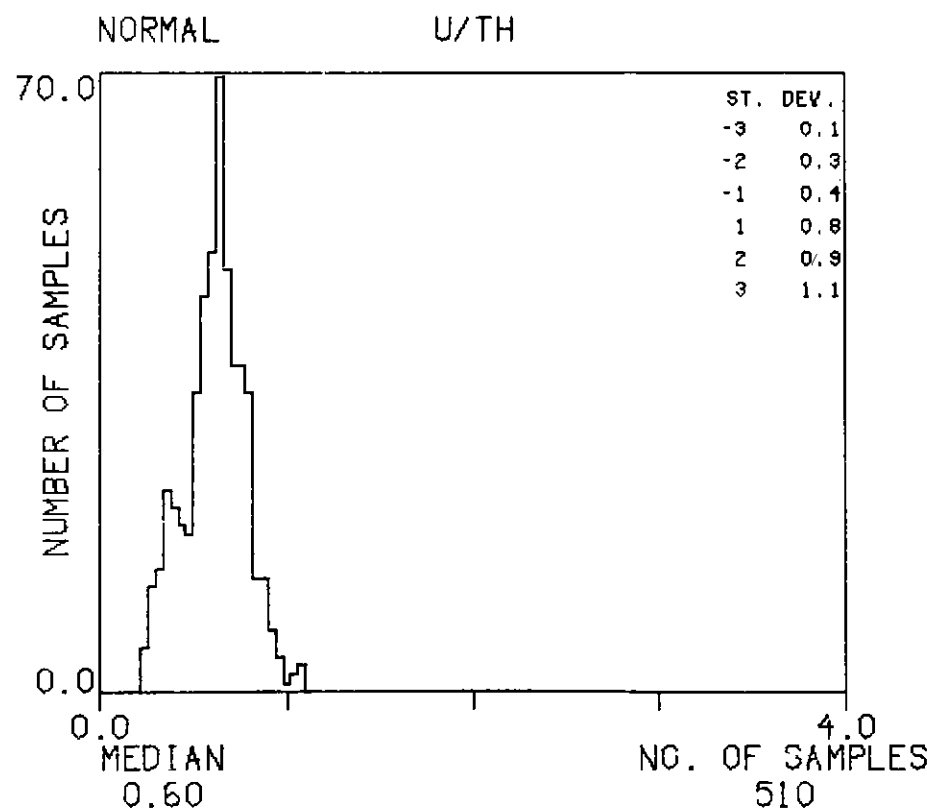
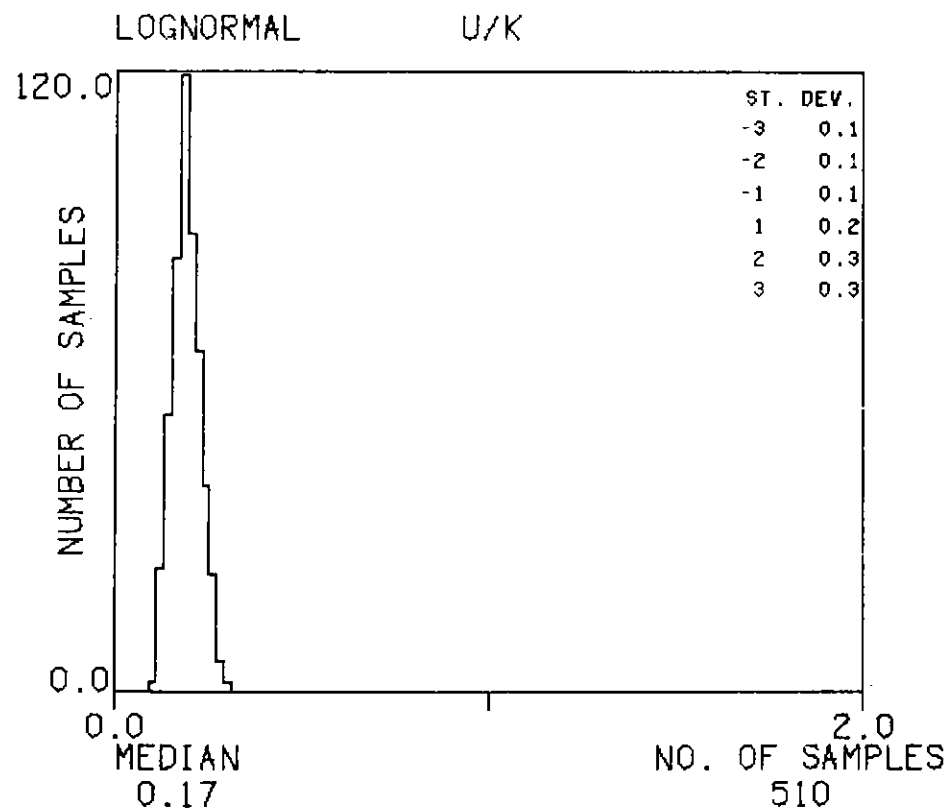
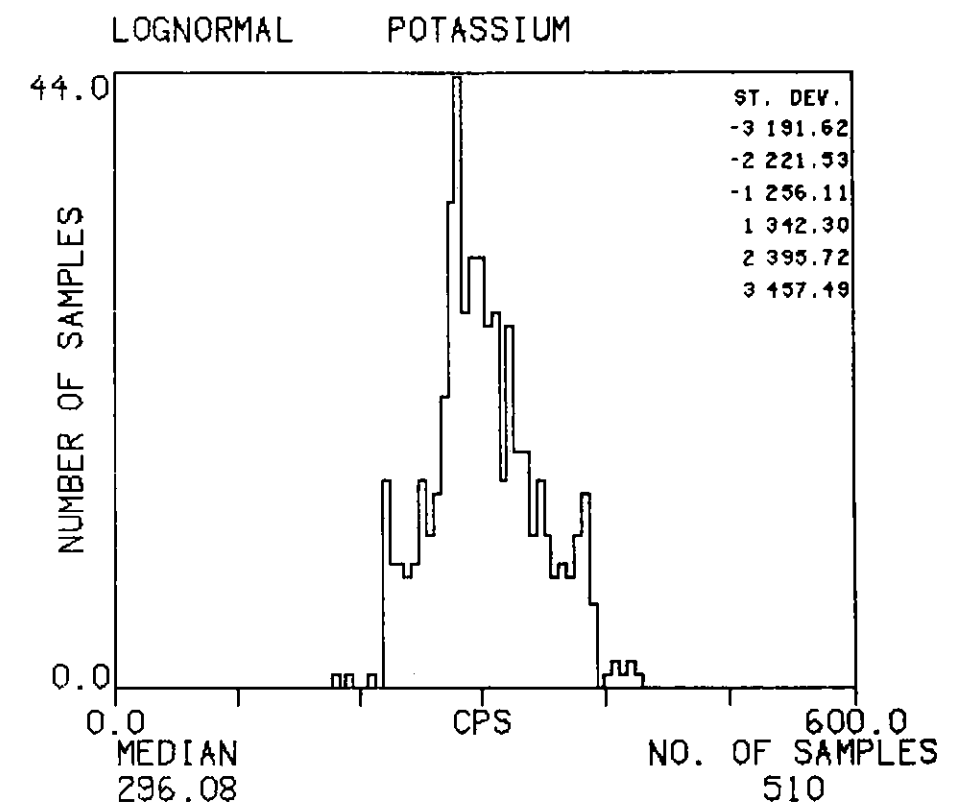
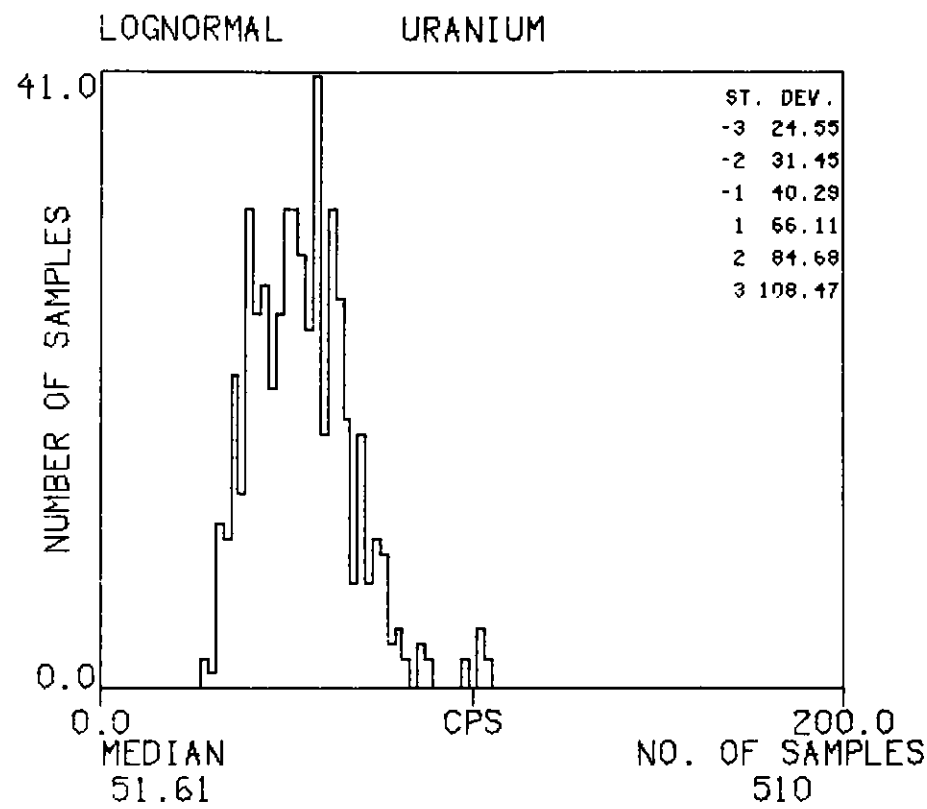
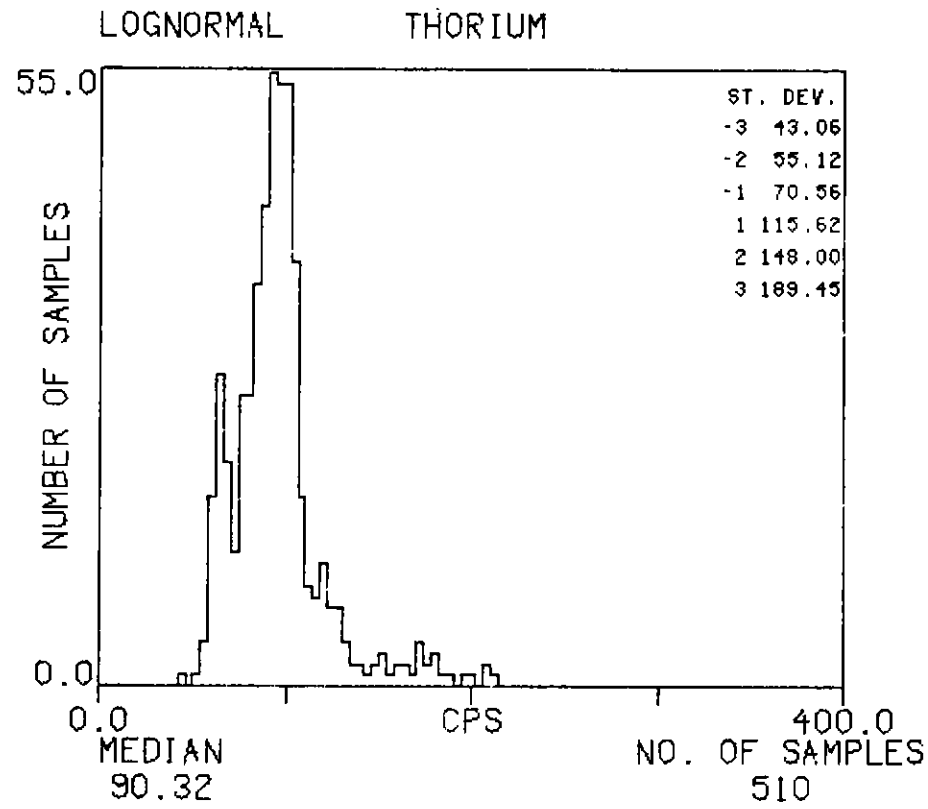
HISTOGRAMS : QTG

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



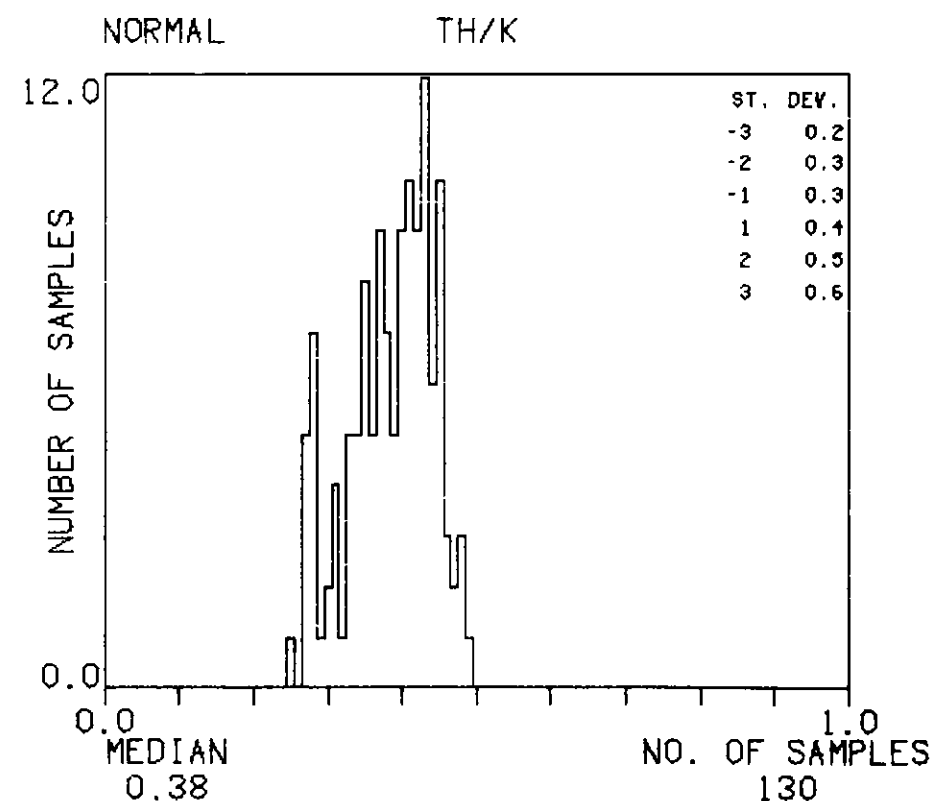
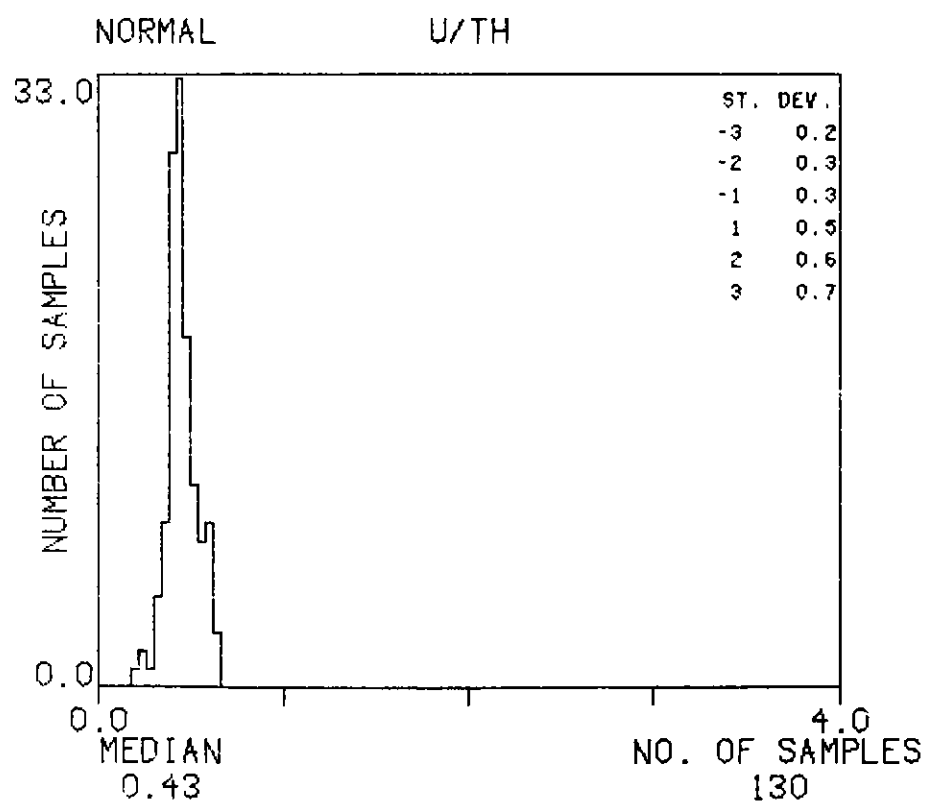
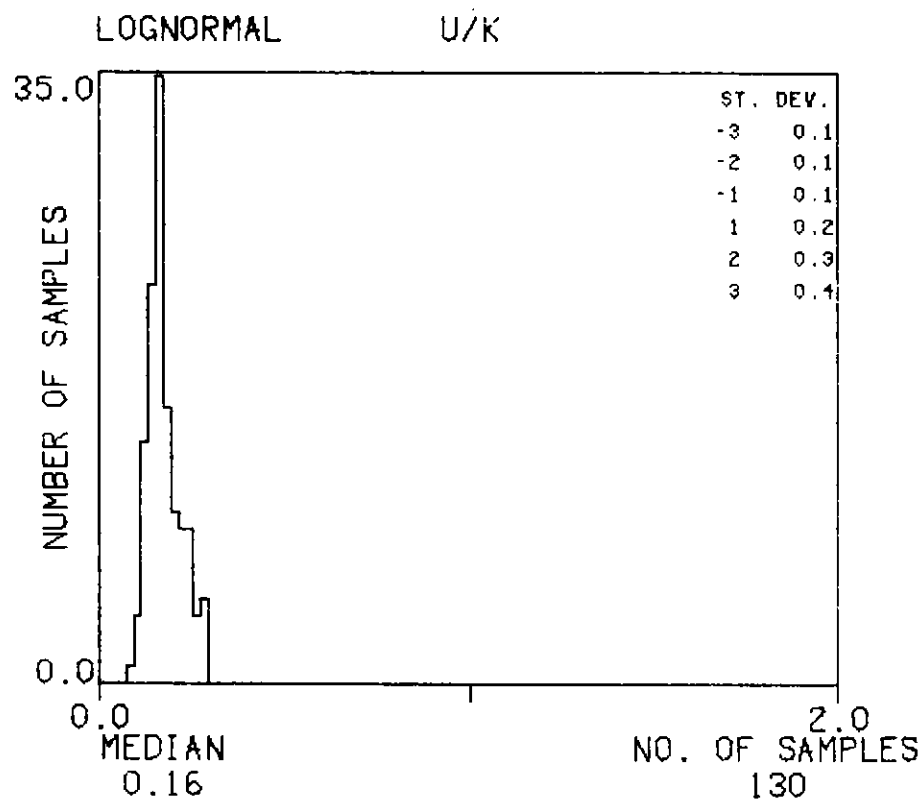
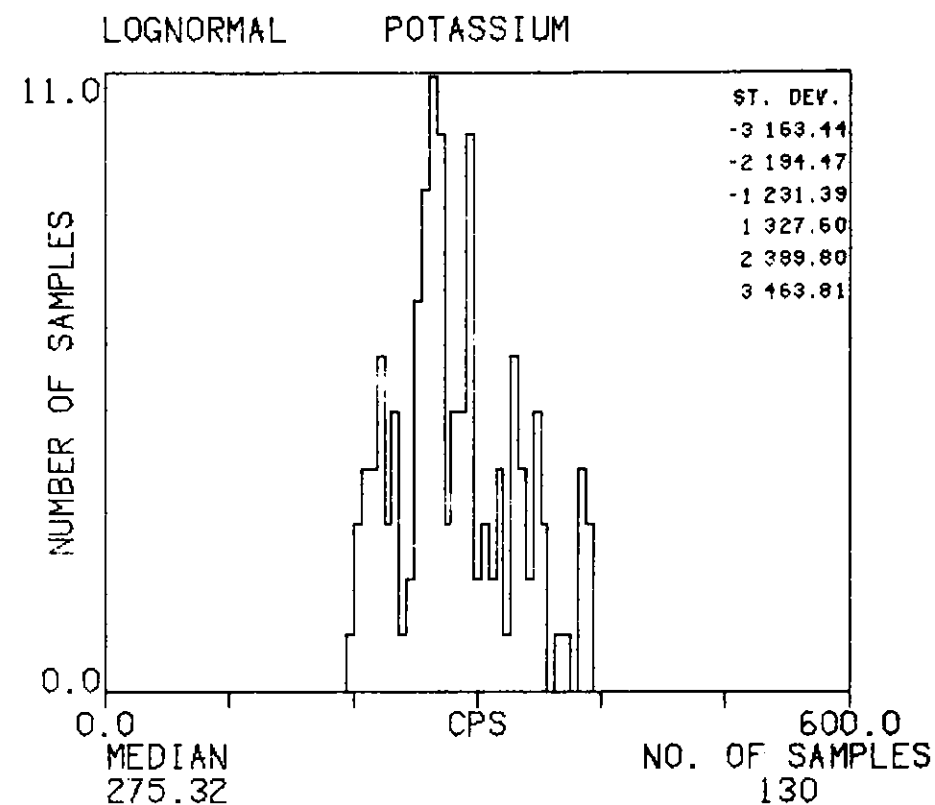
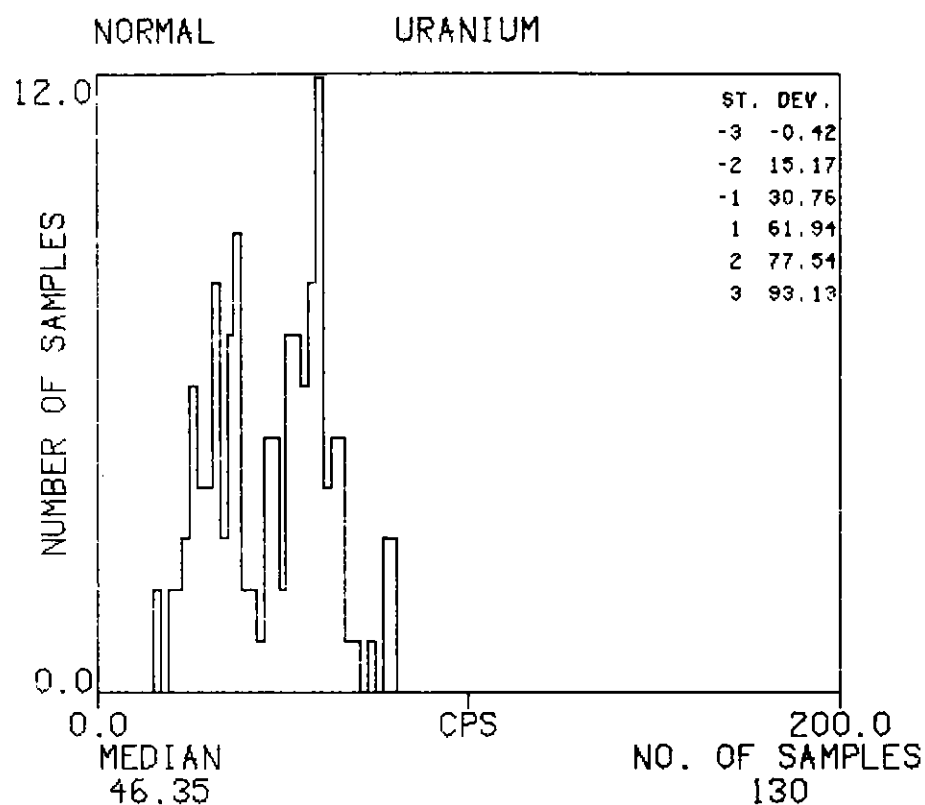
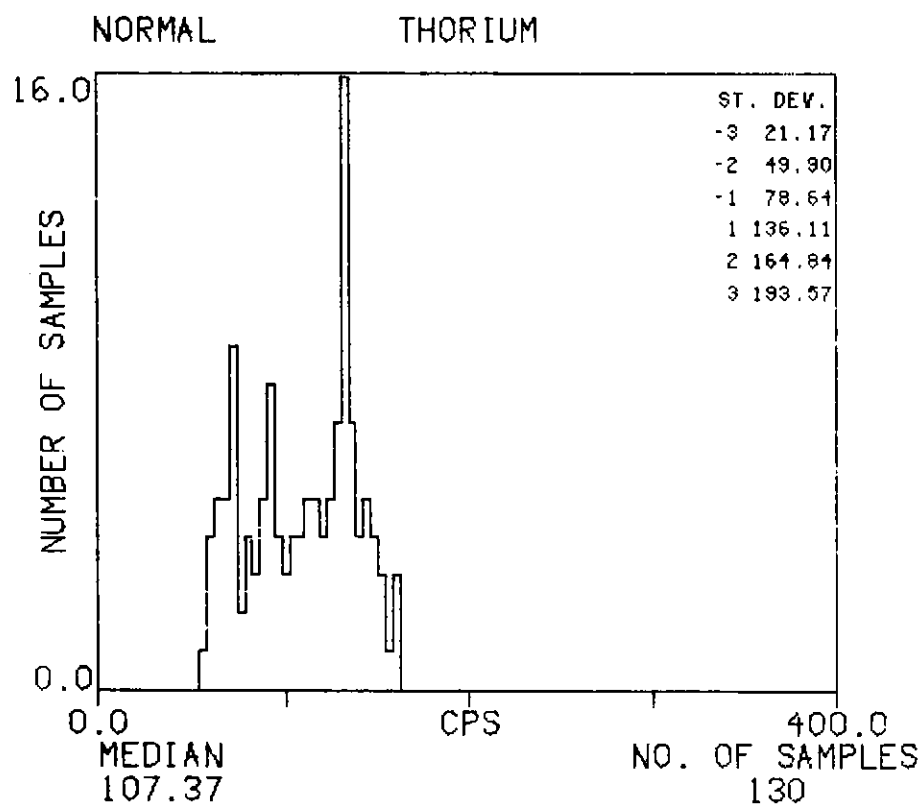
HISTOGRAMS : QTAL

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



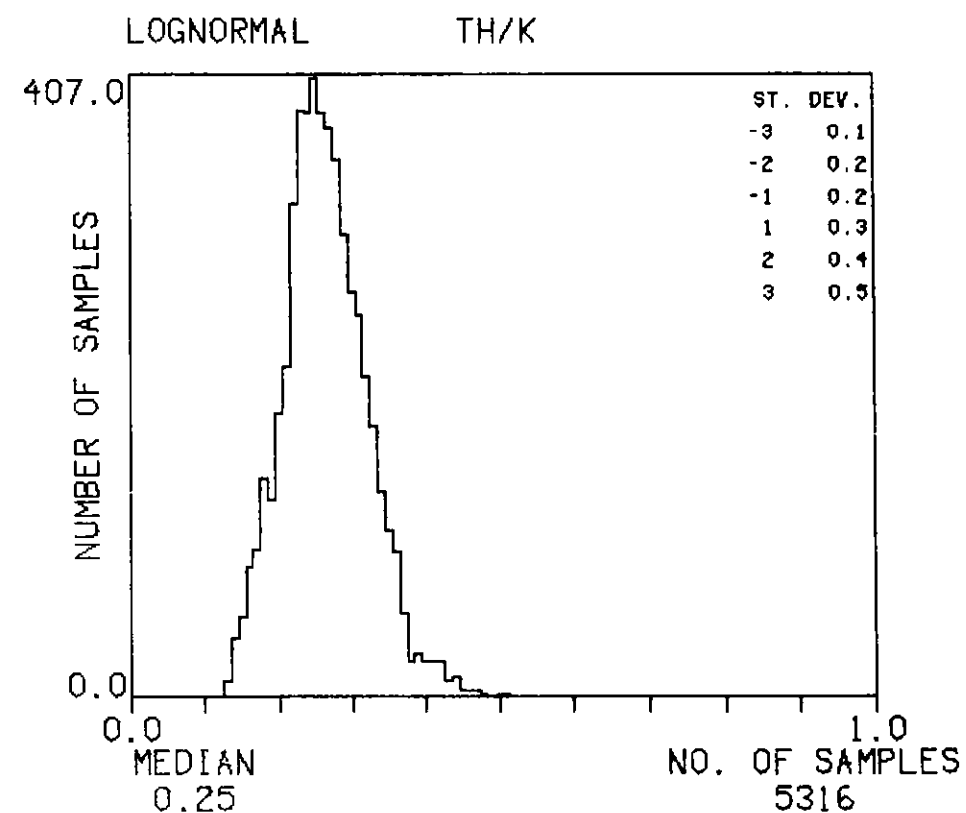
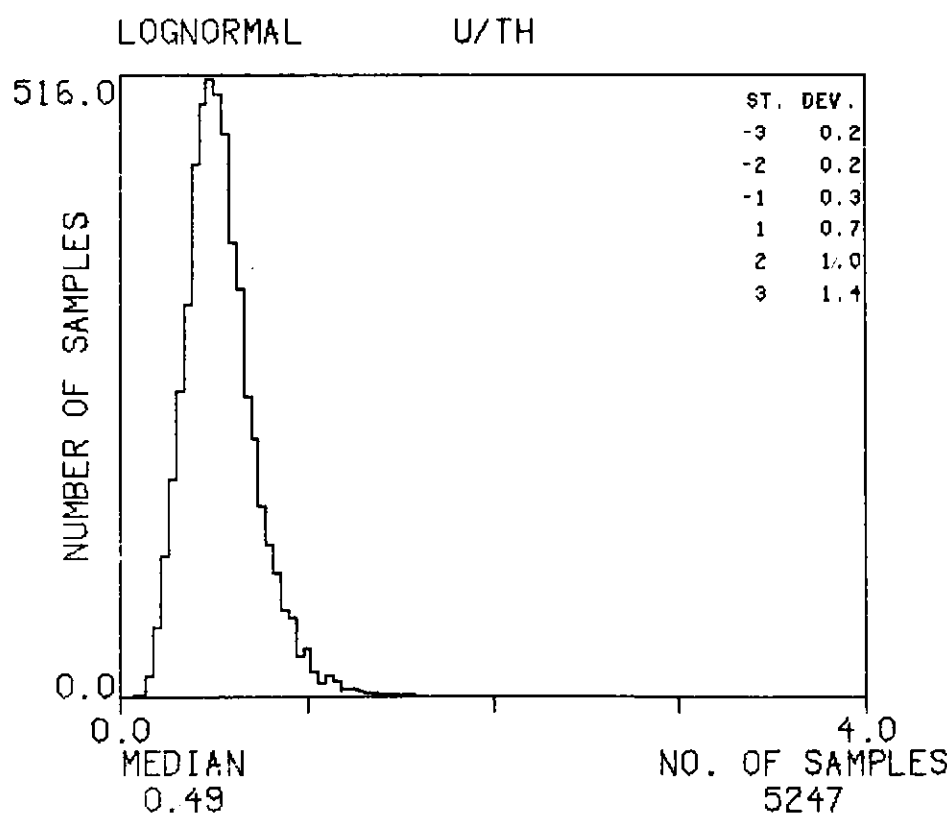
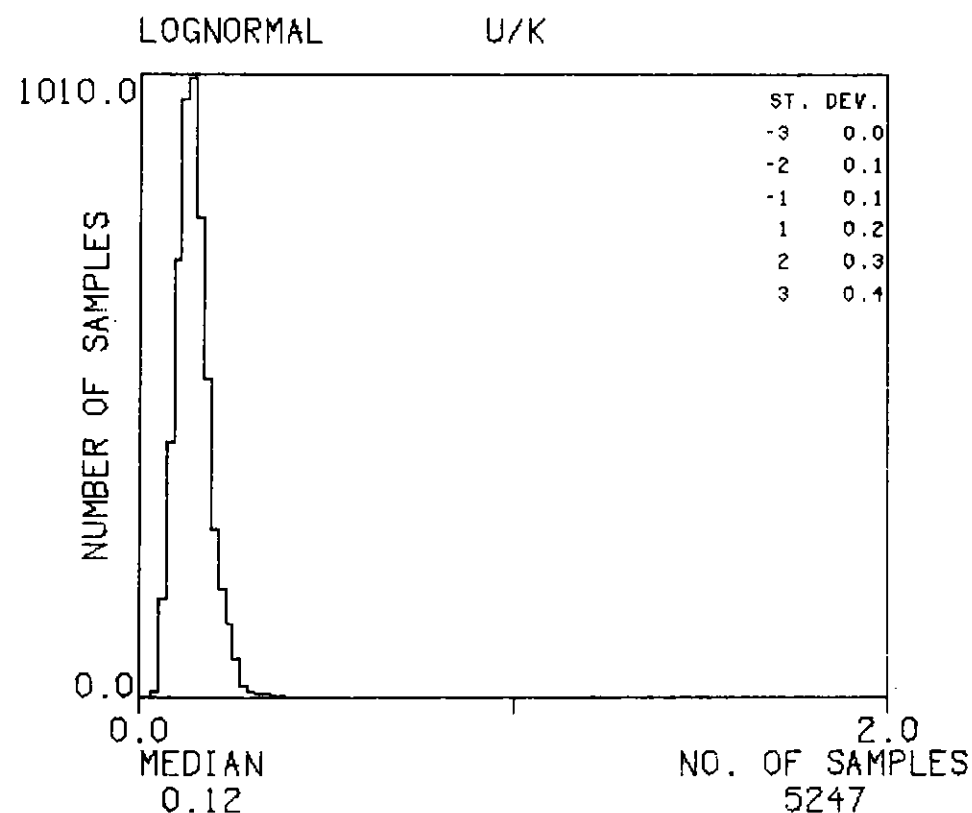
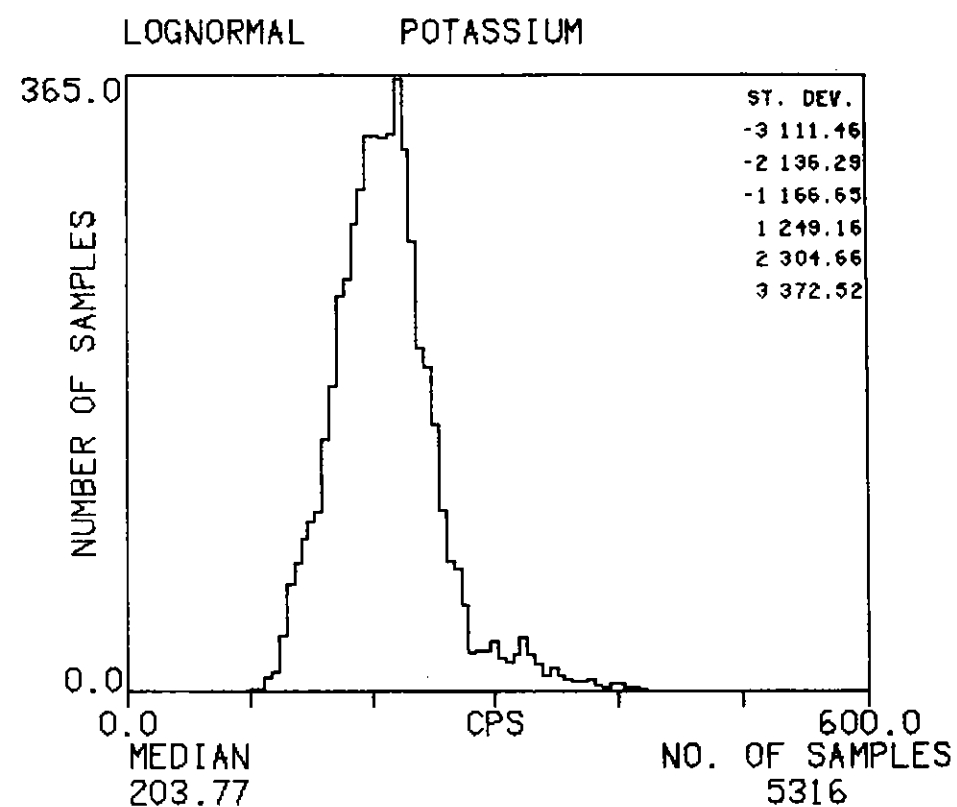
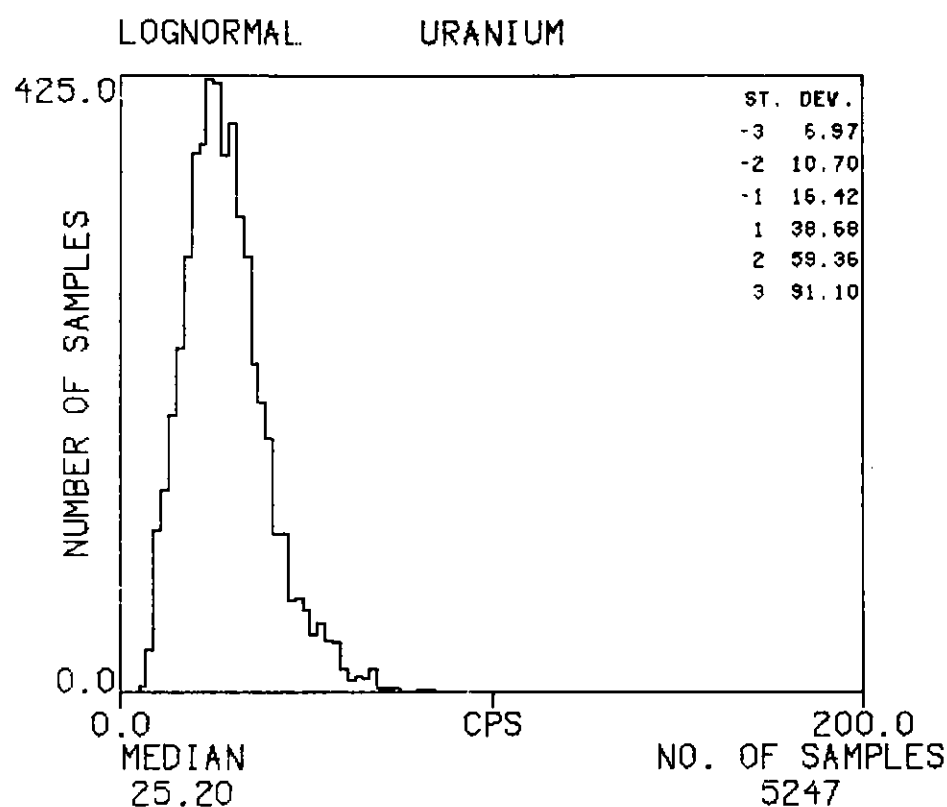
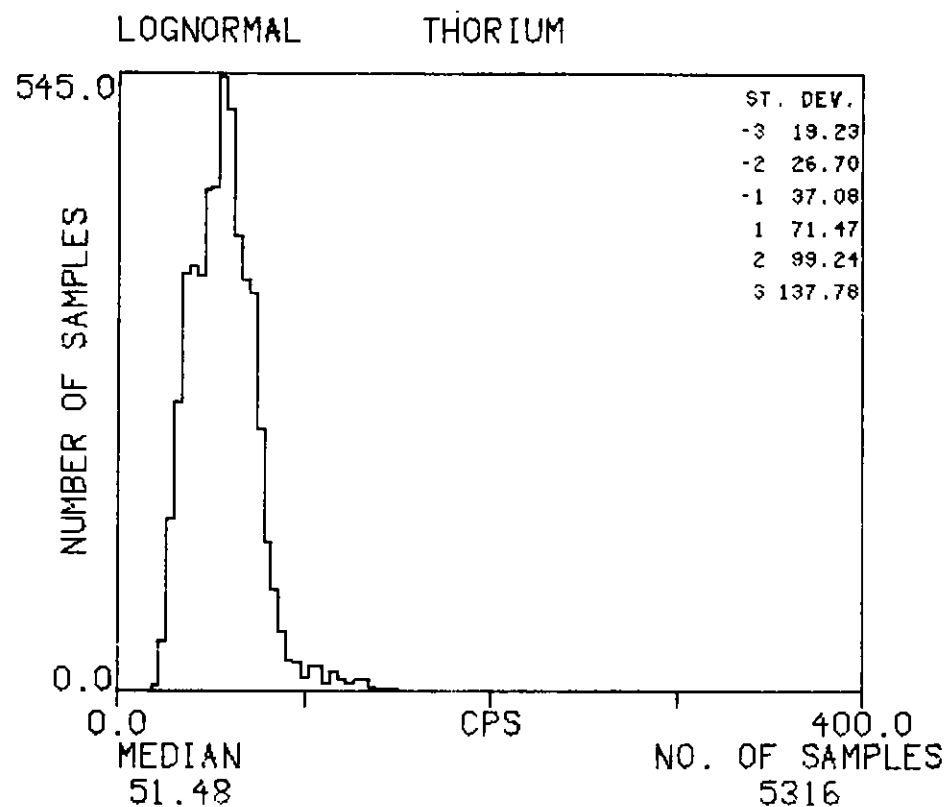
HISTOGRAMS : QTR

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



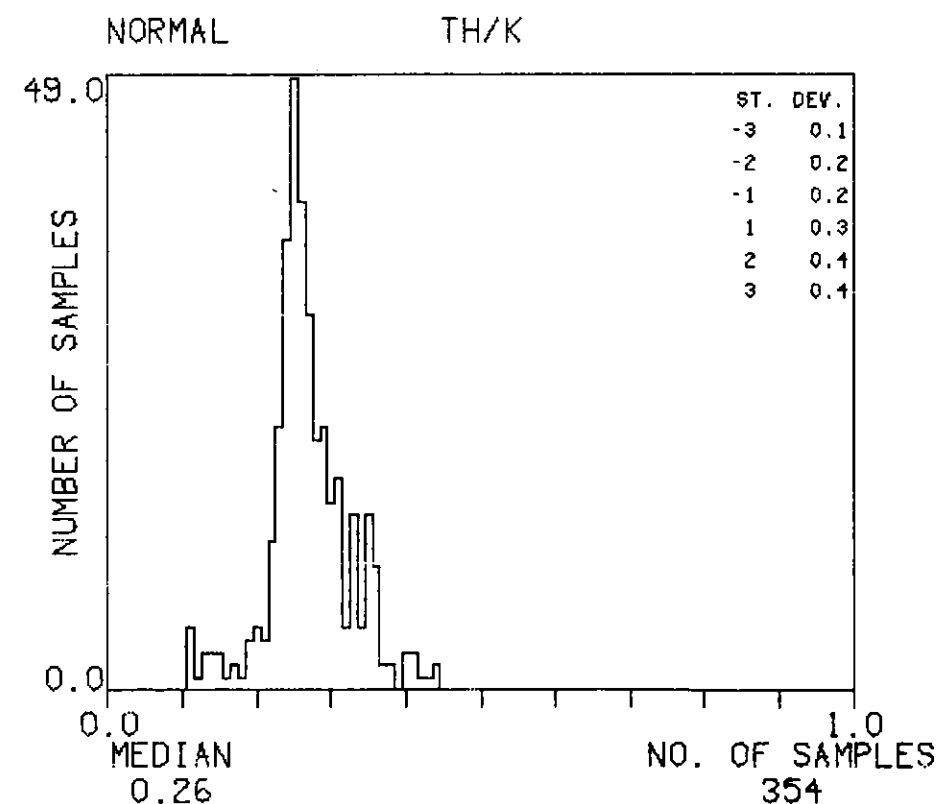
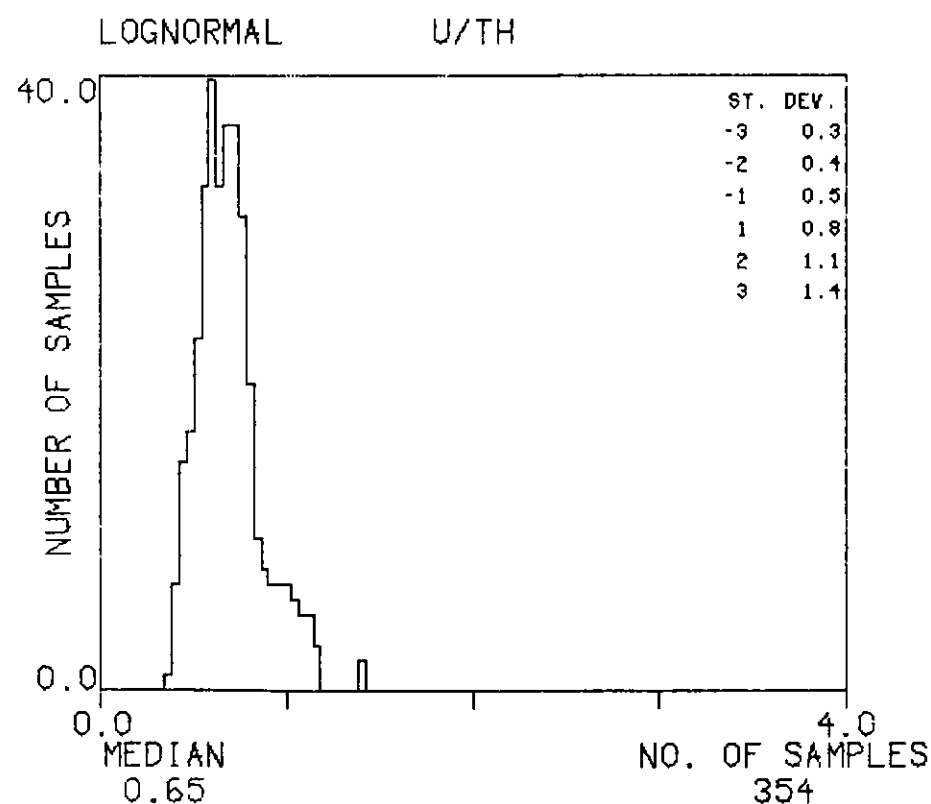
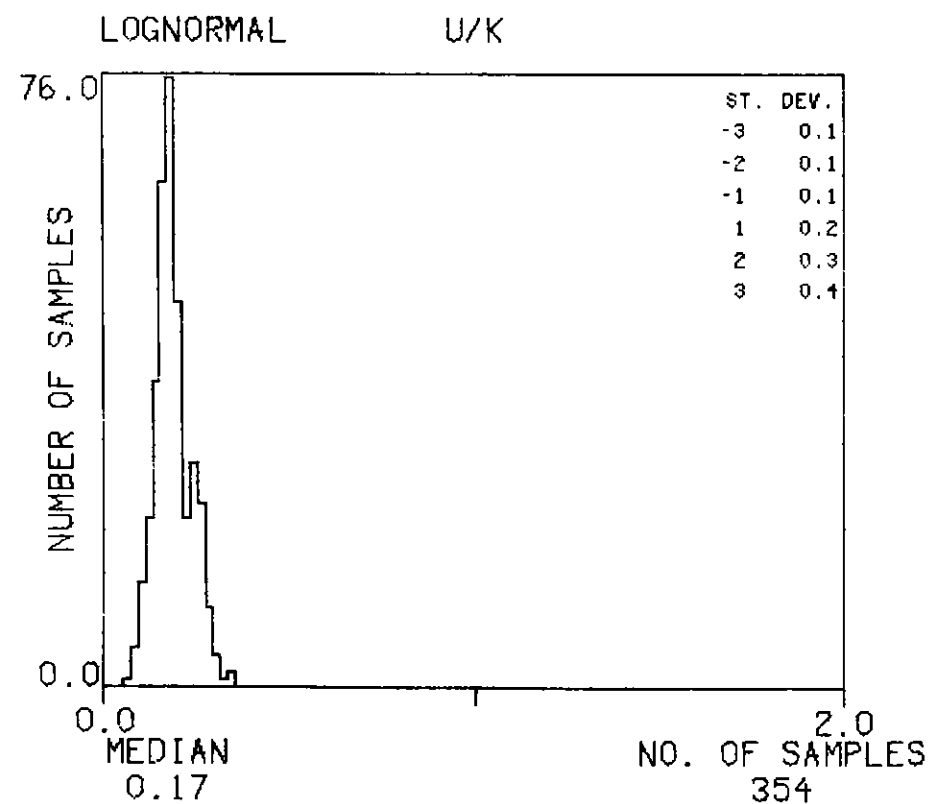
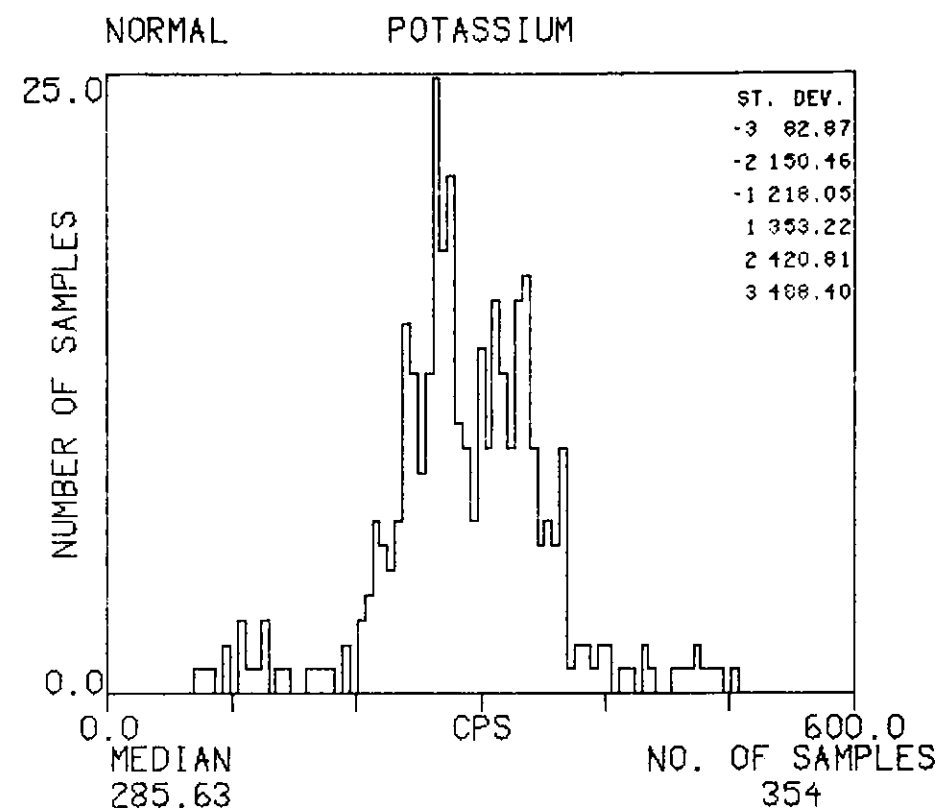
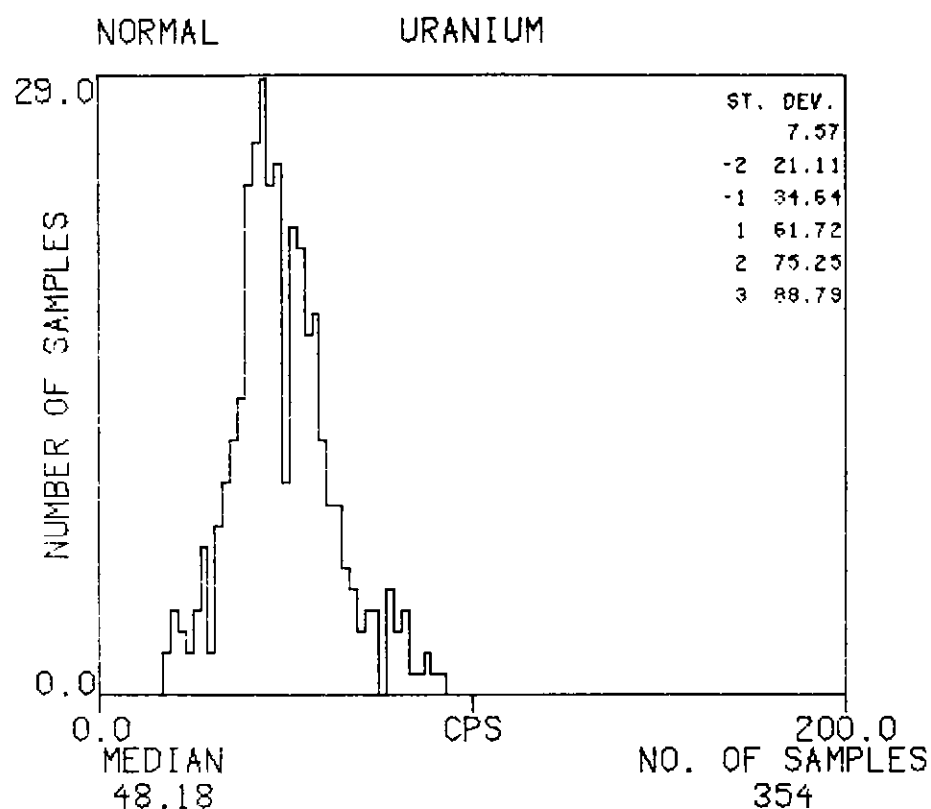
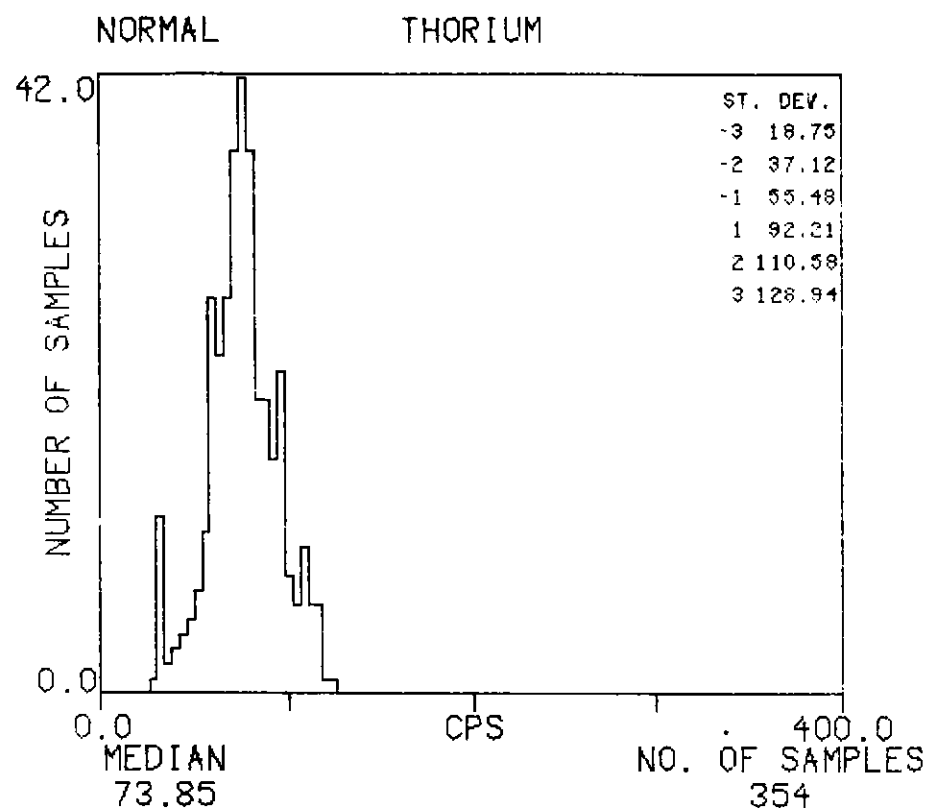
HISTOGRAMS : QTB

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



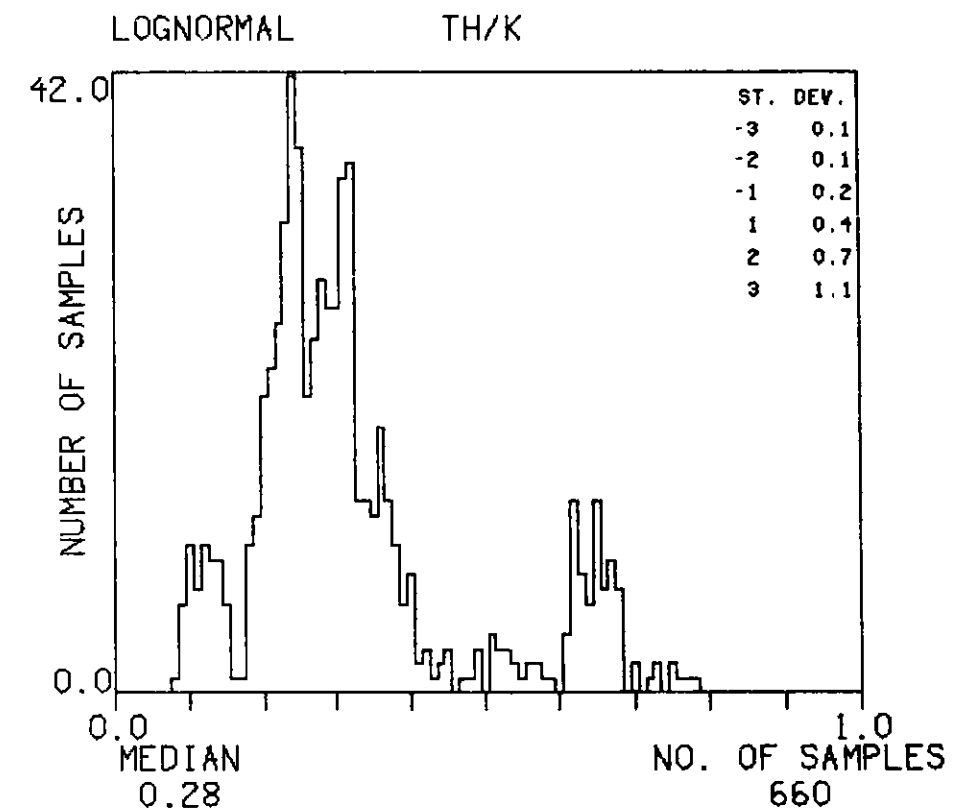
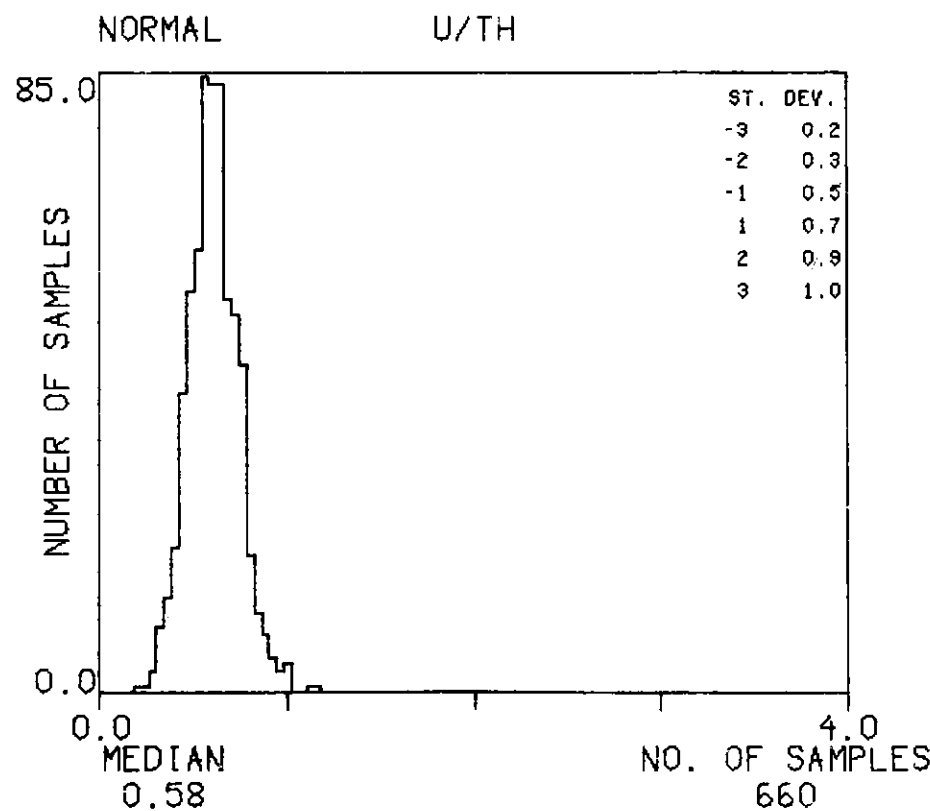
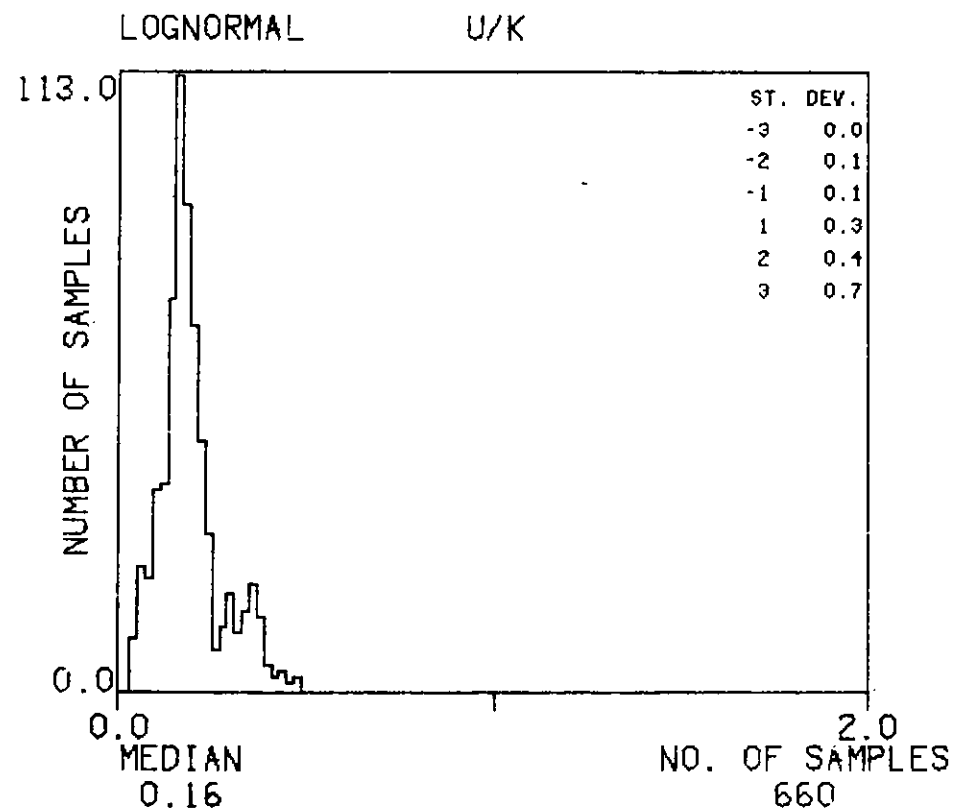
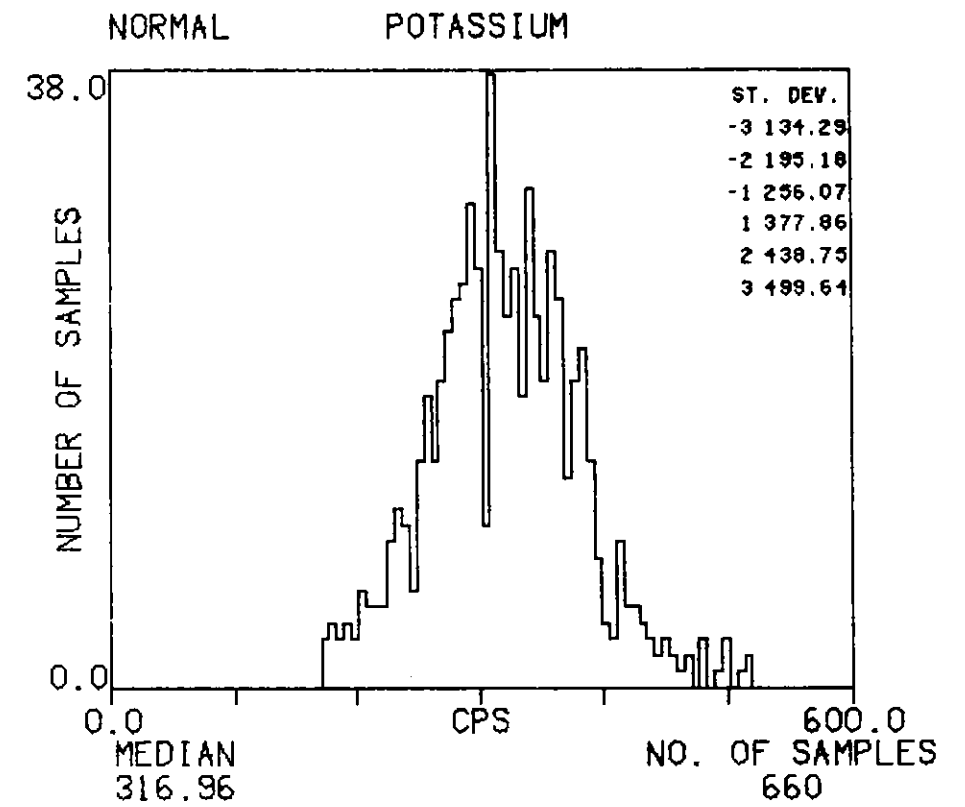
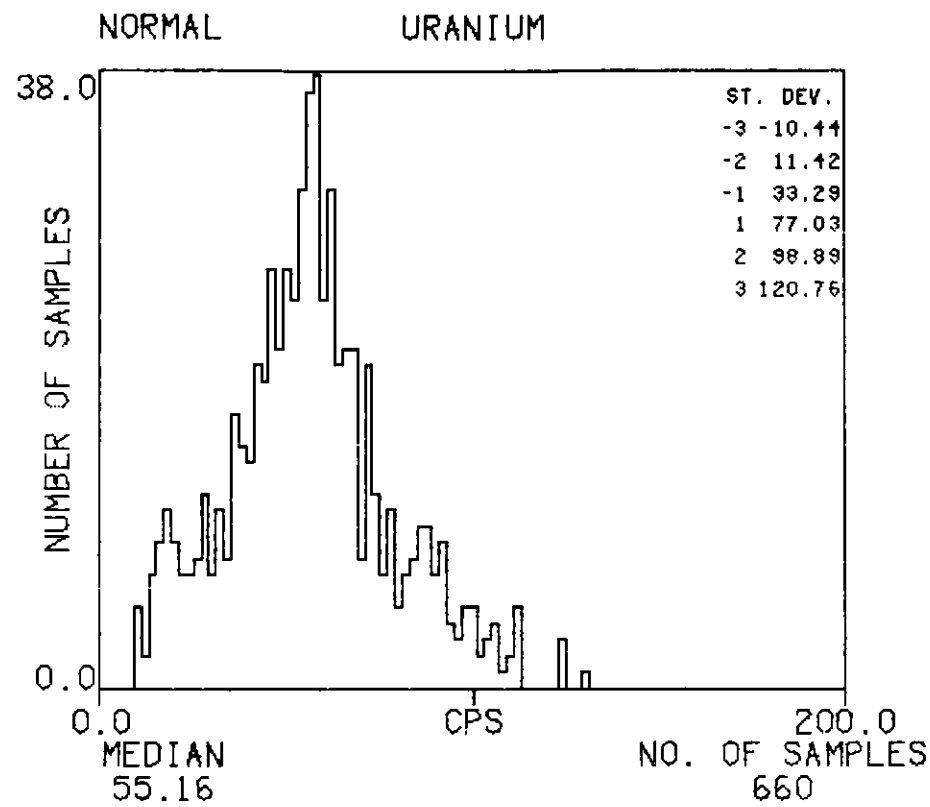
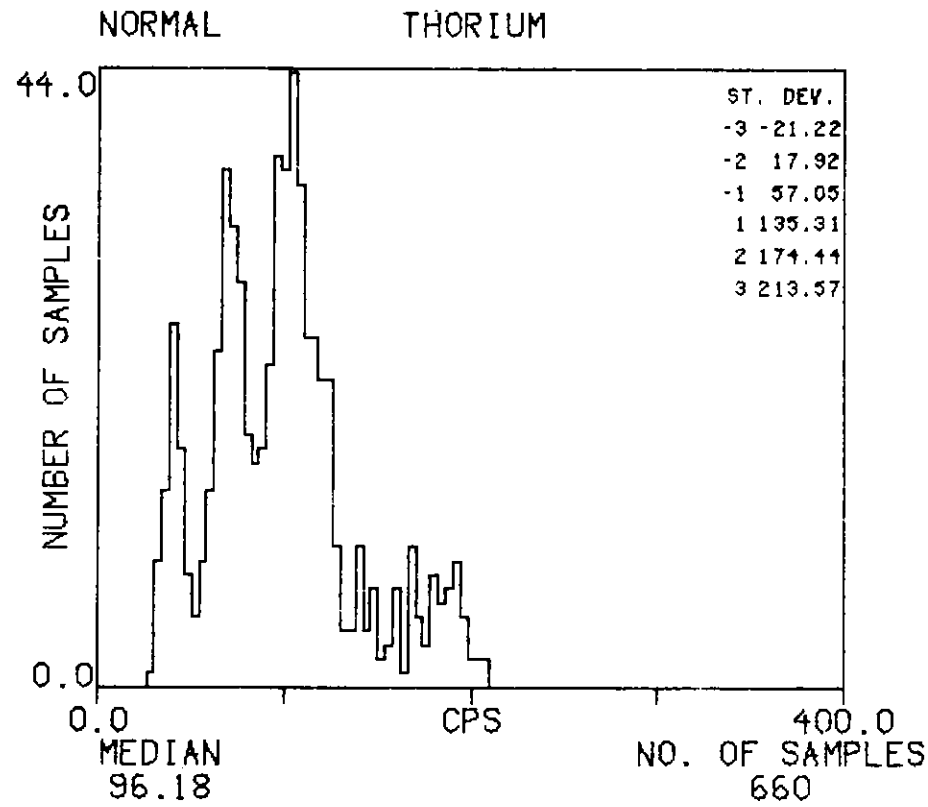
HISTOGRAMS : TS

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



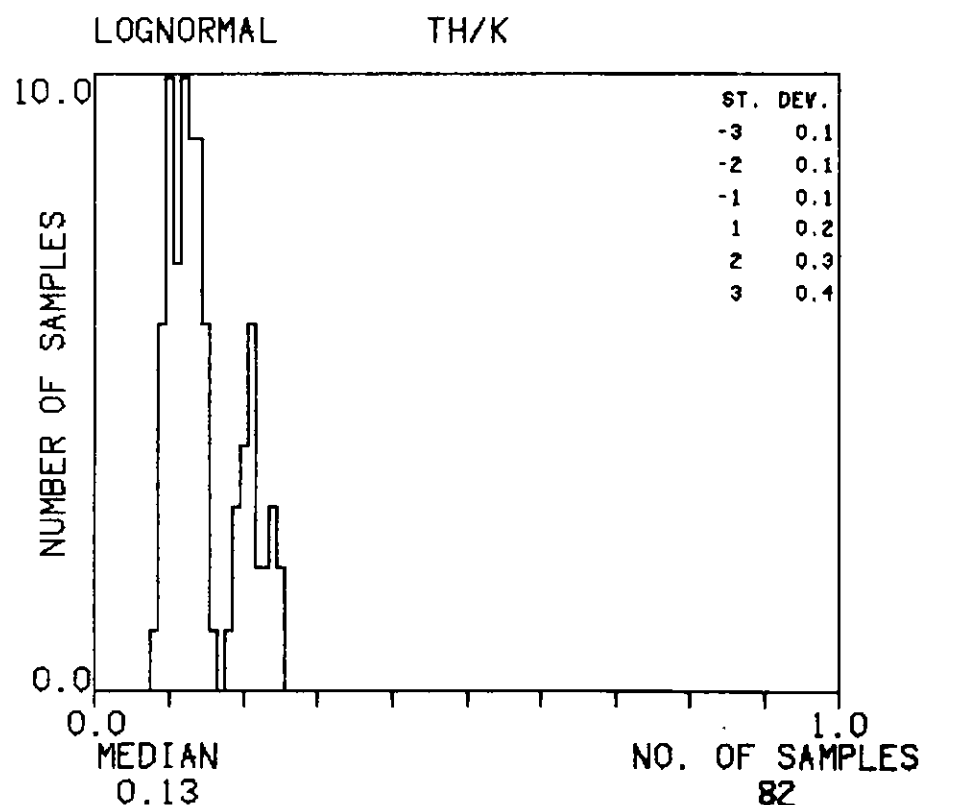
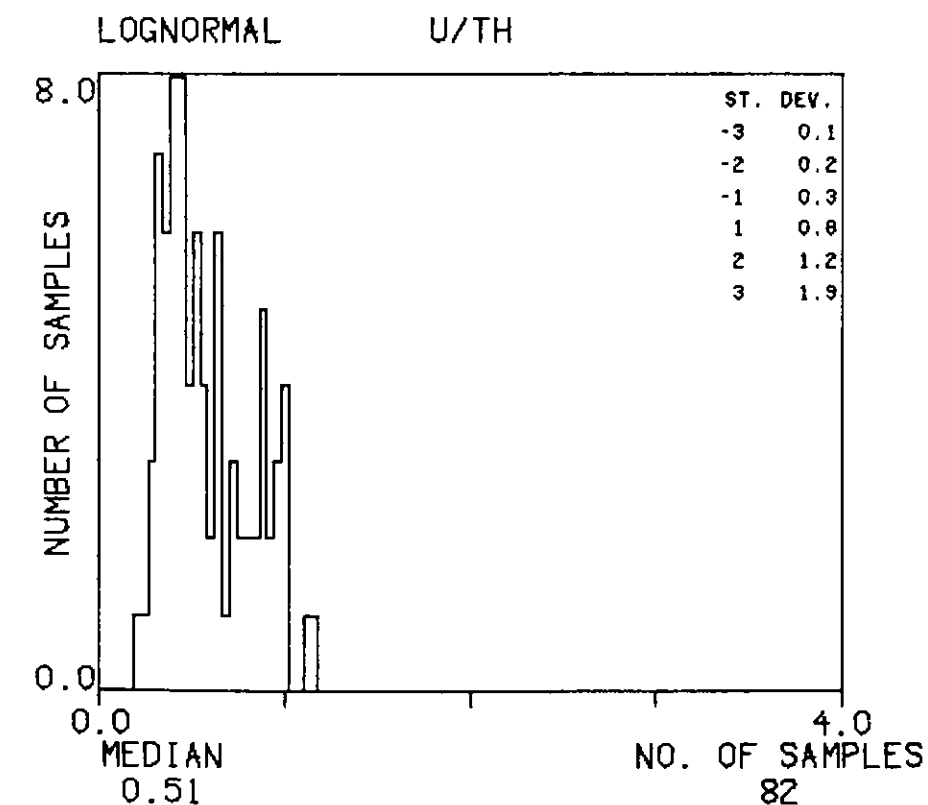
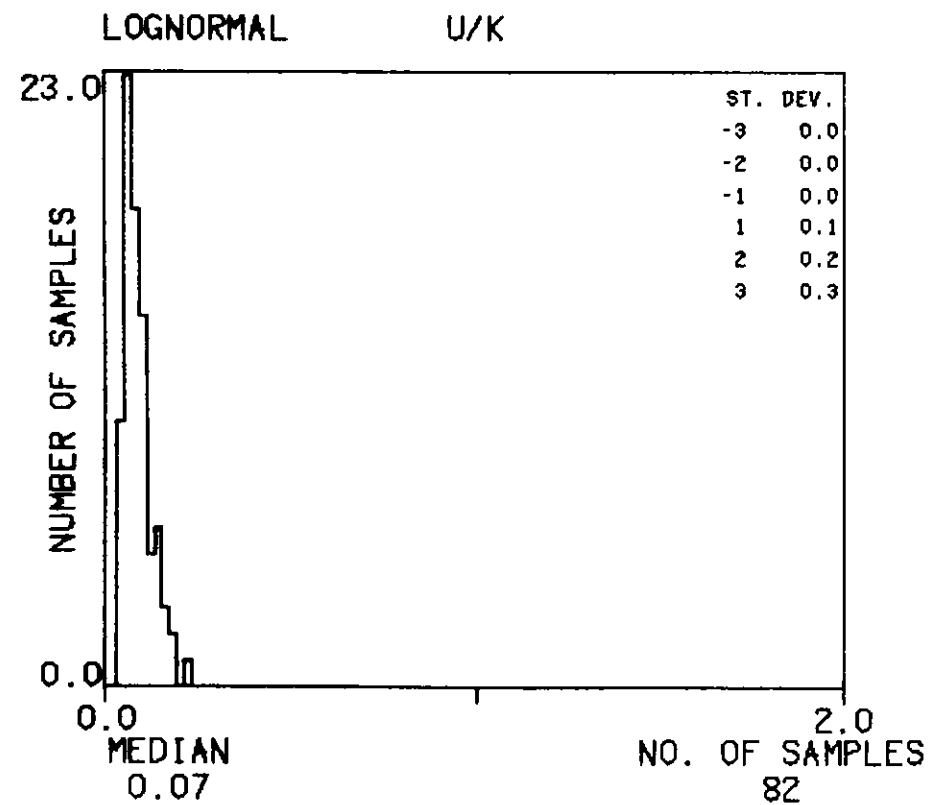
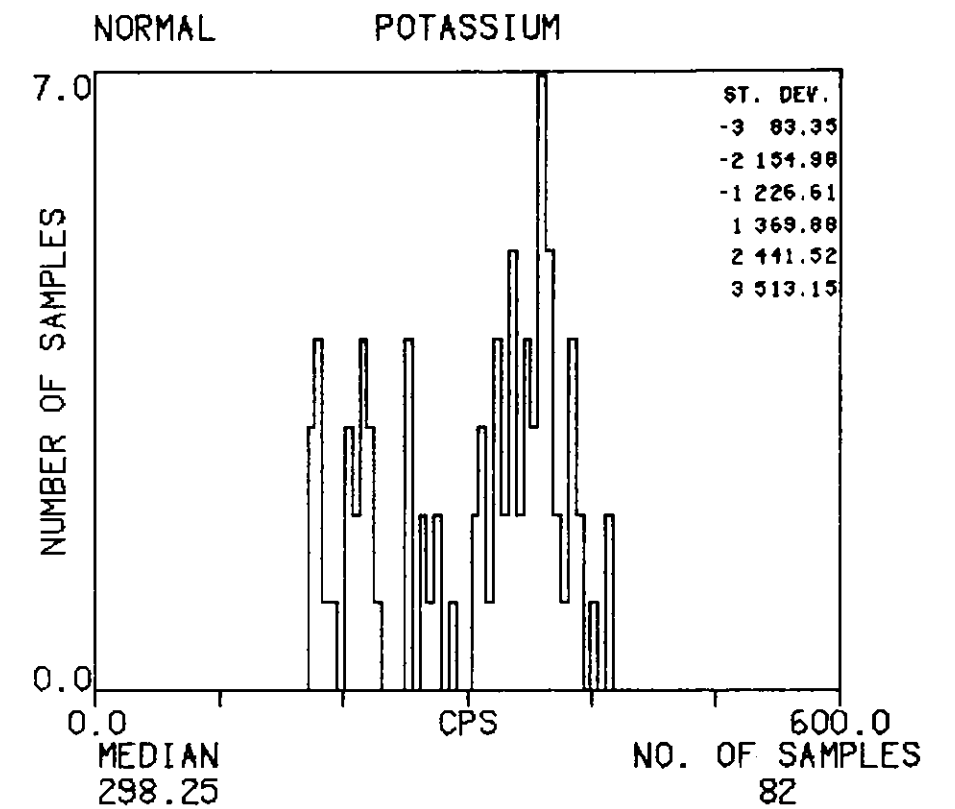
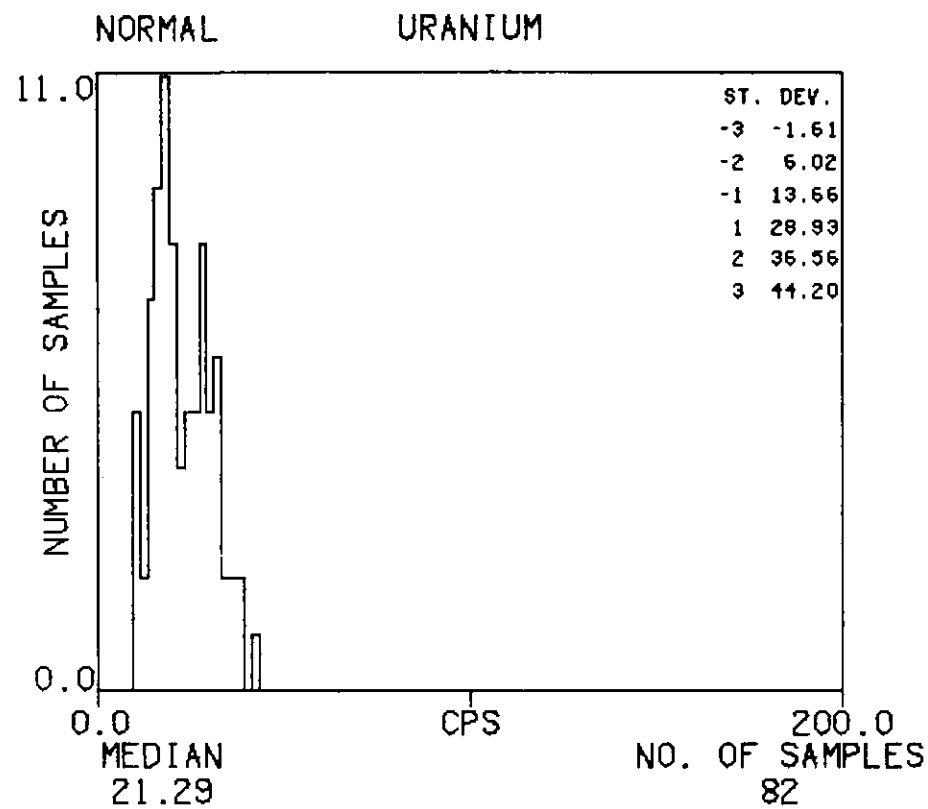
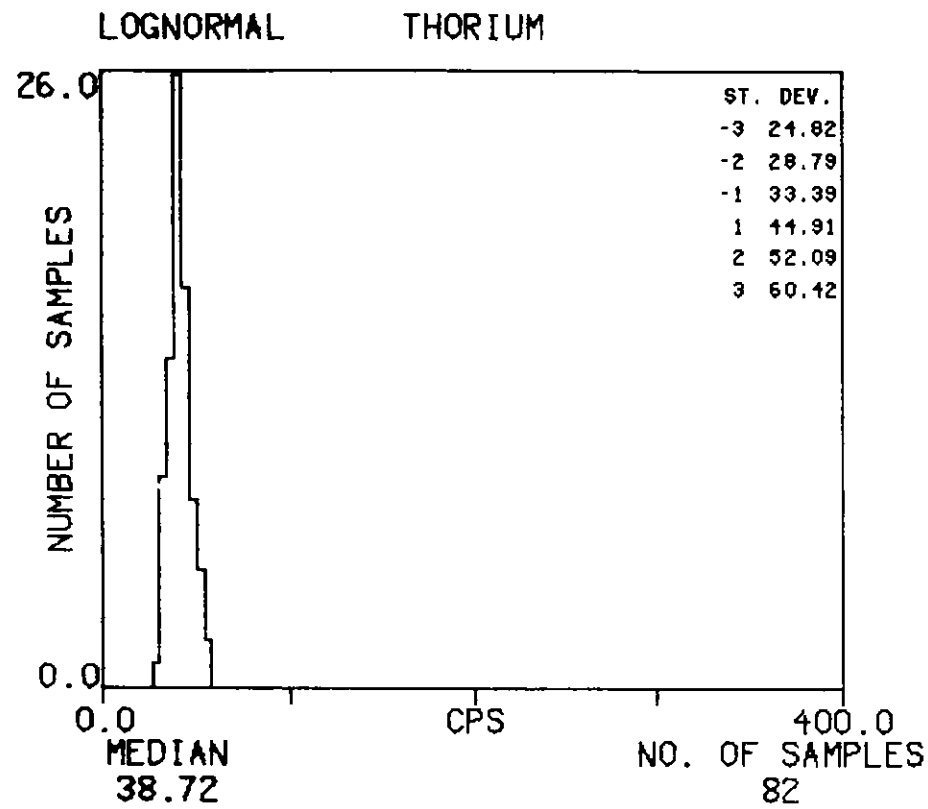
HISTOGRAMS : TR

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



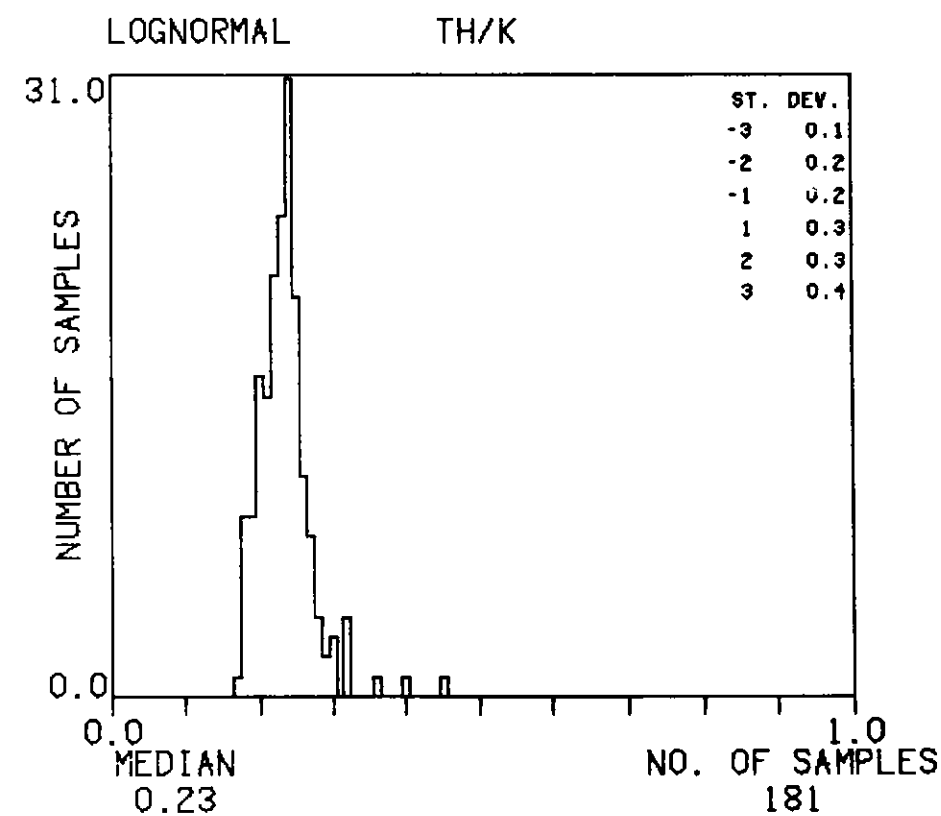
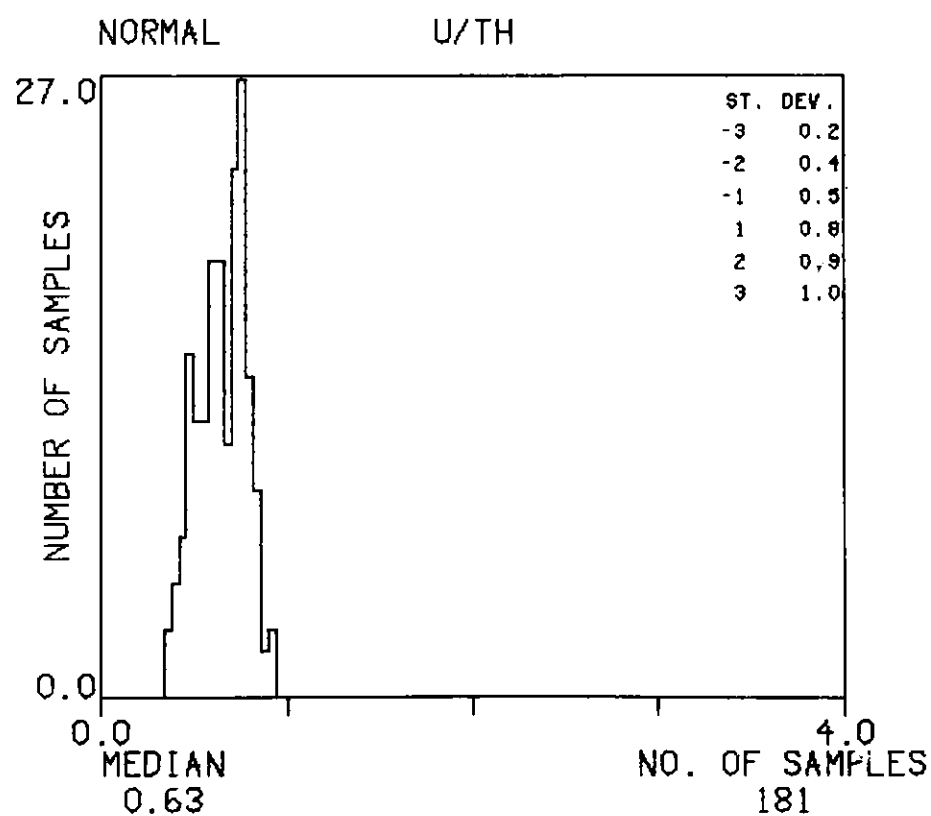
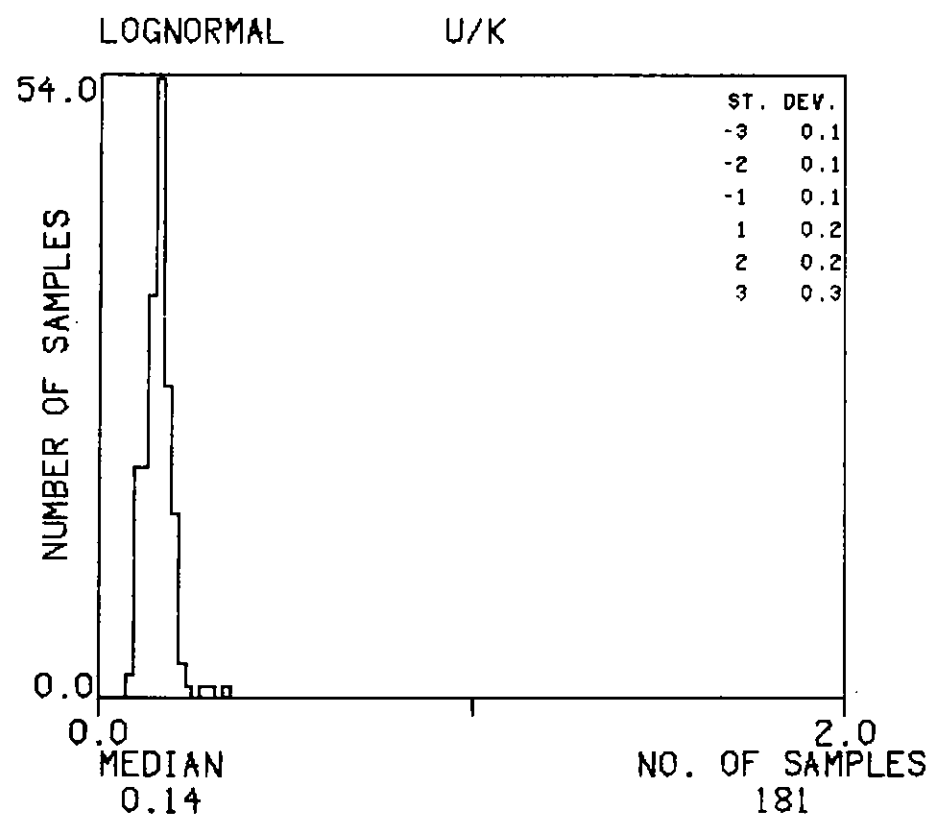
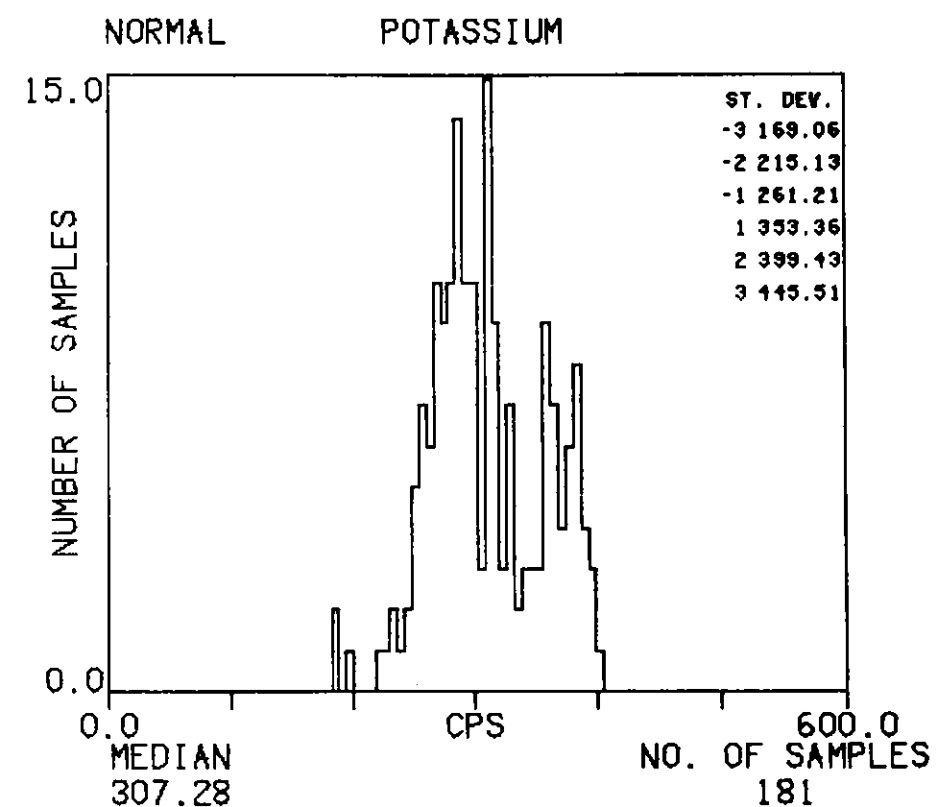
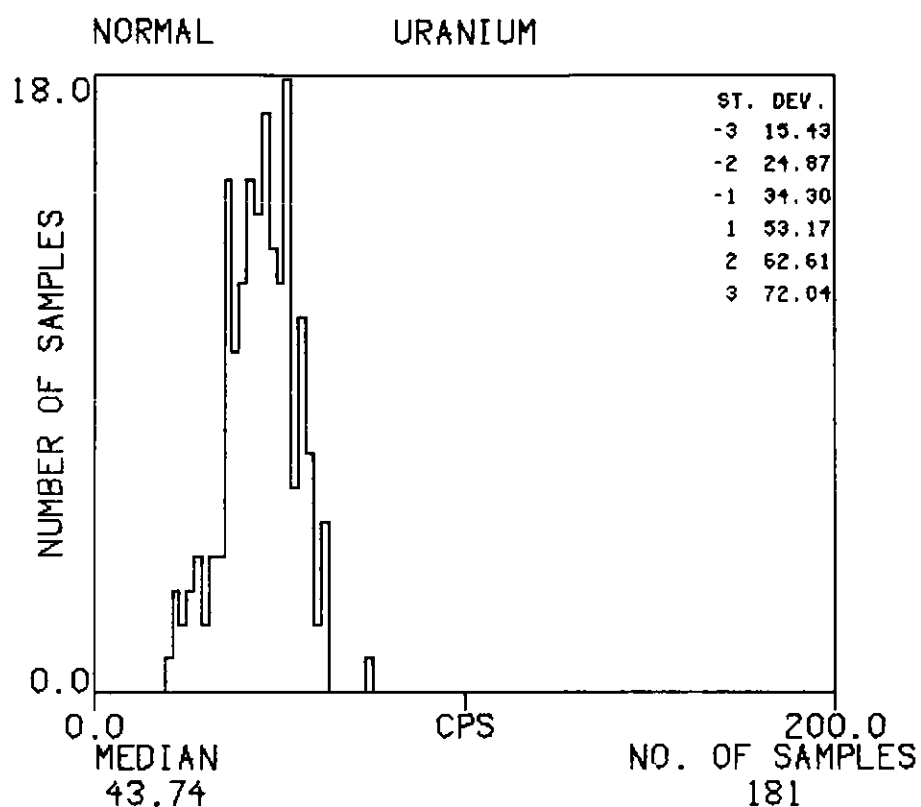
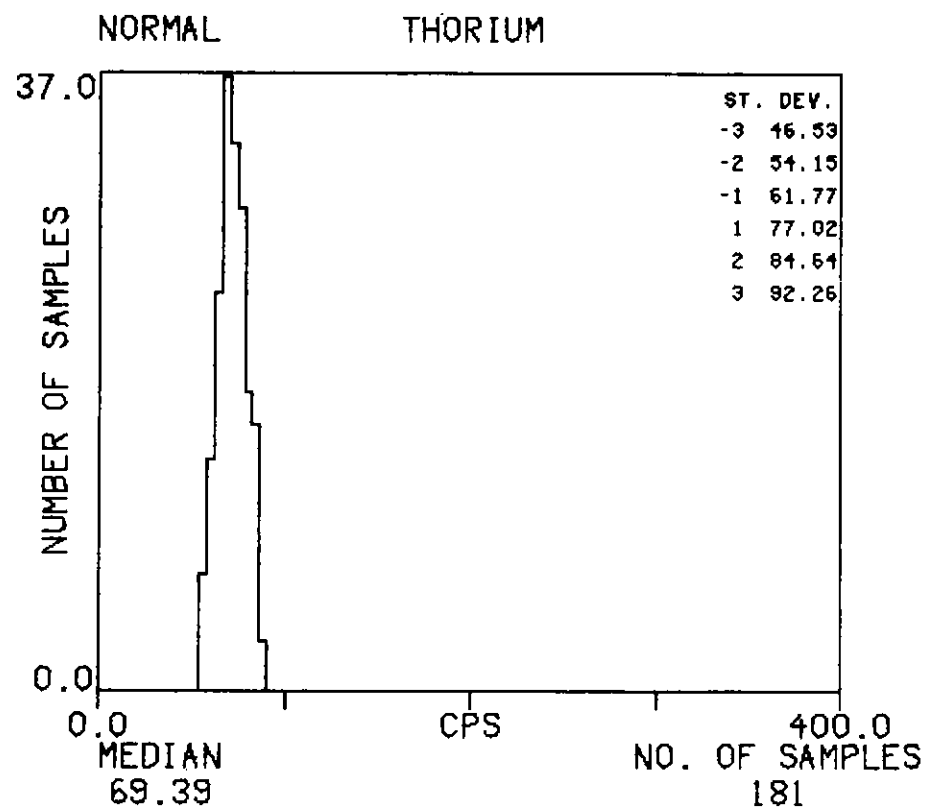
HISTOGRAMS : TR-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



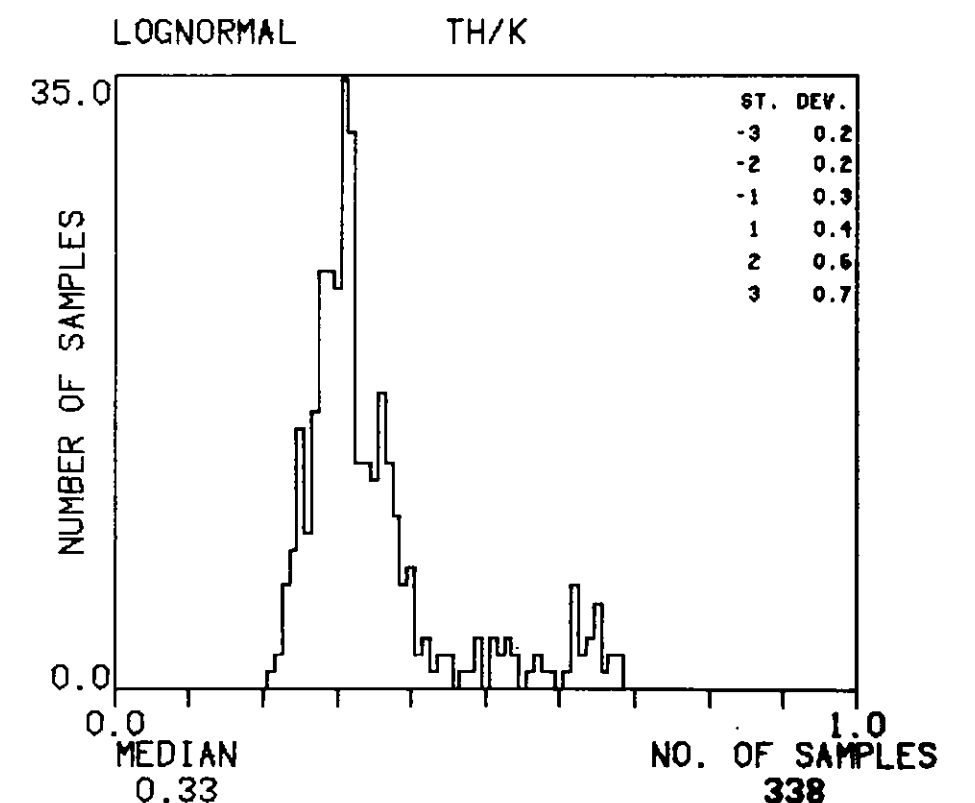
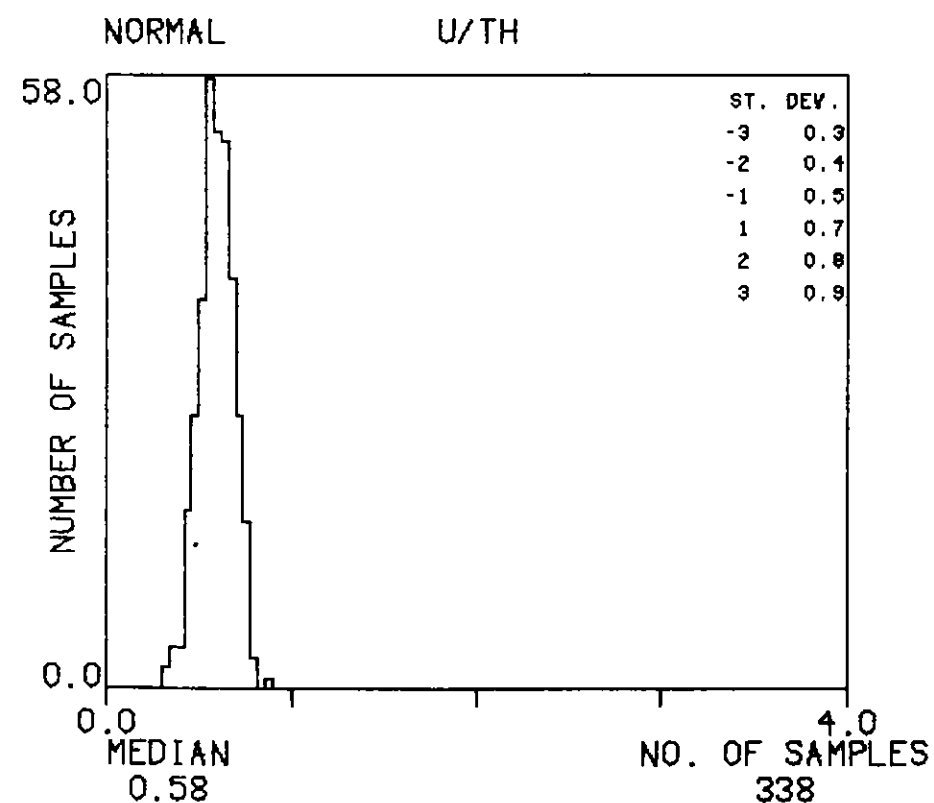
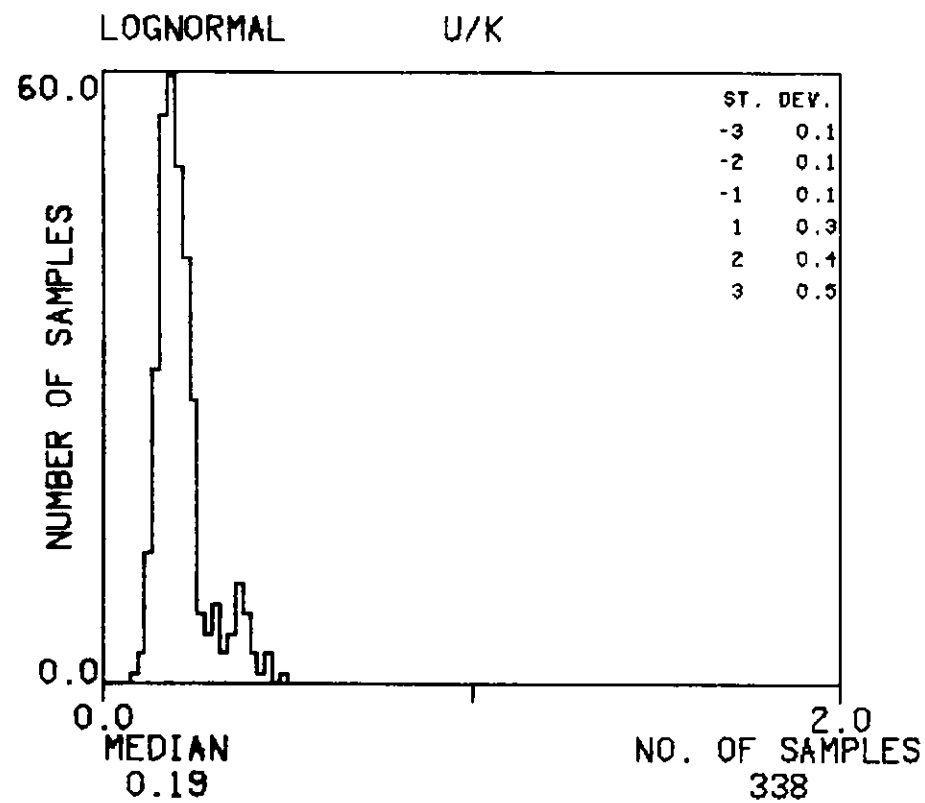
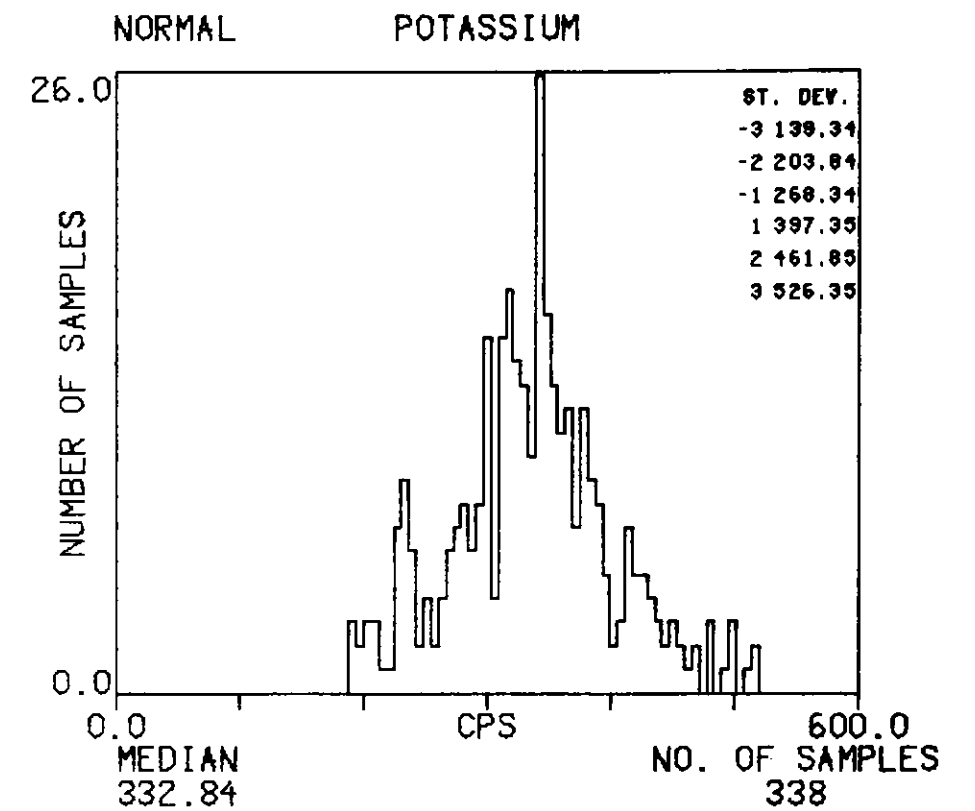
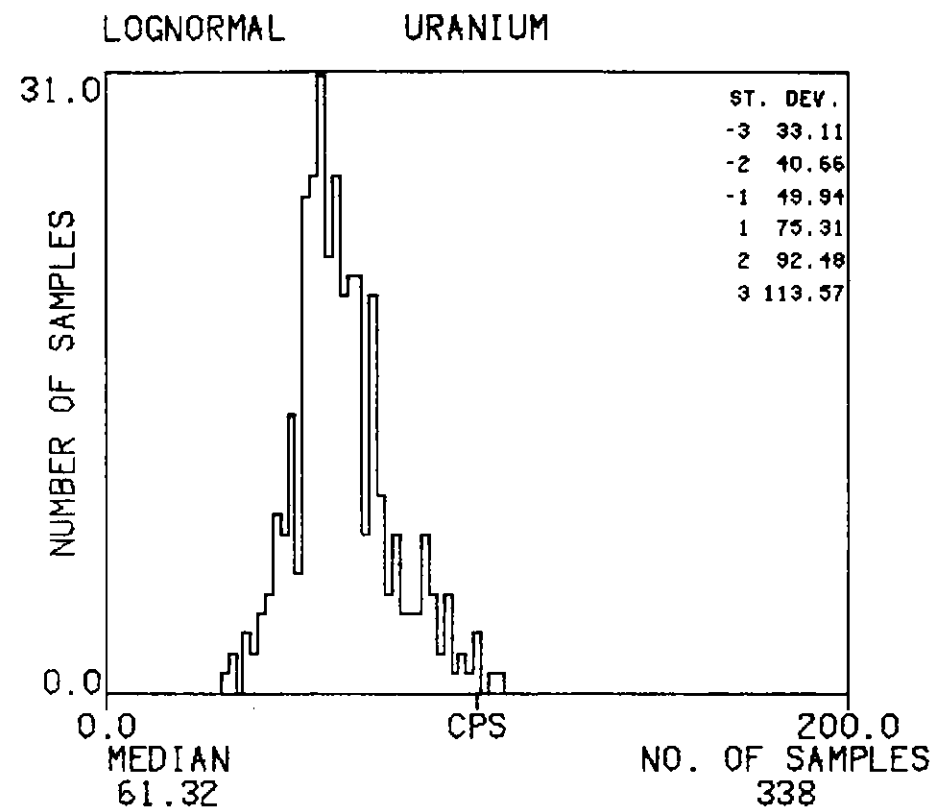
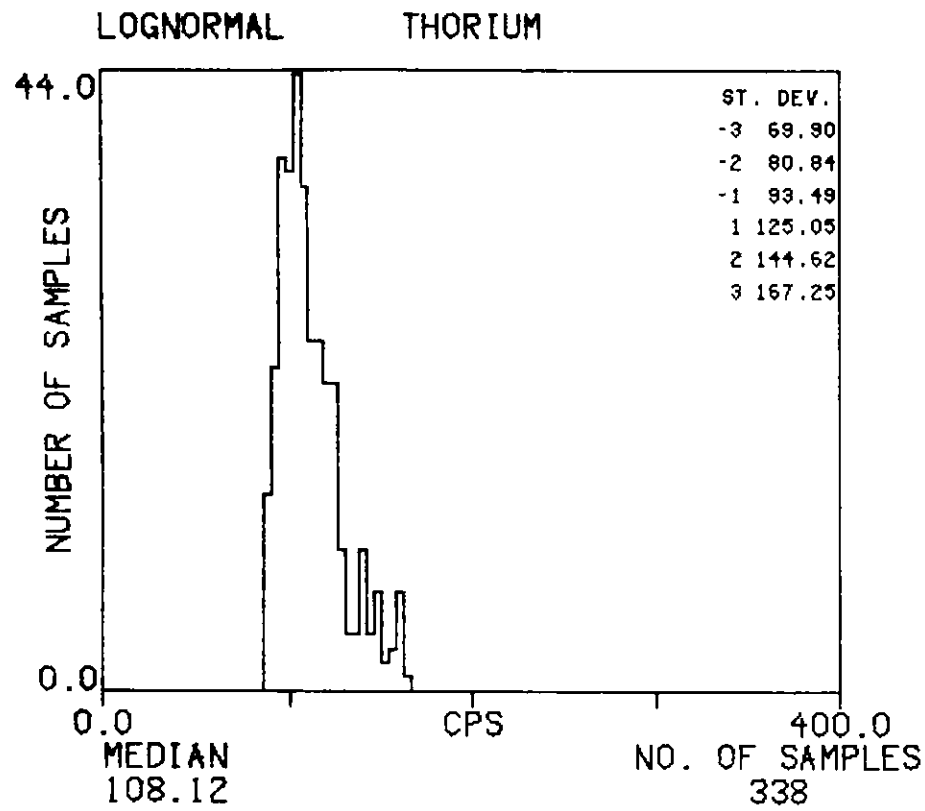
HISTOGRAMS : TR-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



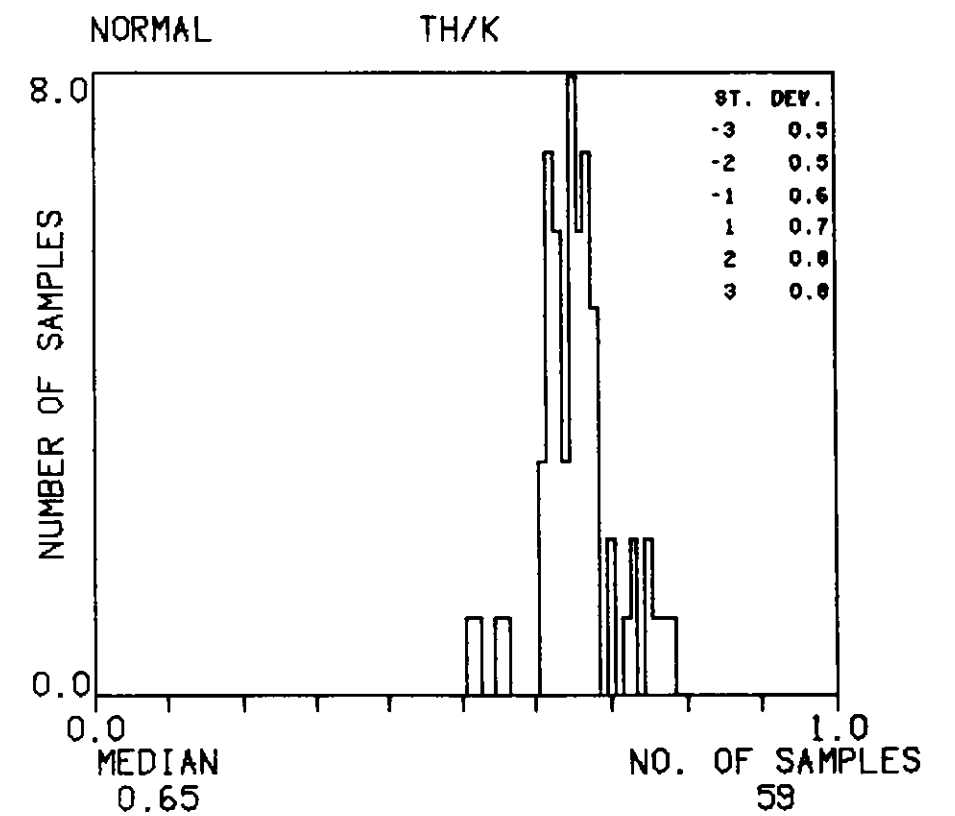
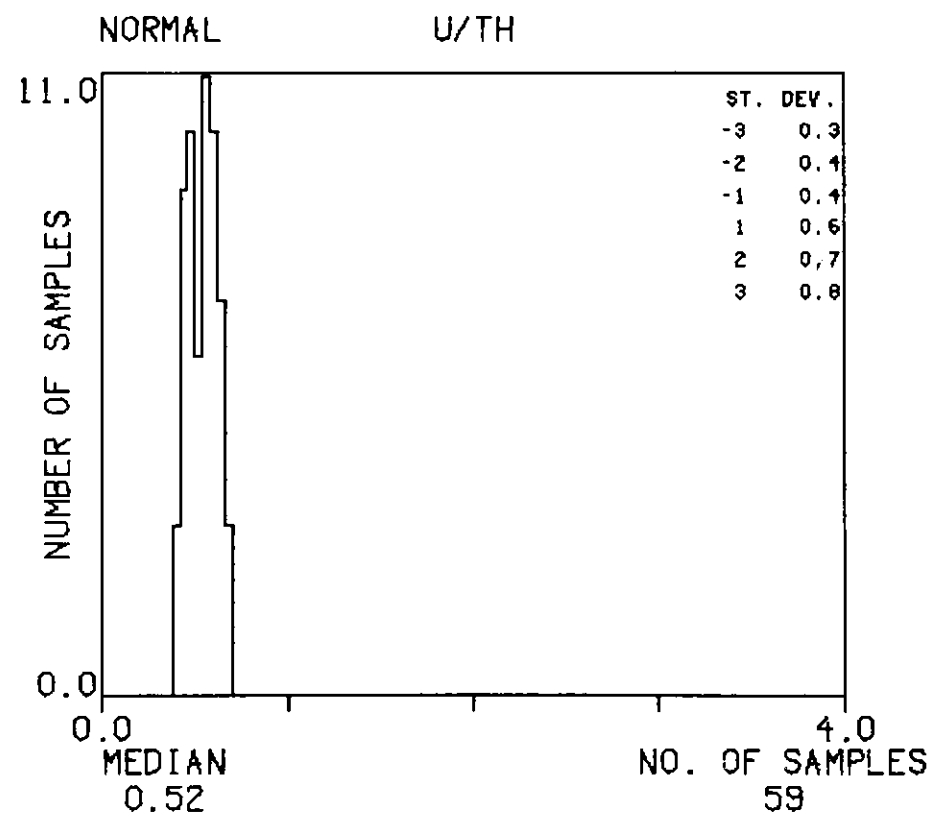
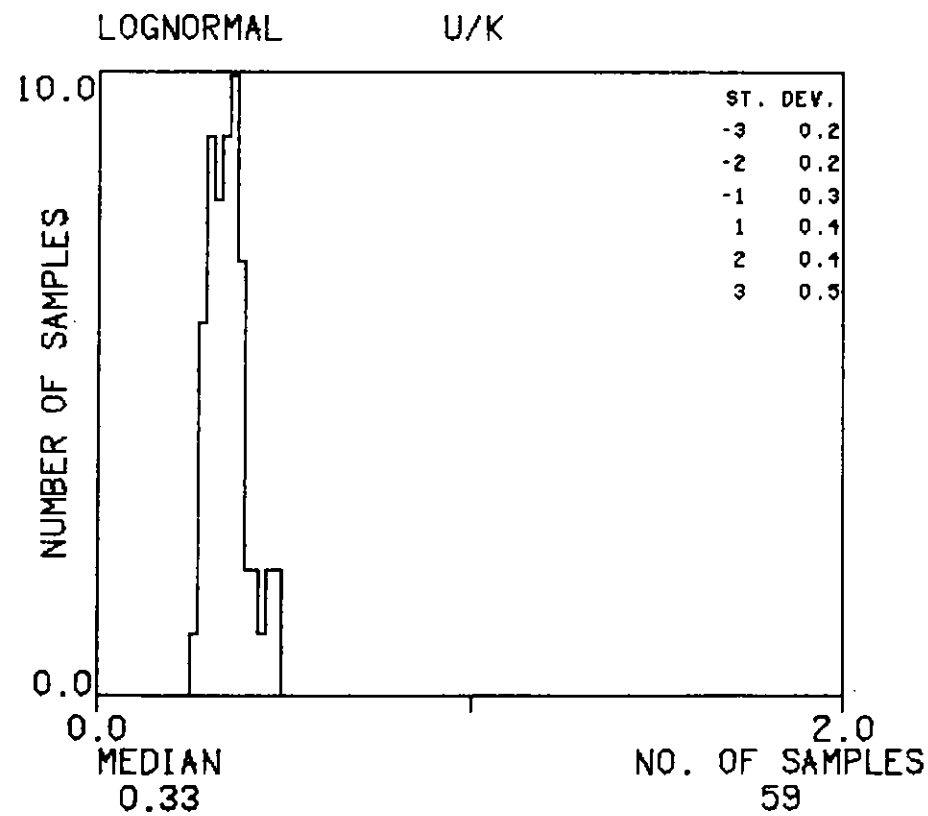
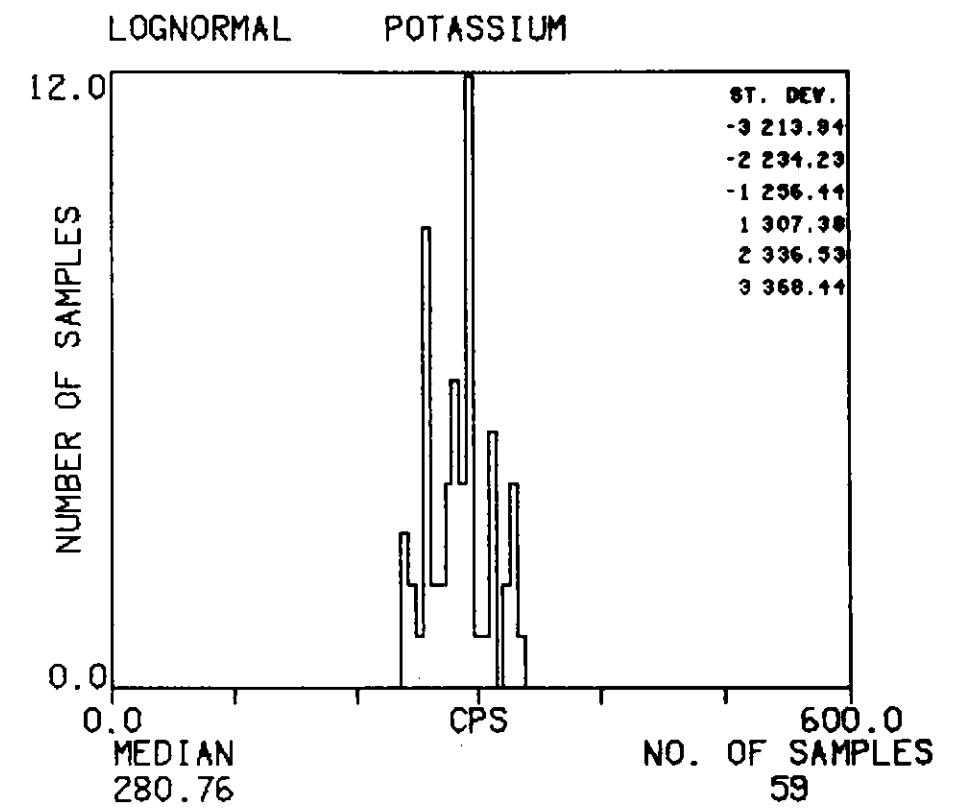
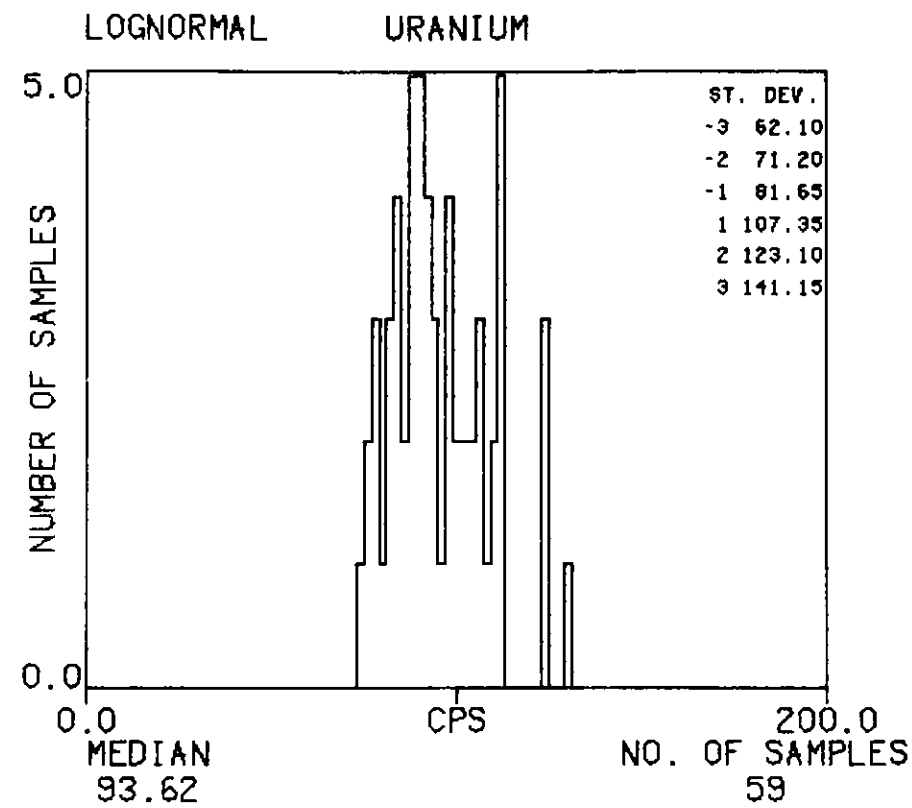
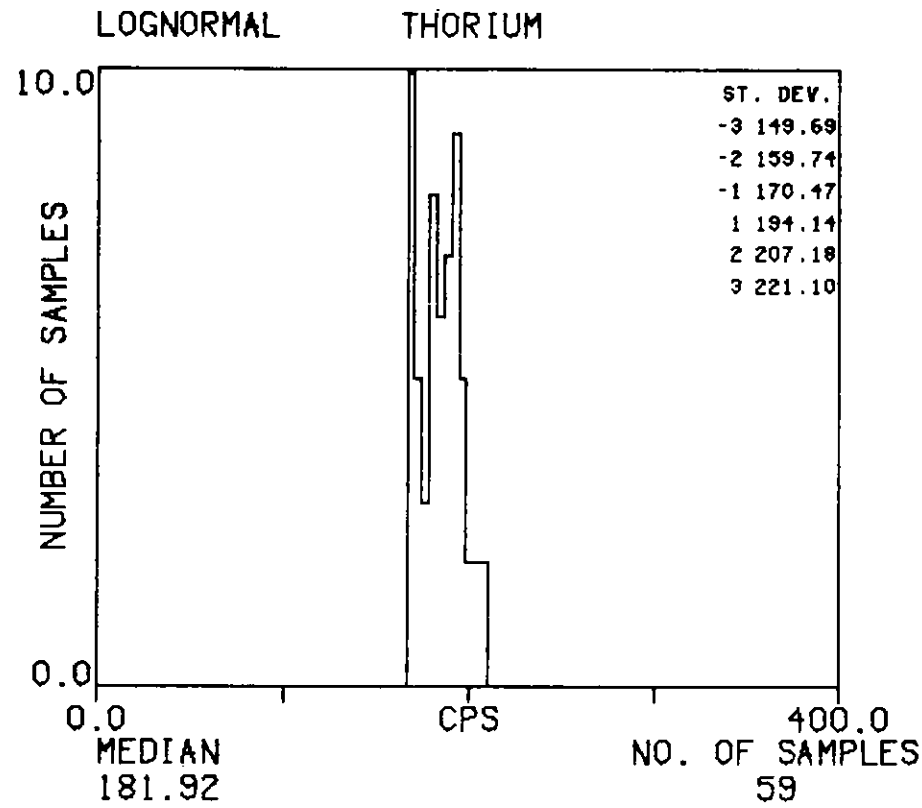
HISTOGRAMS : TR-3

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



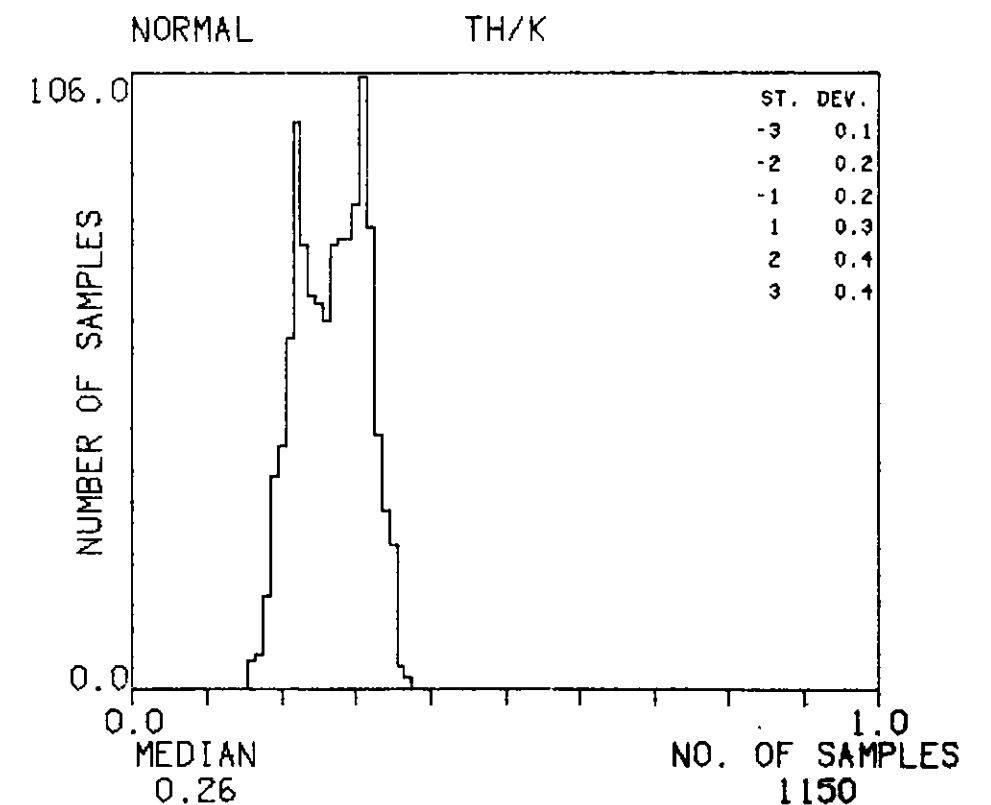
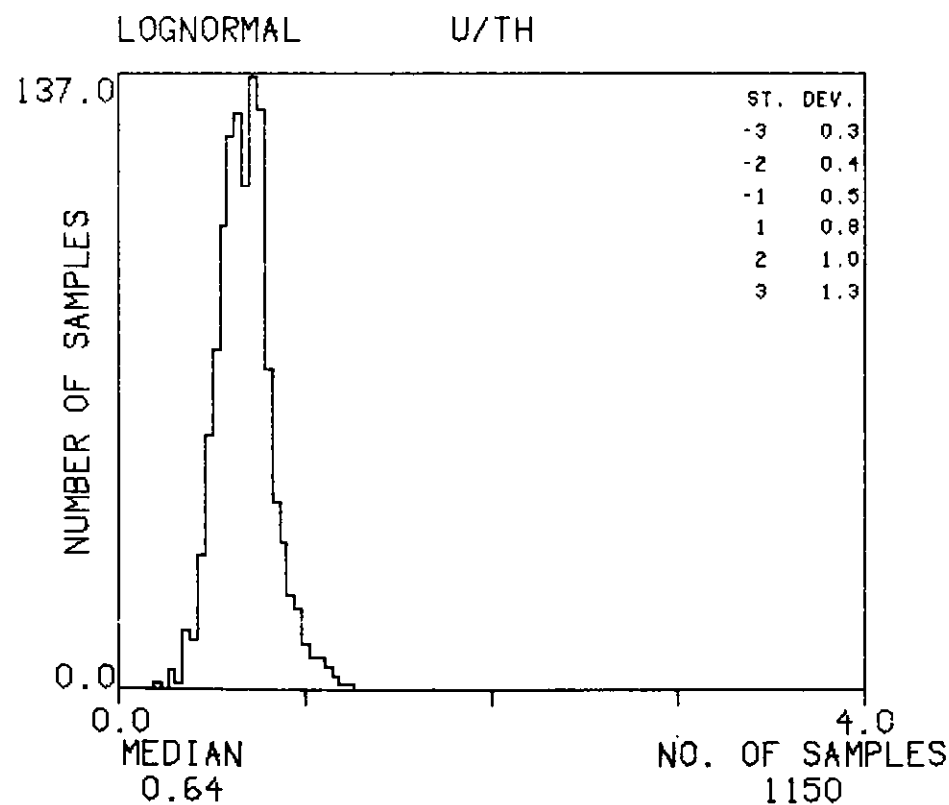
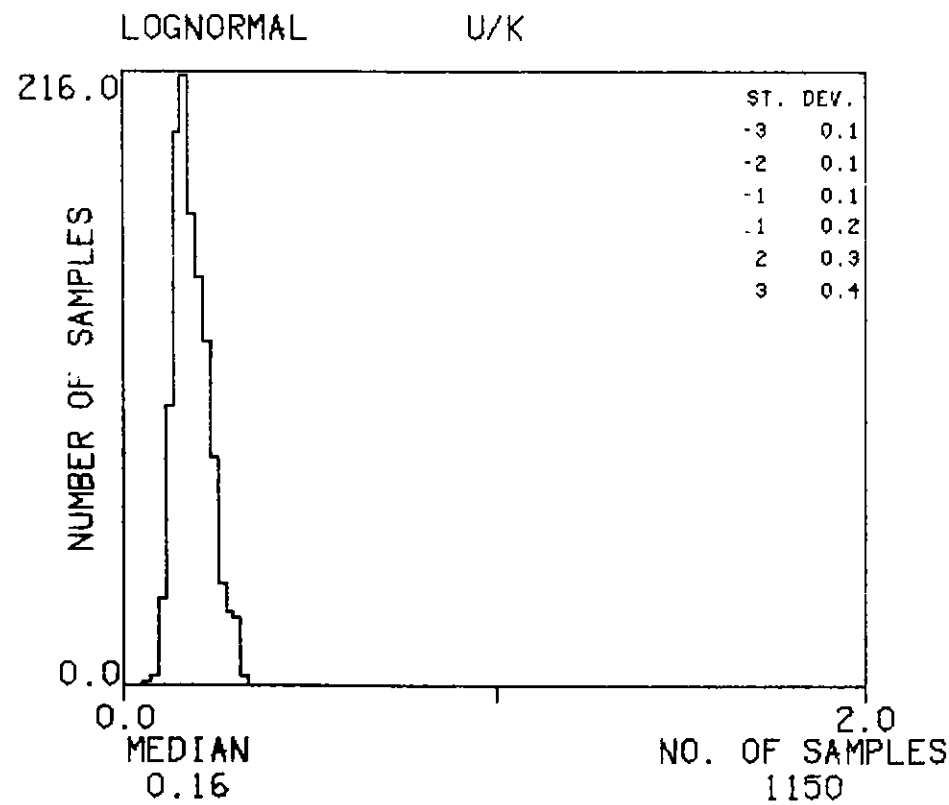
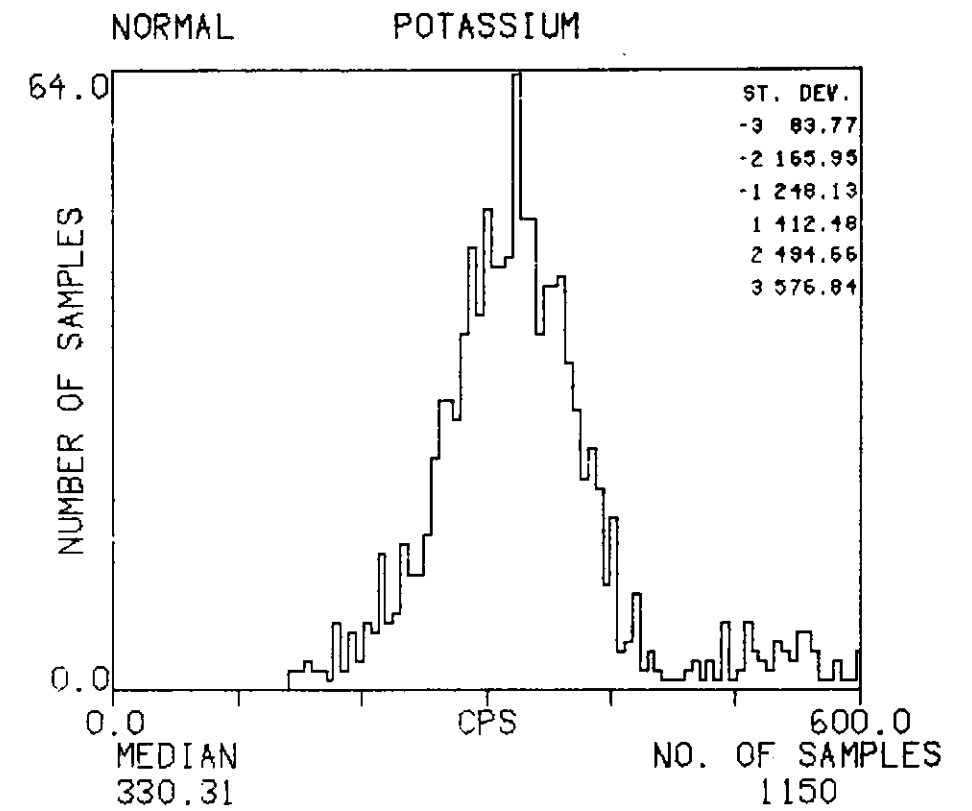
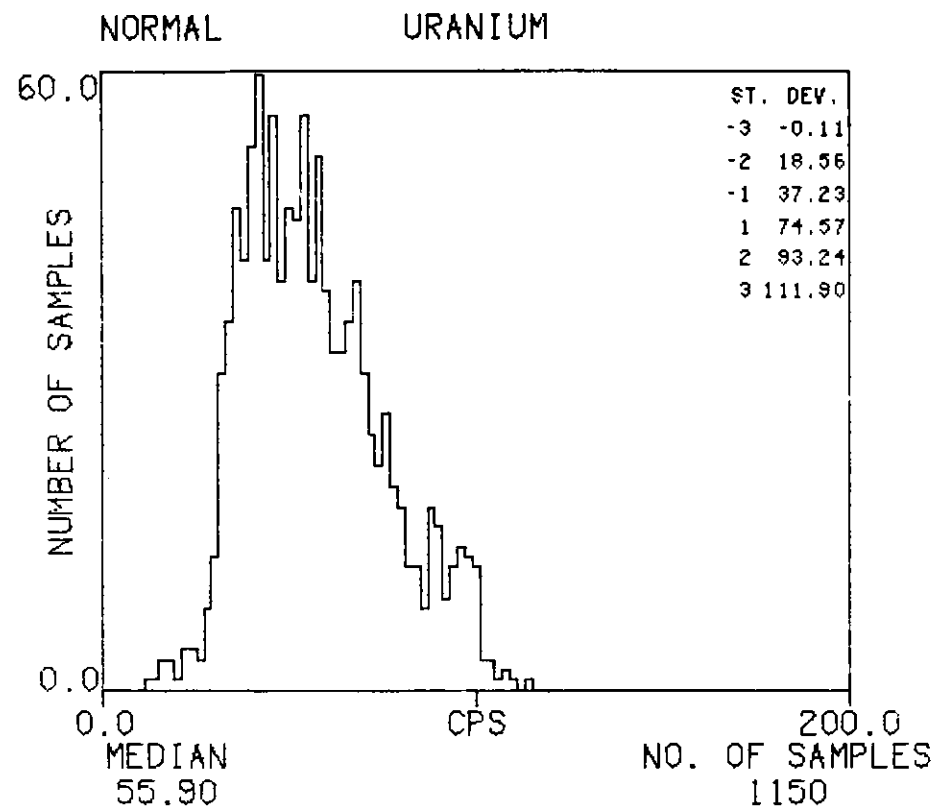
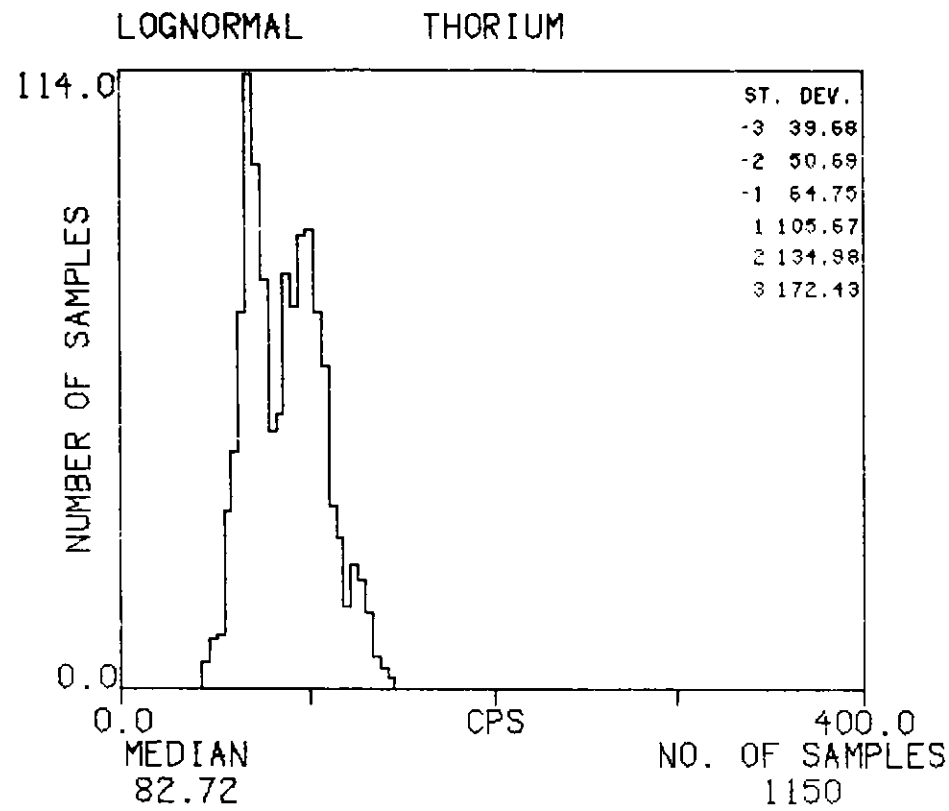
HISTOGRAMS : TR-4

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



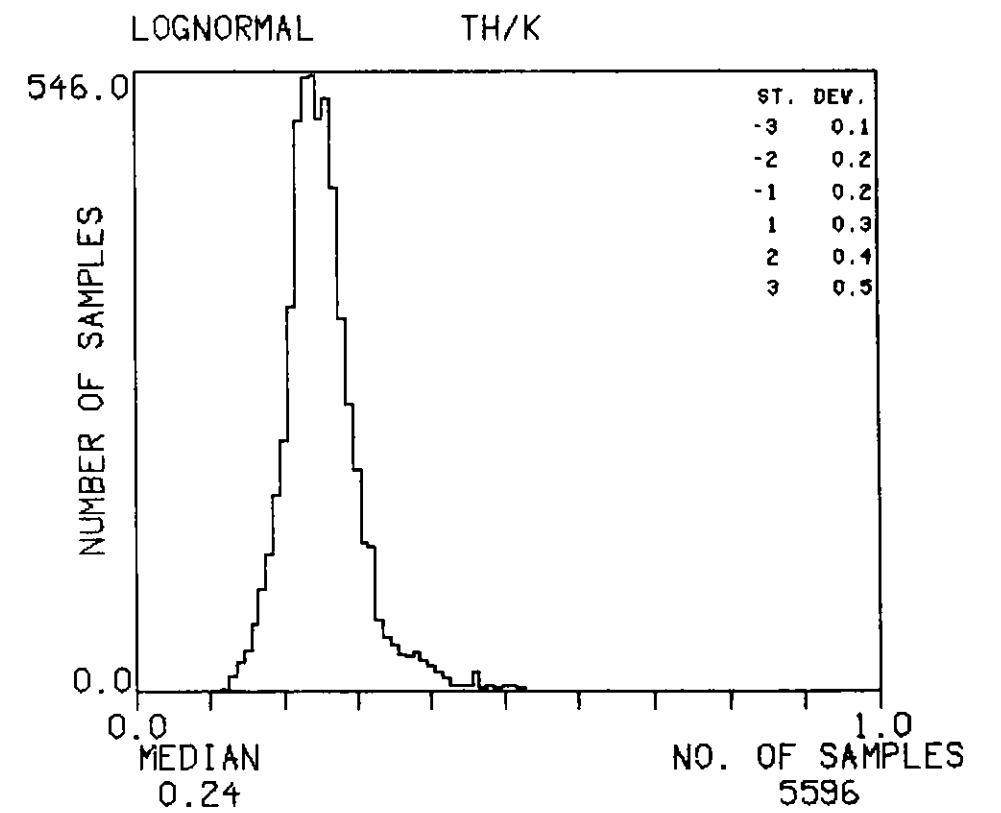
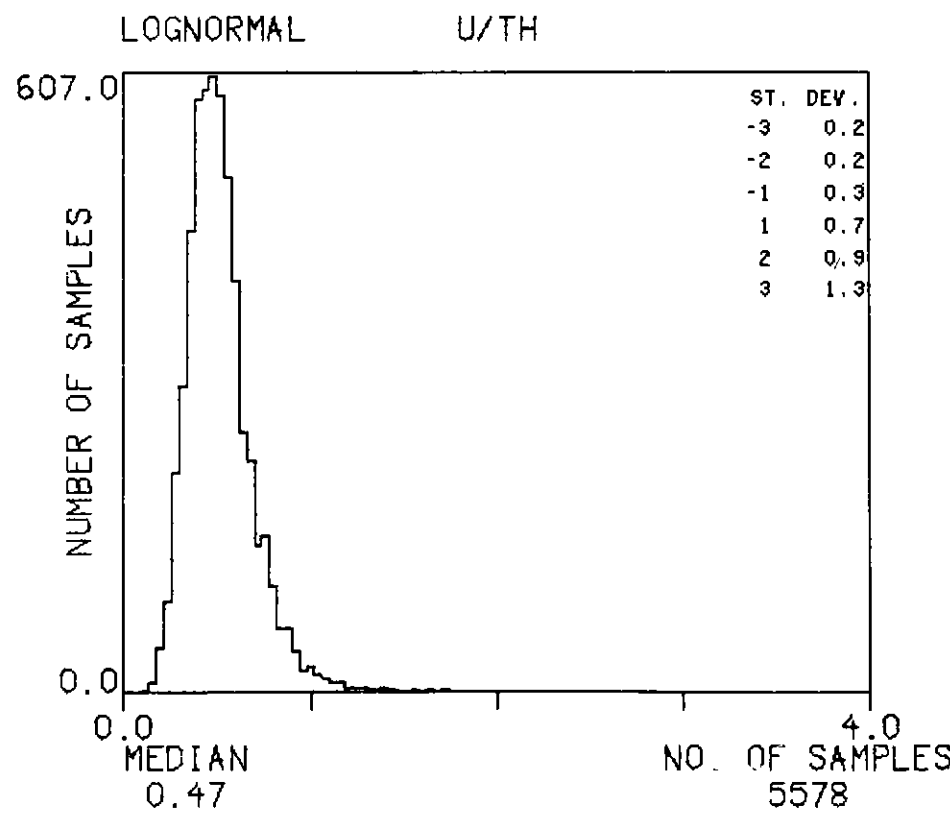
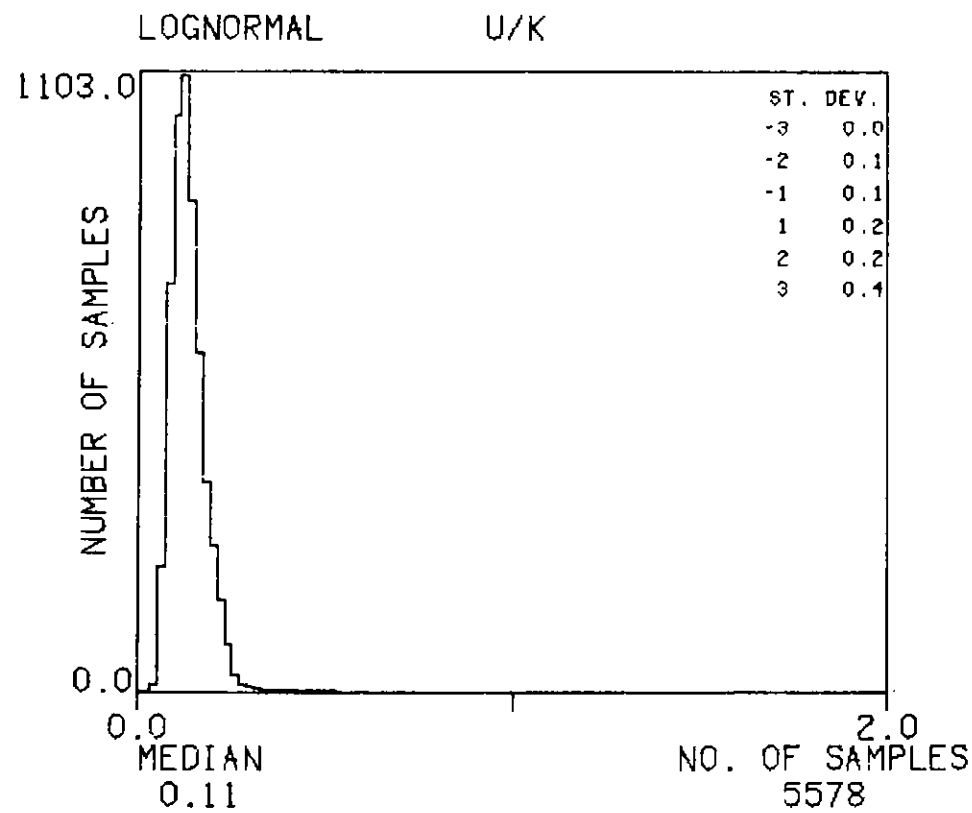
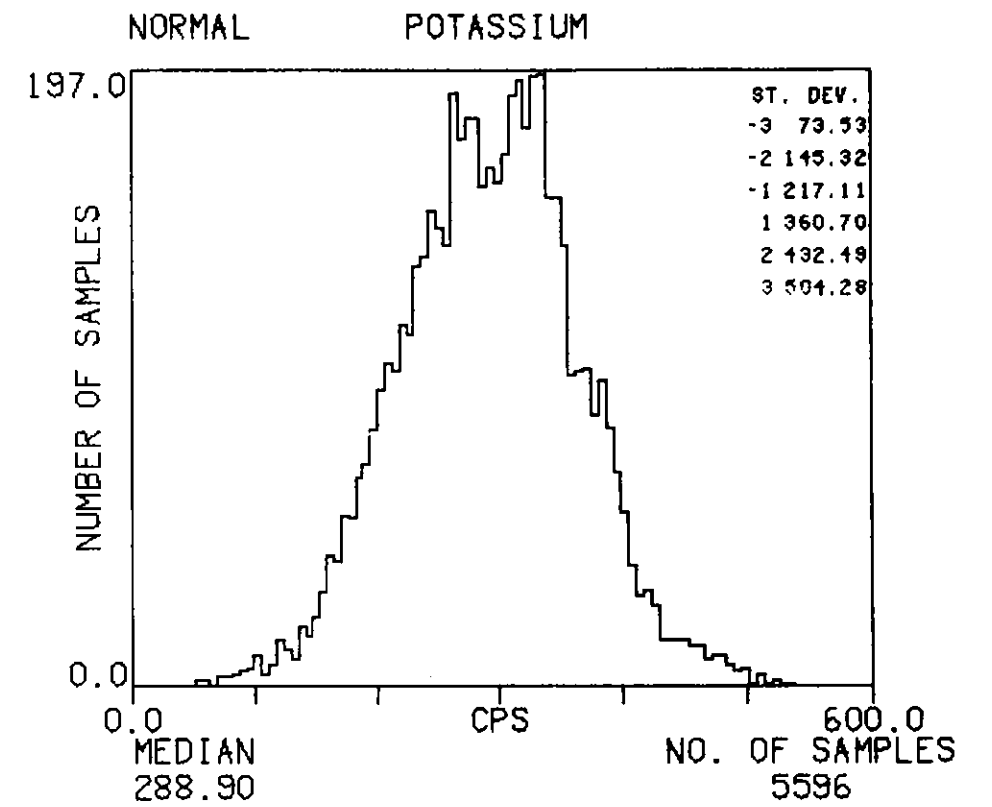
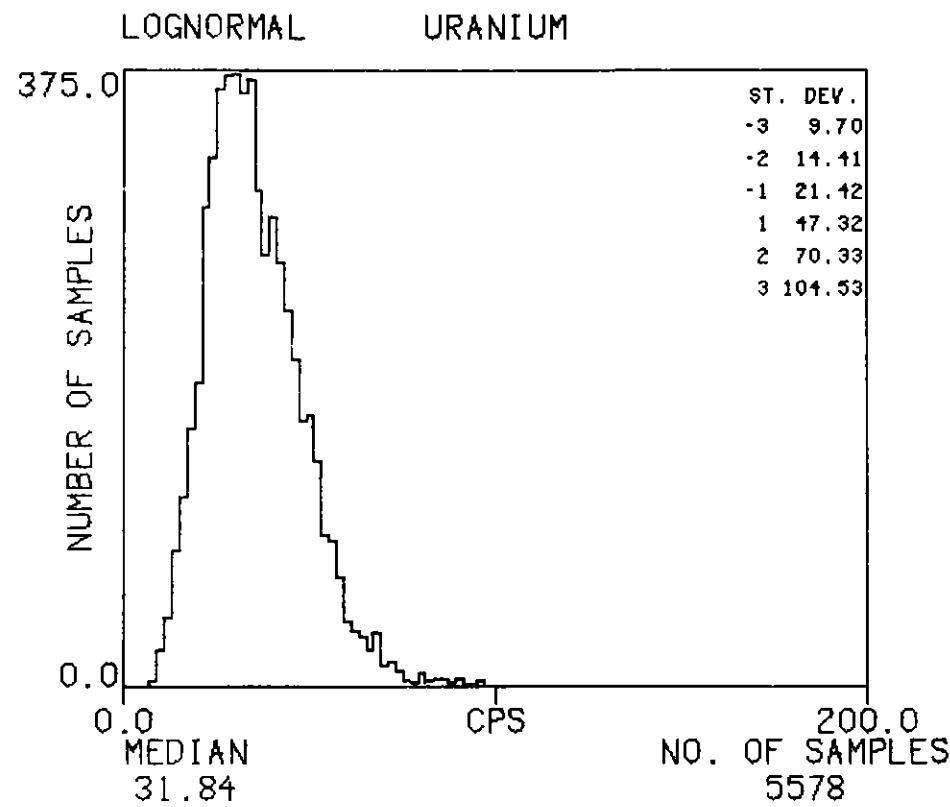
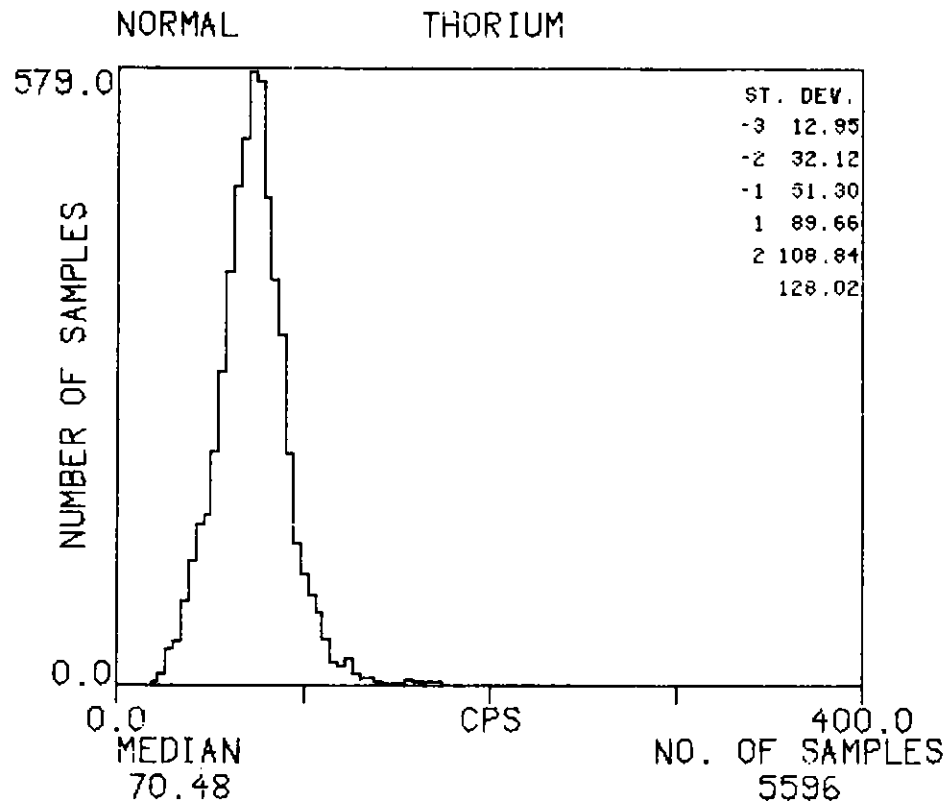
HISTOGRAMS : TV

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



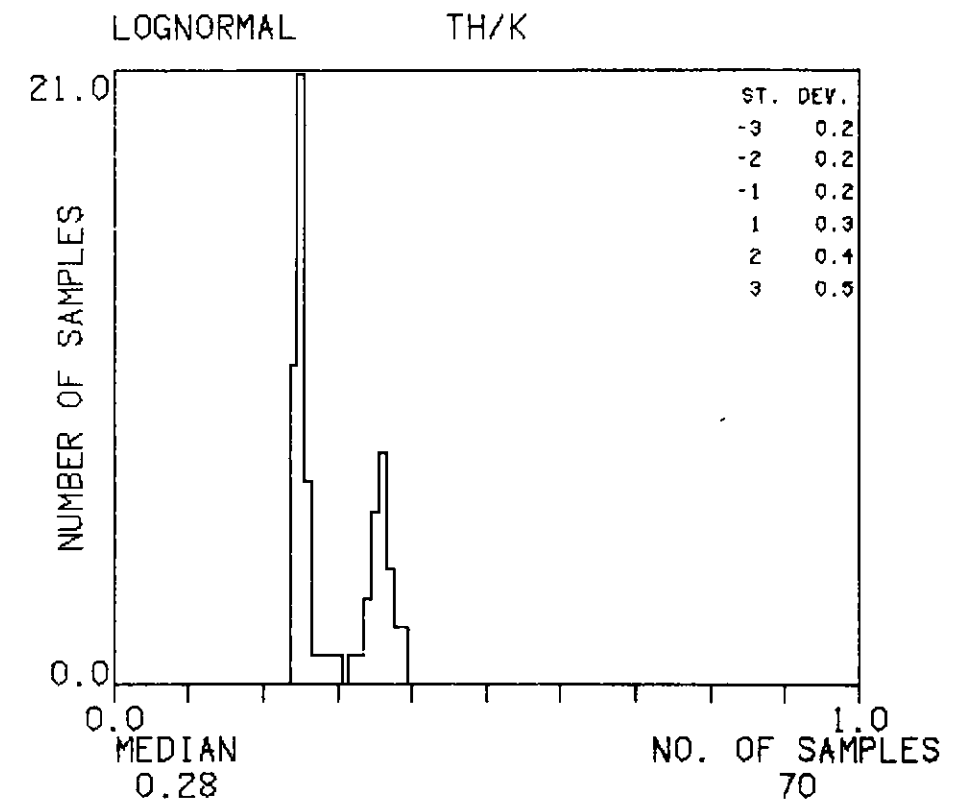
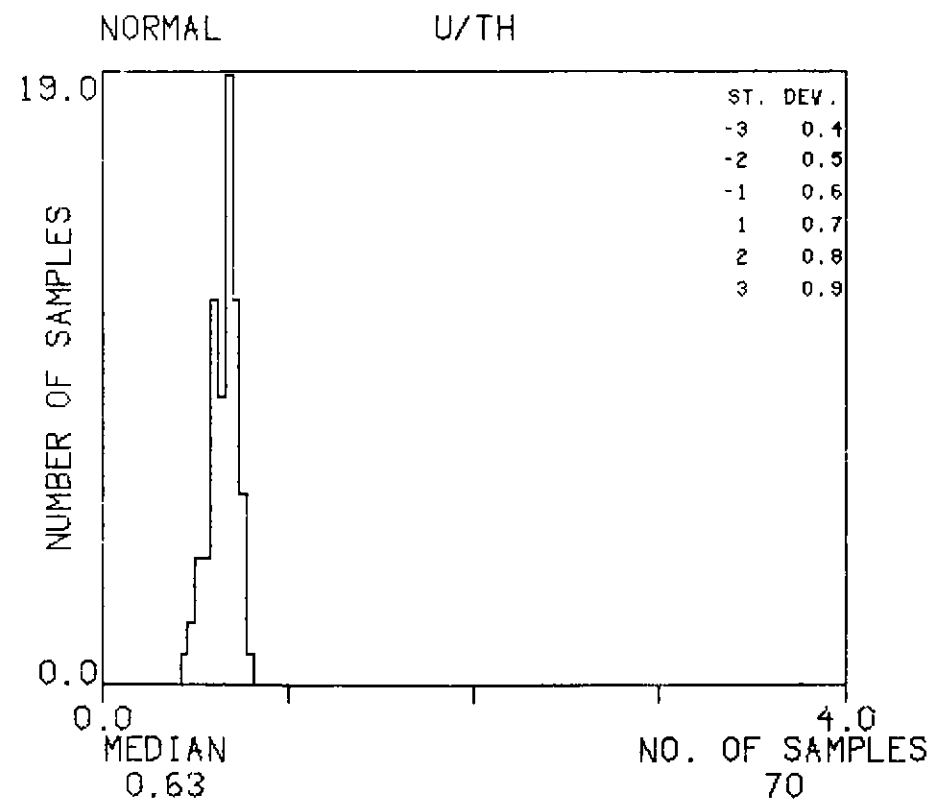
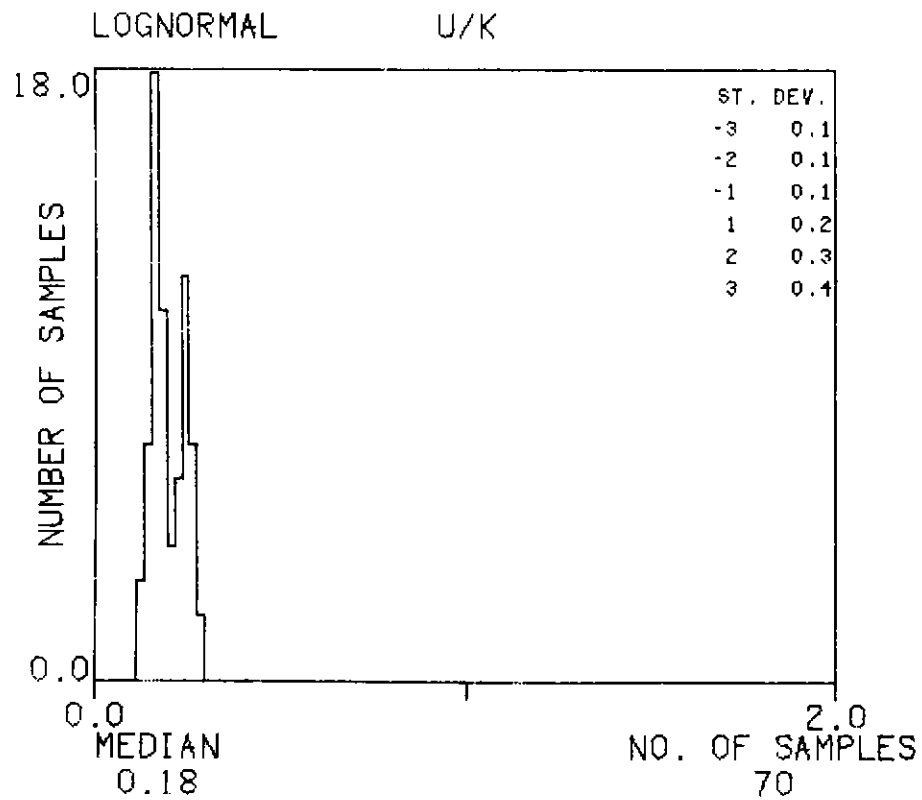
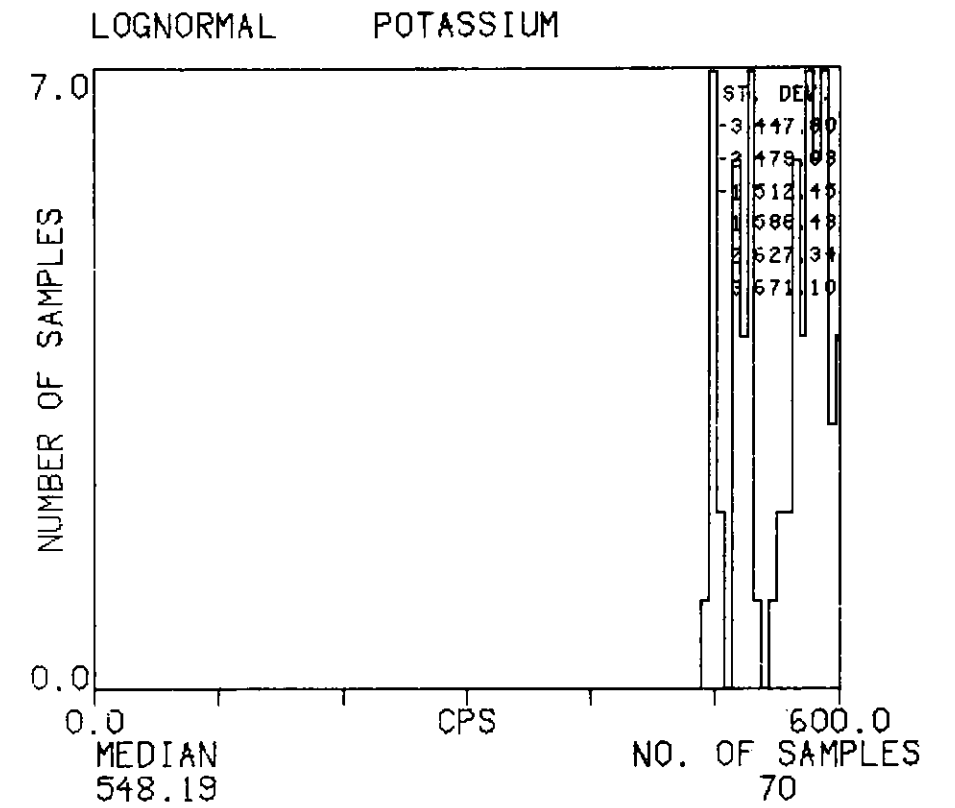
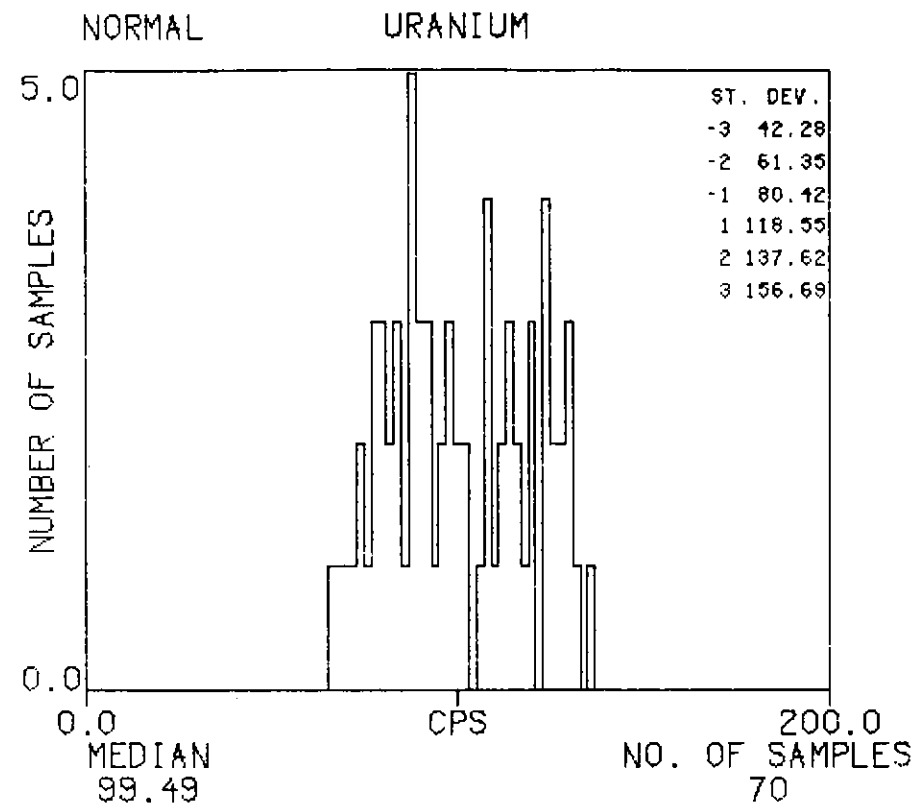
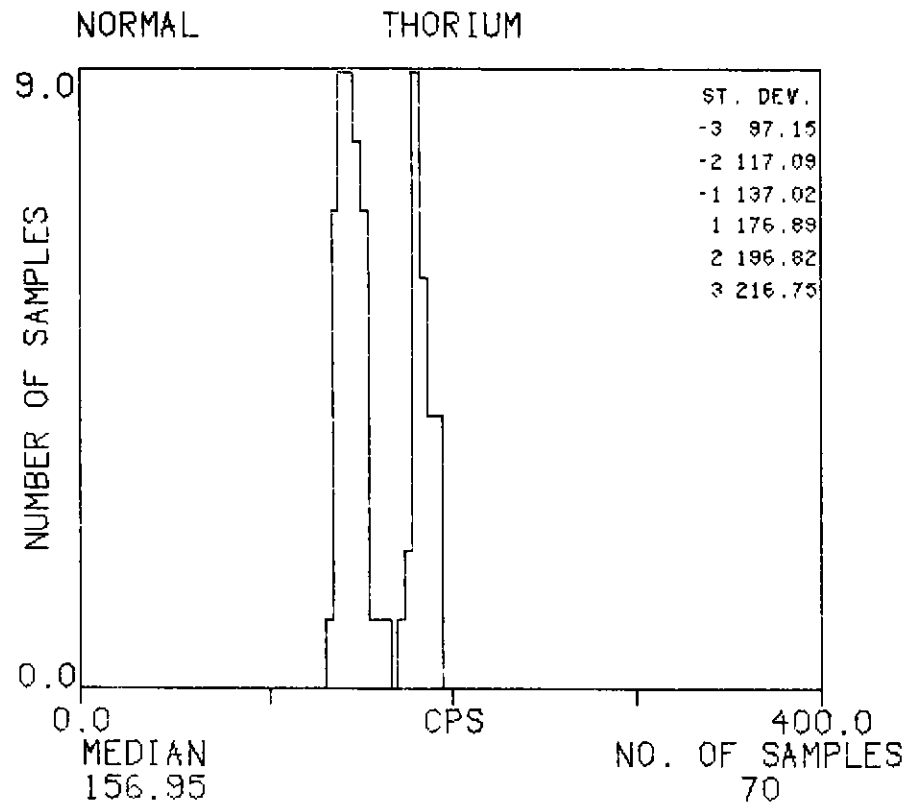
HISTOGRAMS : TD

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



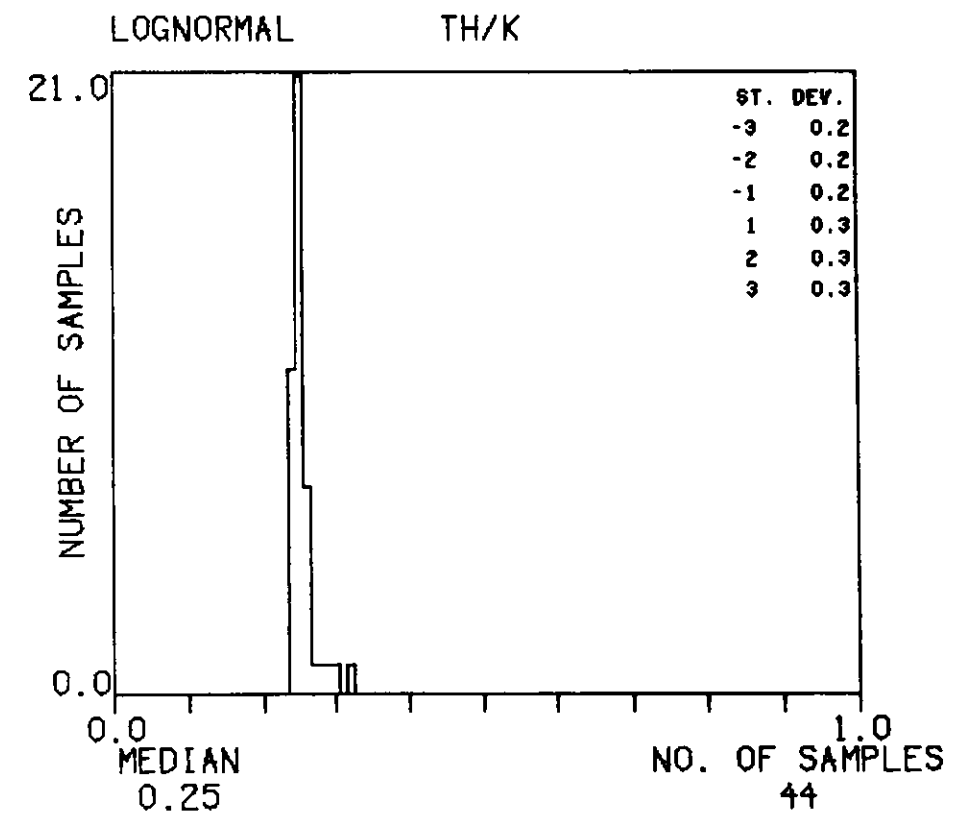
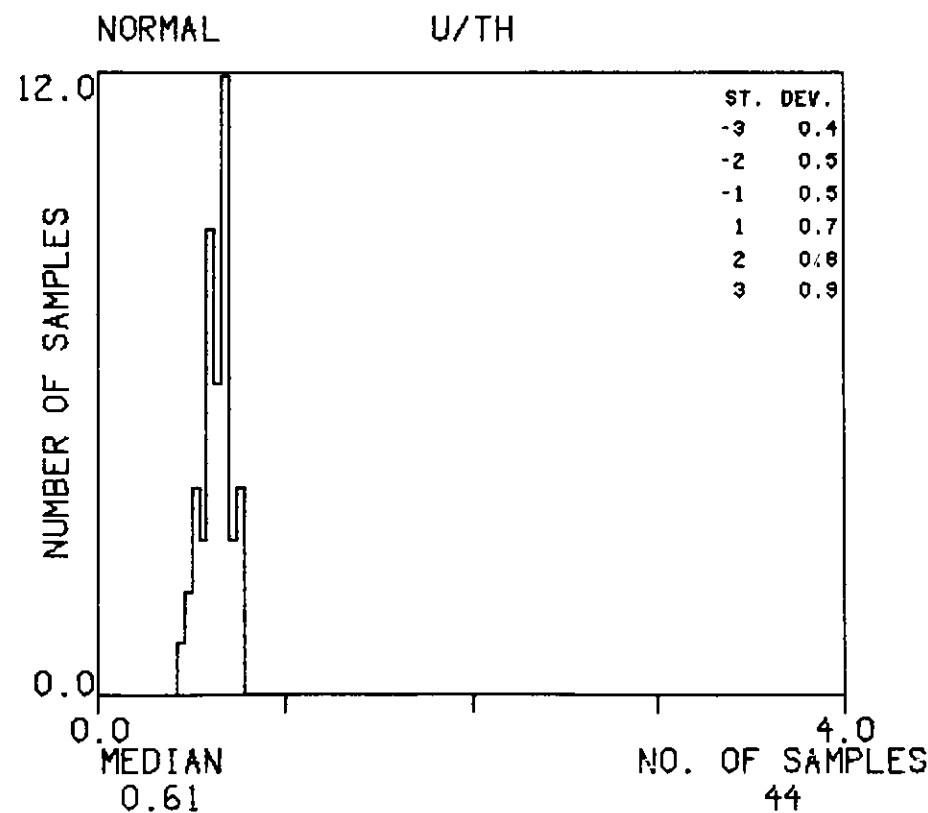
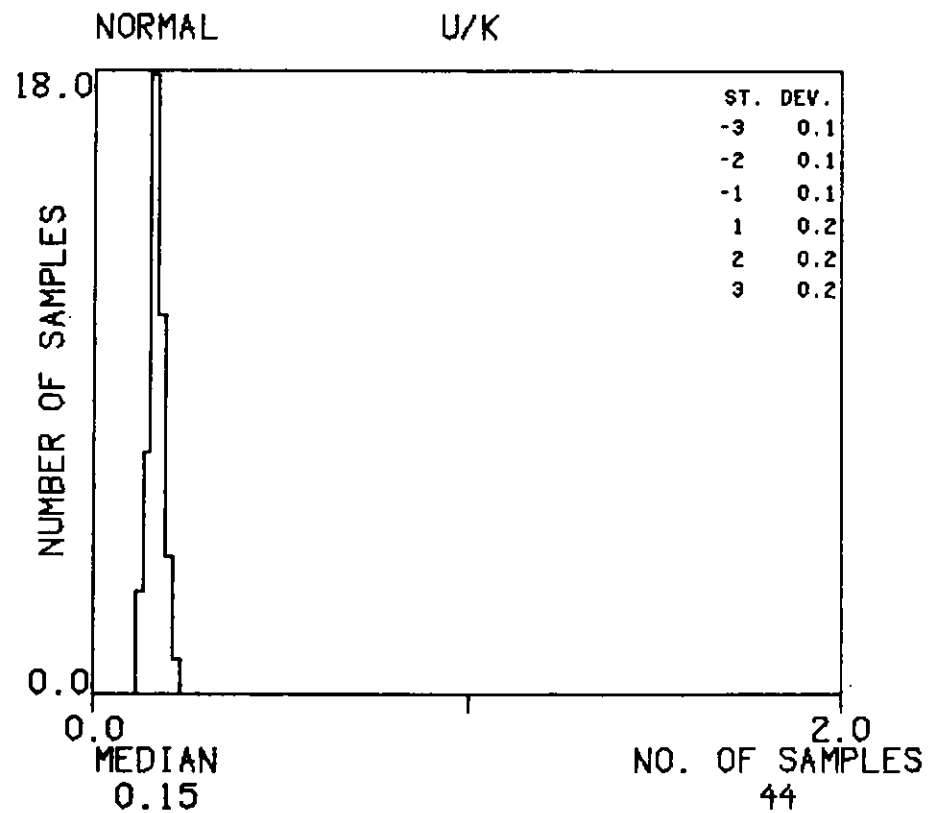
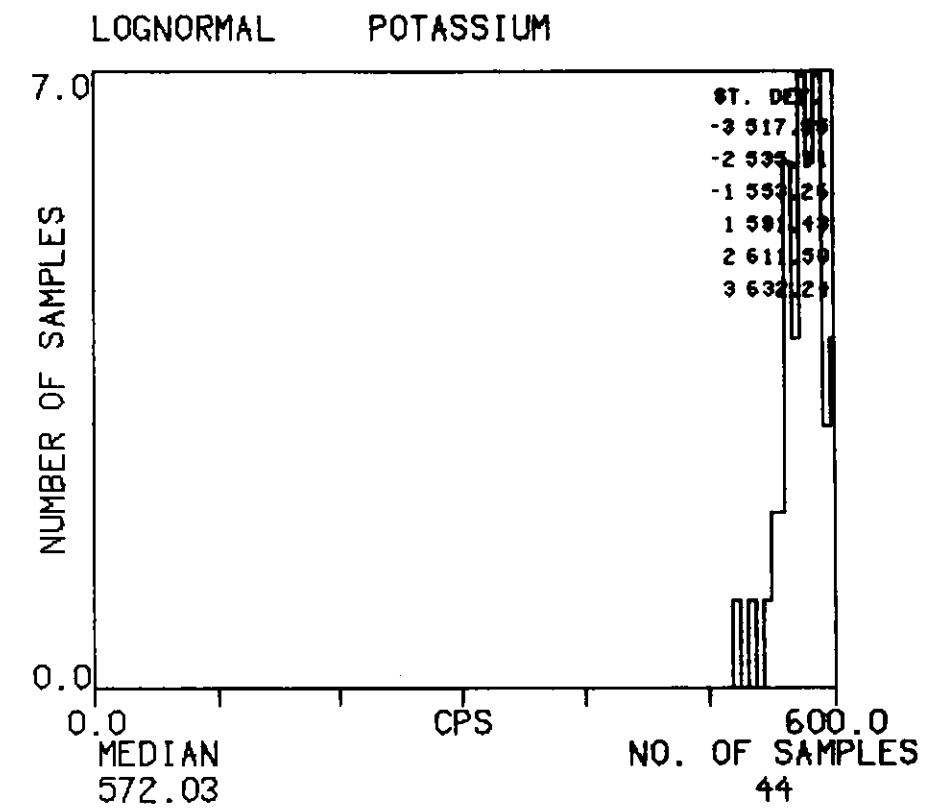
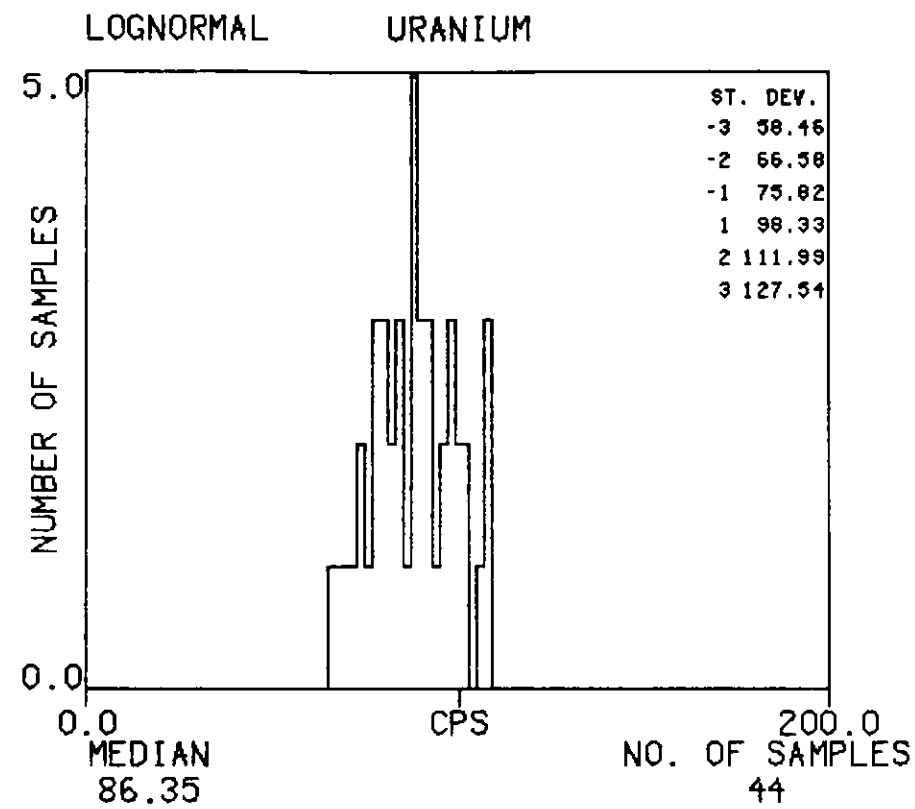
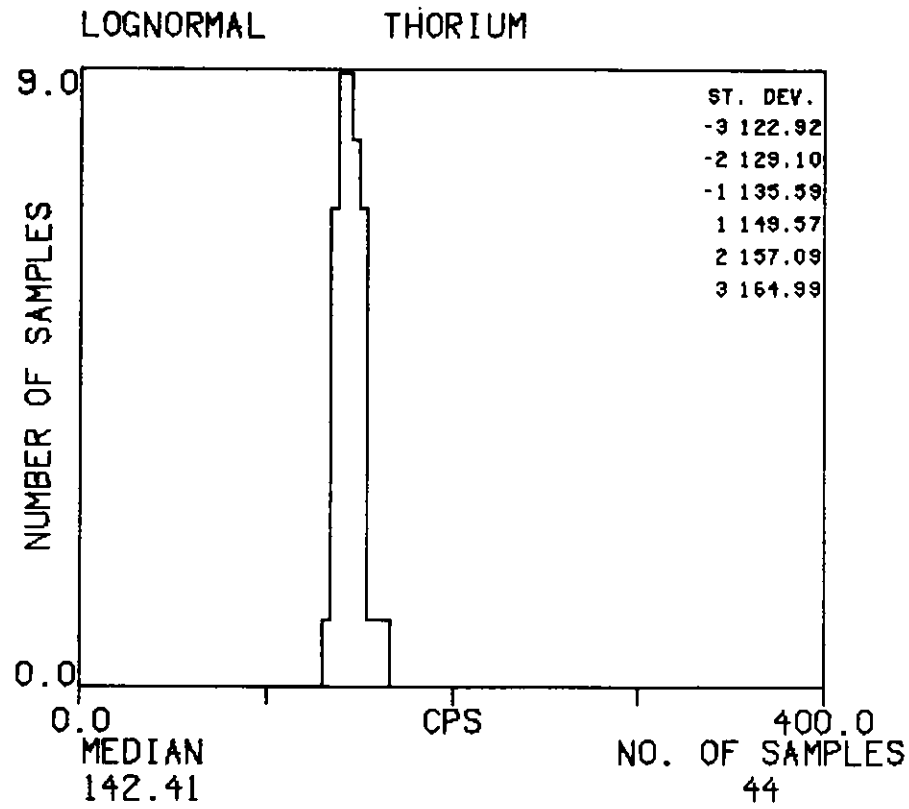
HISTOGRAMS : TVU

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



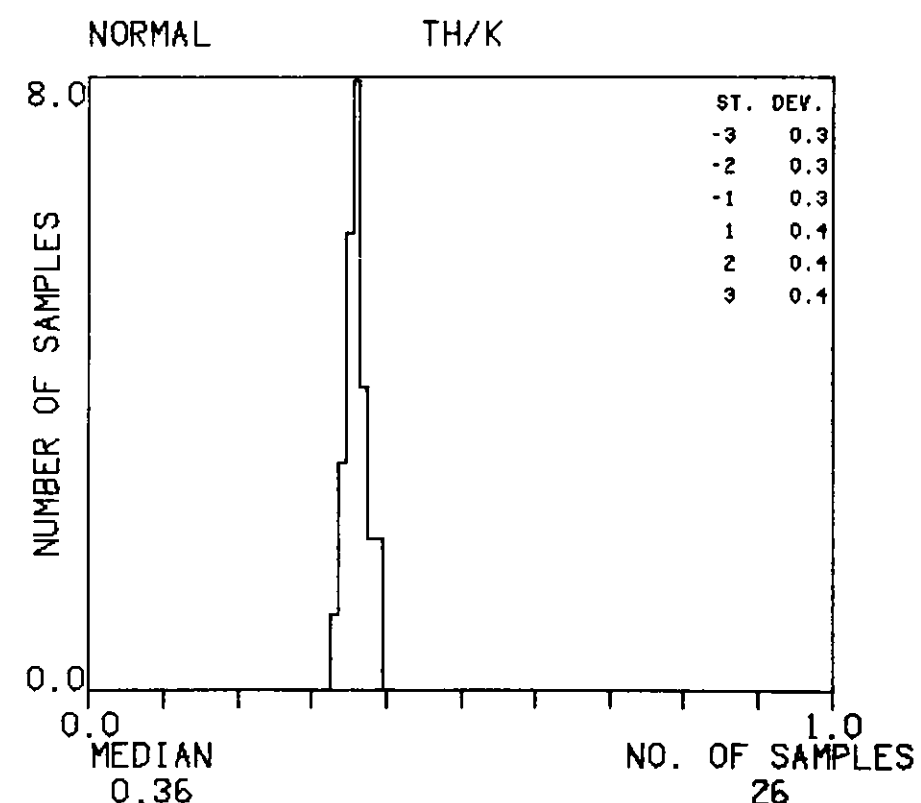
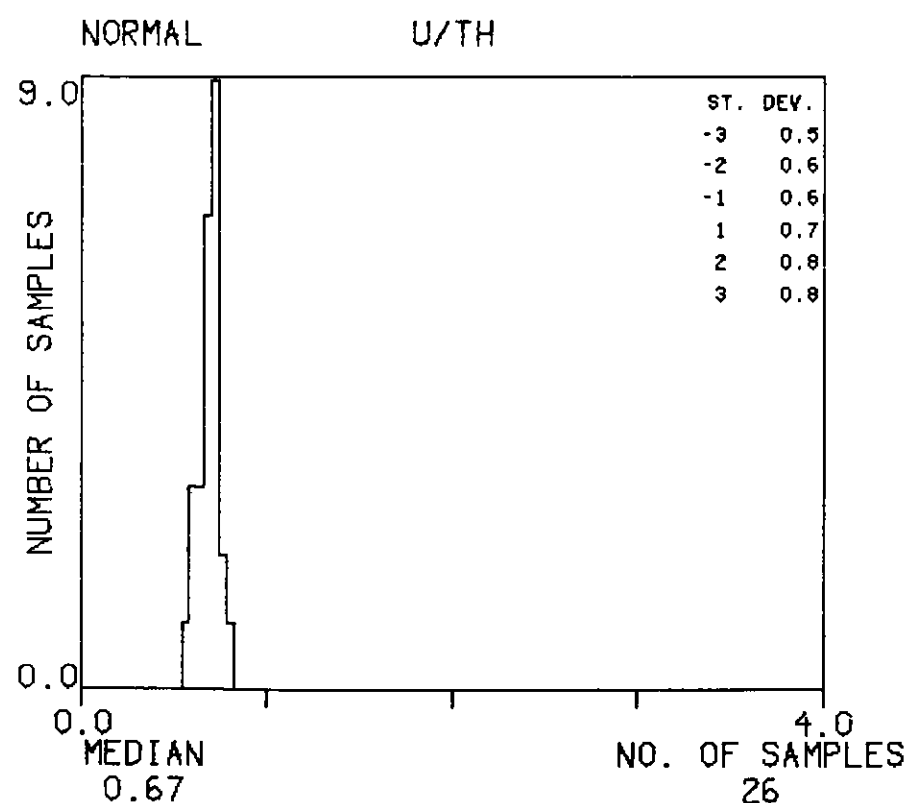
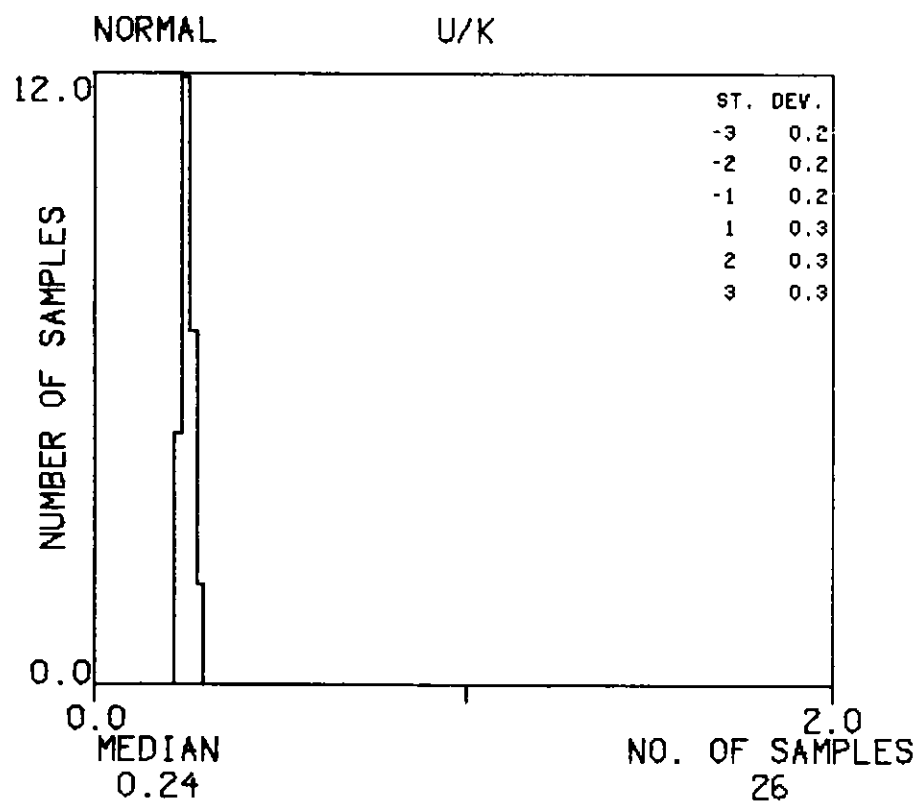
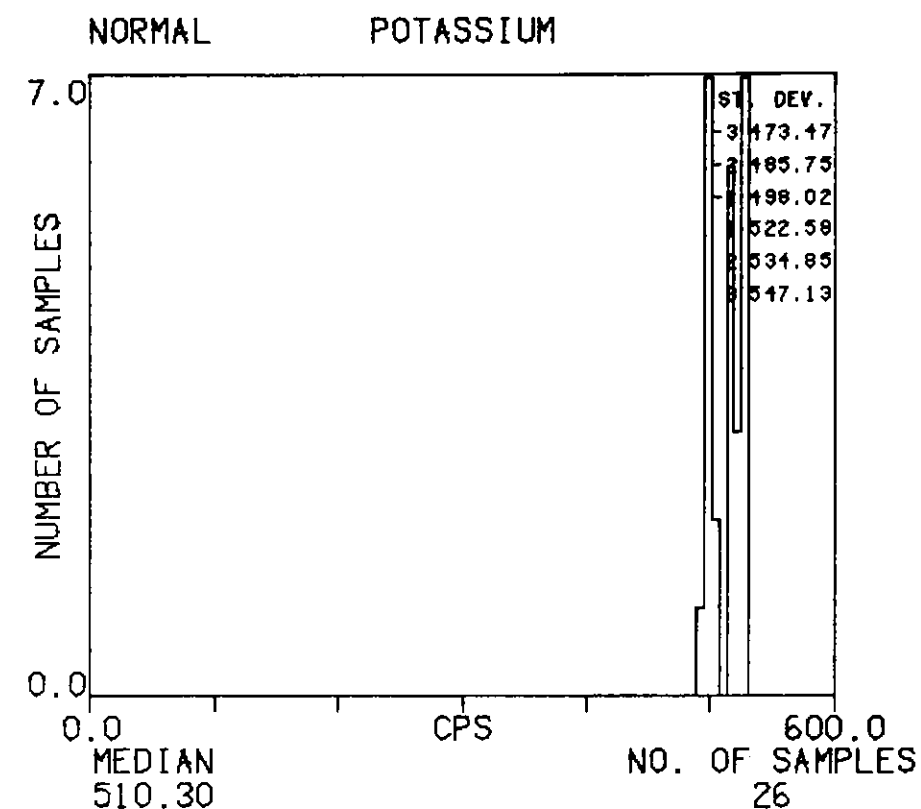
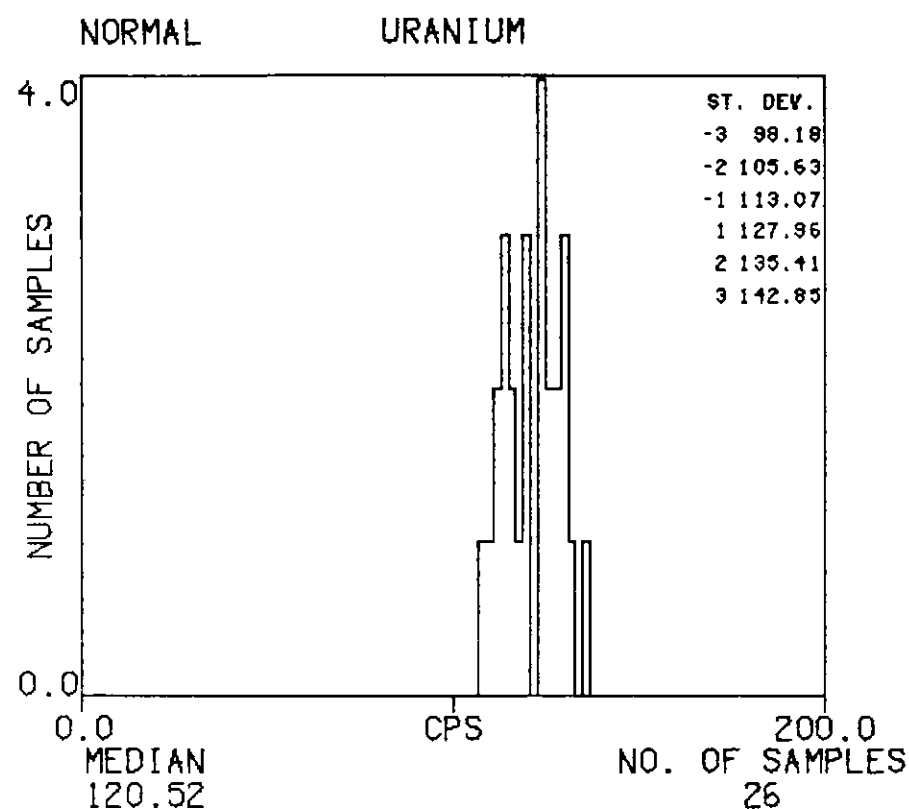
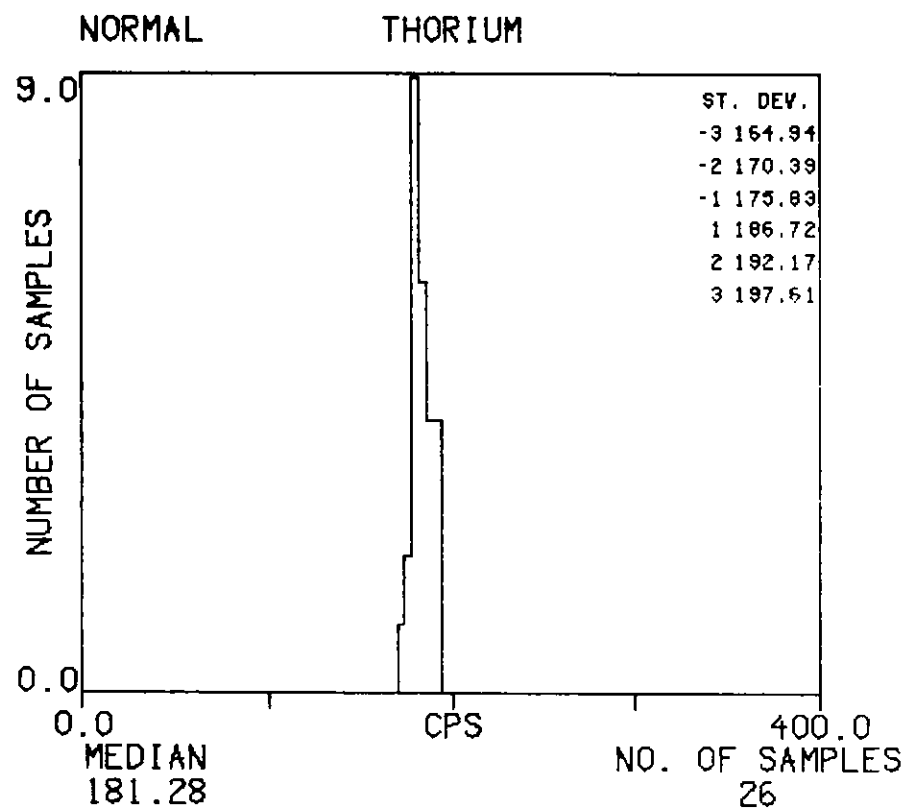
HISTOGRAMS : TVU-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



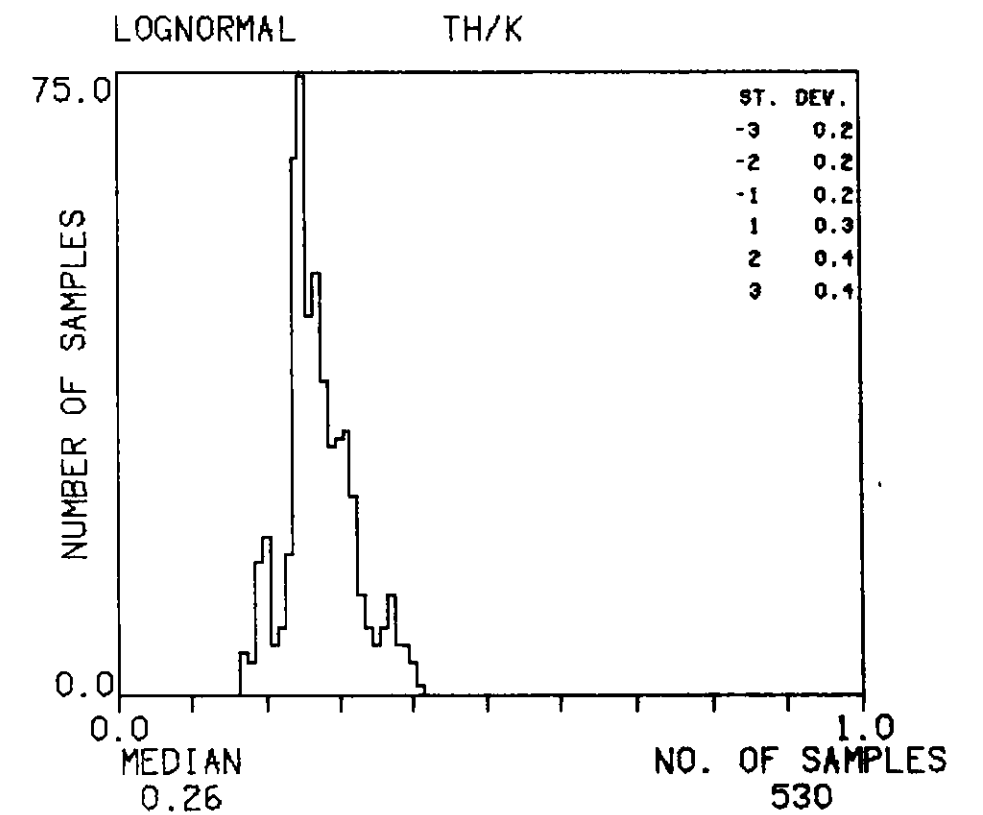
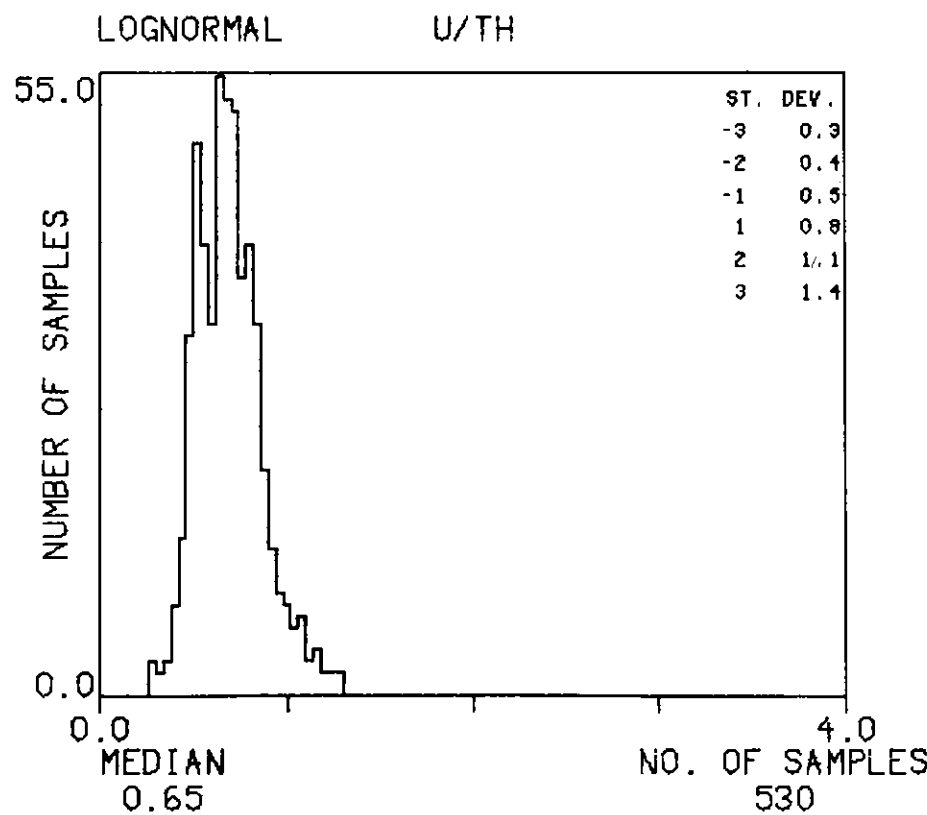
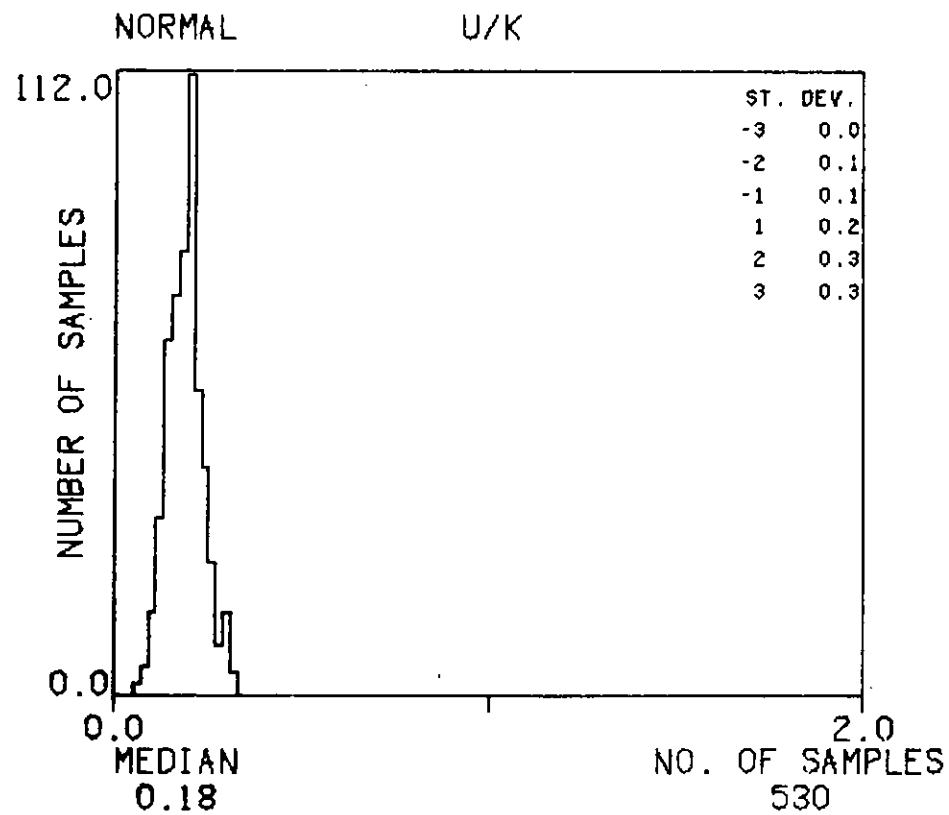
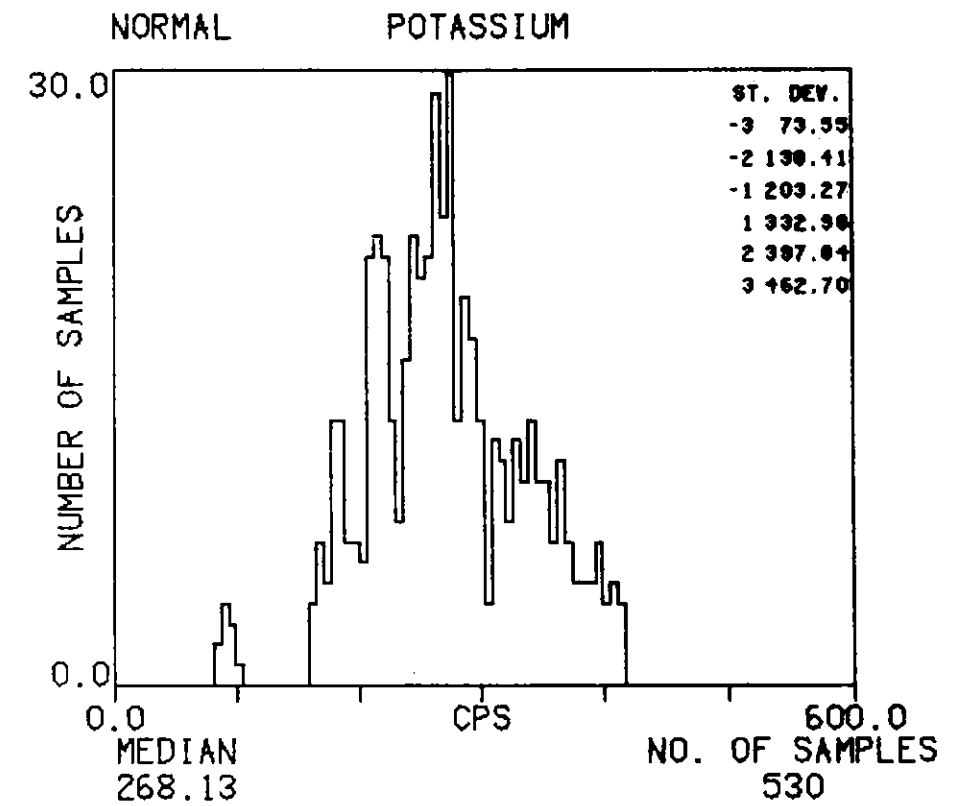
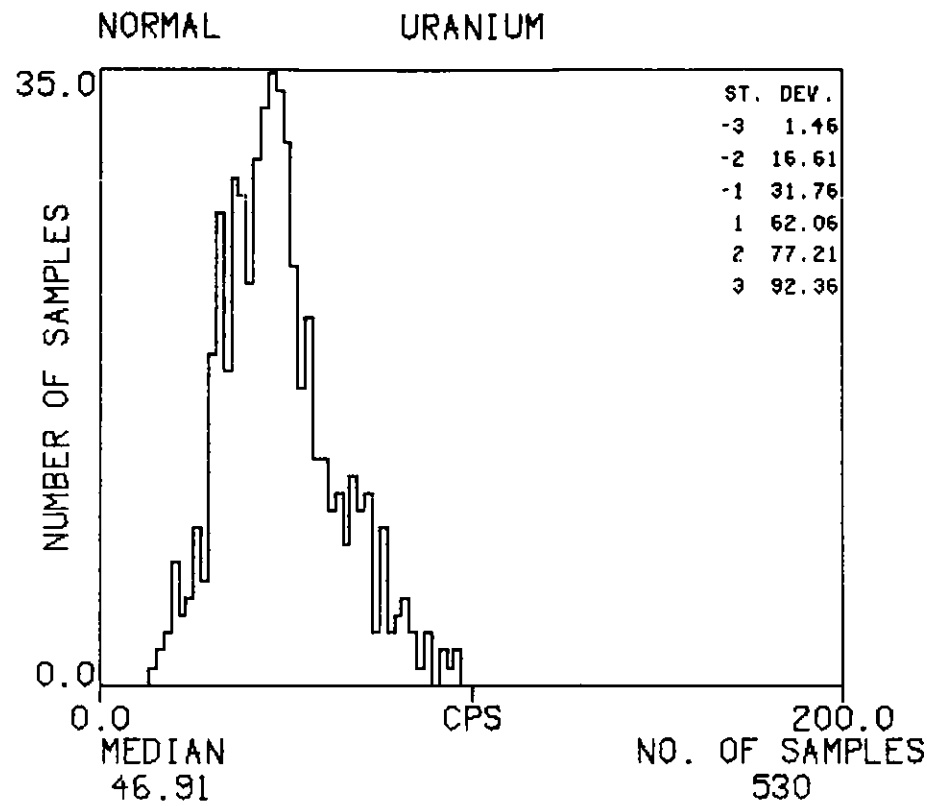
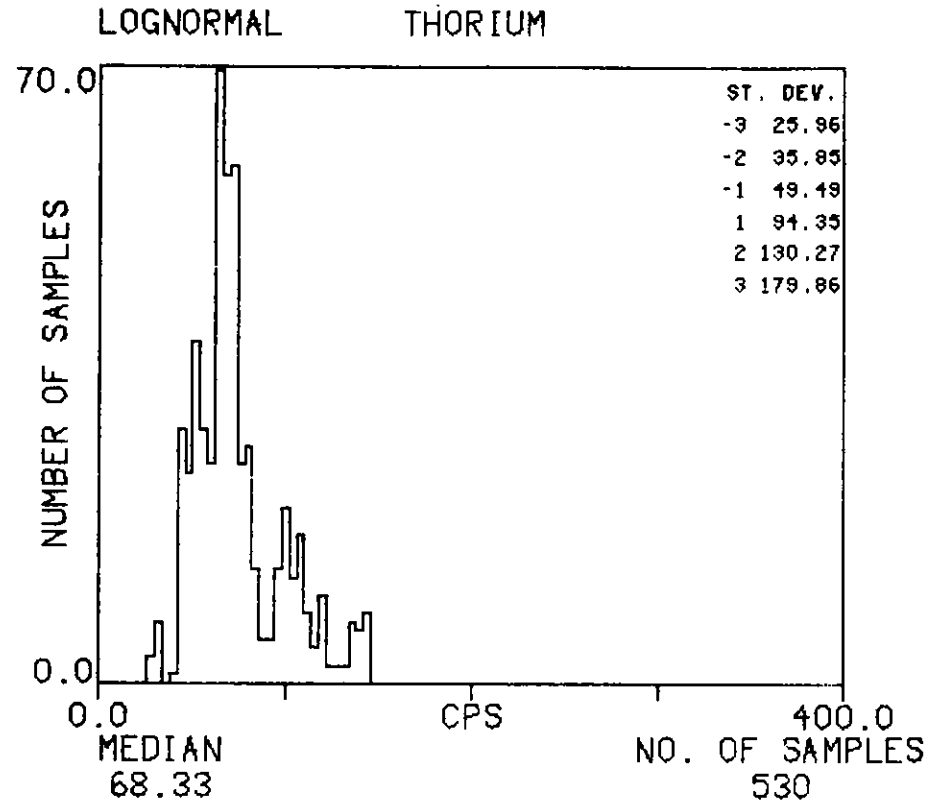
HISTOGRAMS : TVU-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



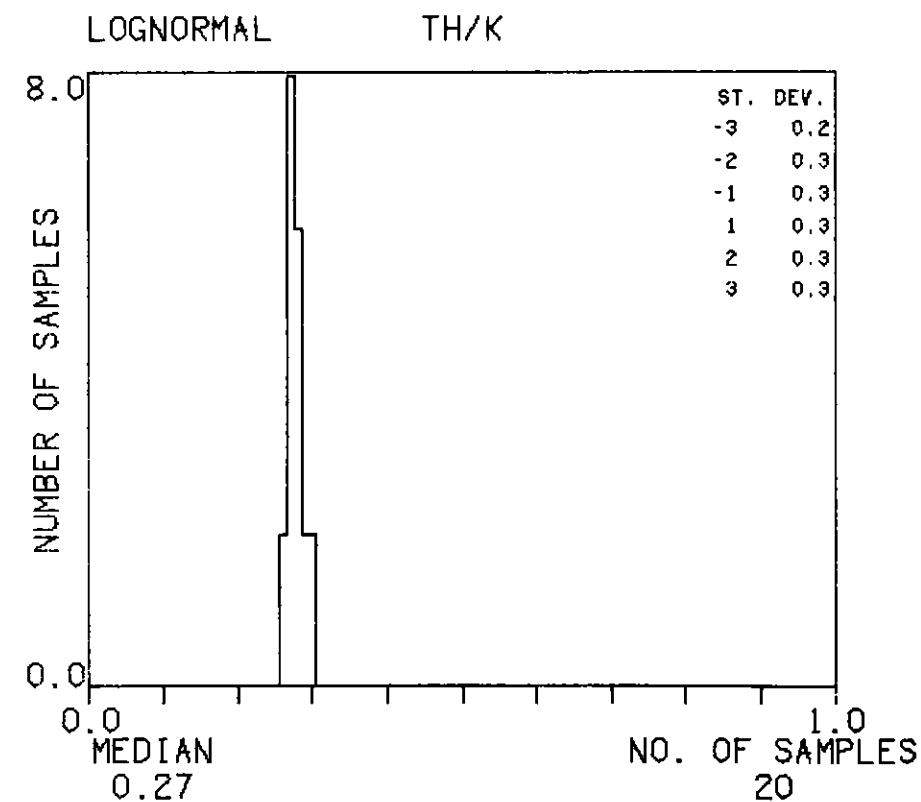
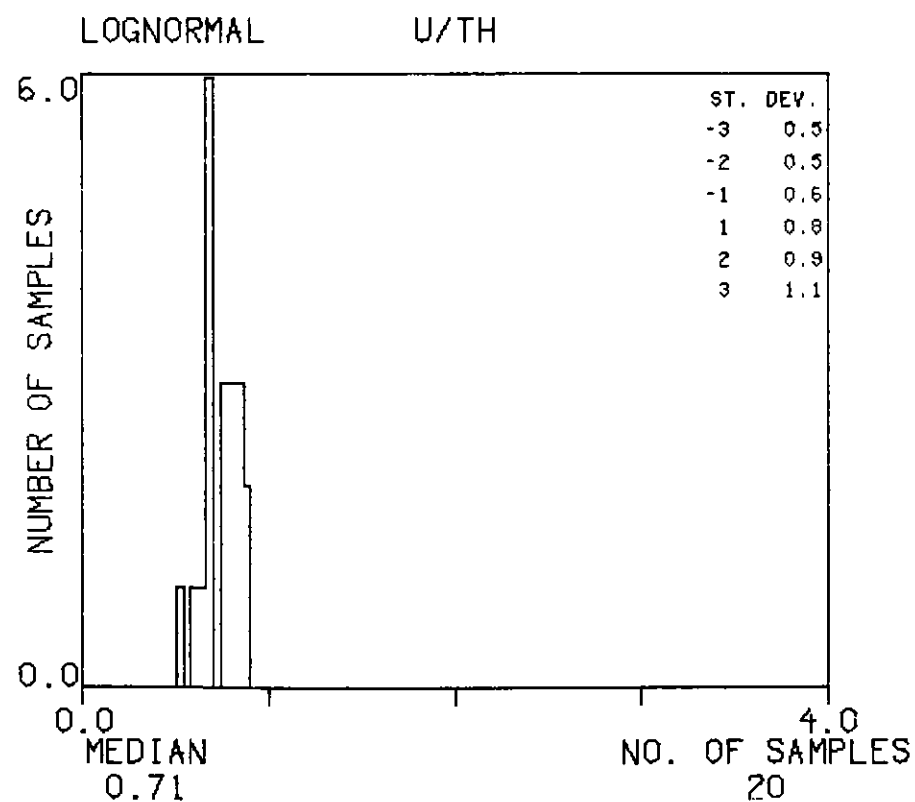
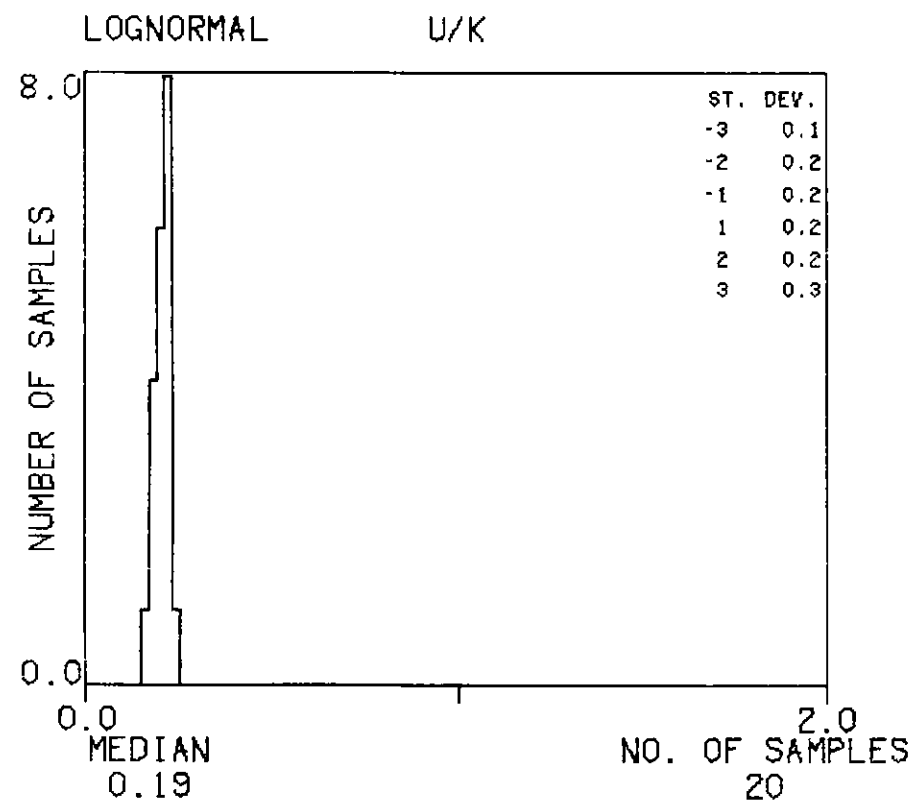
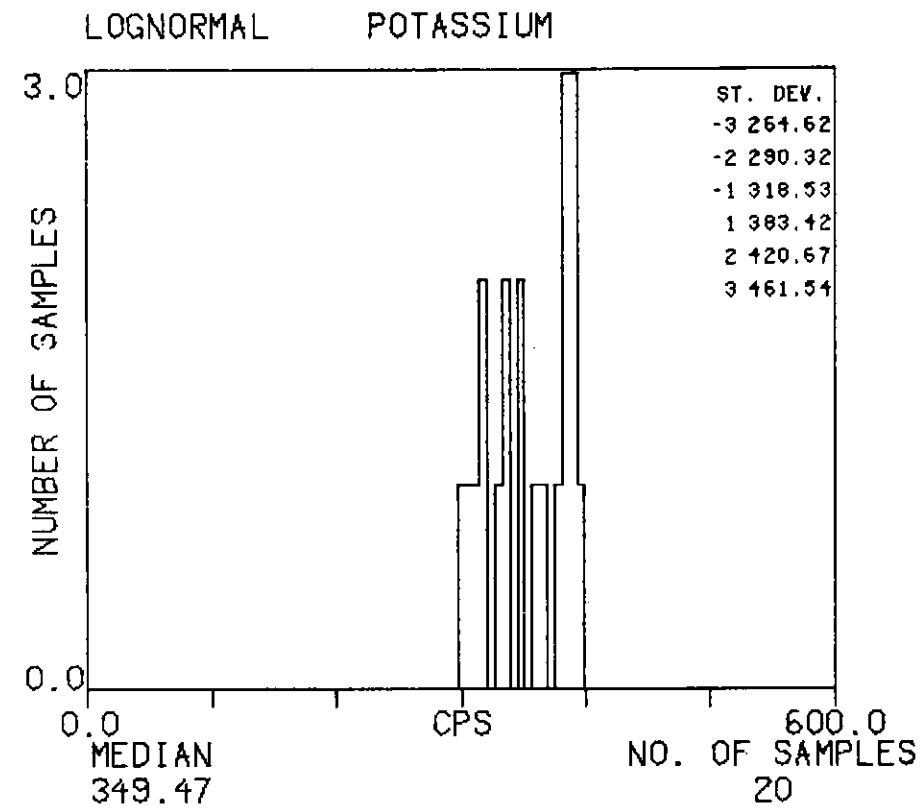
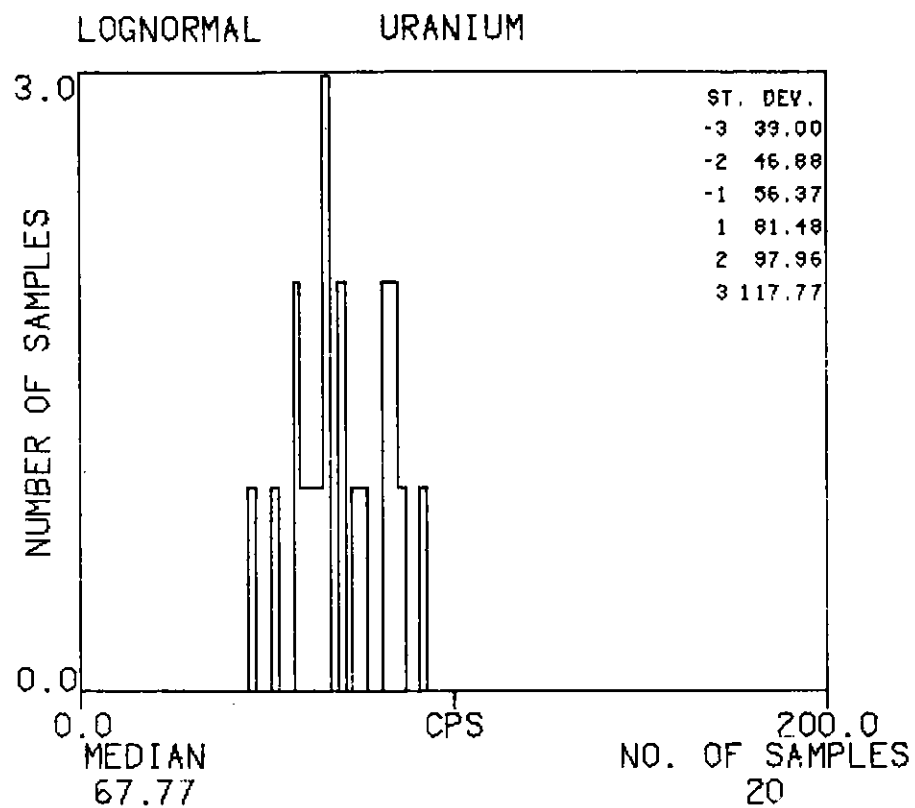
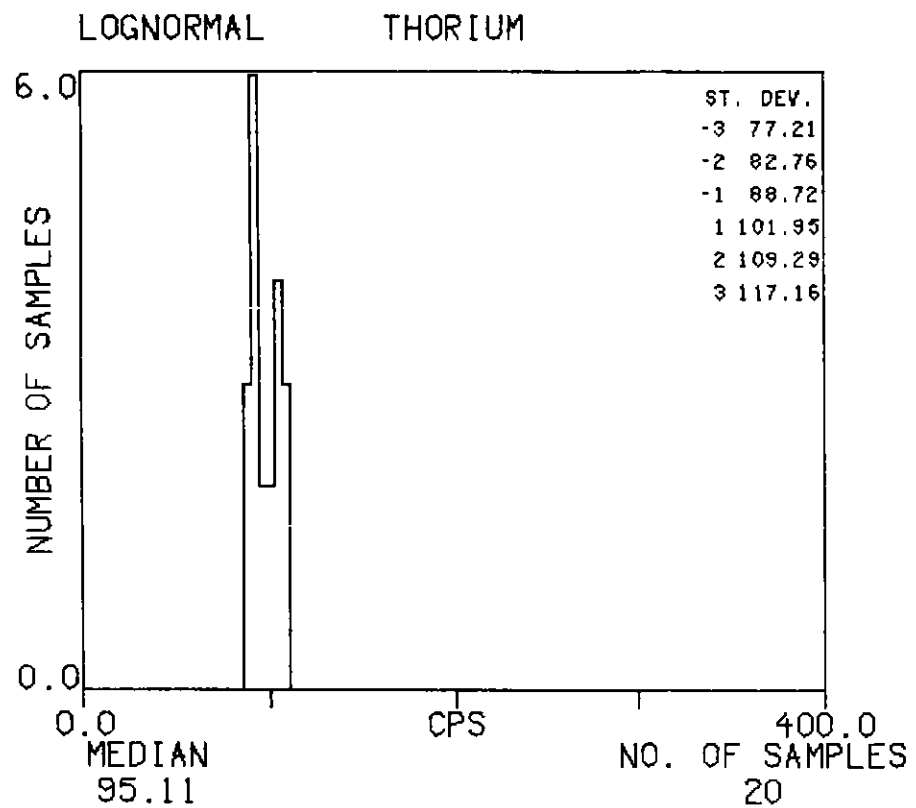
HISTOGRAMS : TVL

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



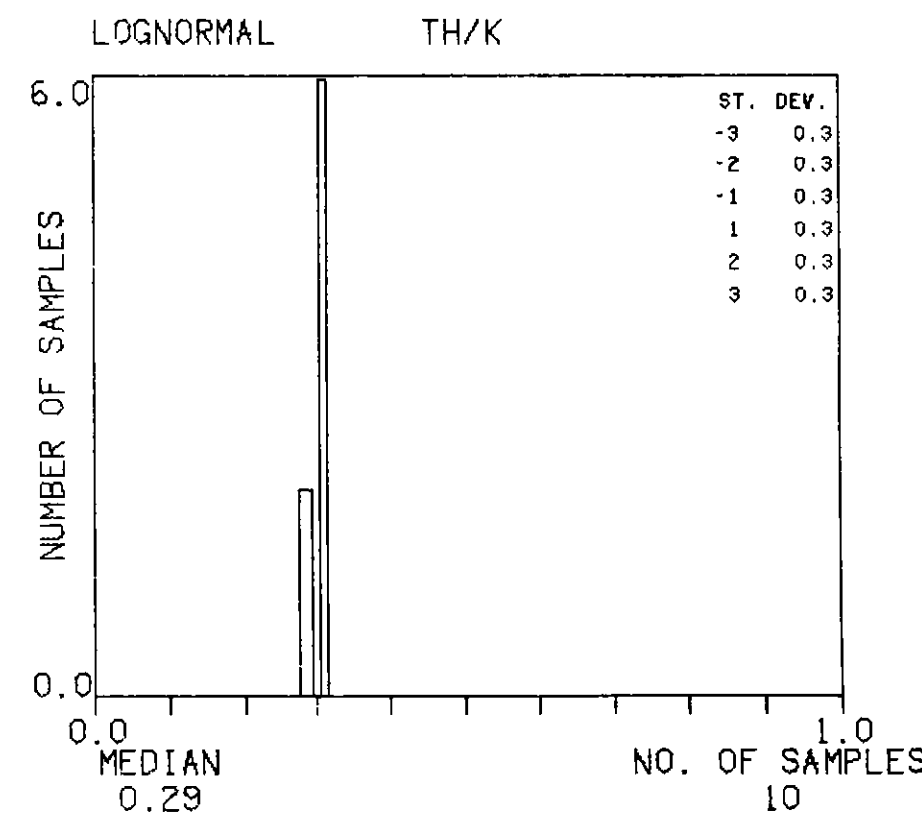
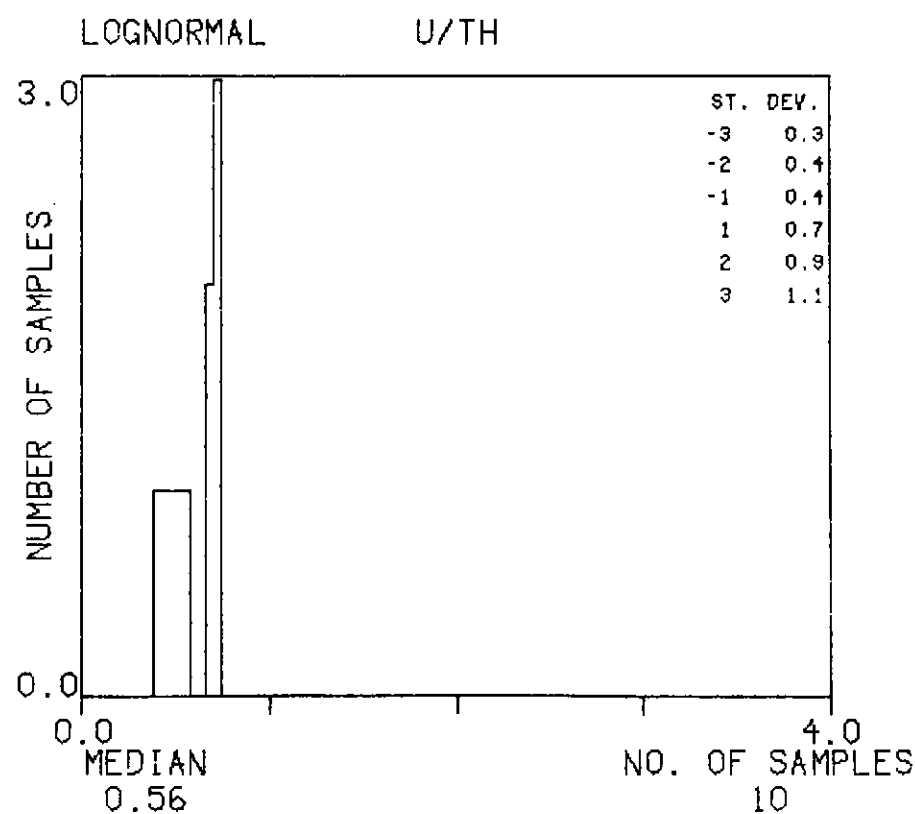
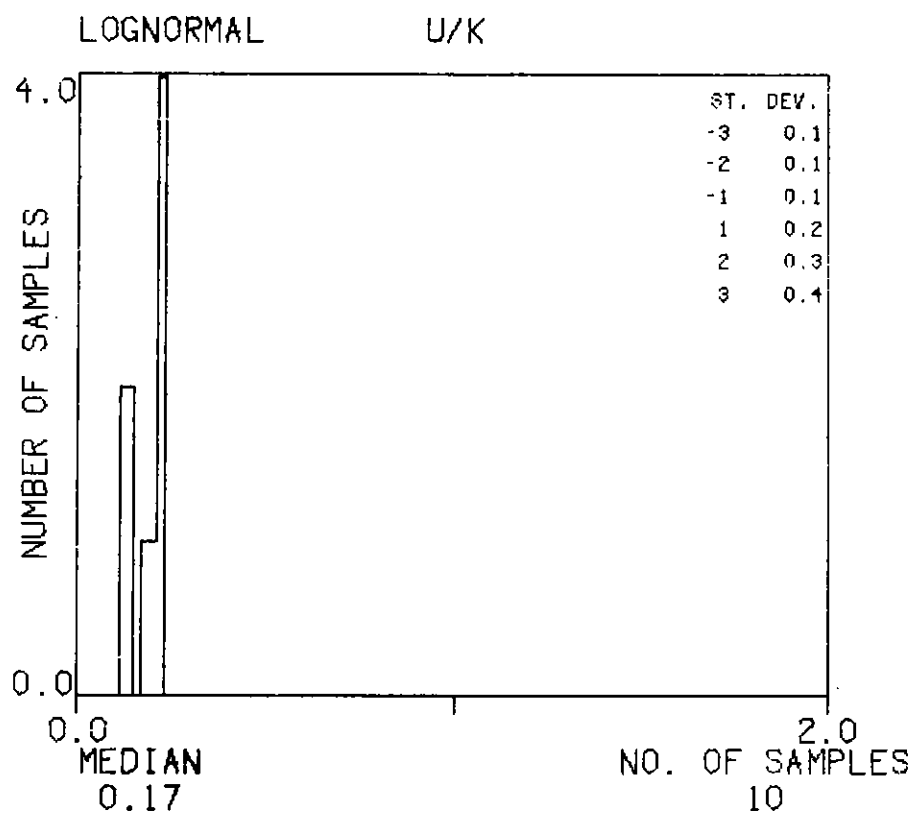
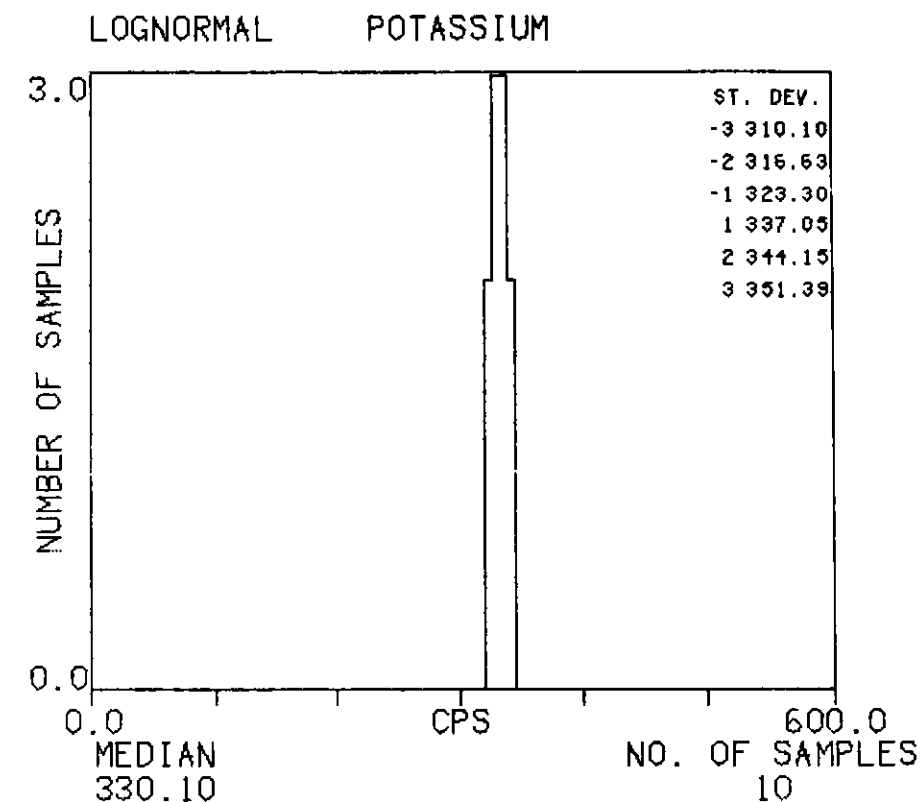
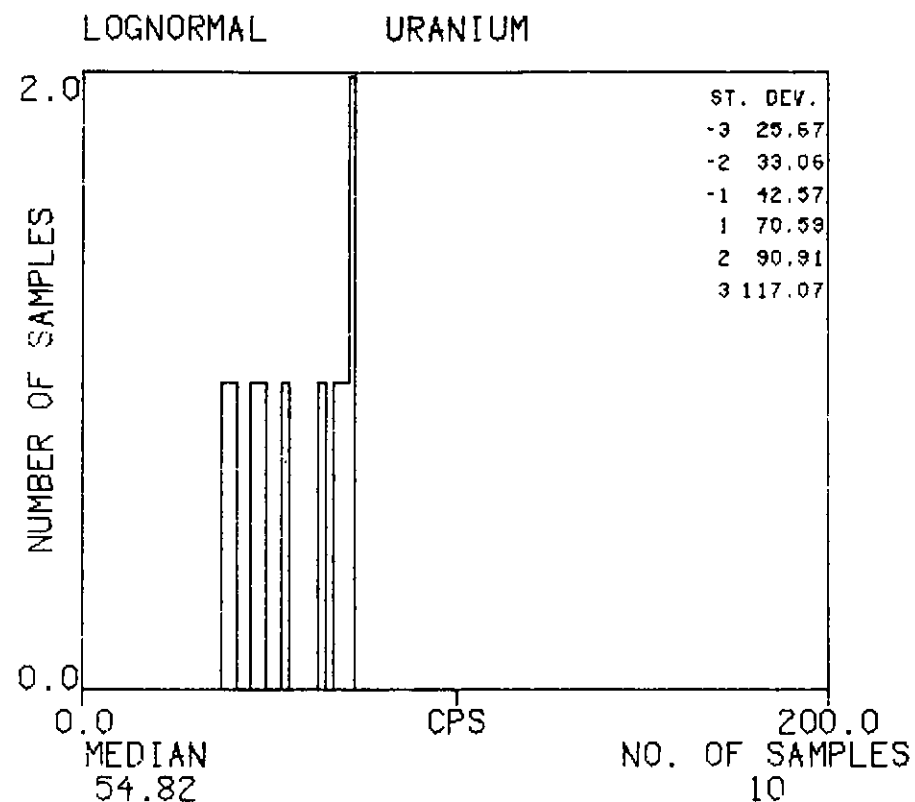
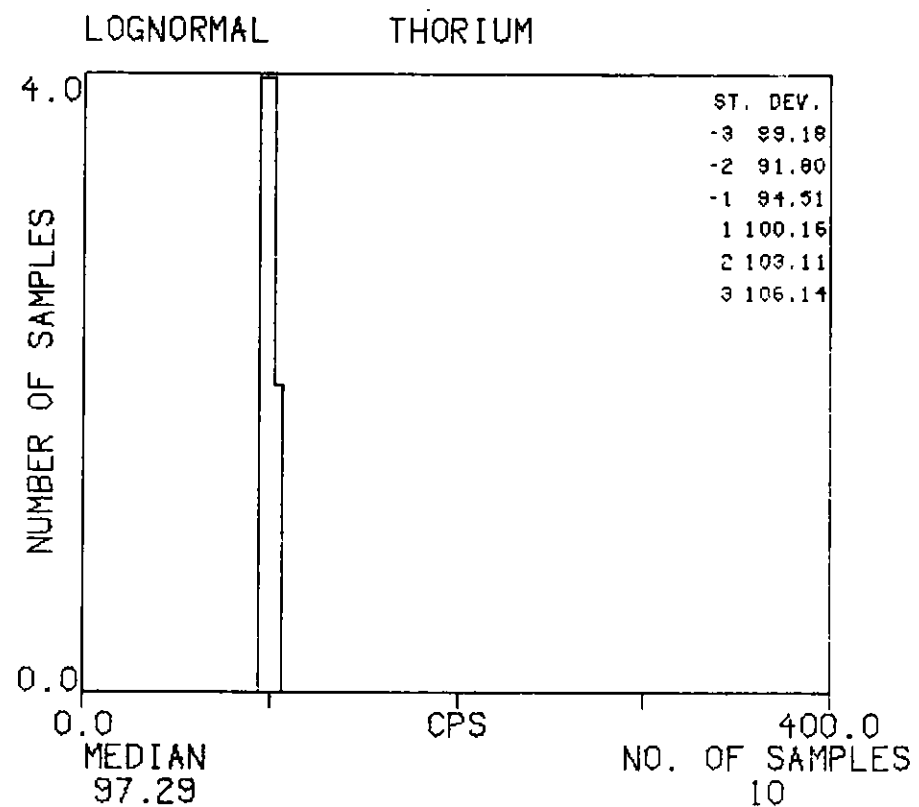
HISTOGRAMS : TRB

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



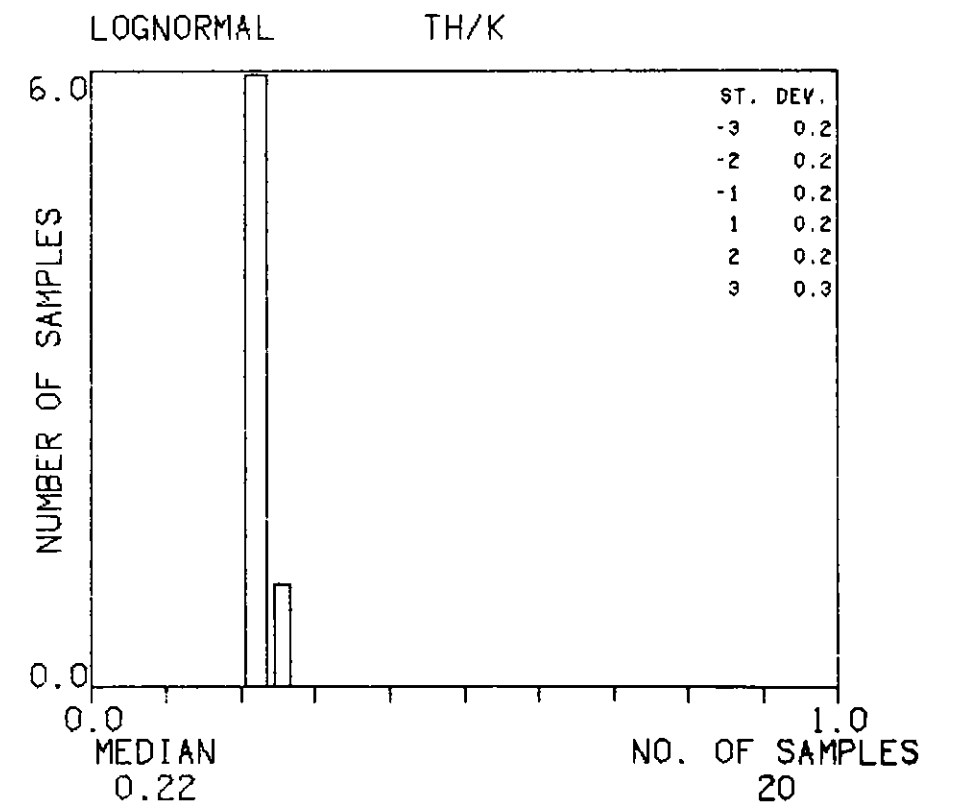
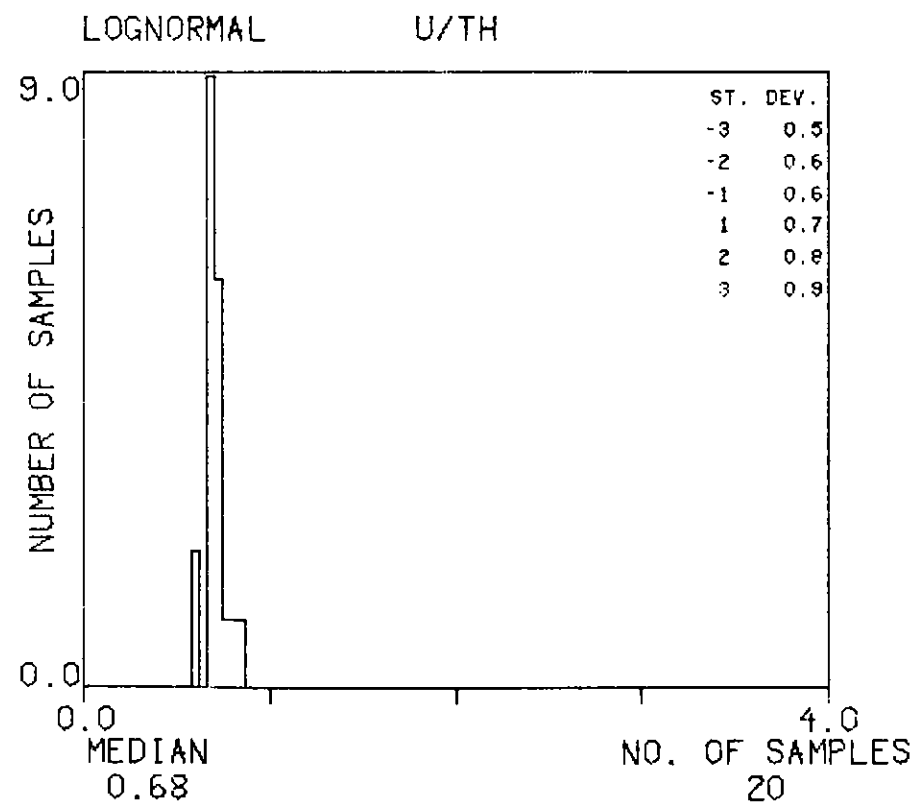
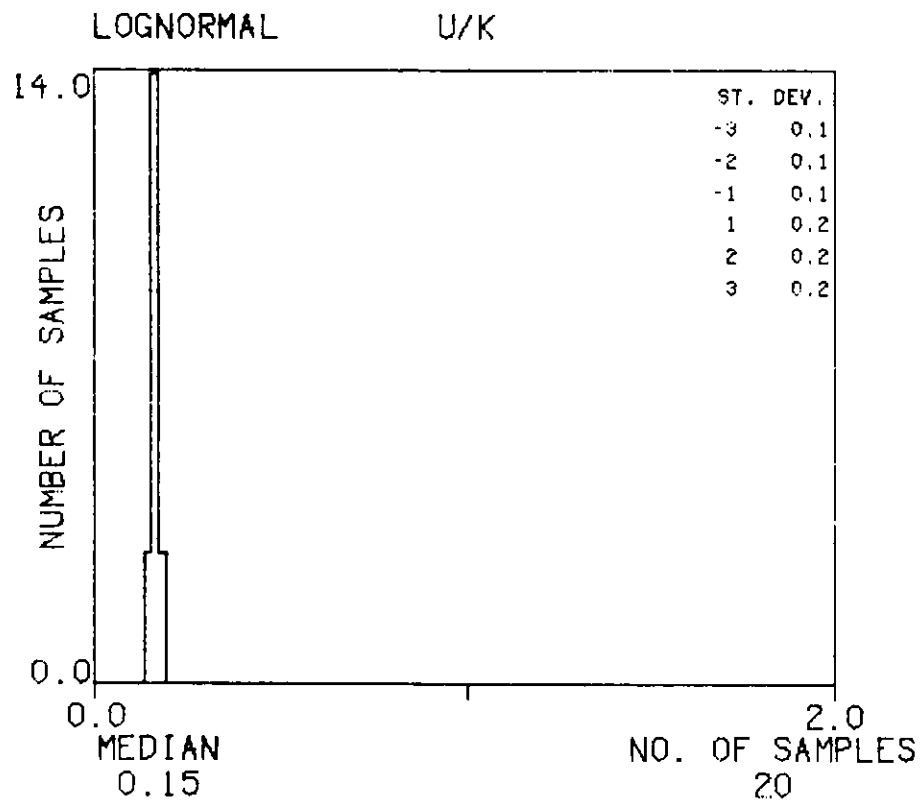
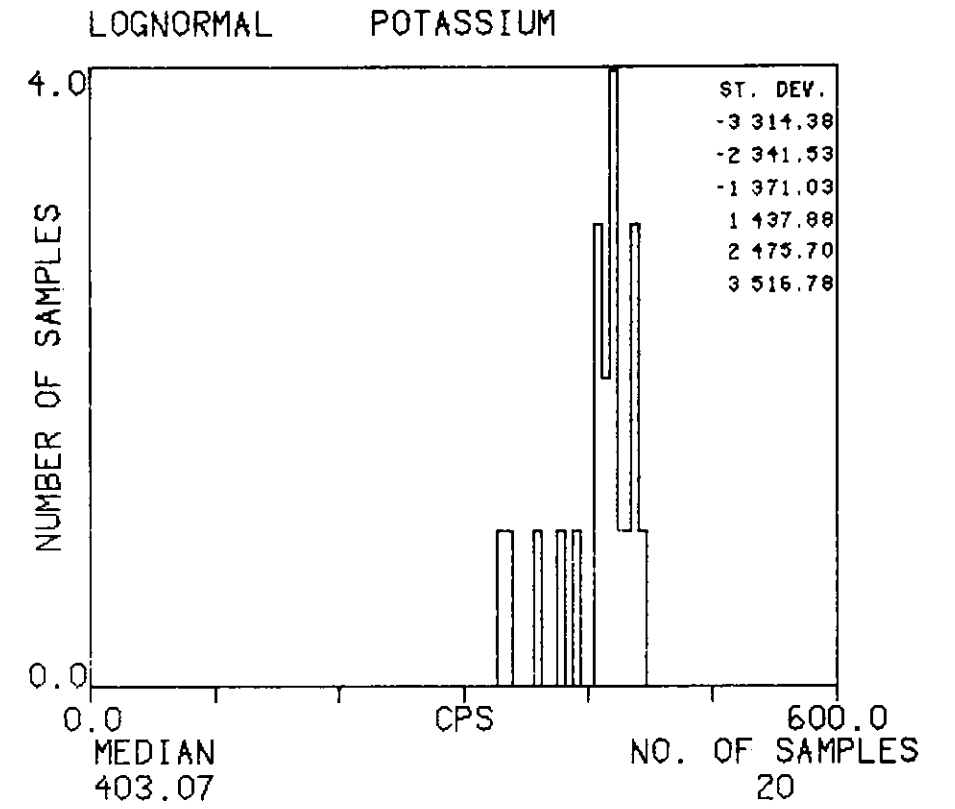
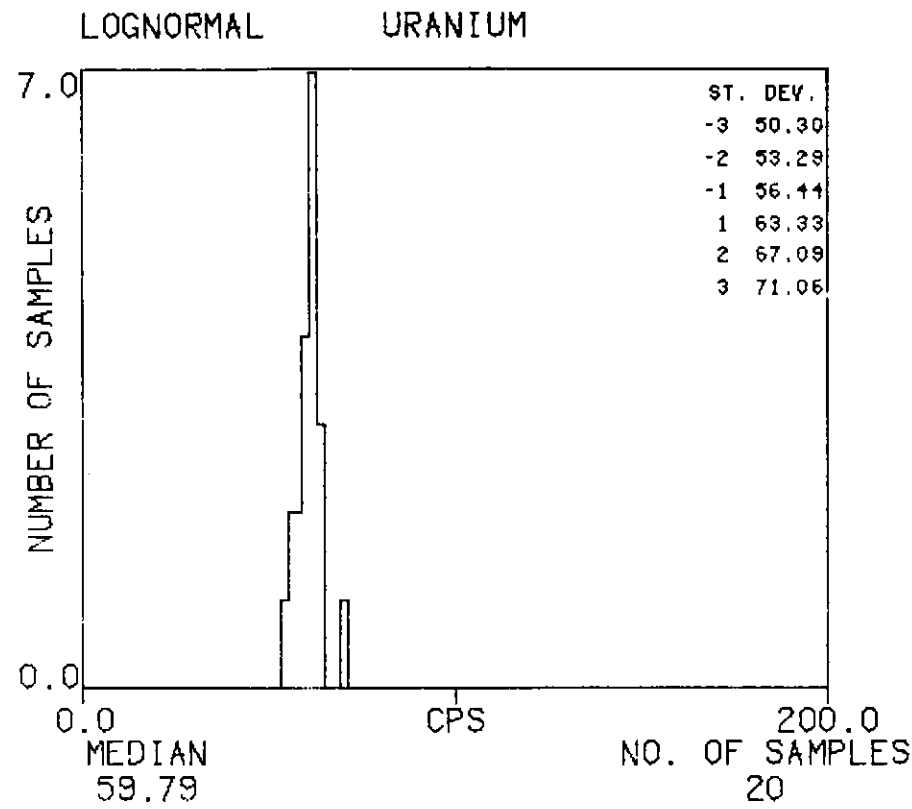
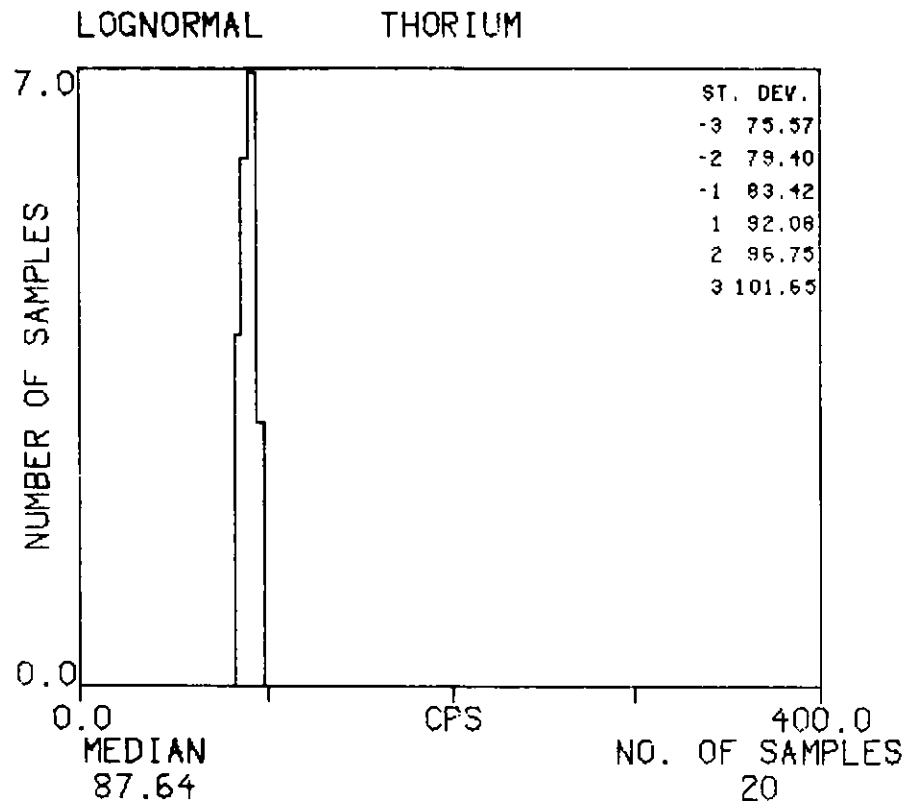
HISTOGRAMS : TNR

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



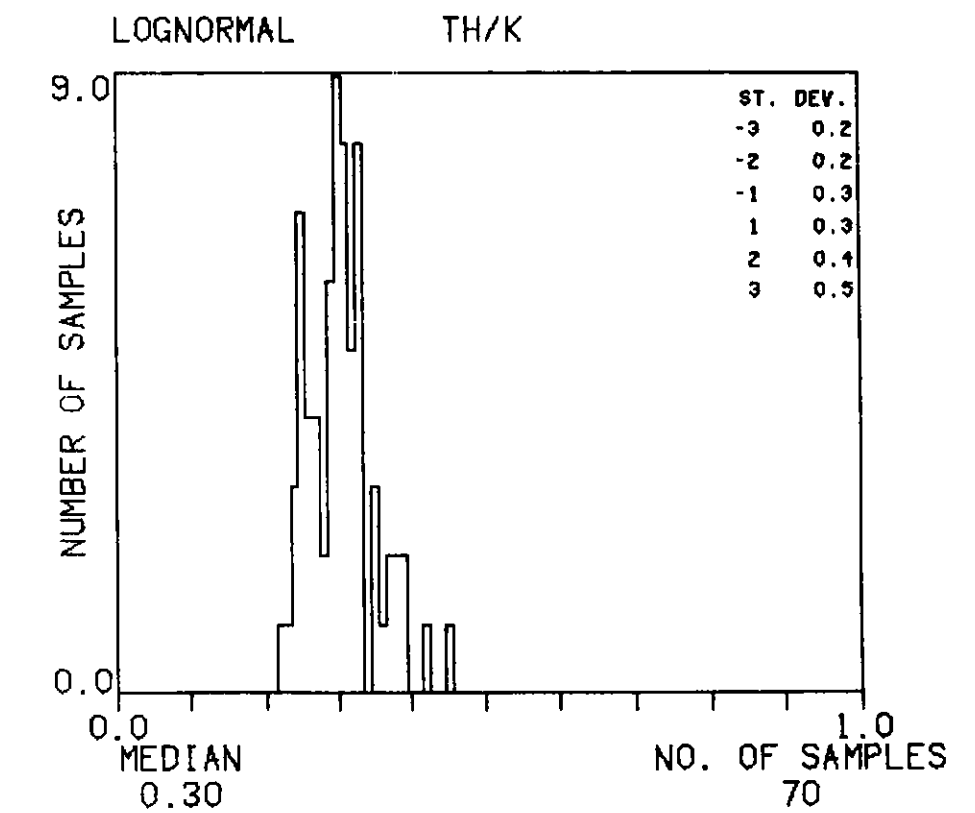
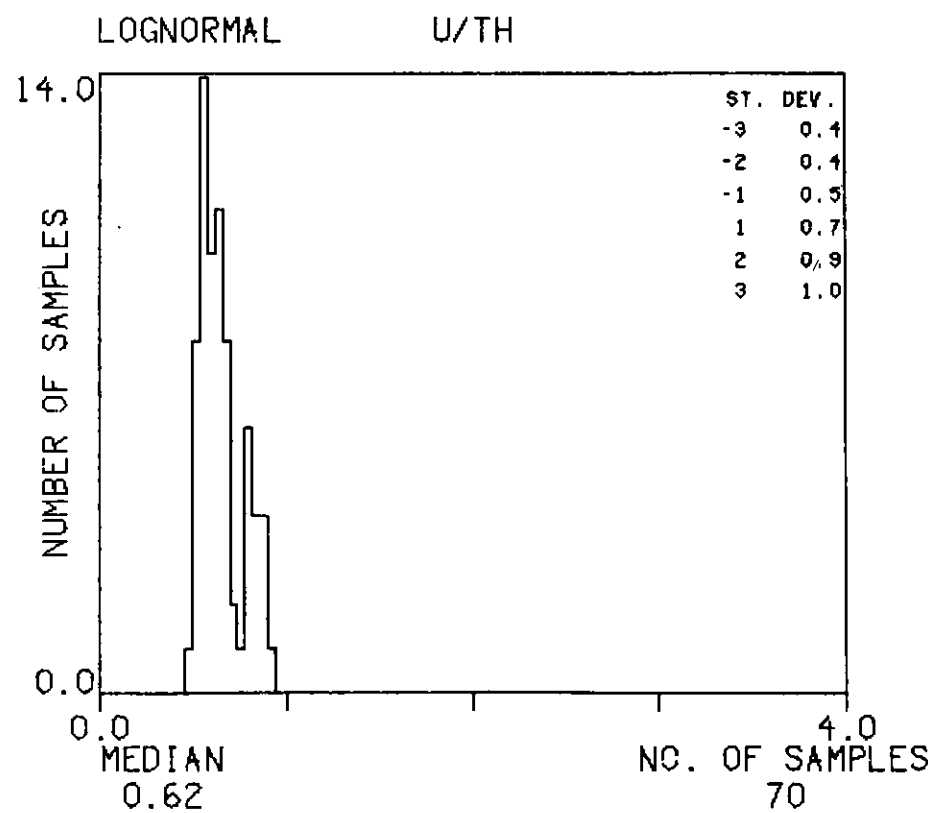
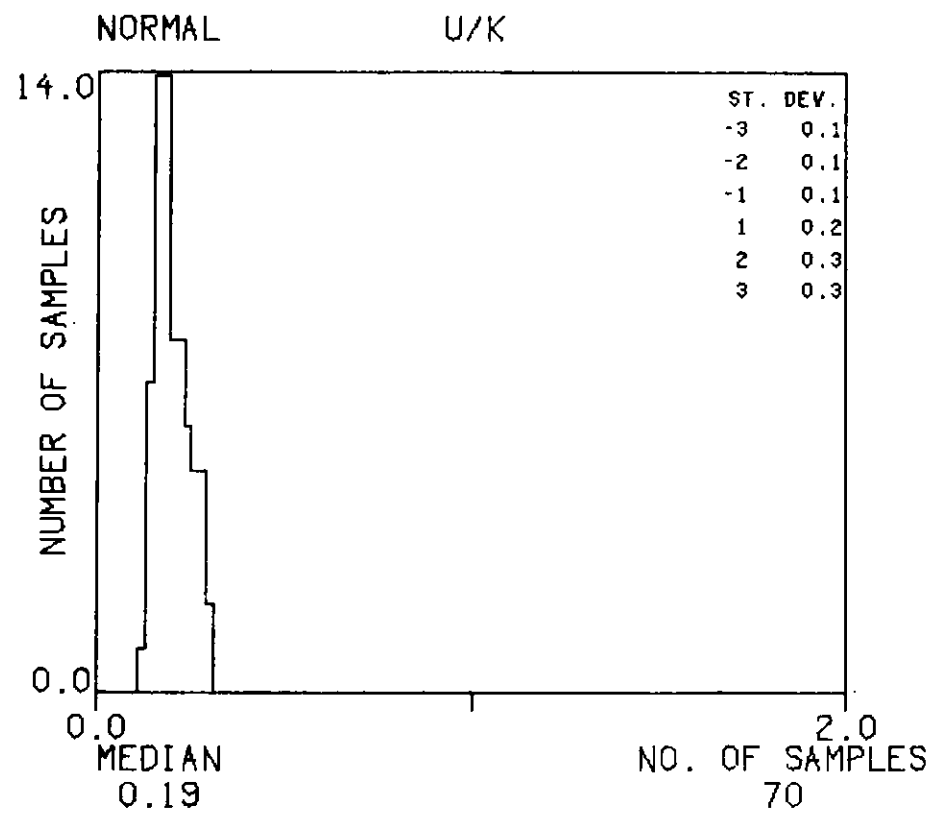
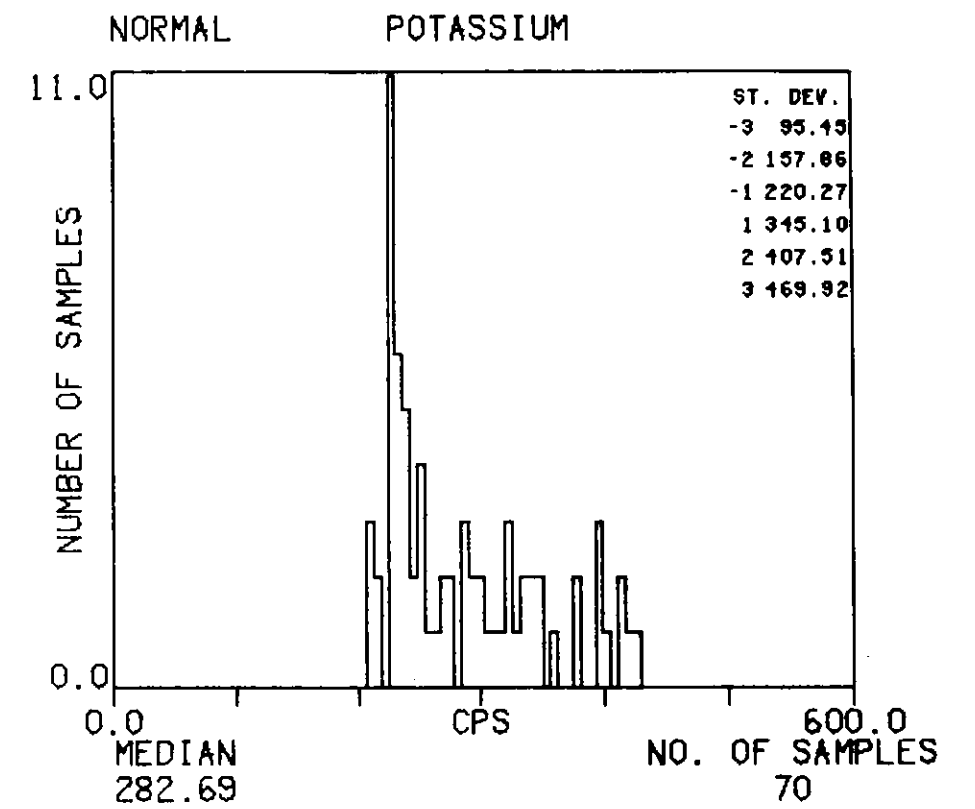
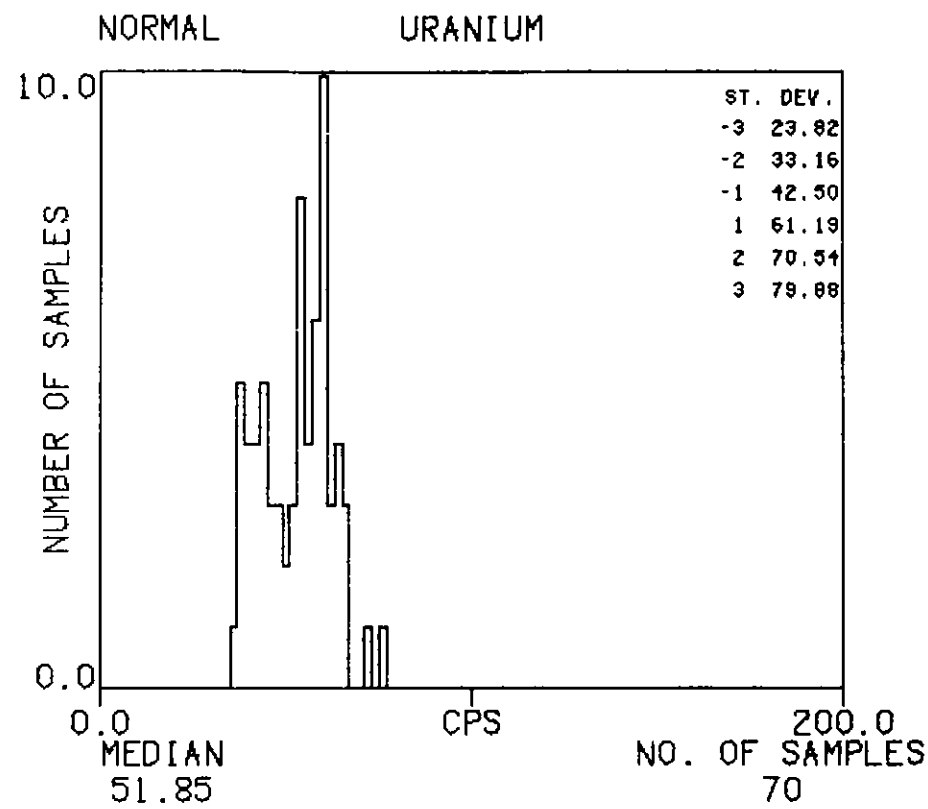
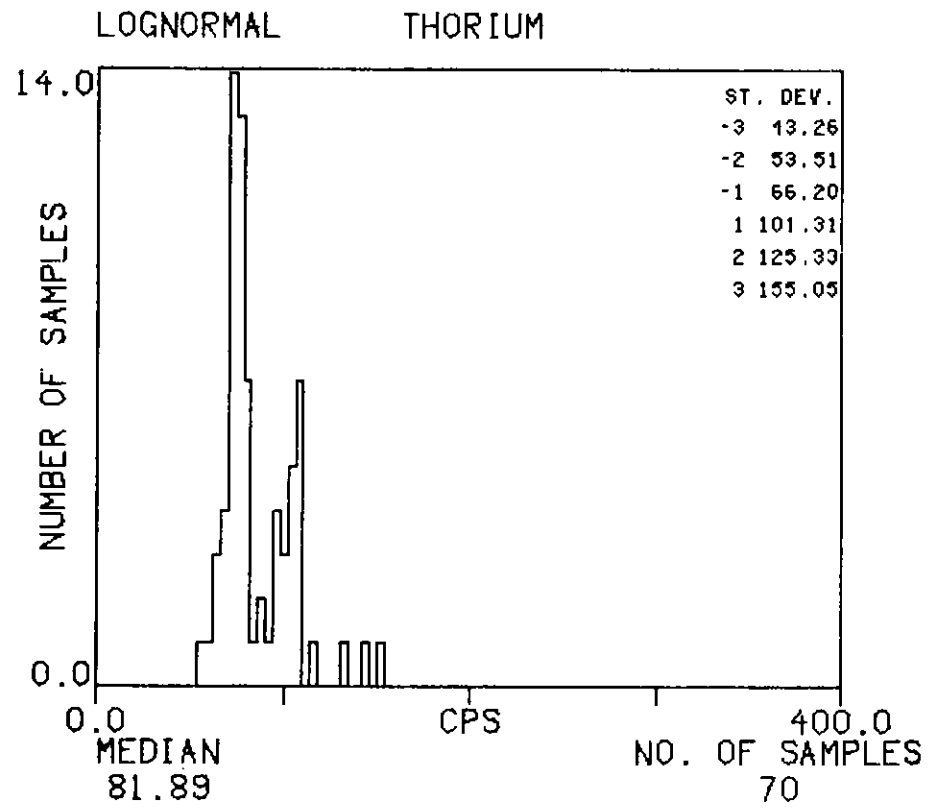
HISTOGRAMS : TPER

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



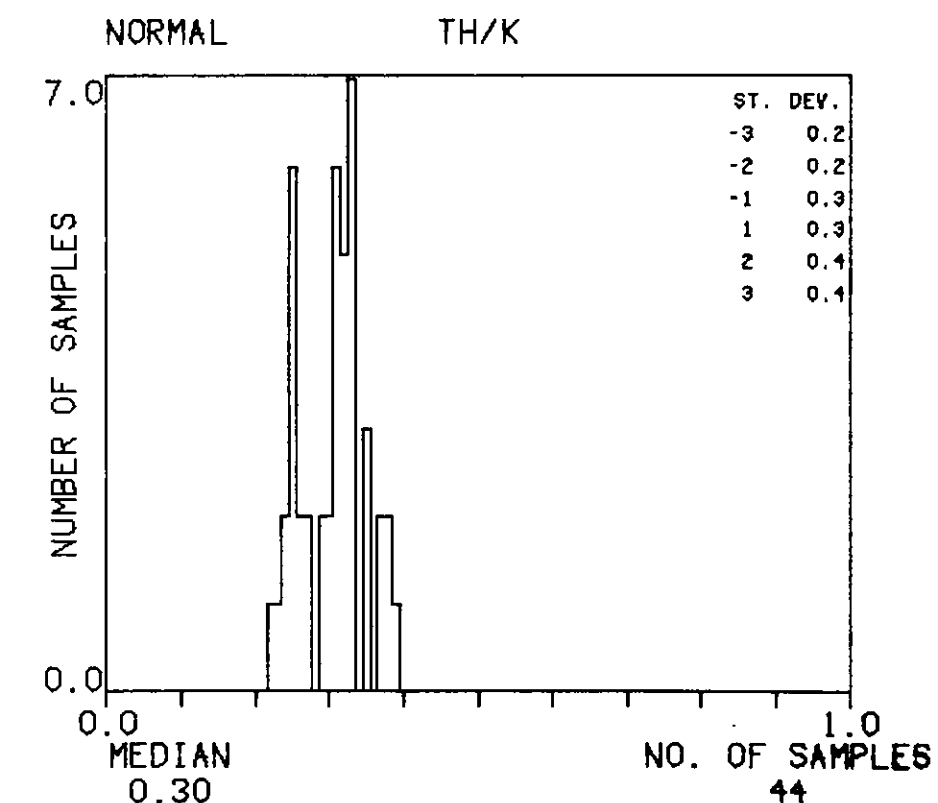
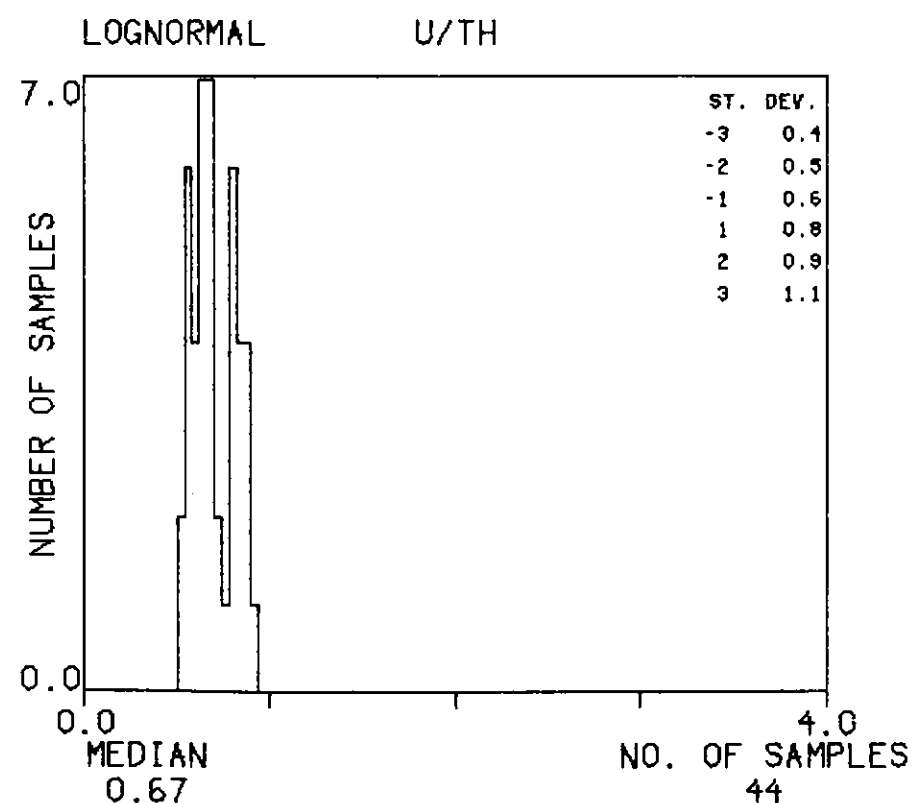
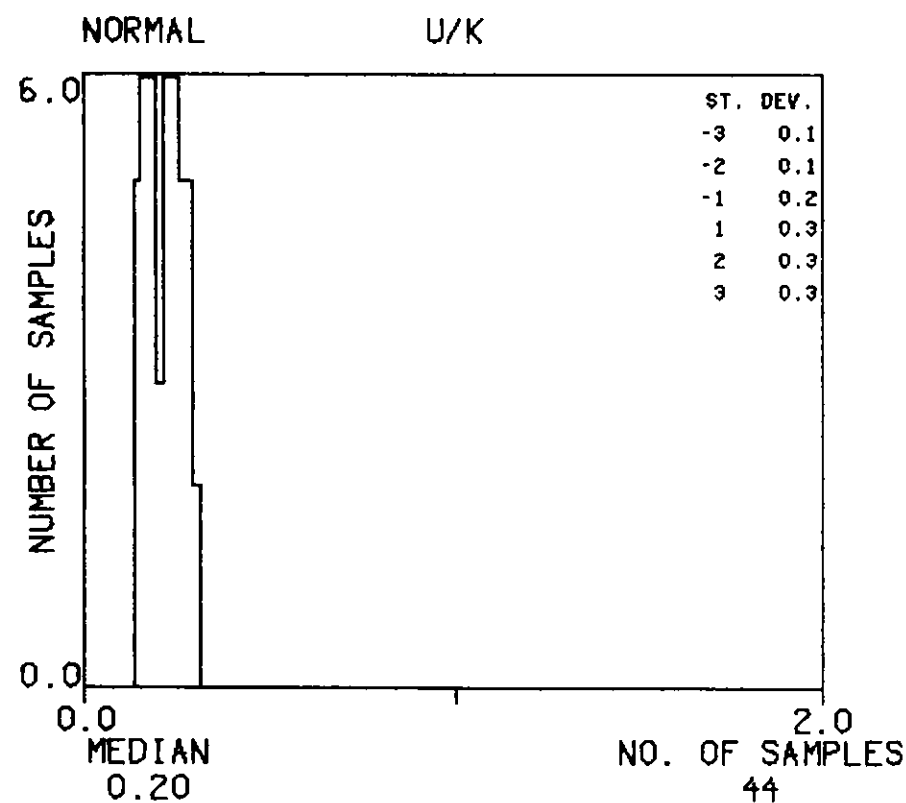
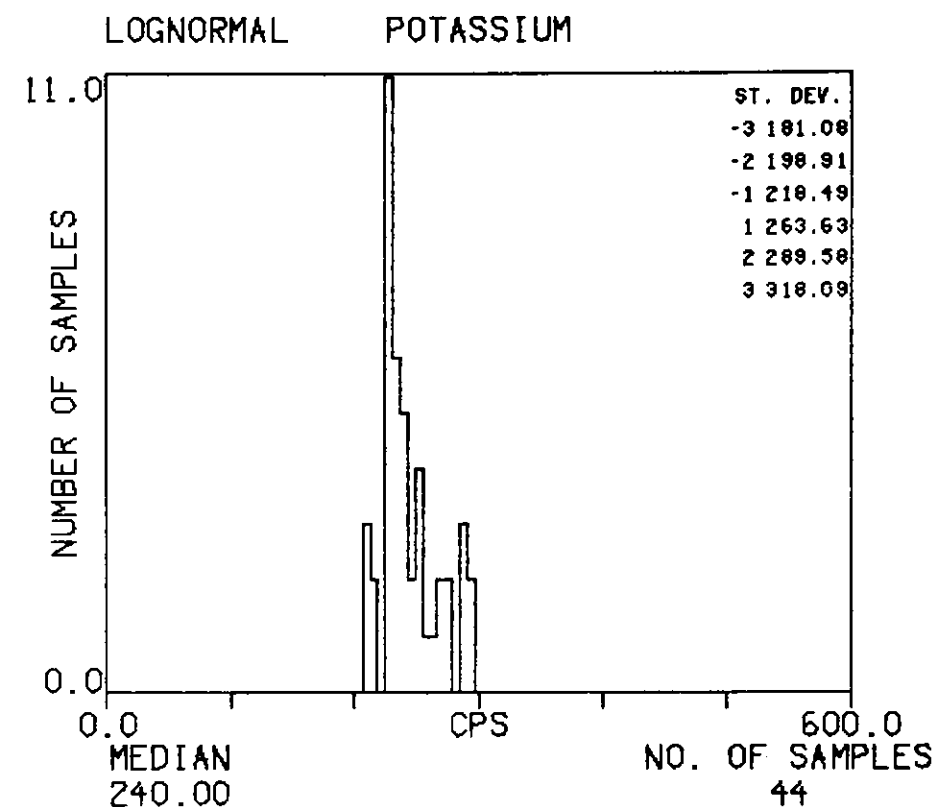
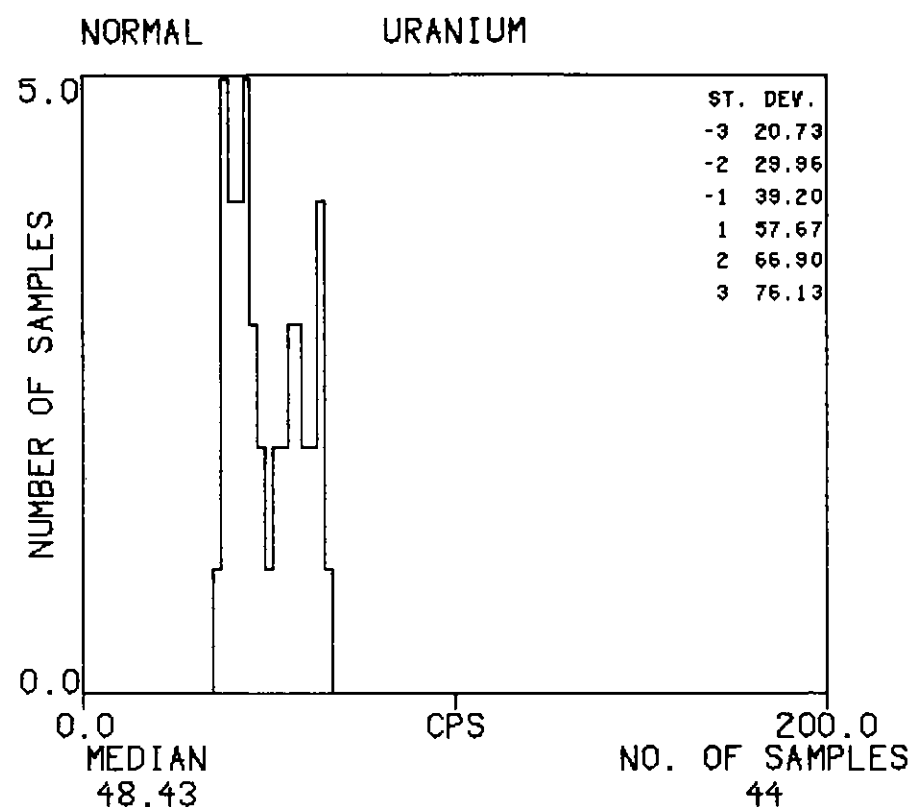
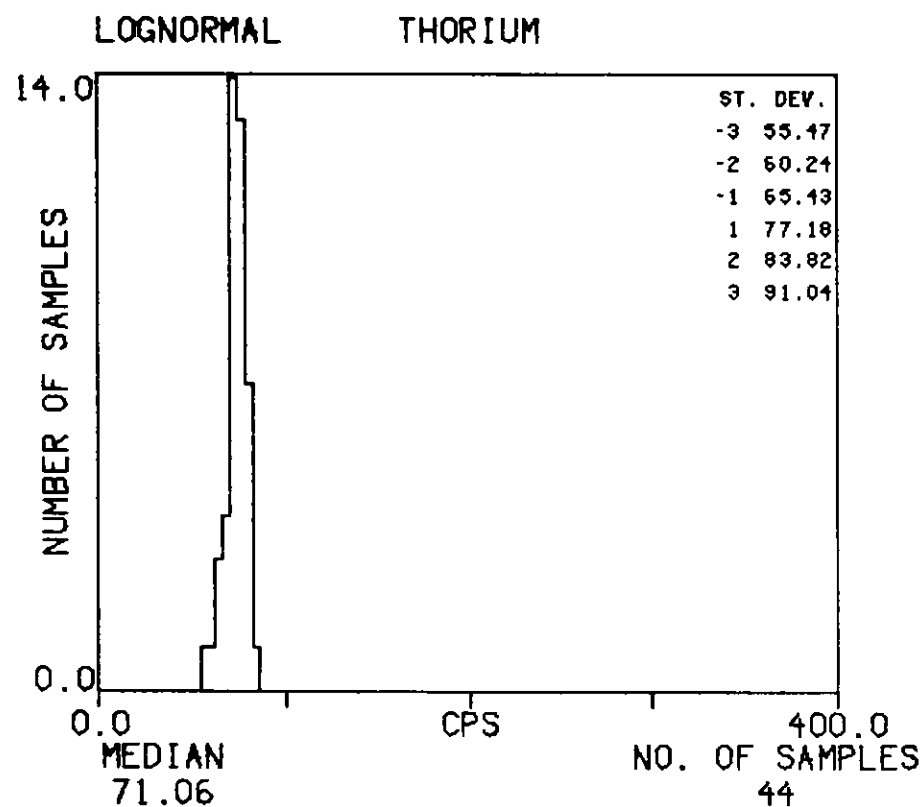
HISTOGRAMS : TWT

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



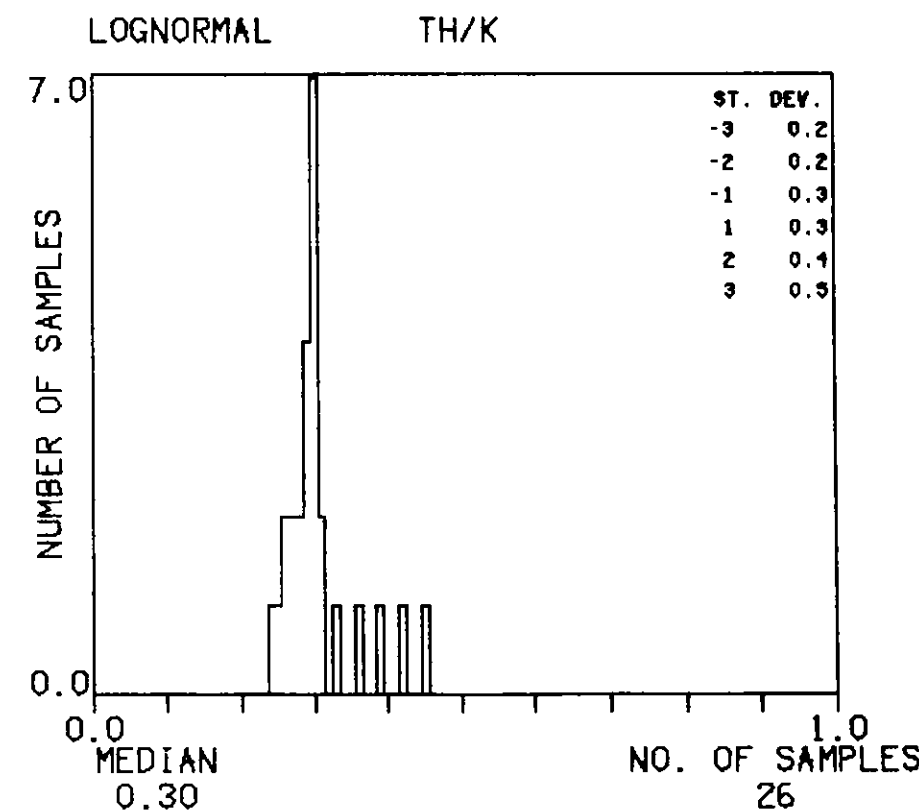
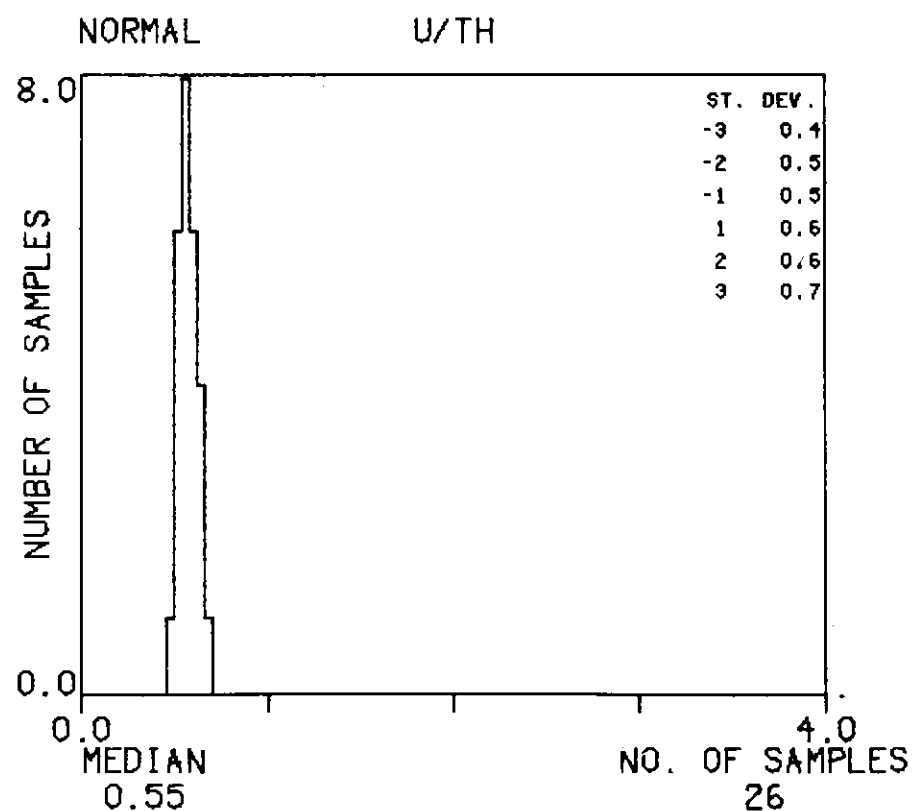
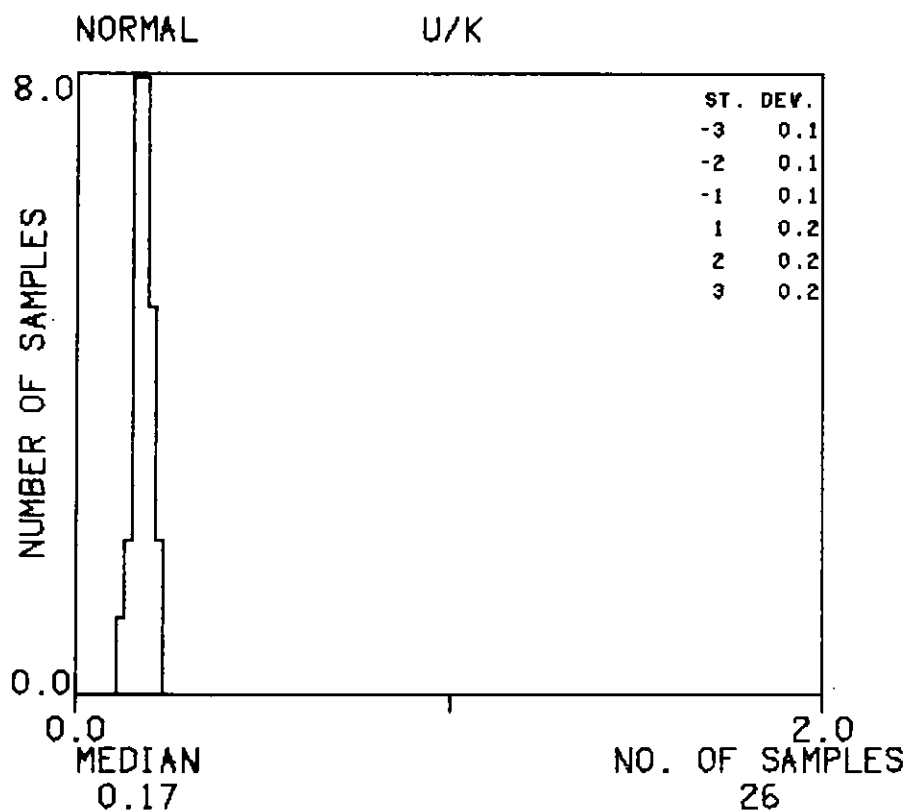
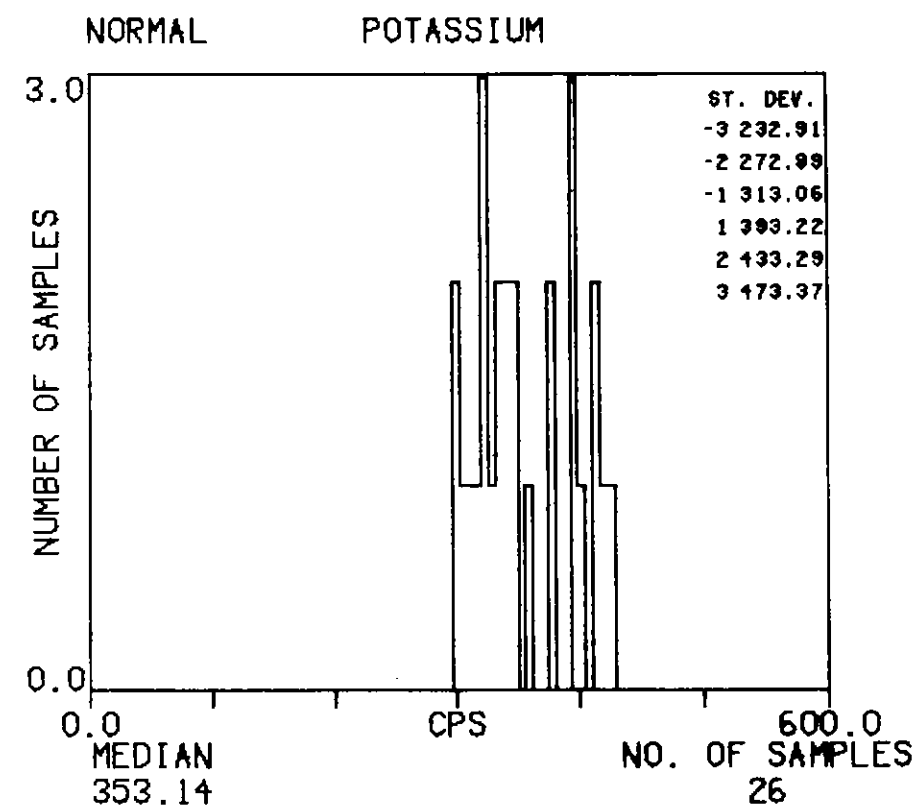
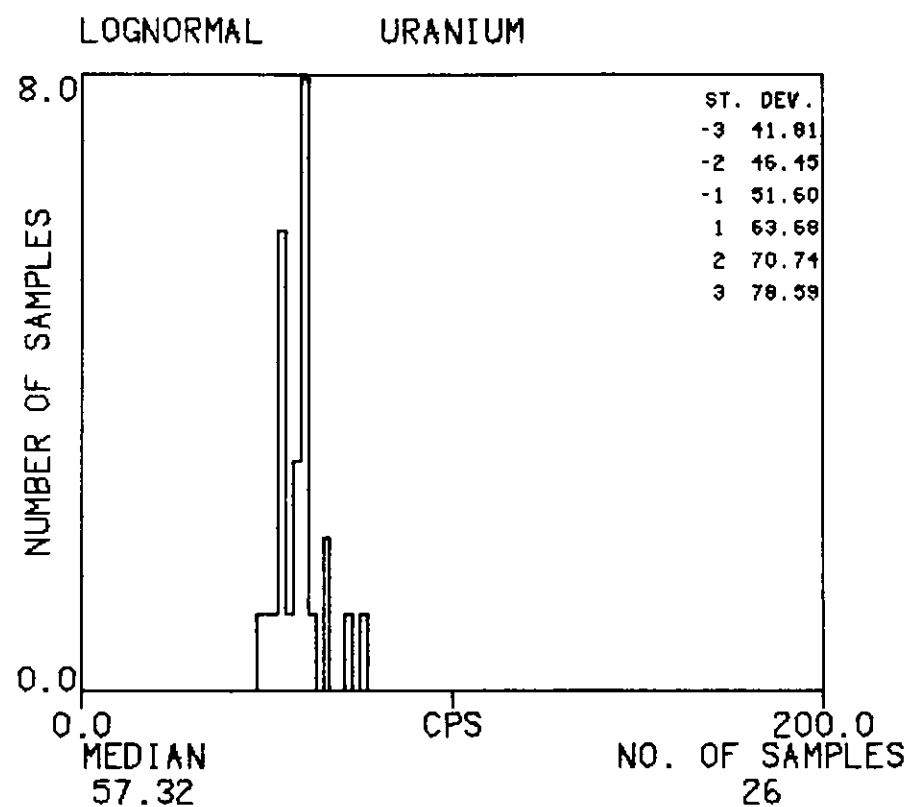
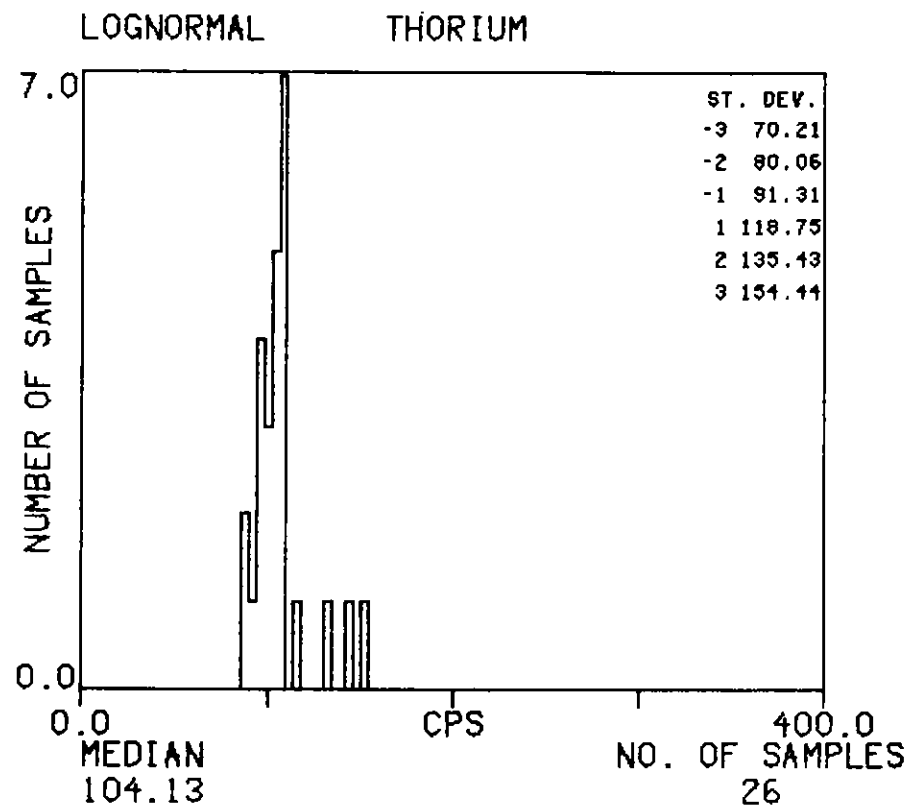
HISTOGRAMS : TWT-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



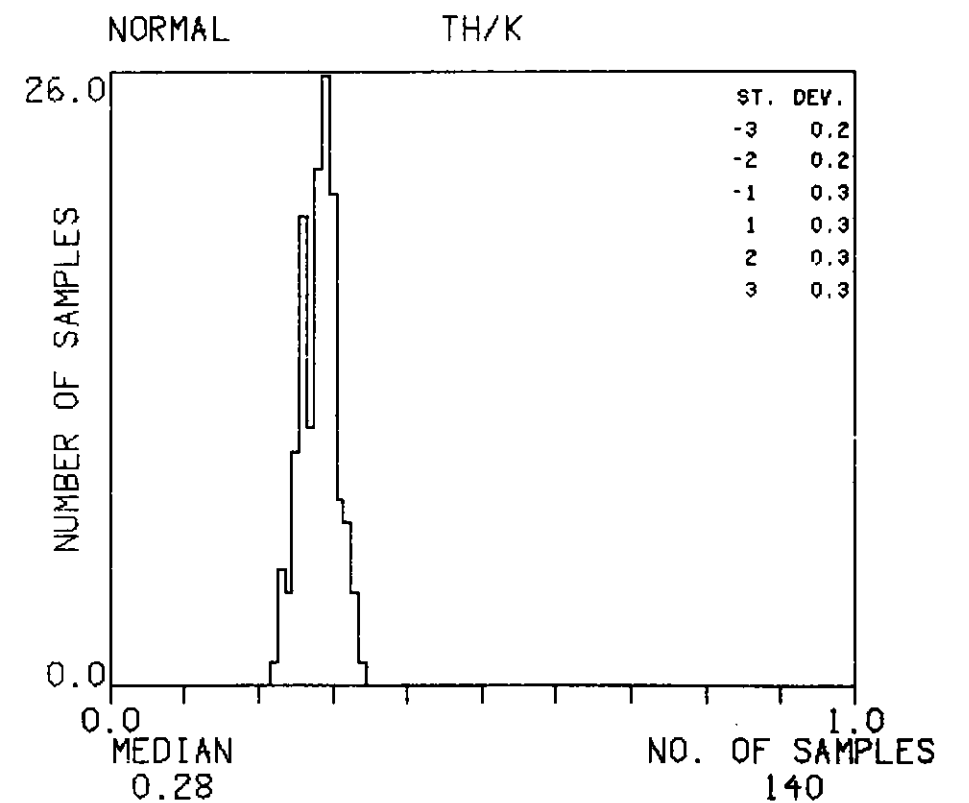
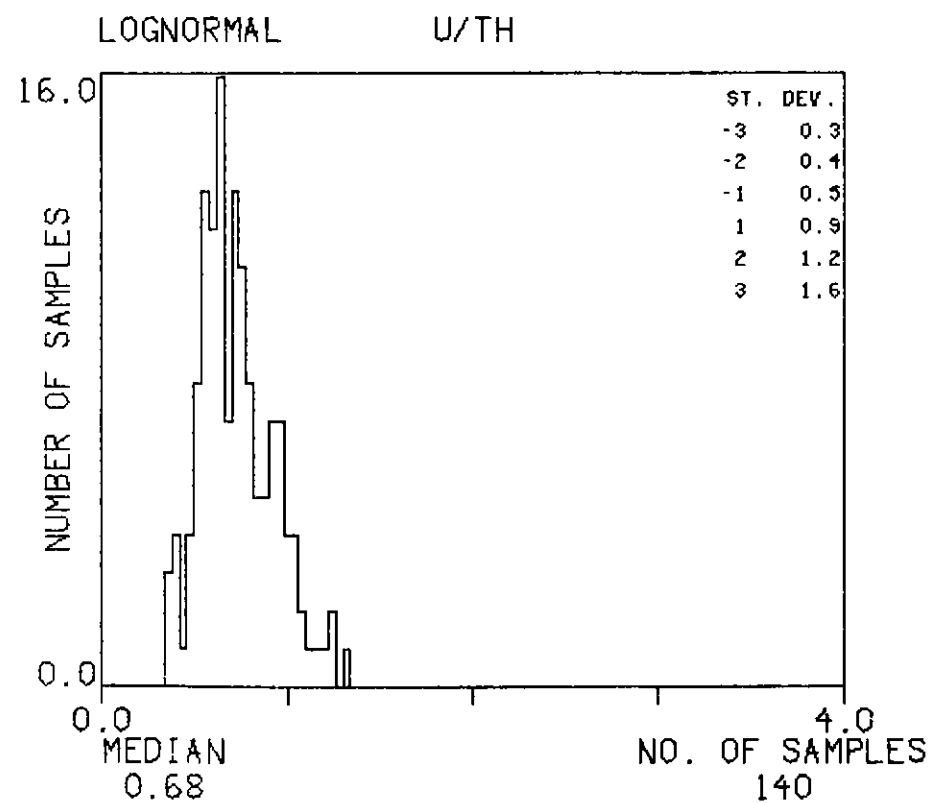
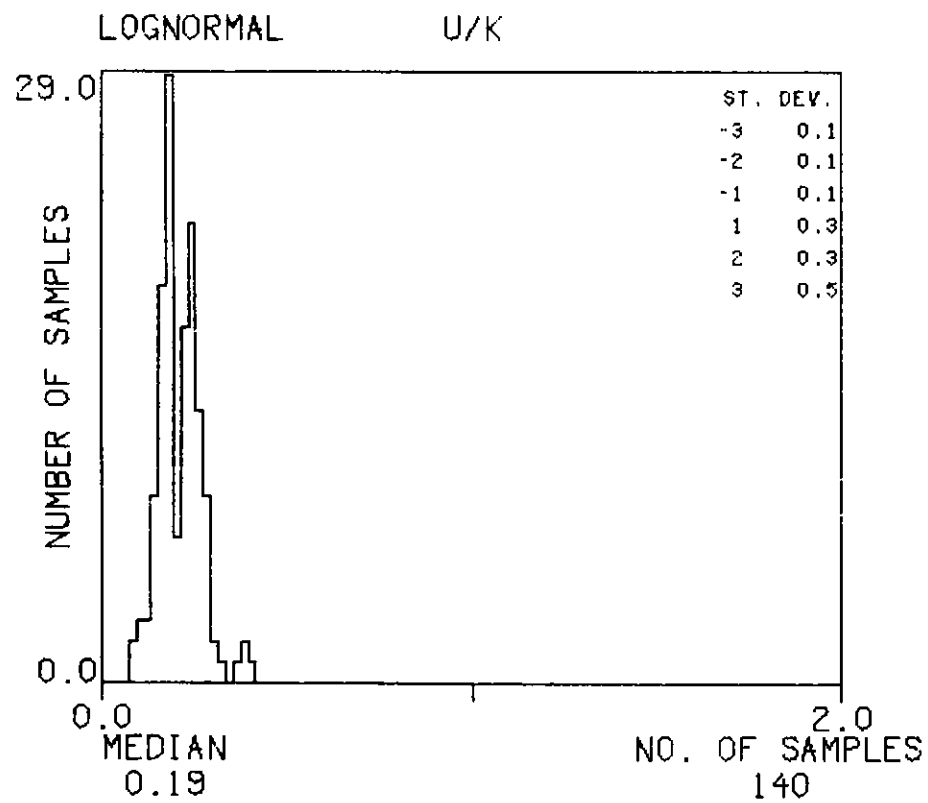
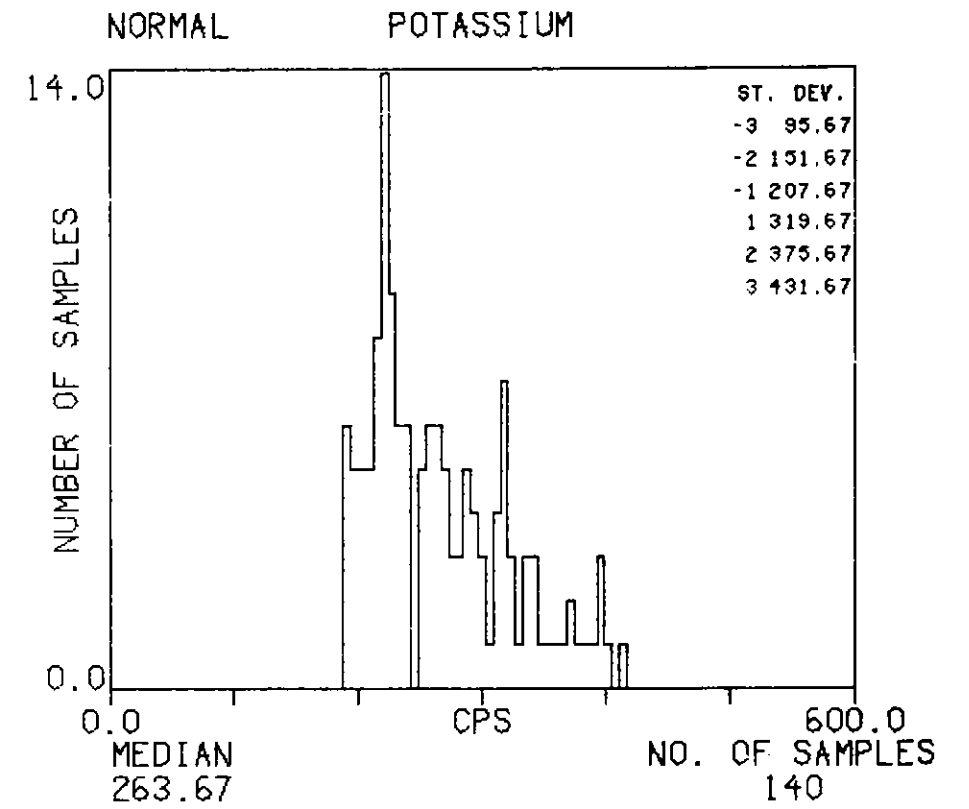
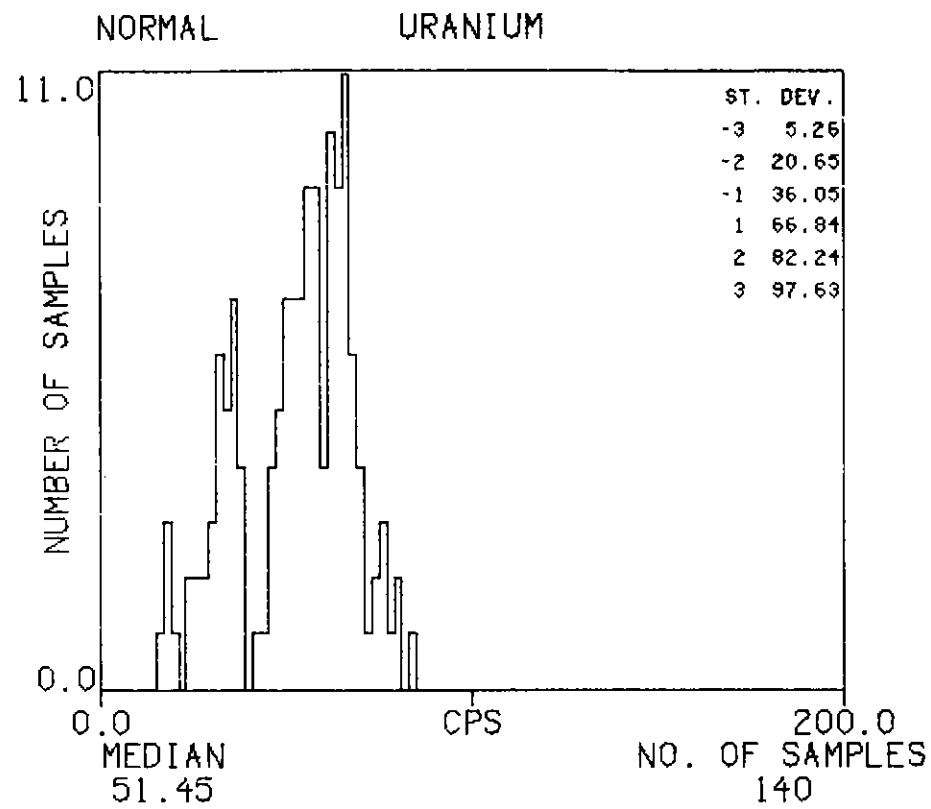
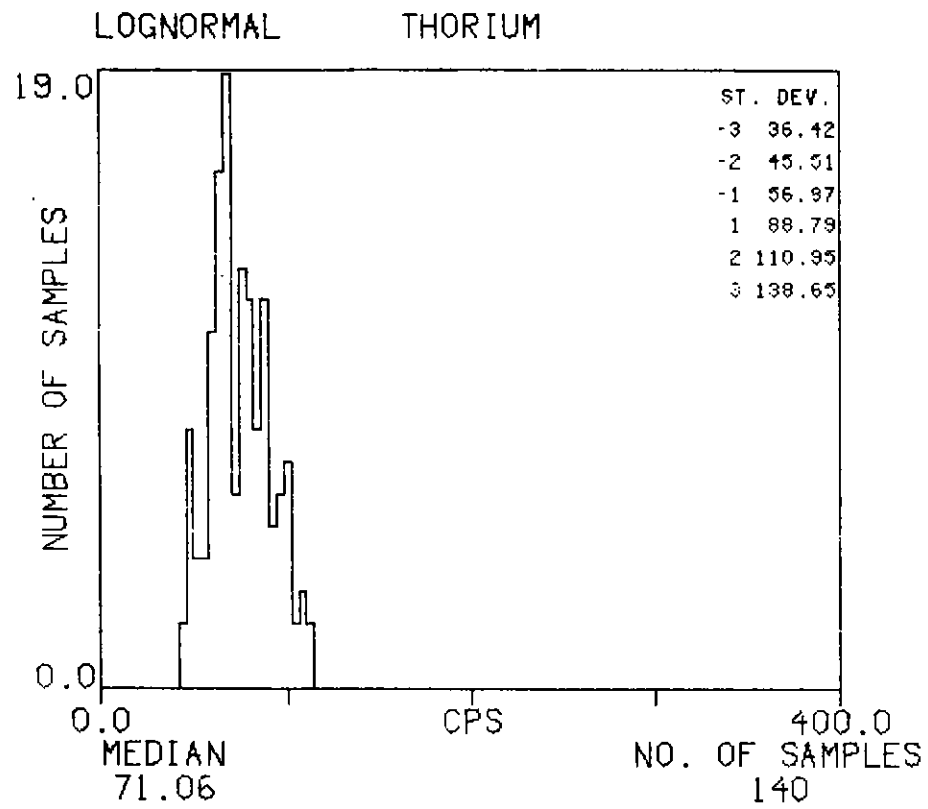
HISTOGRAMS : TWT-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



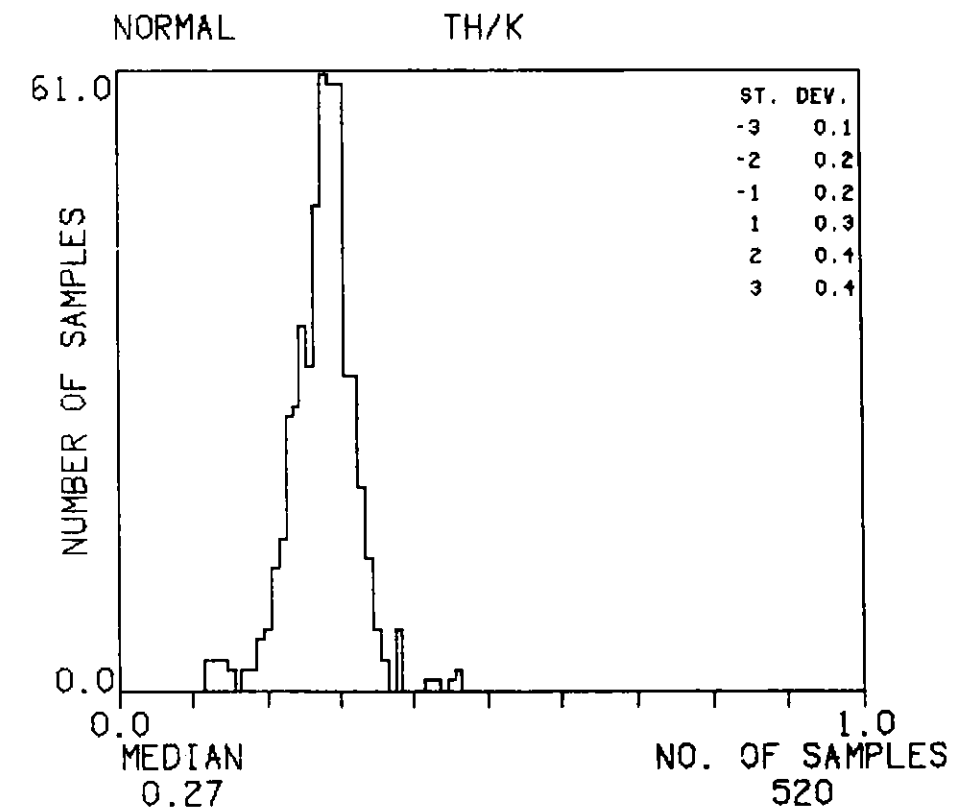
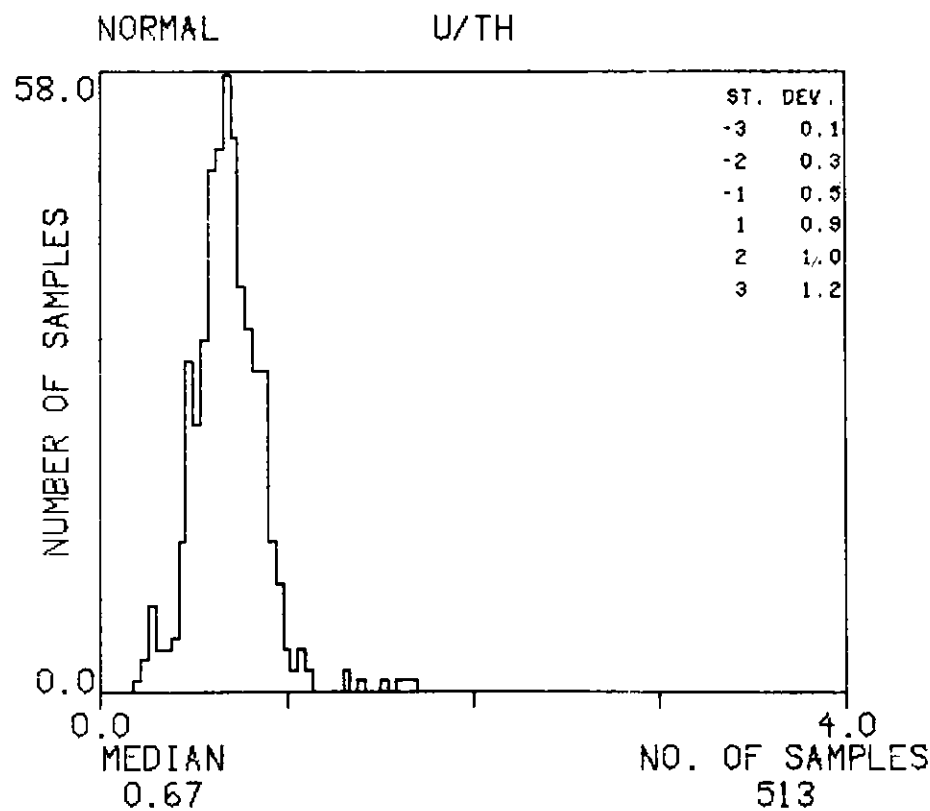
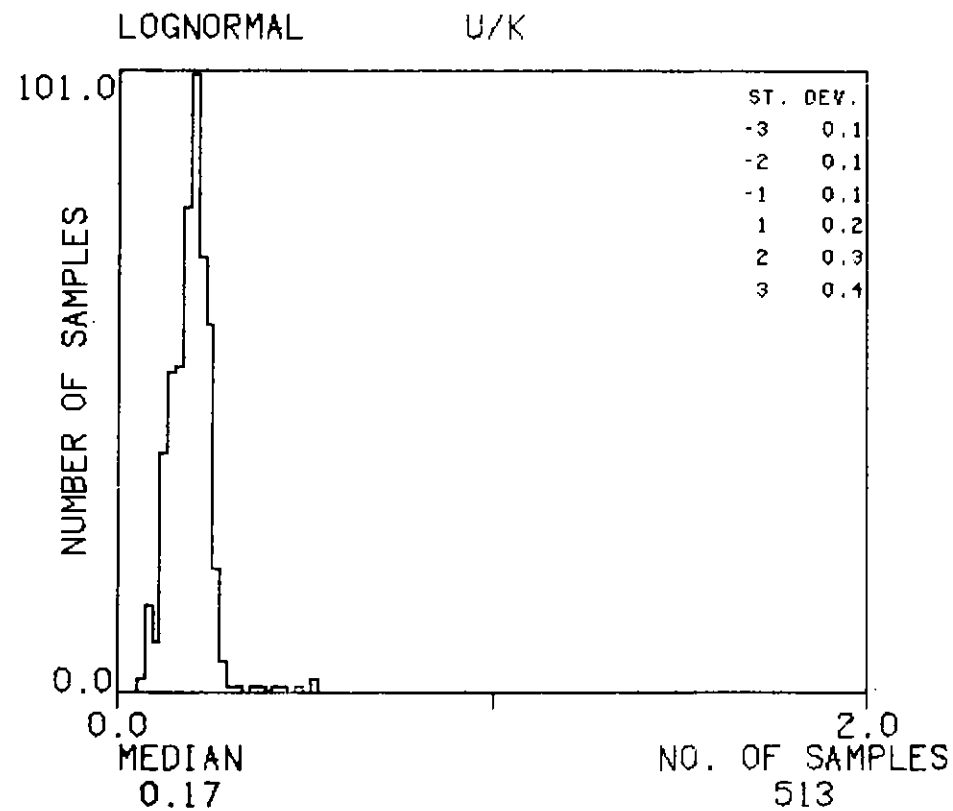
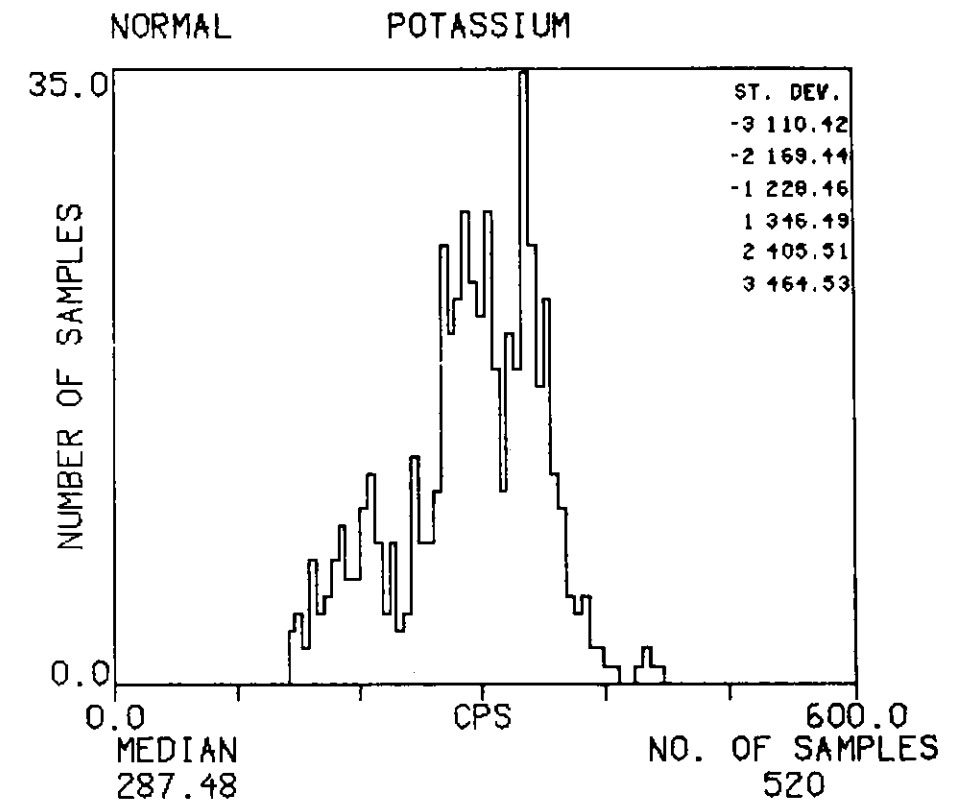
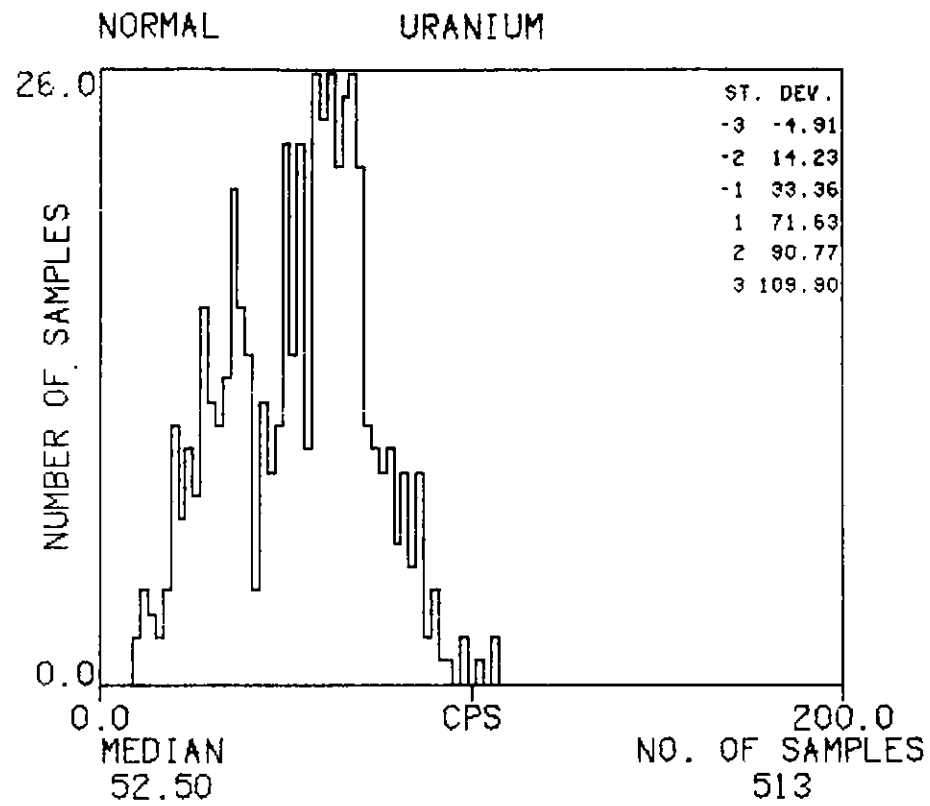
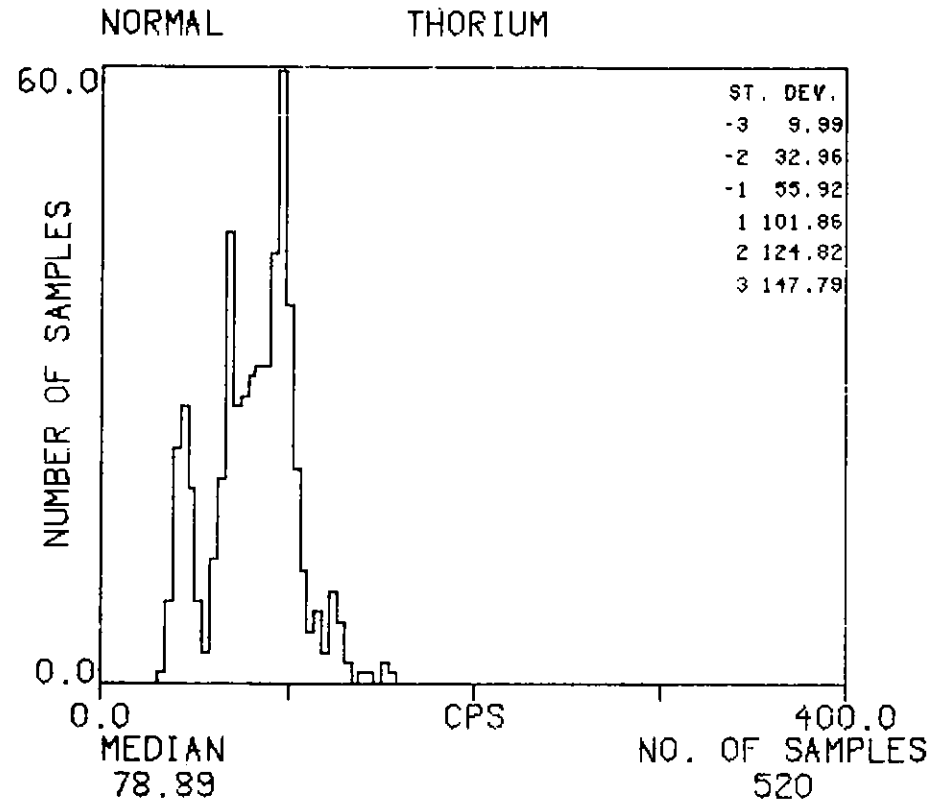
HISTOGRAMS : TB

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



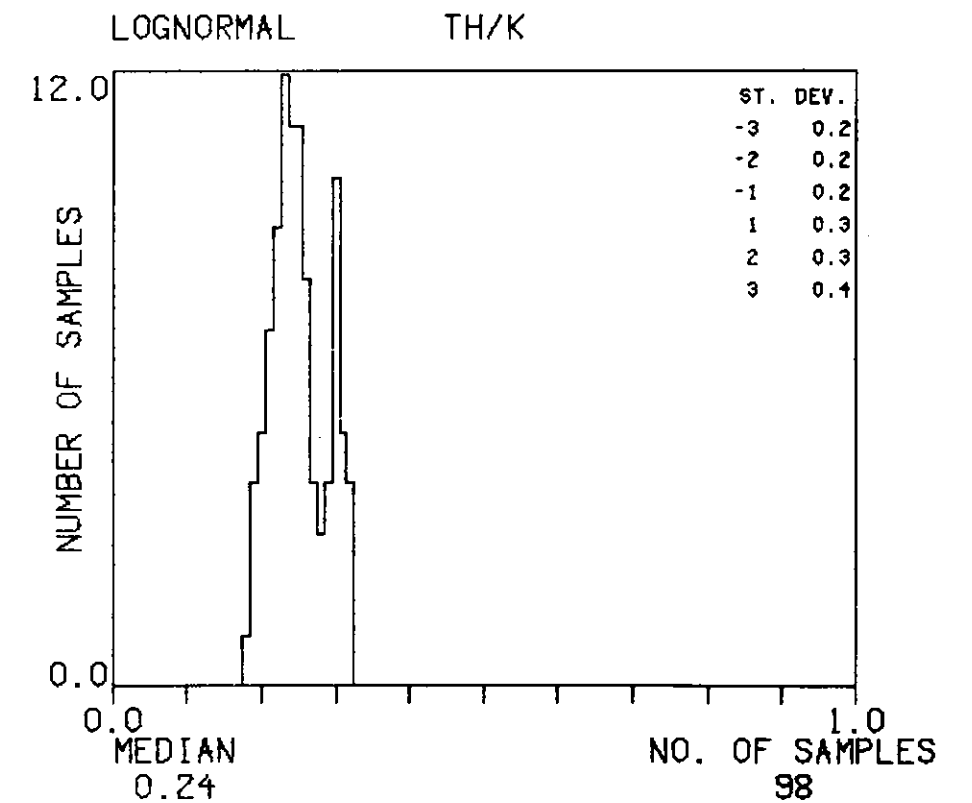
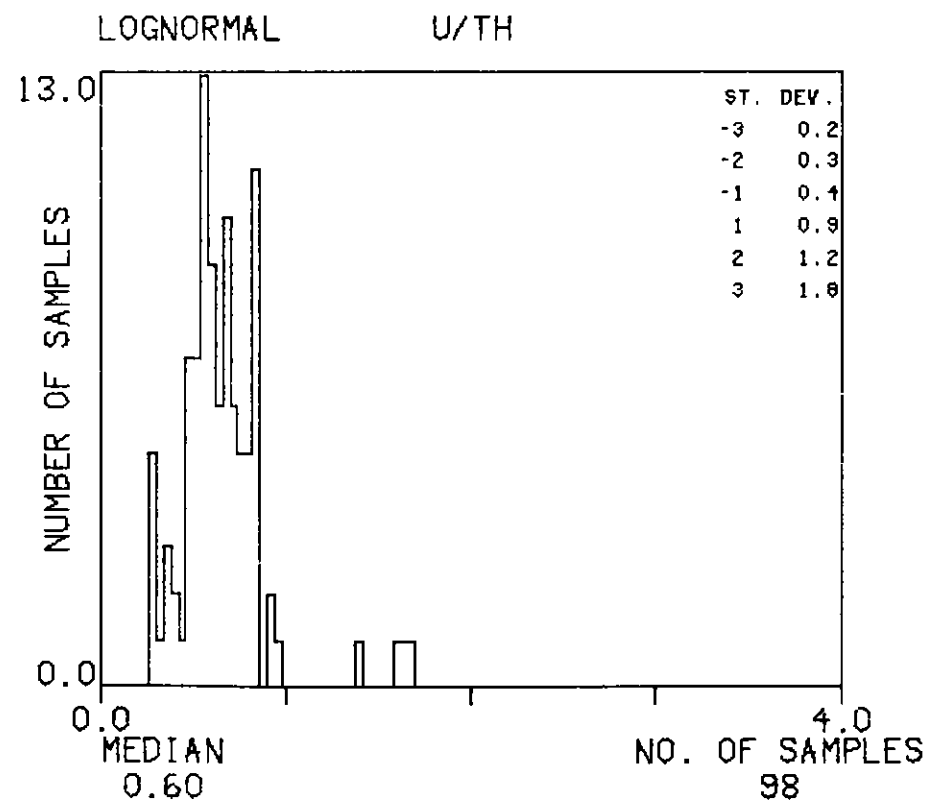
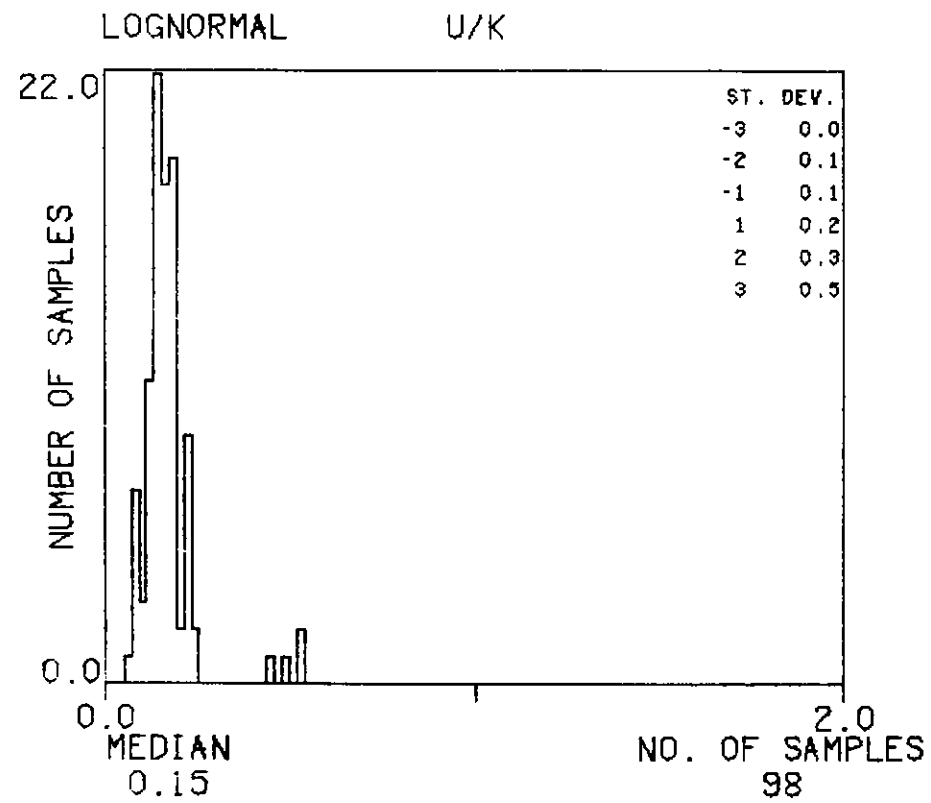
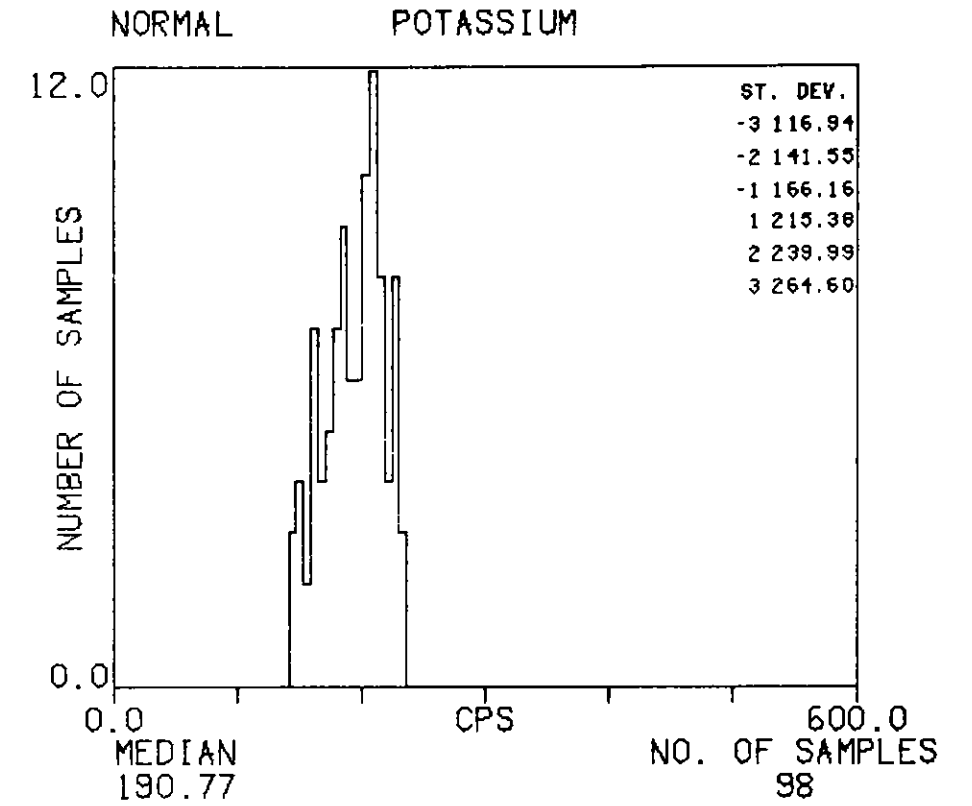
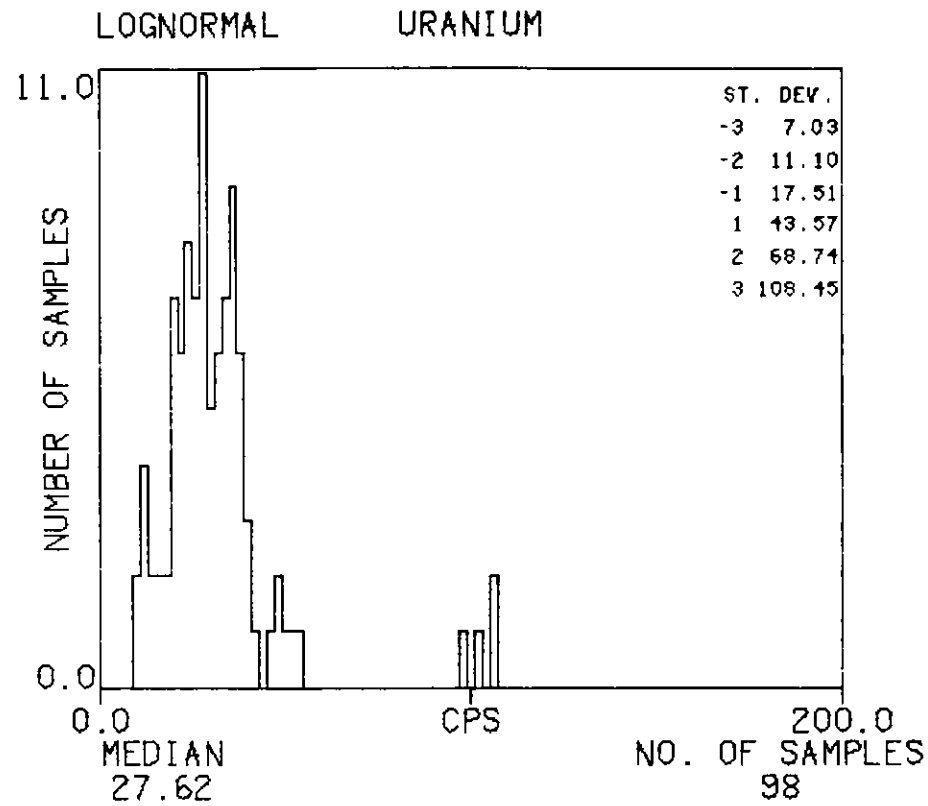
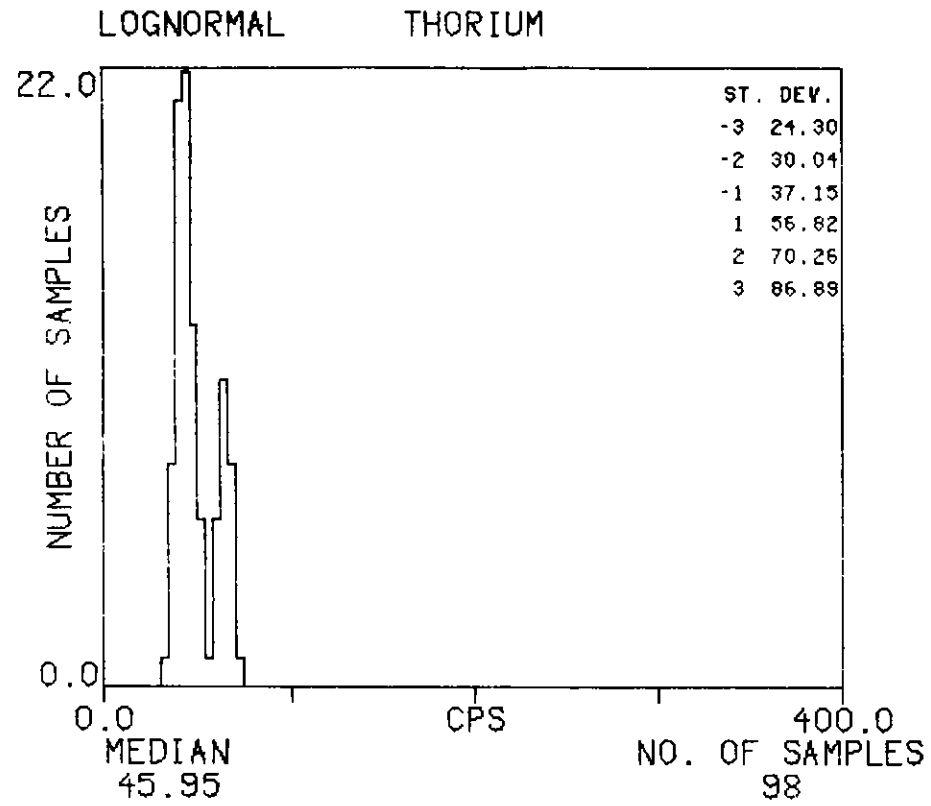
HISTOGRAMS : TP

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



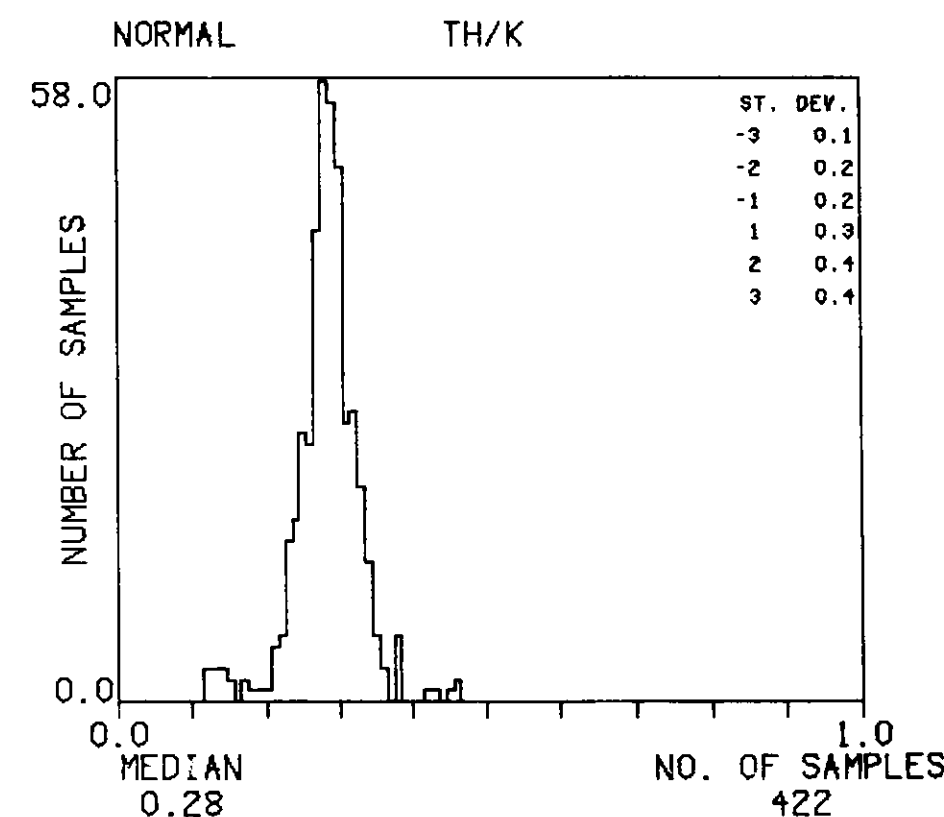
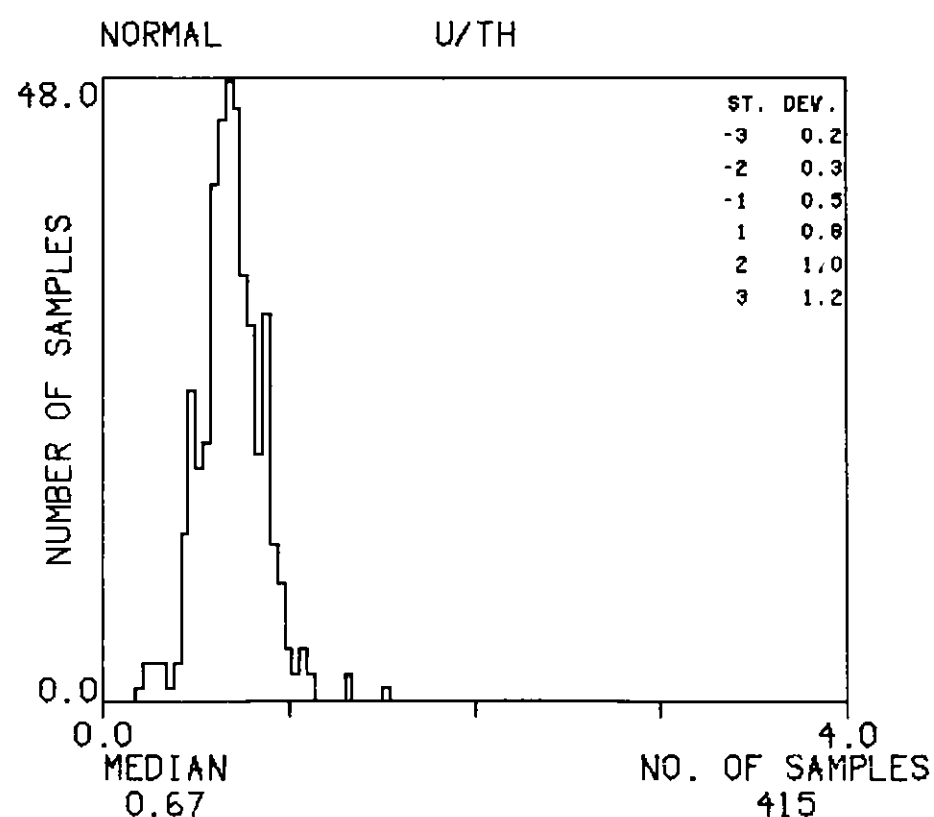
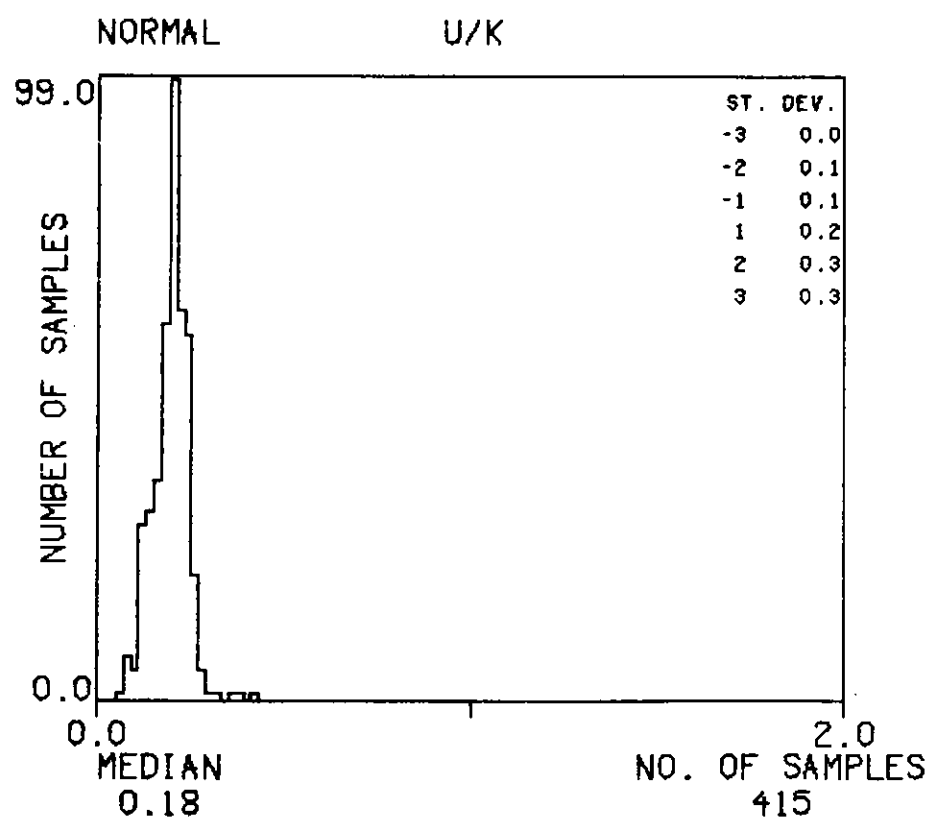
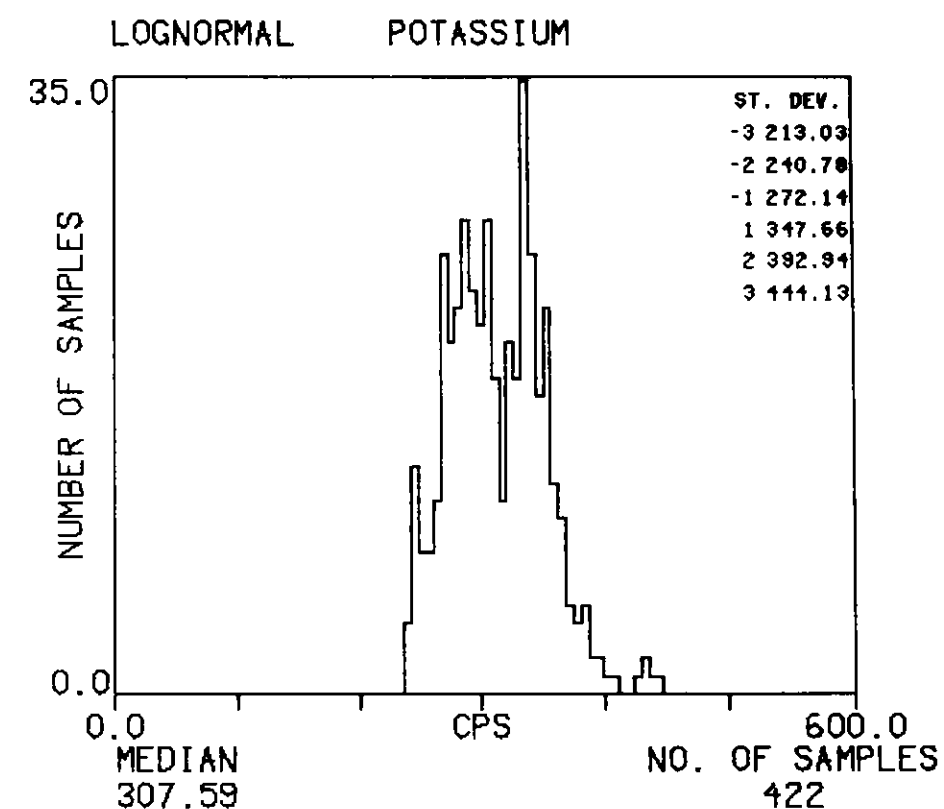
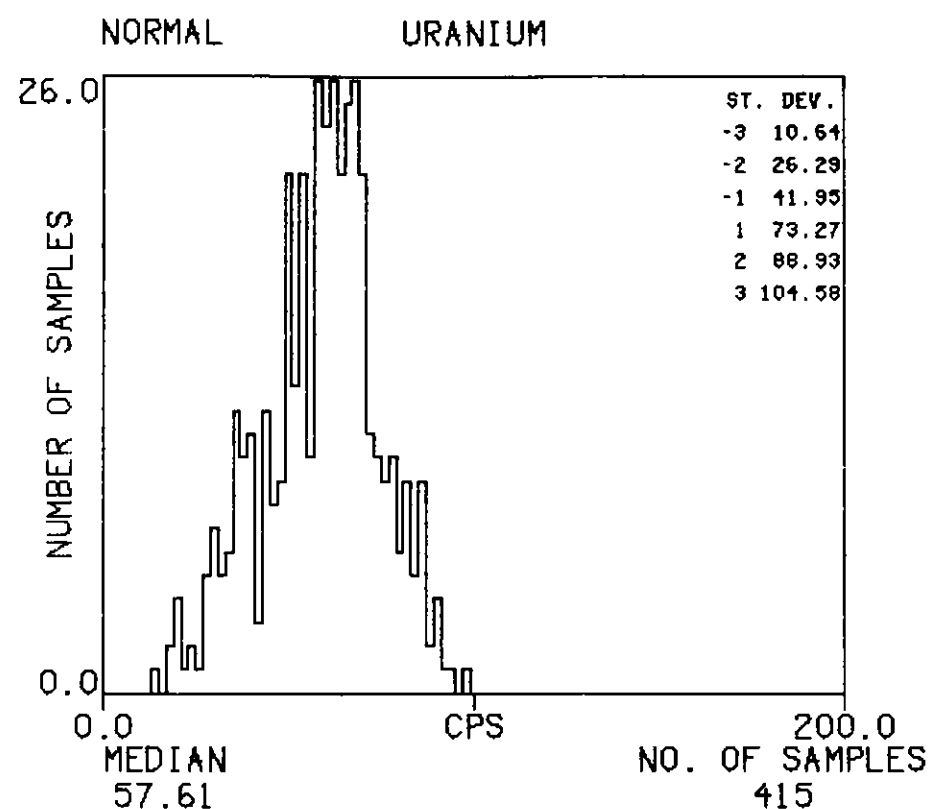
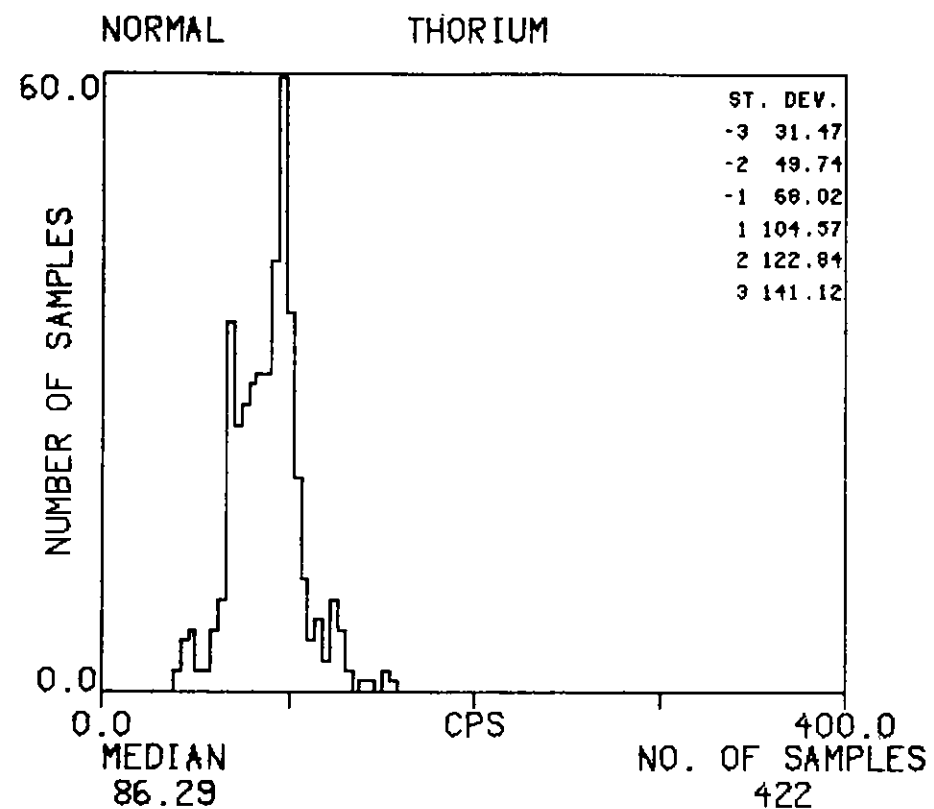
HISTOGRAMS : TP-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



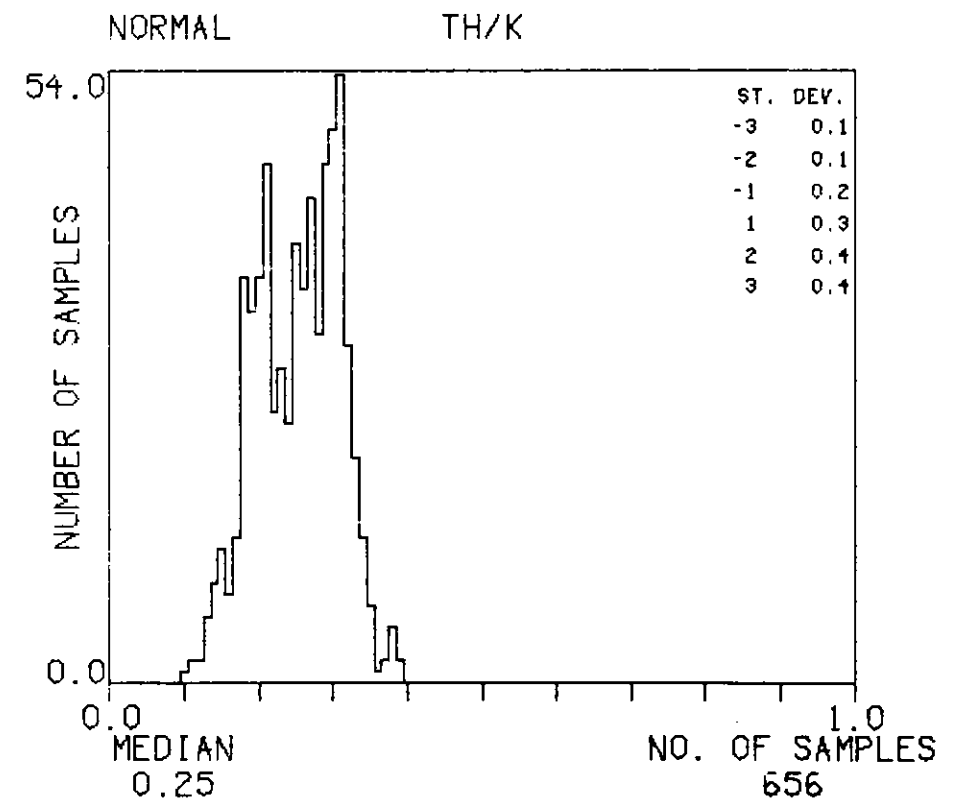
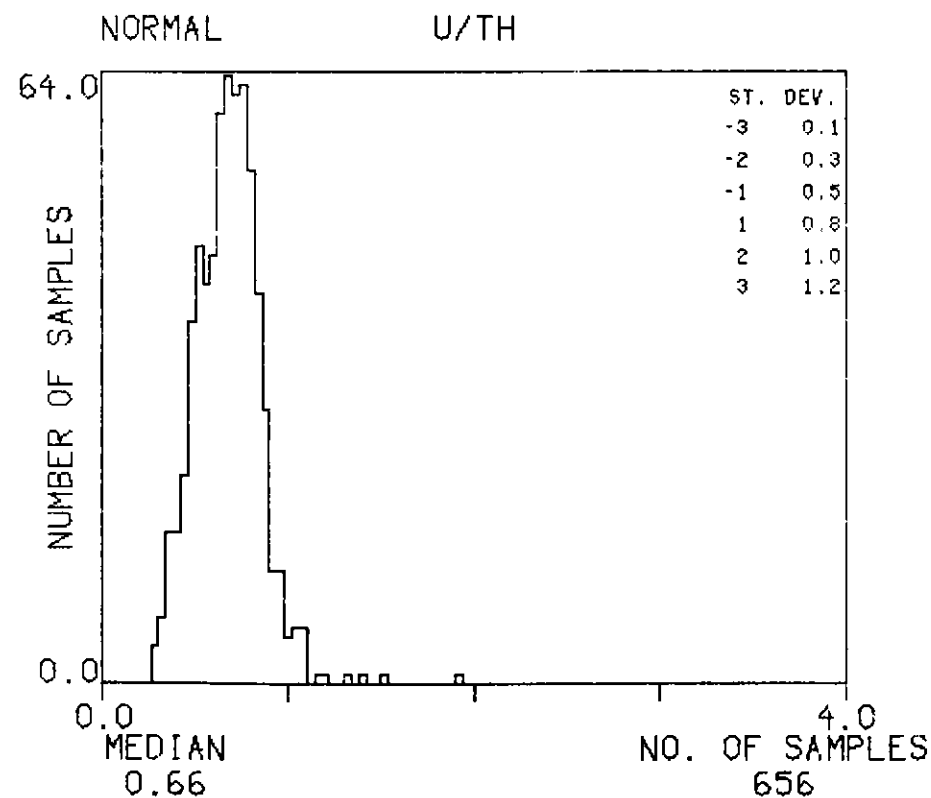
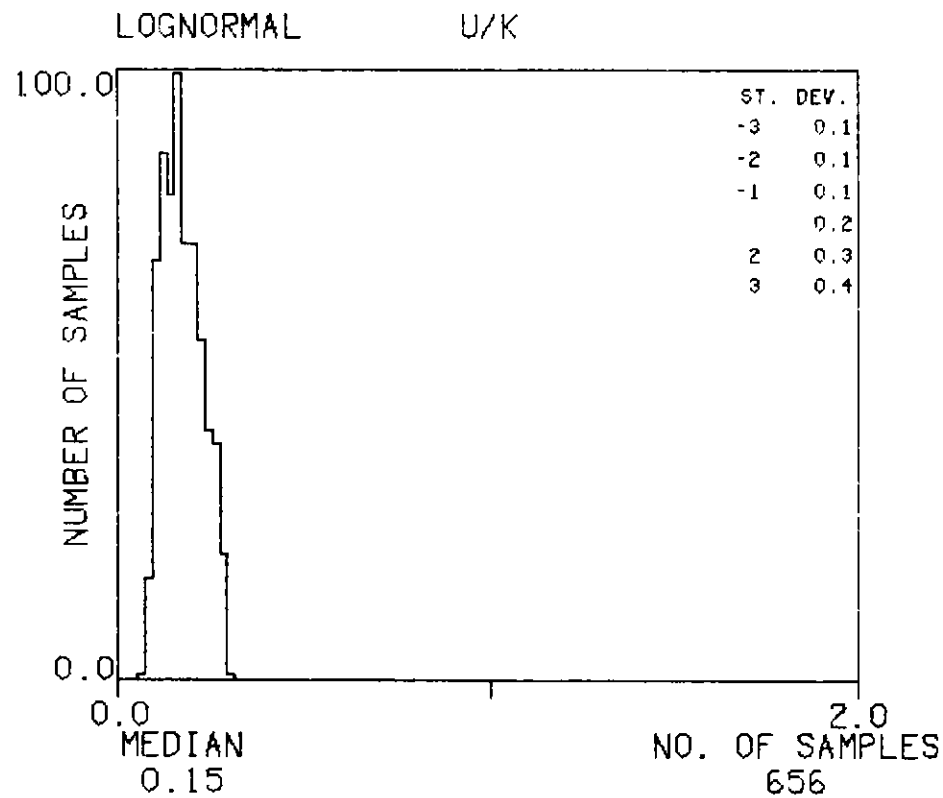
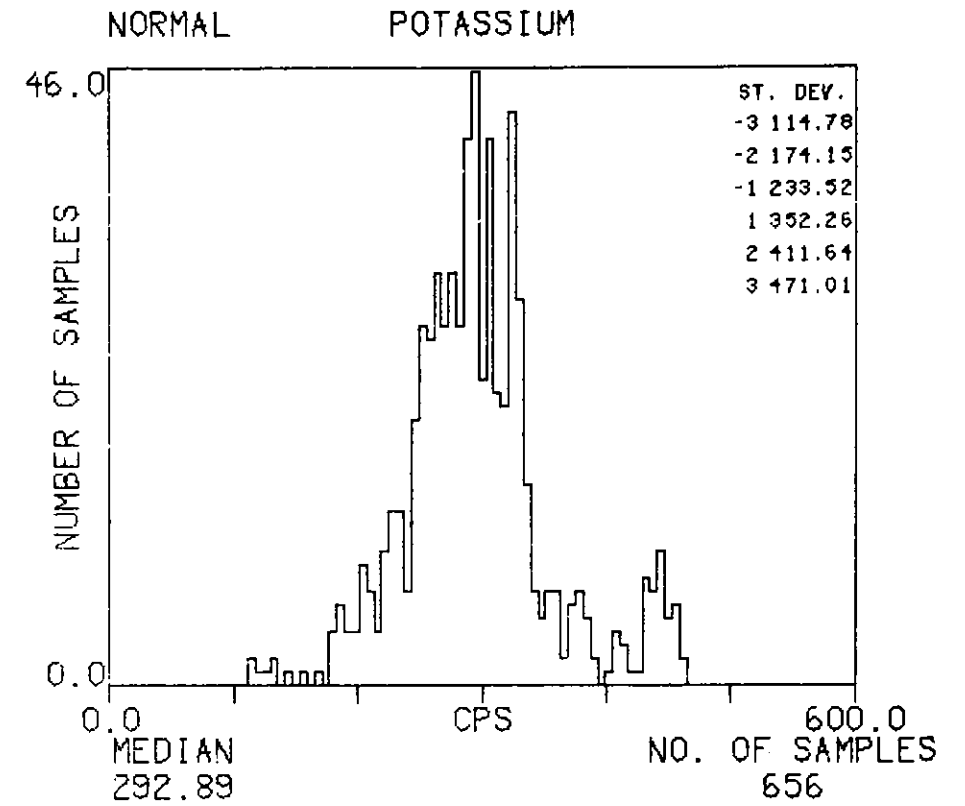
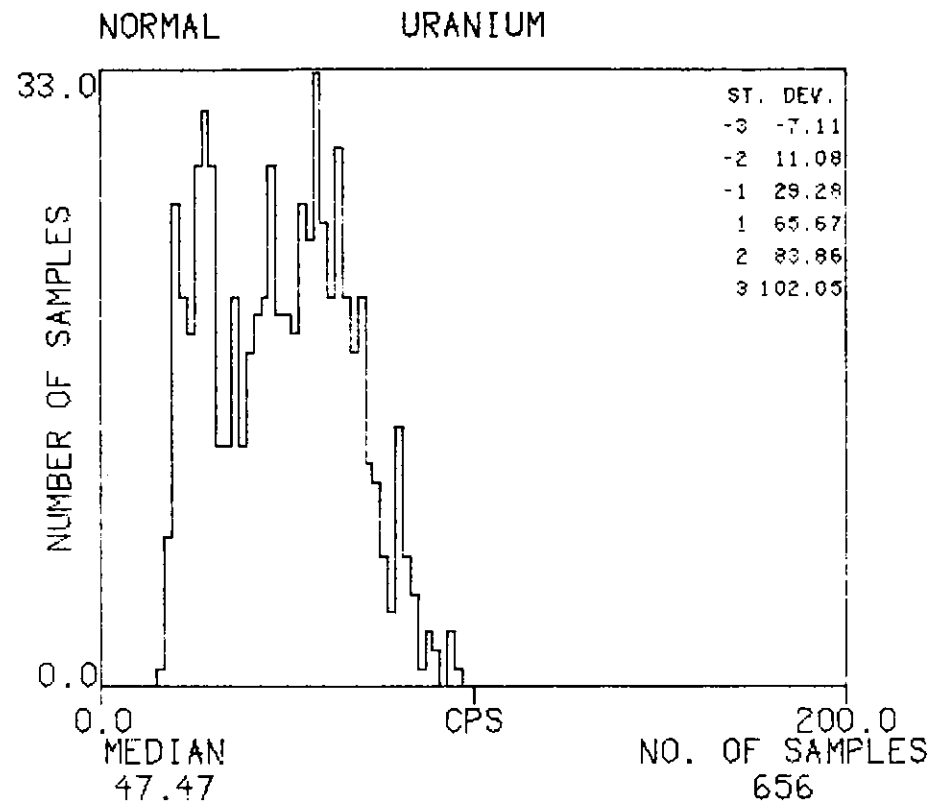
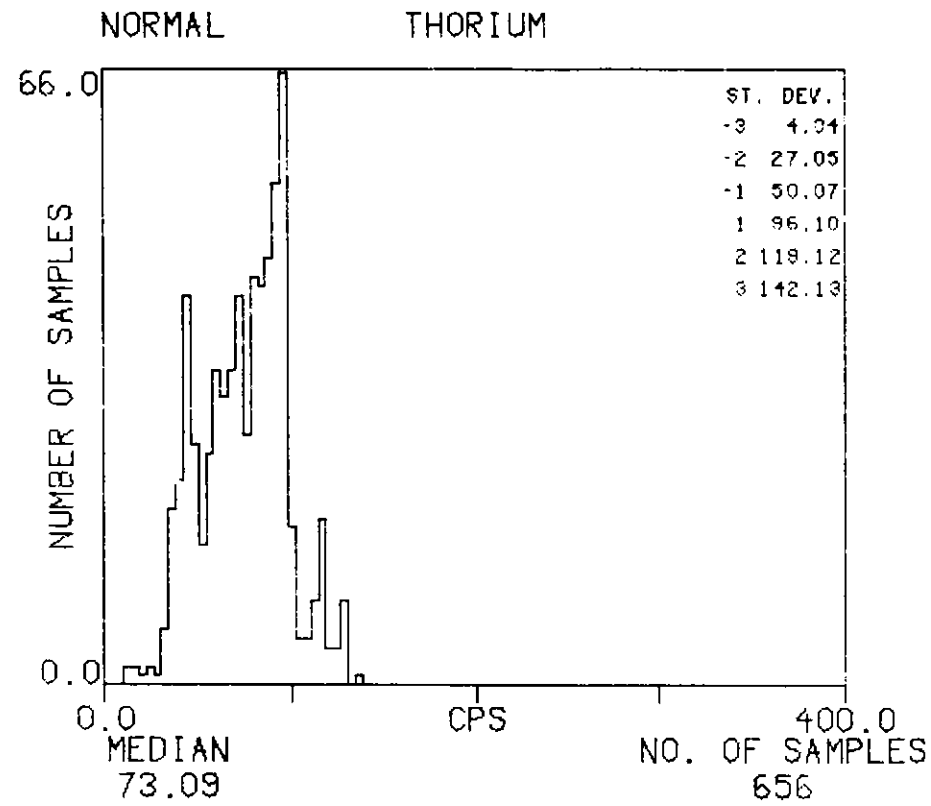
HISTOGRAMS : TP-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



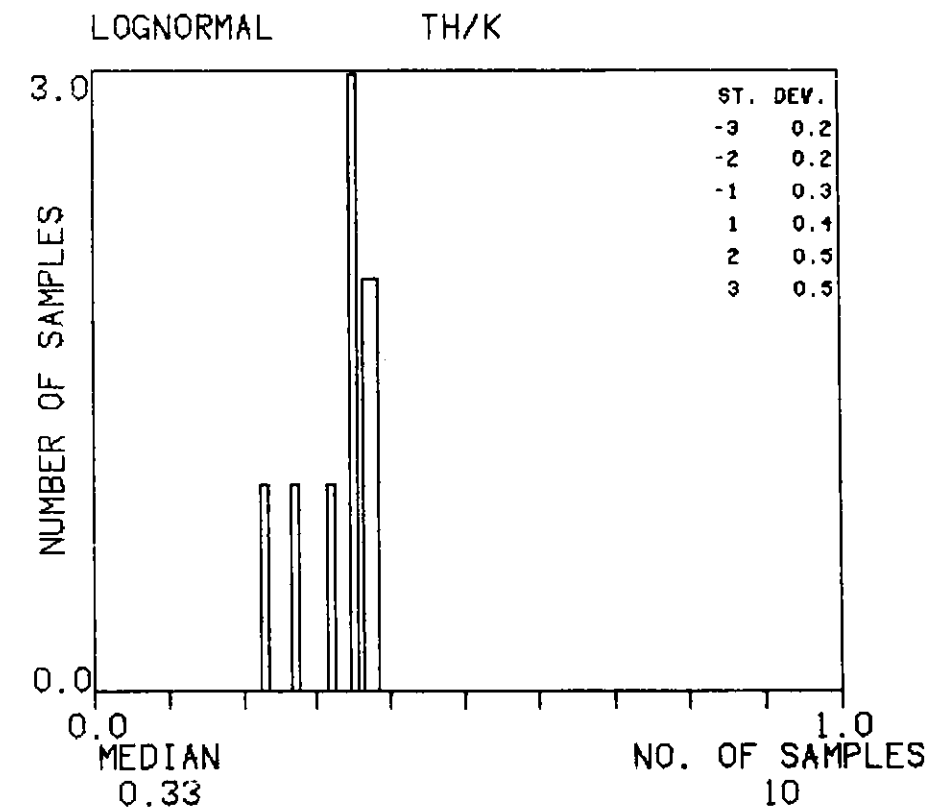
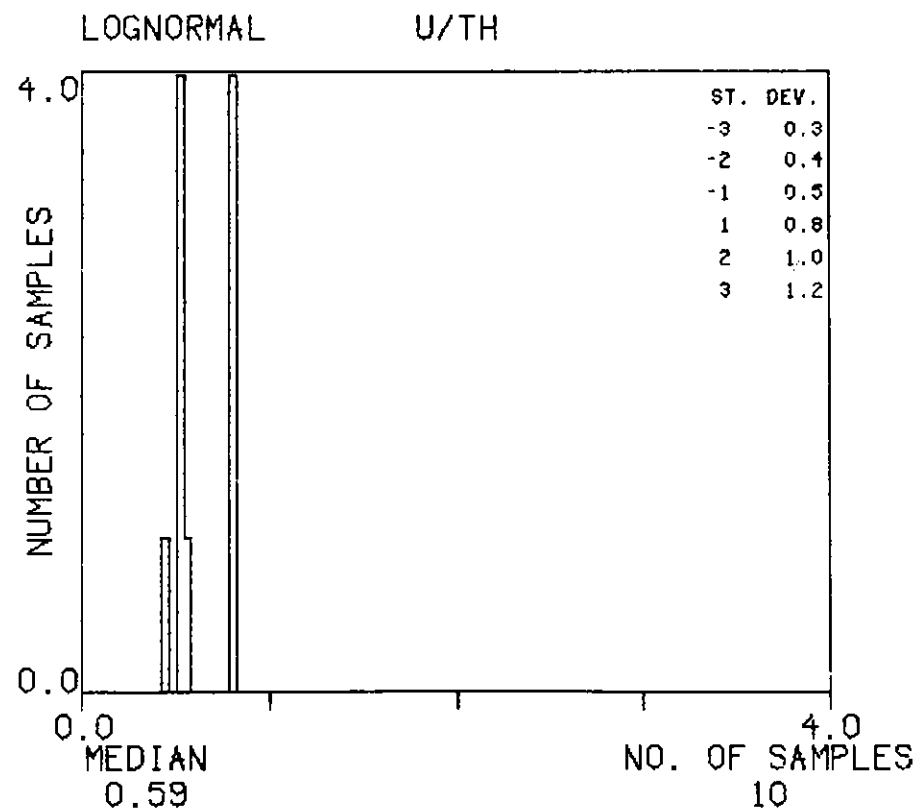
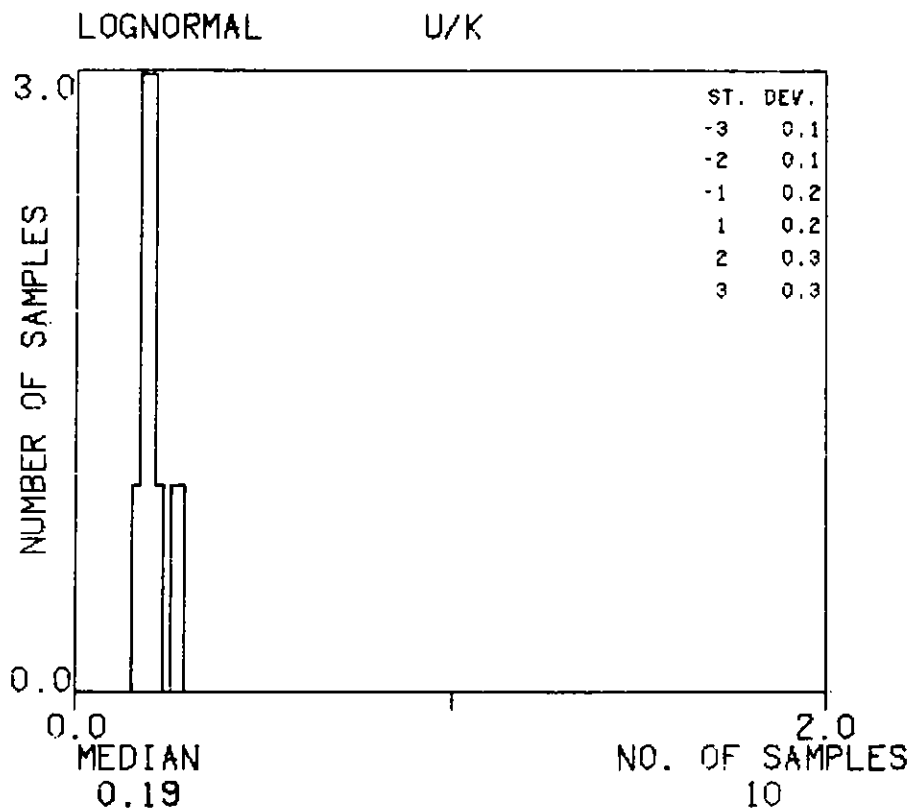
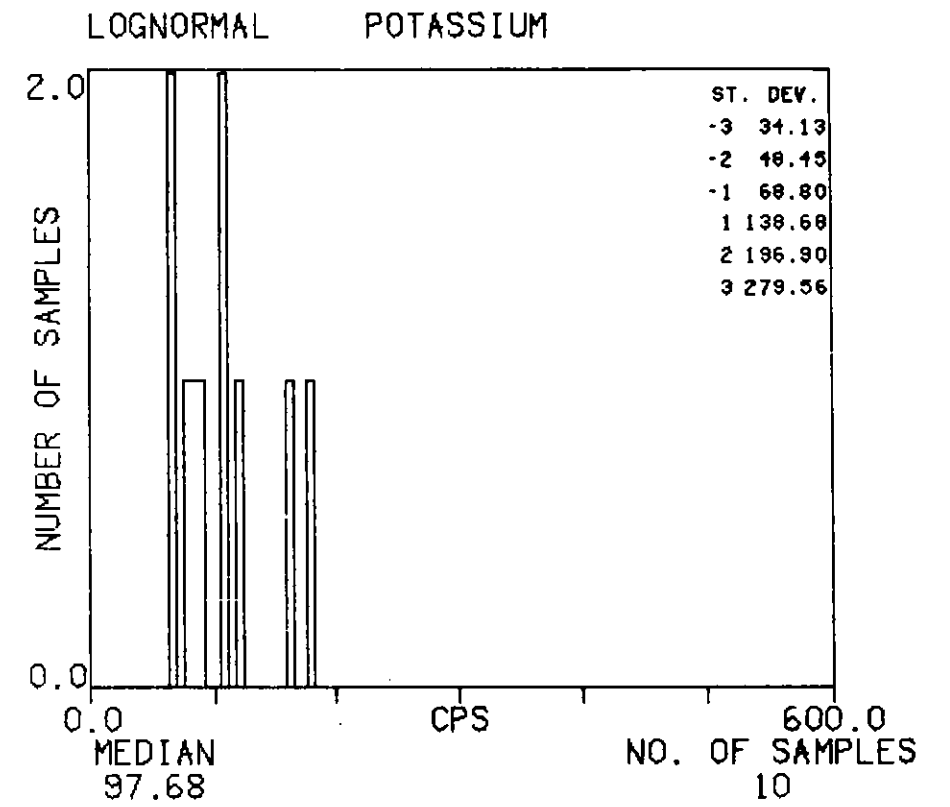
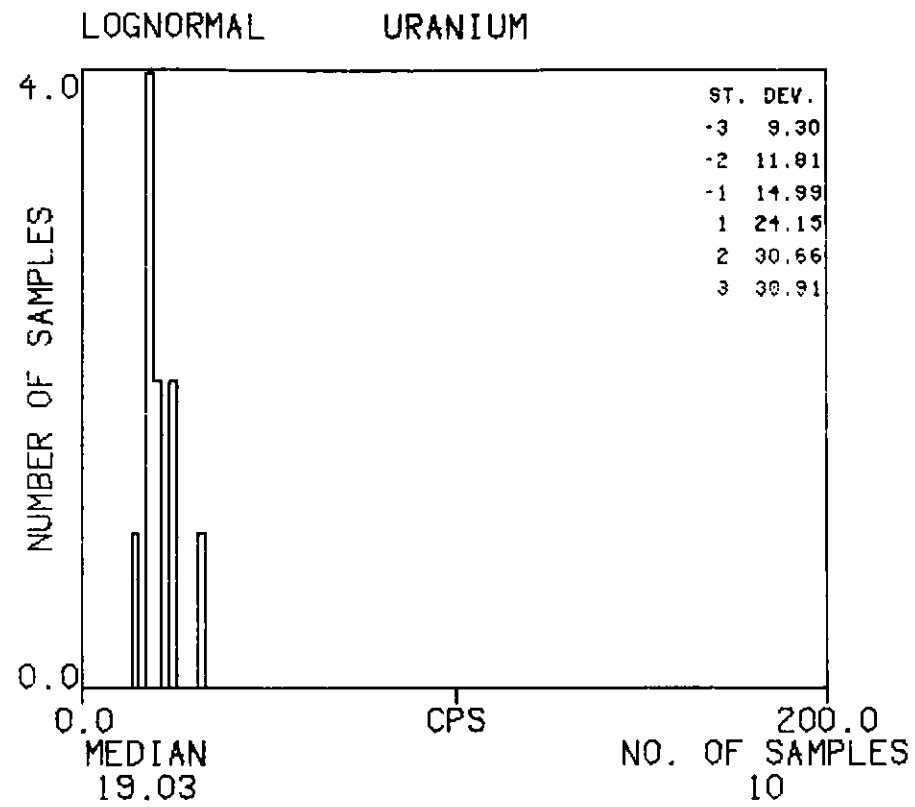
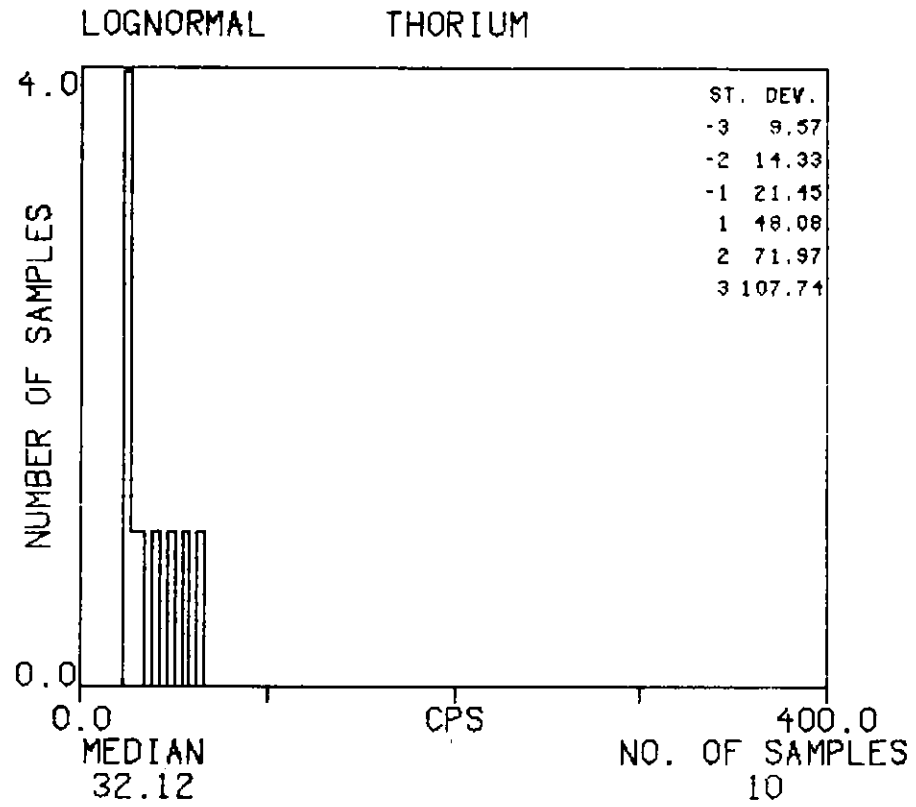
HISTOGRAMS : TA

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



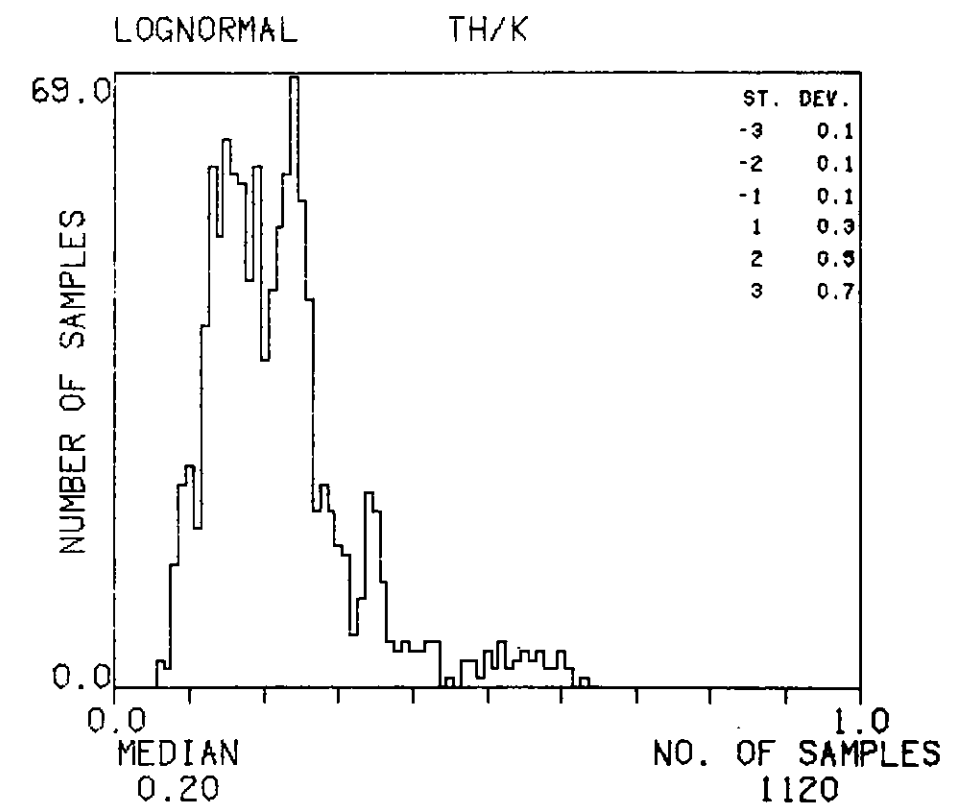
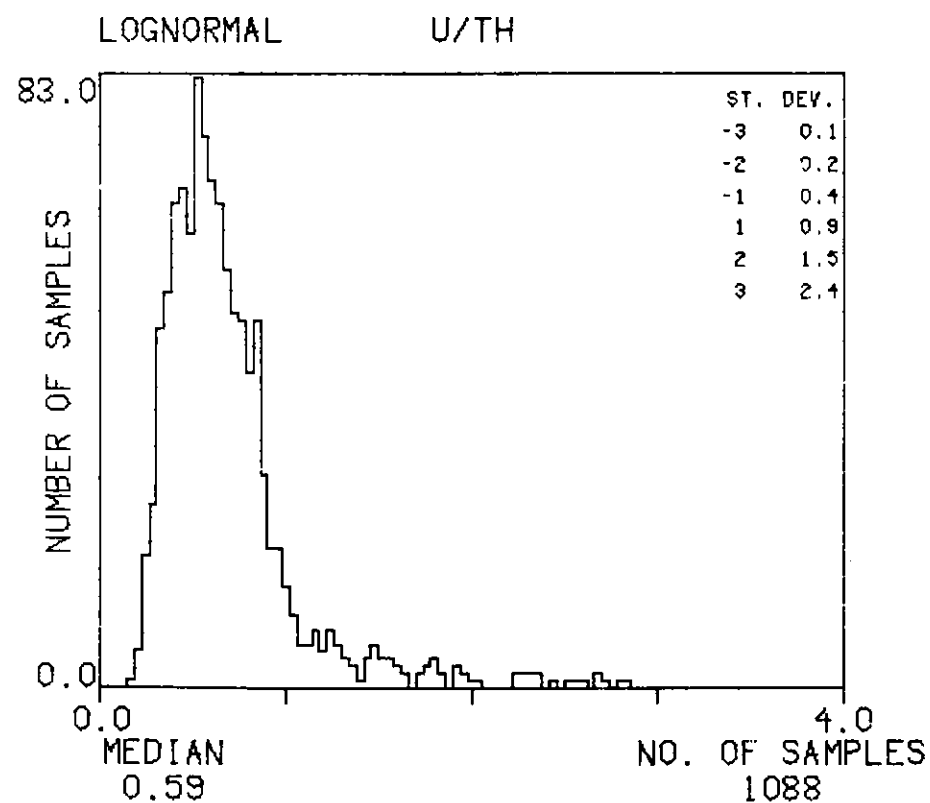
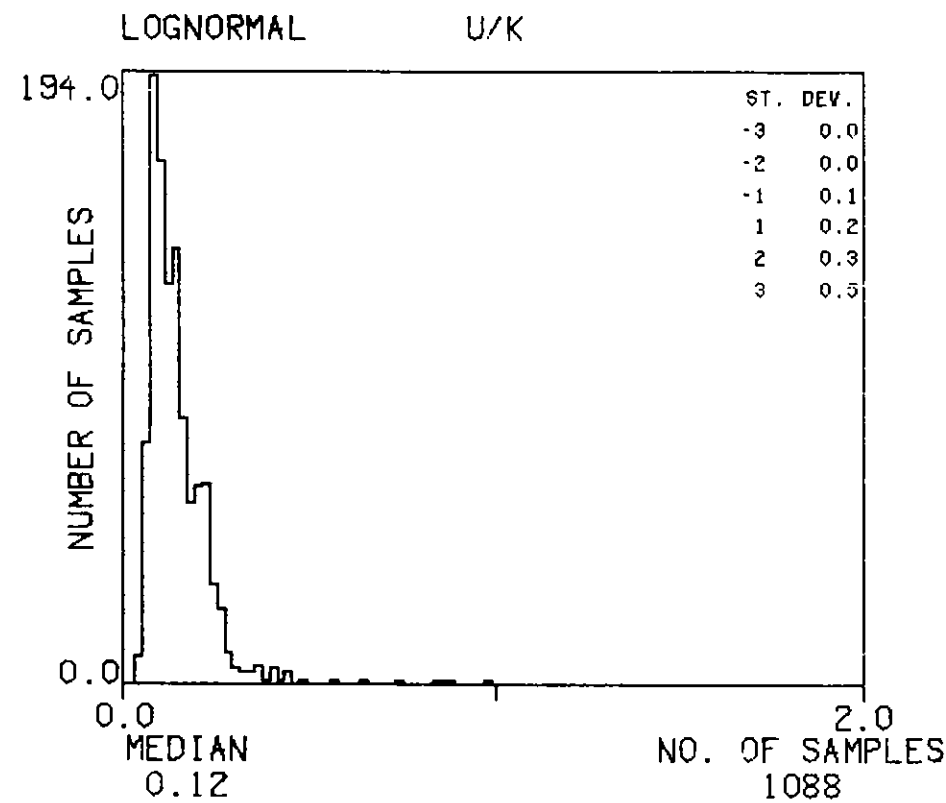
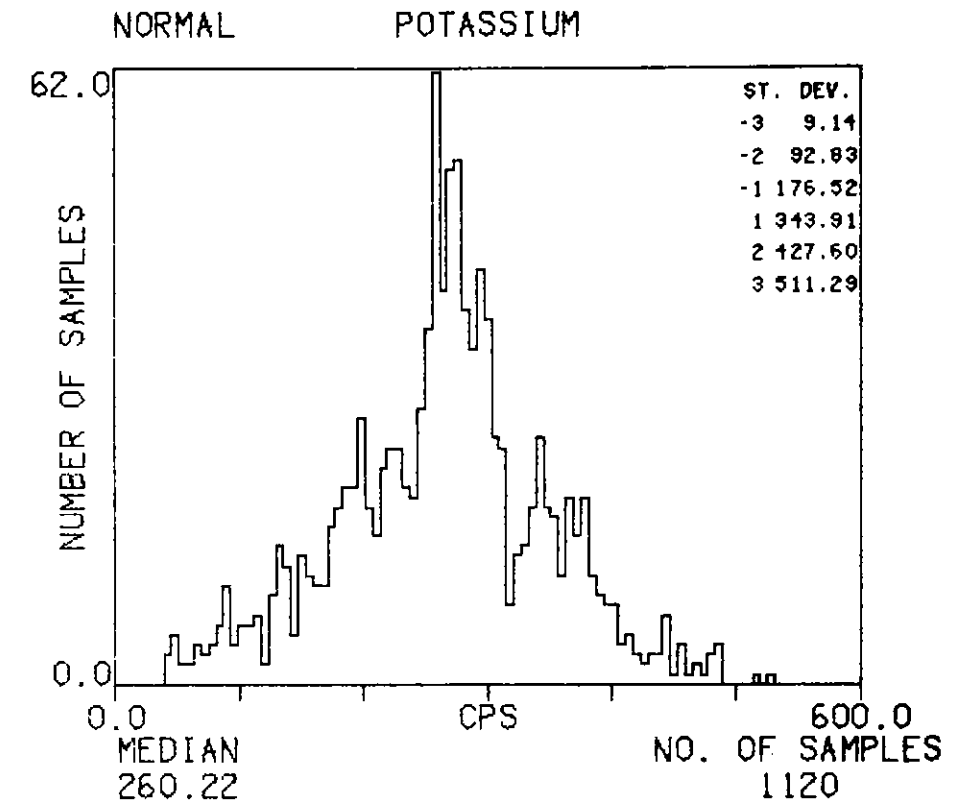
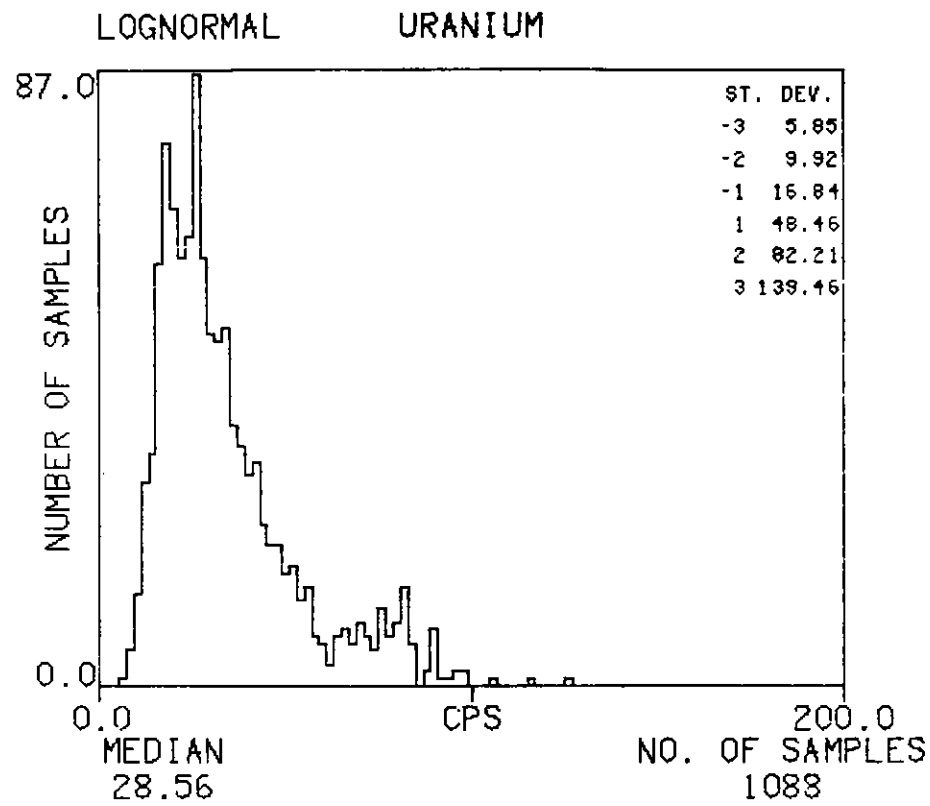
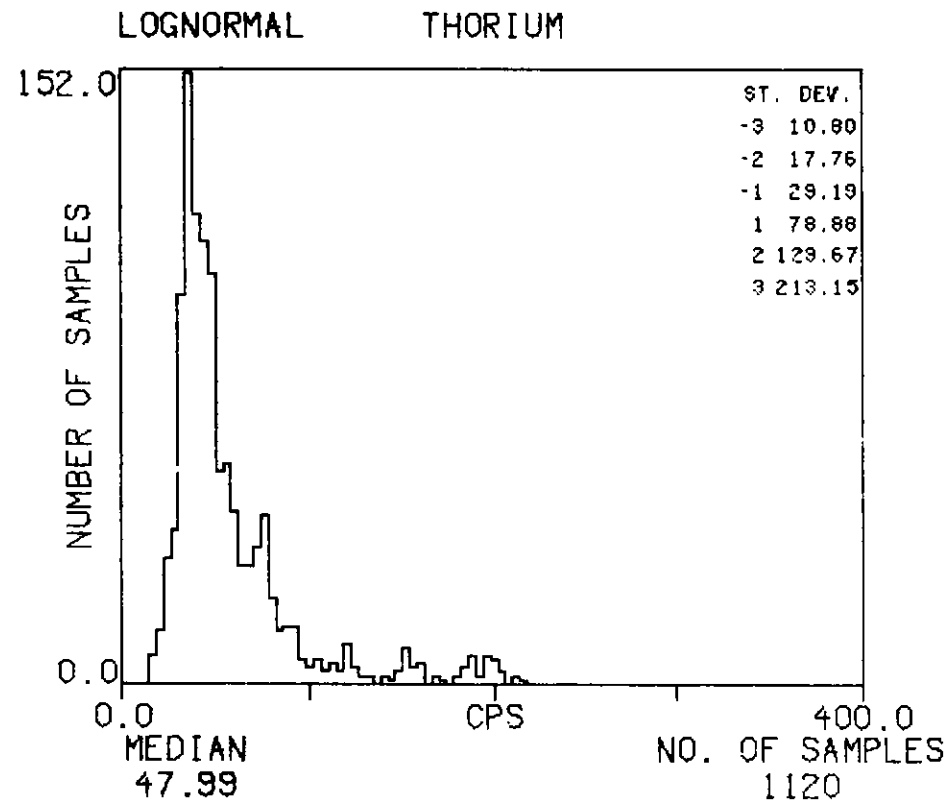
HISTOGRAMS : TKS

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



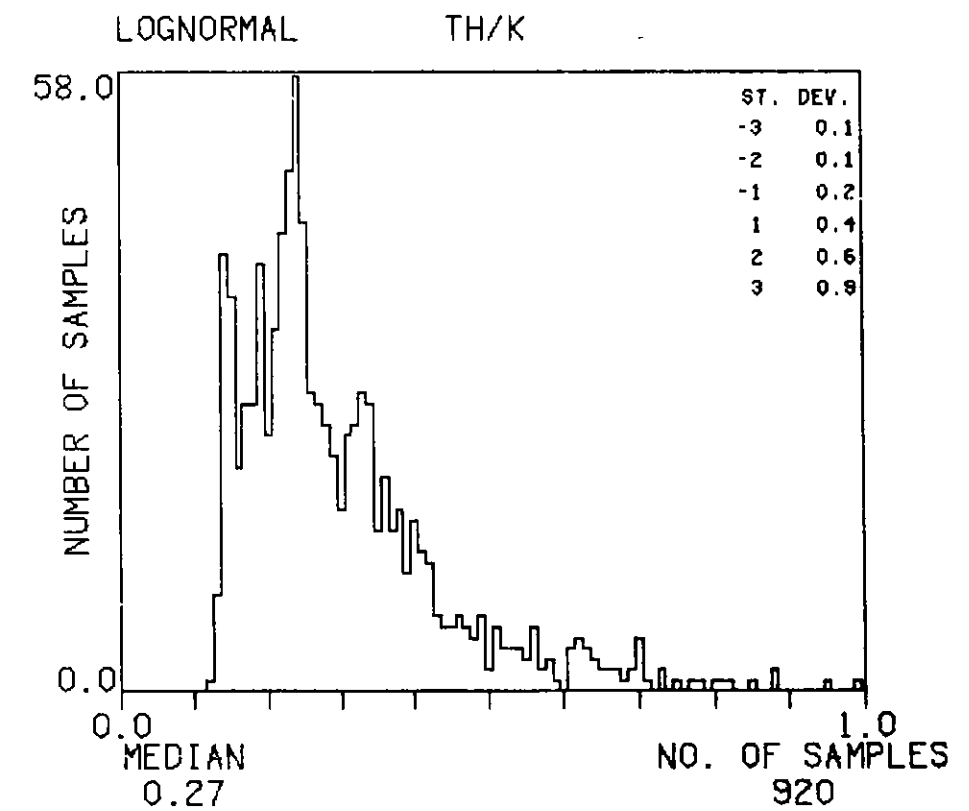
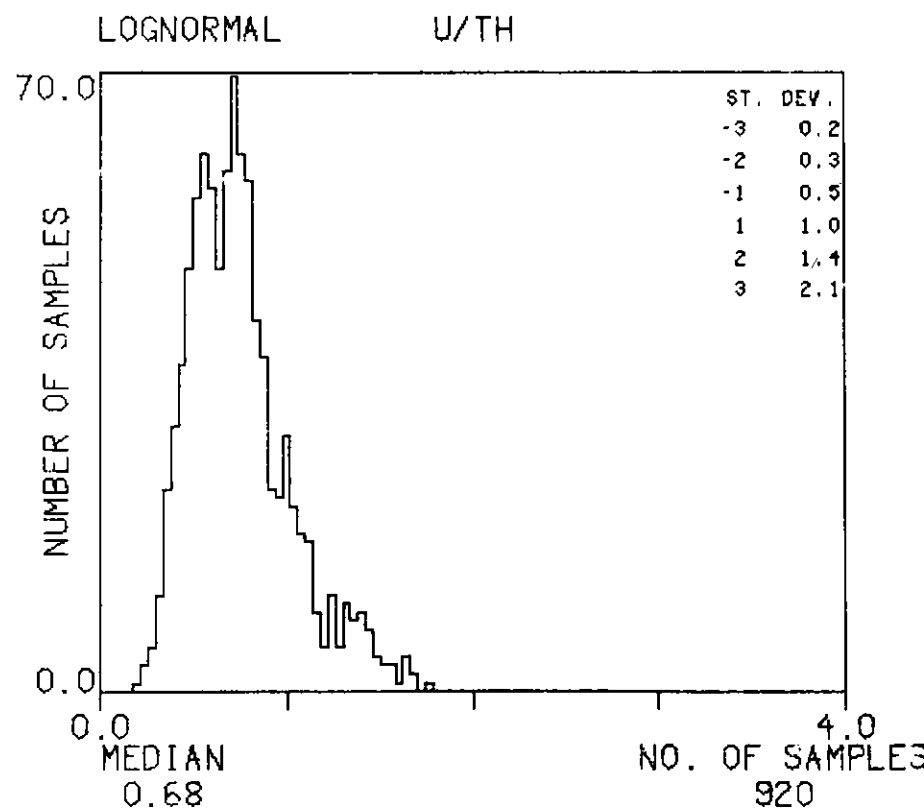
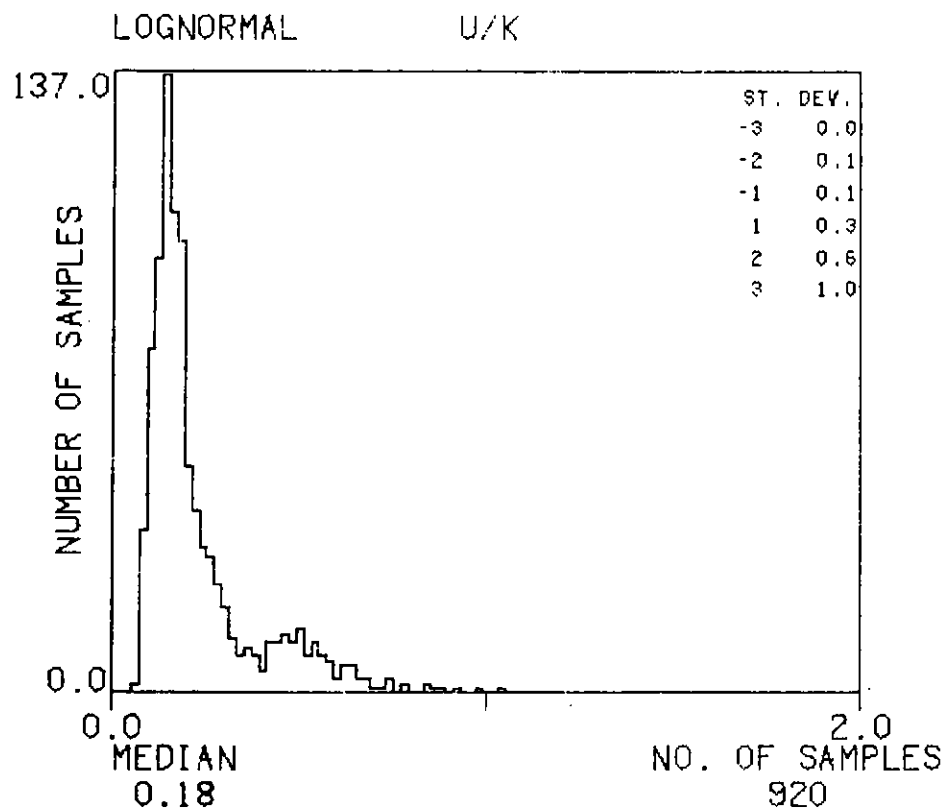
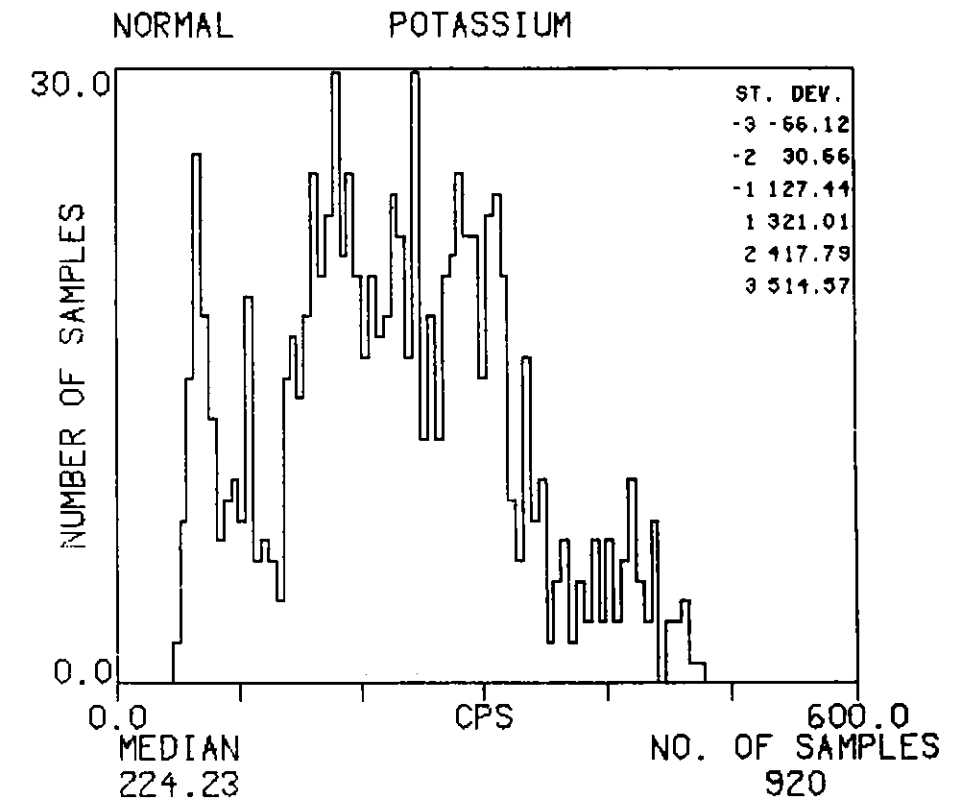
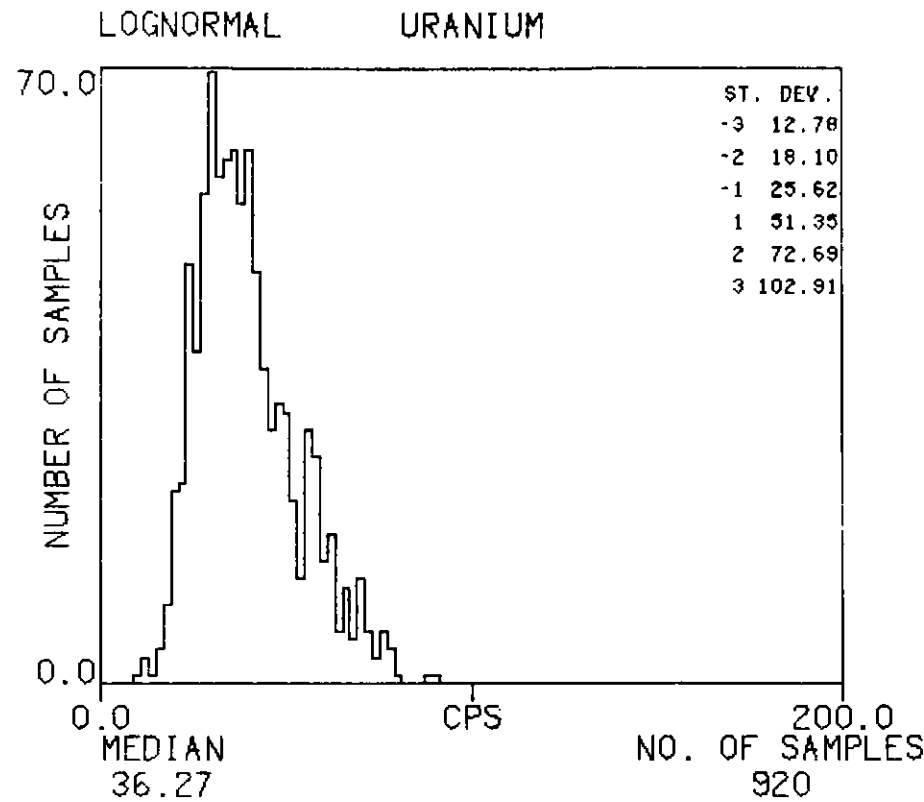
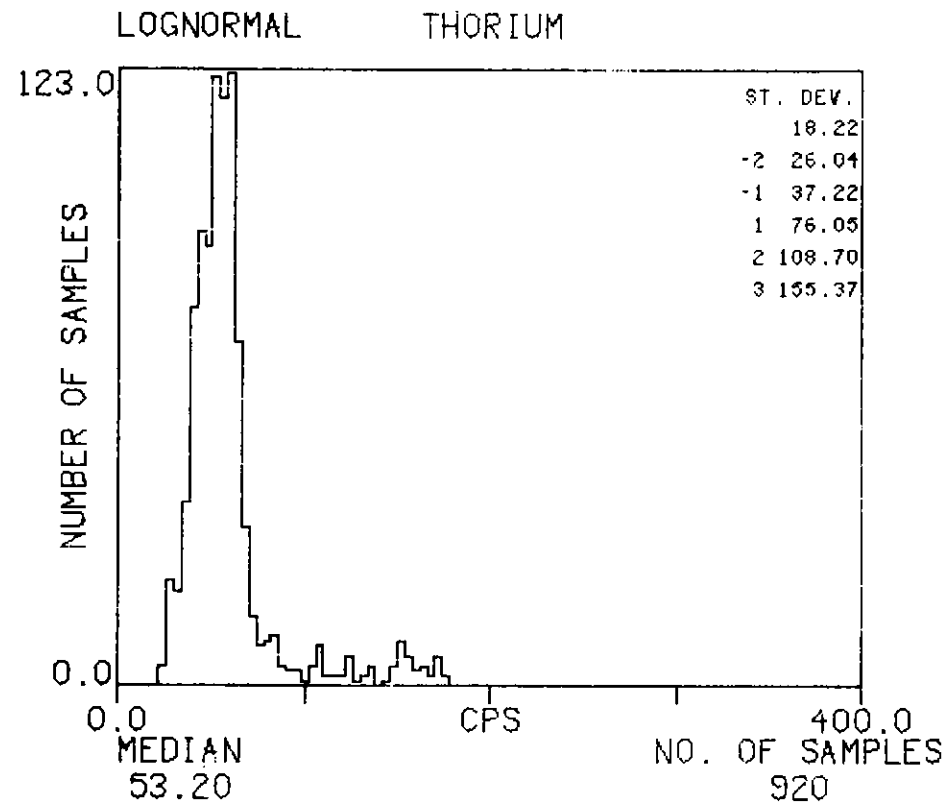
HISTOGRAMS : TKI

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



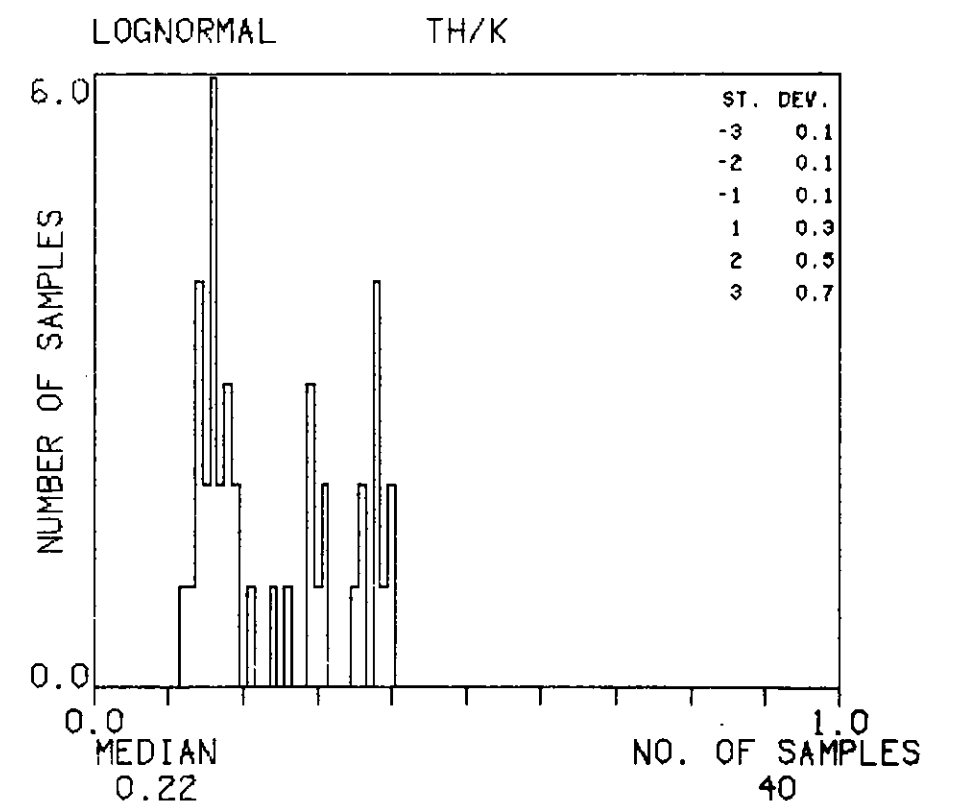
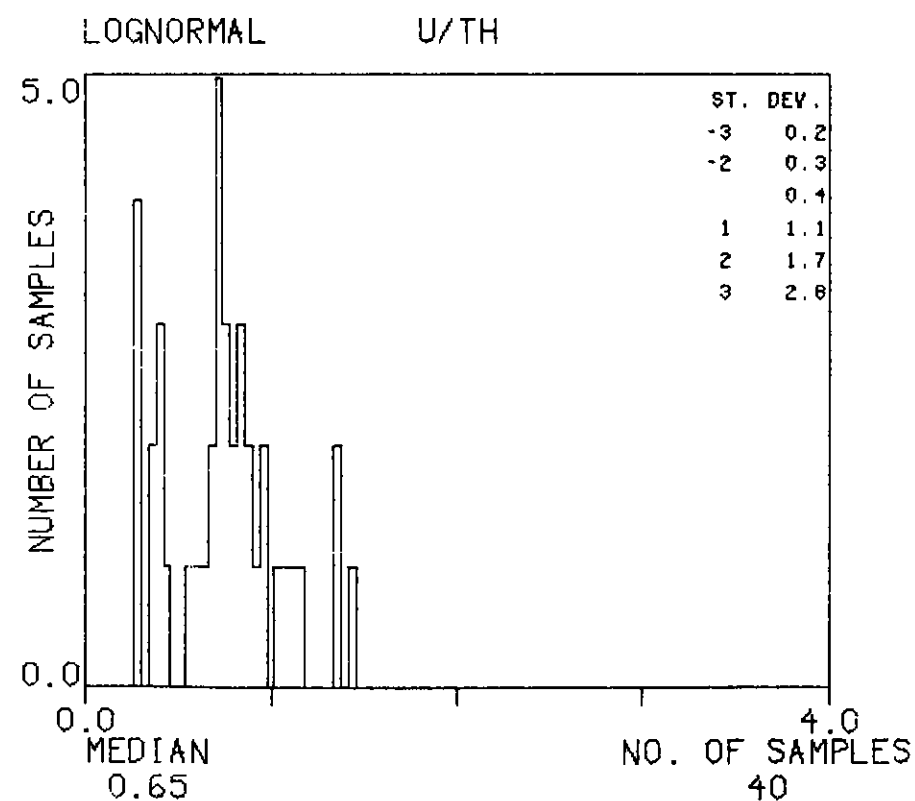
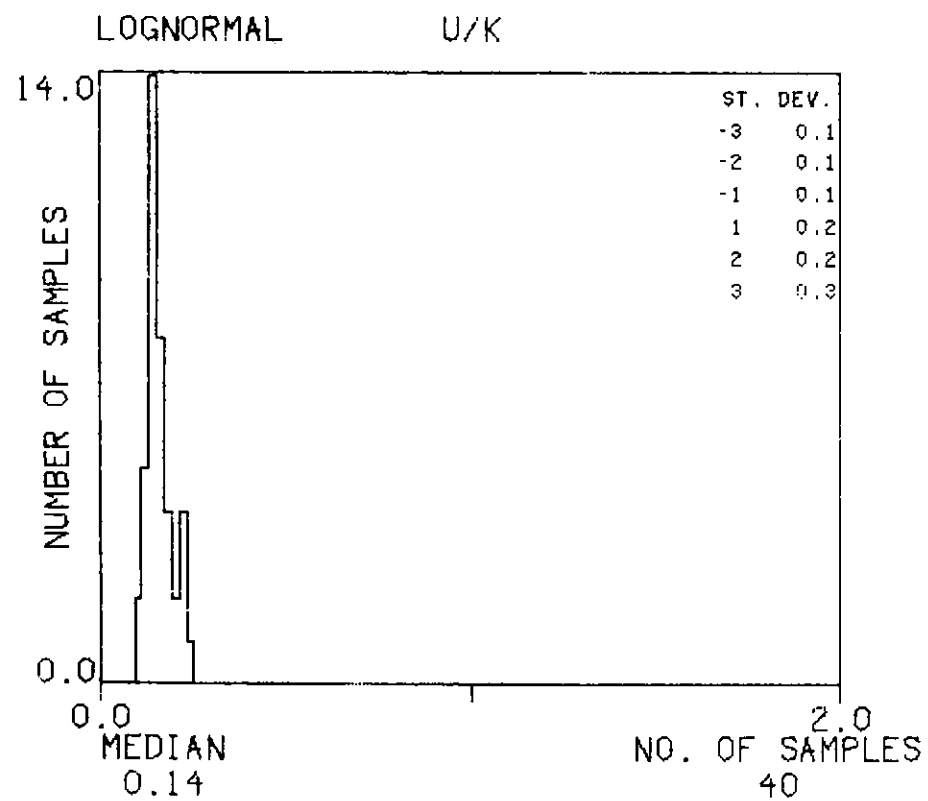
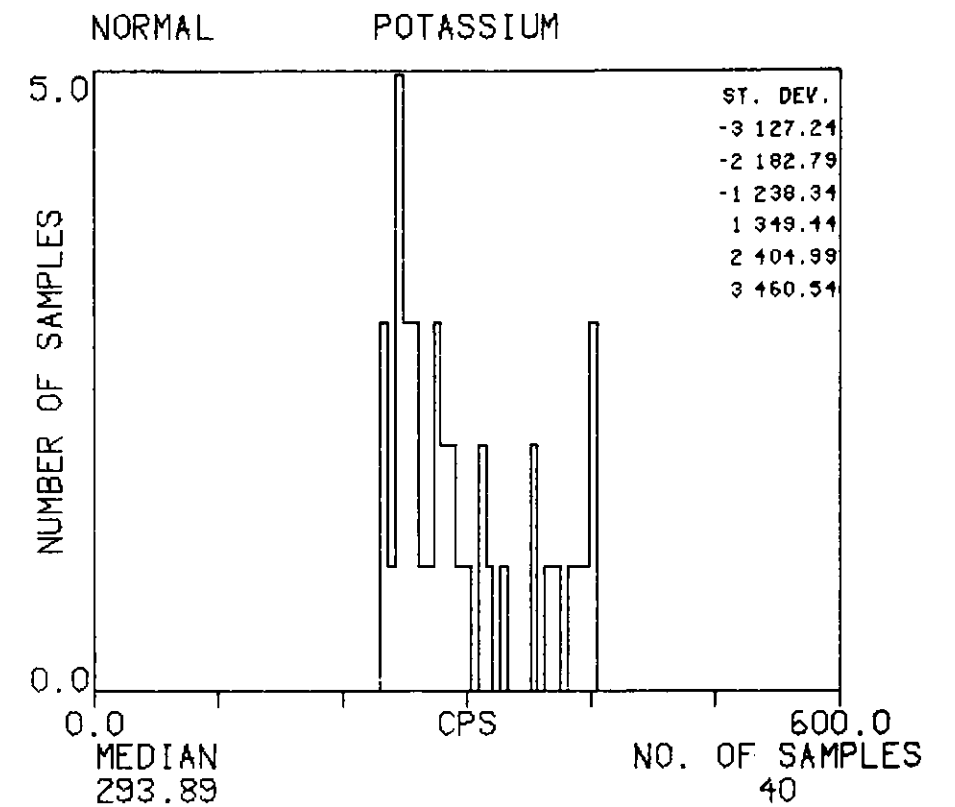
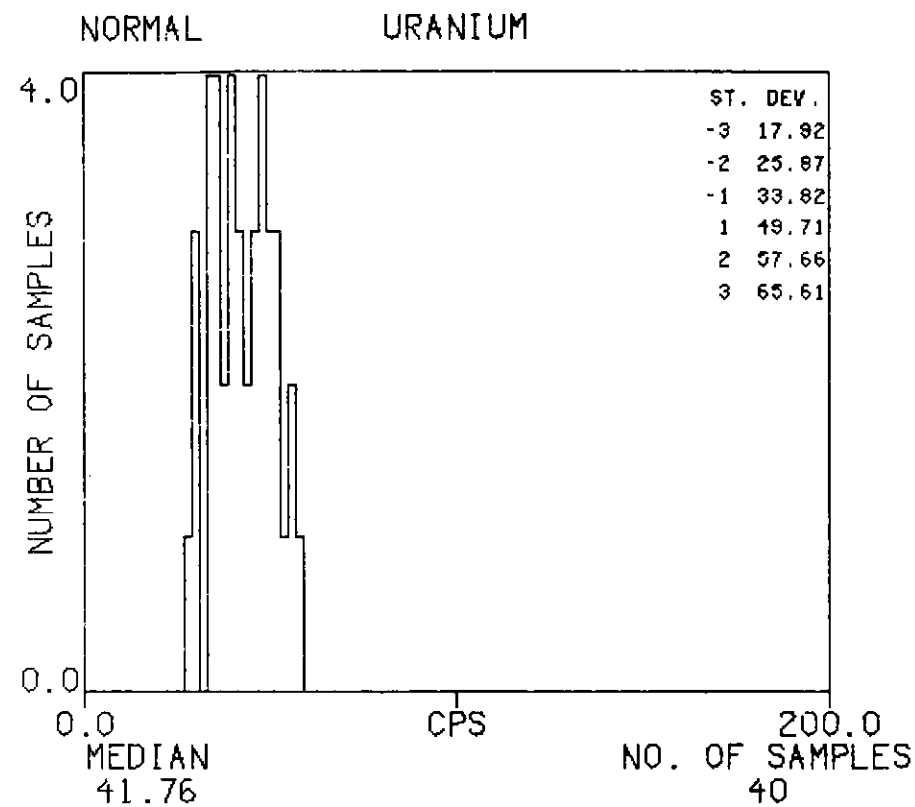
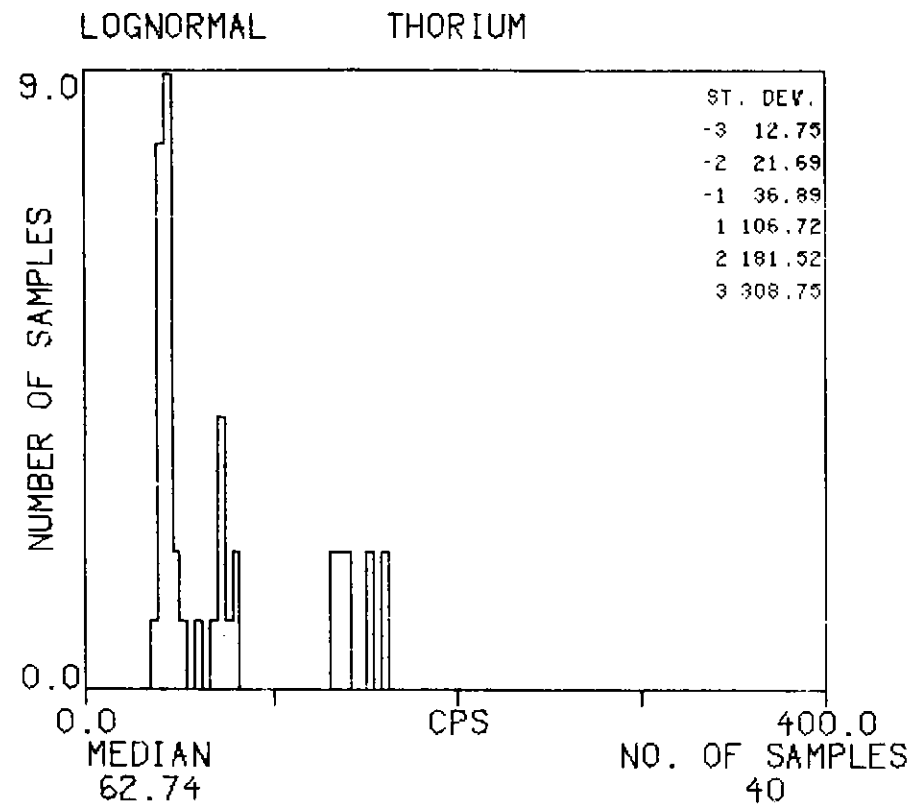
HISTOGRAMS : KU

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



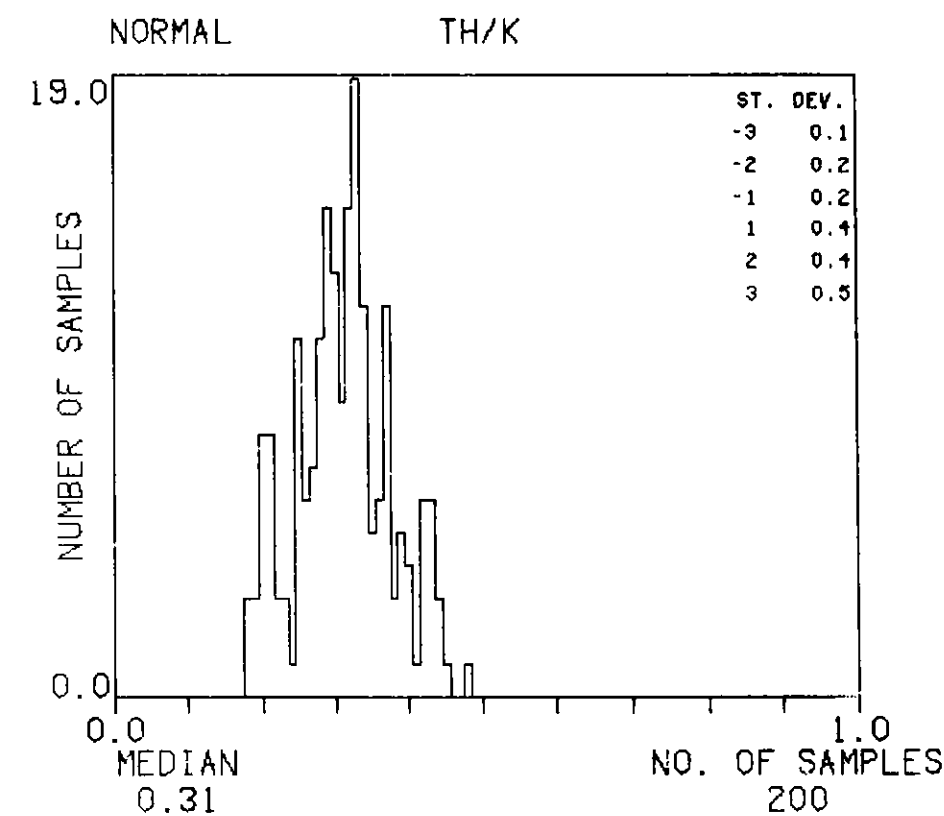
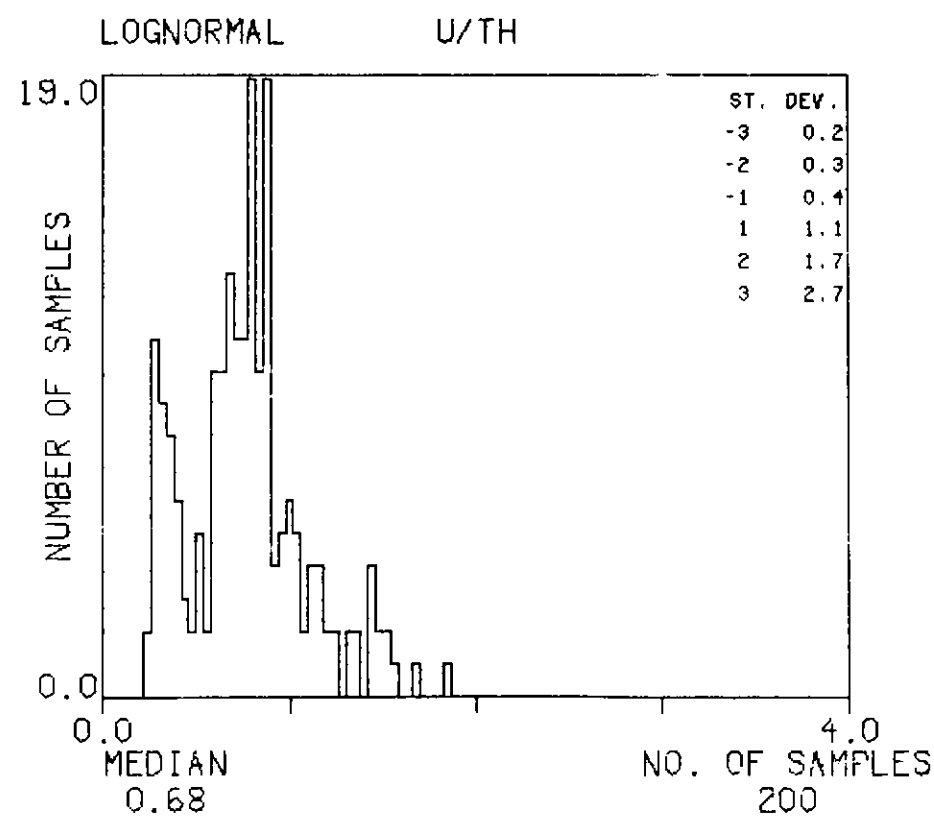
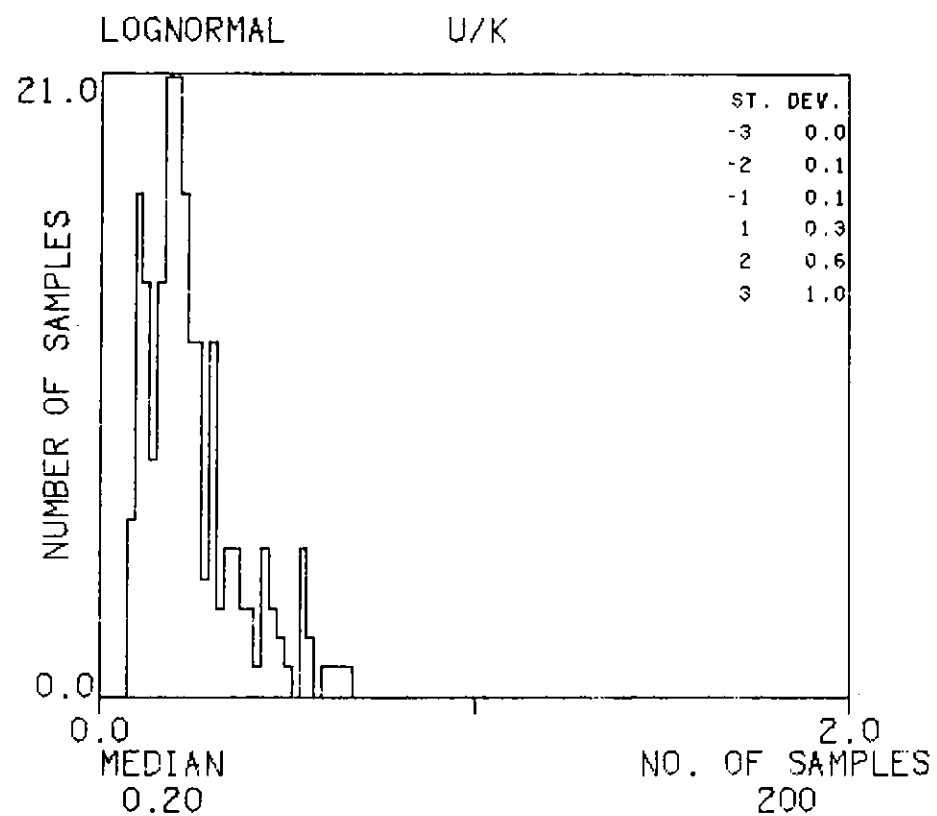
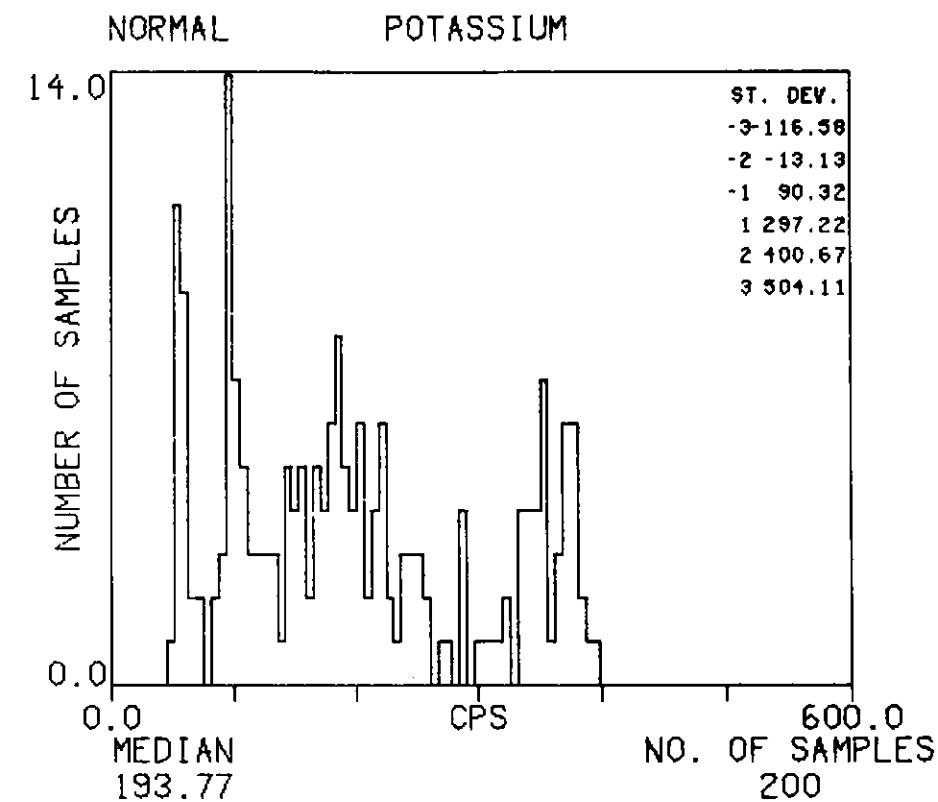
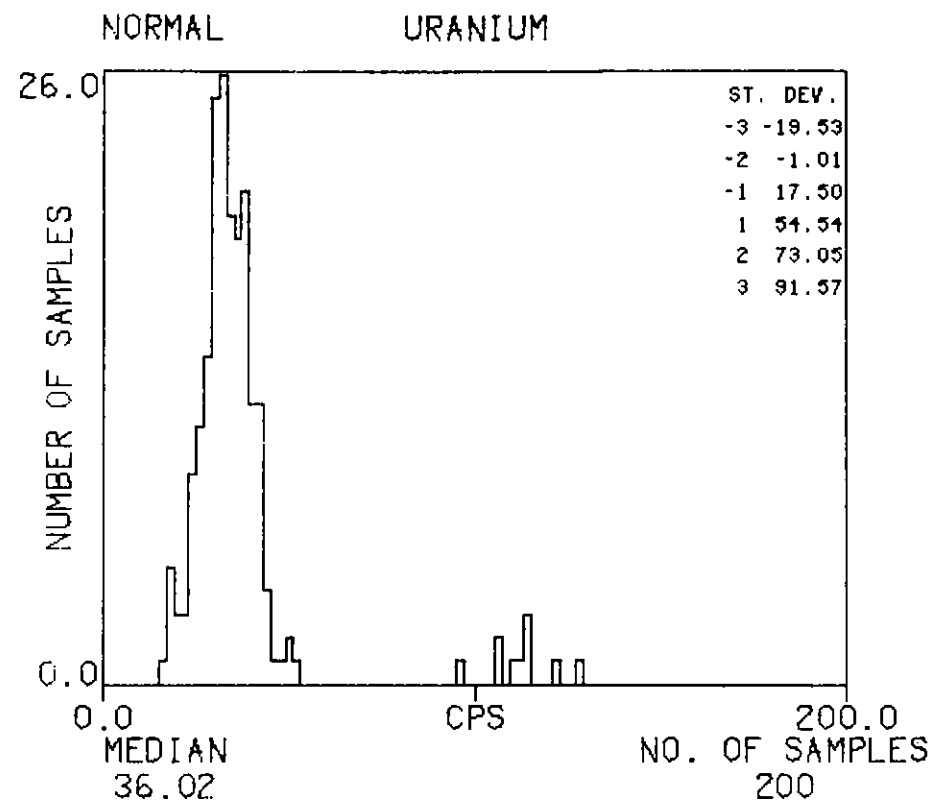
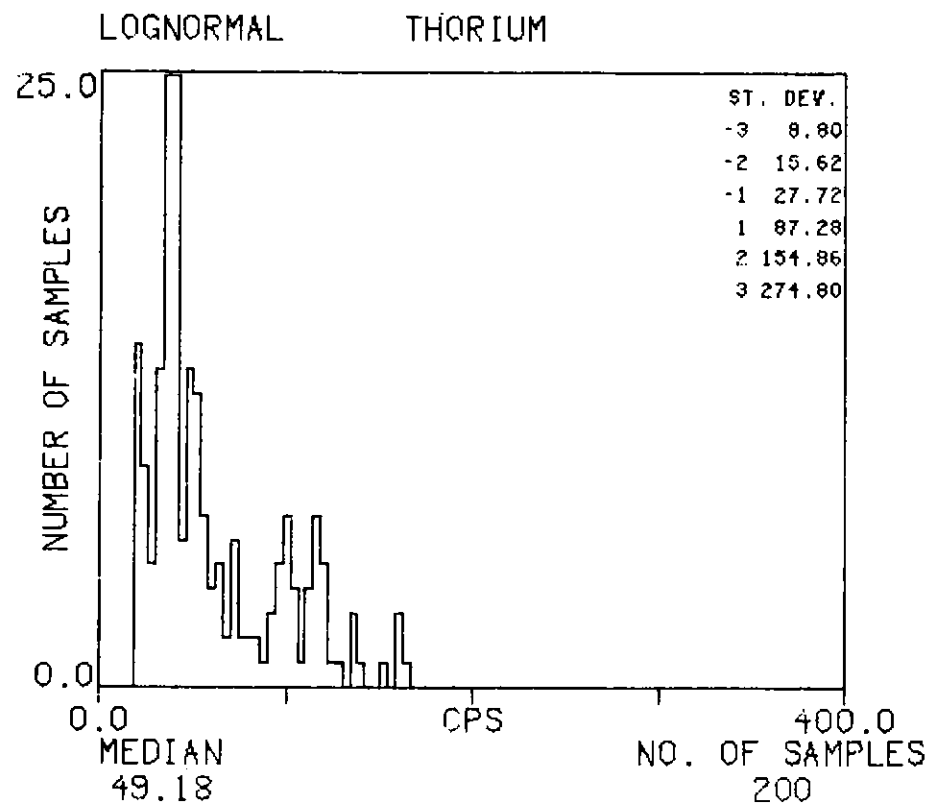
HISTOGRAMS : KC

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



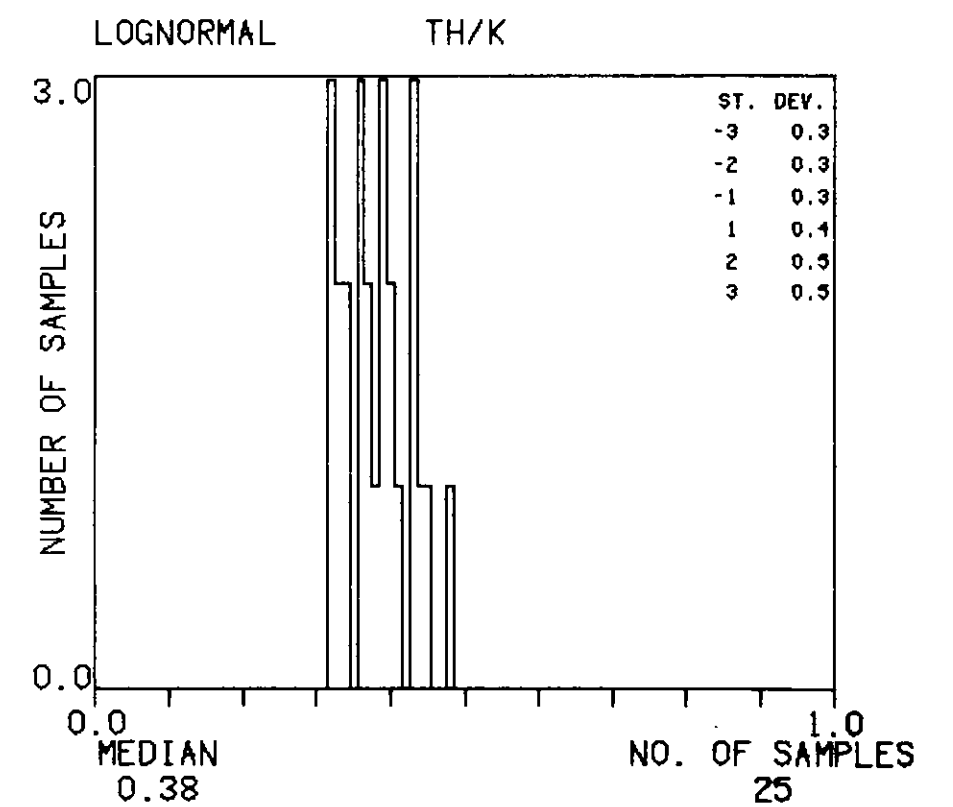
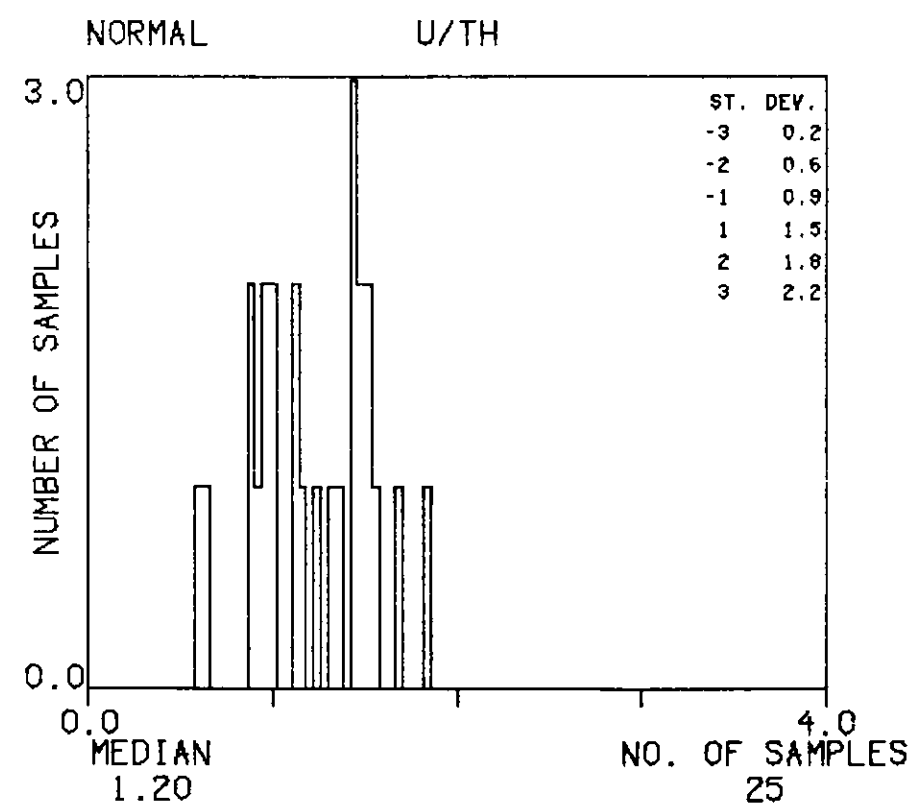
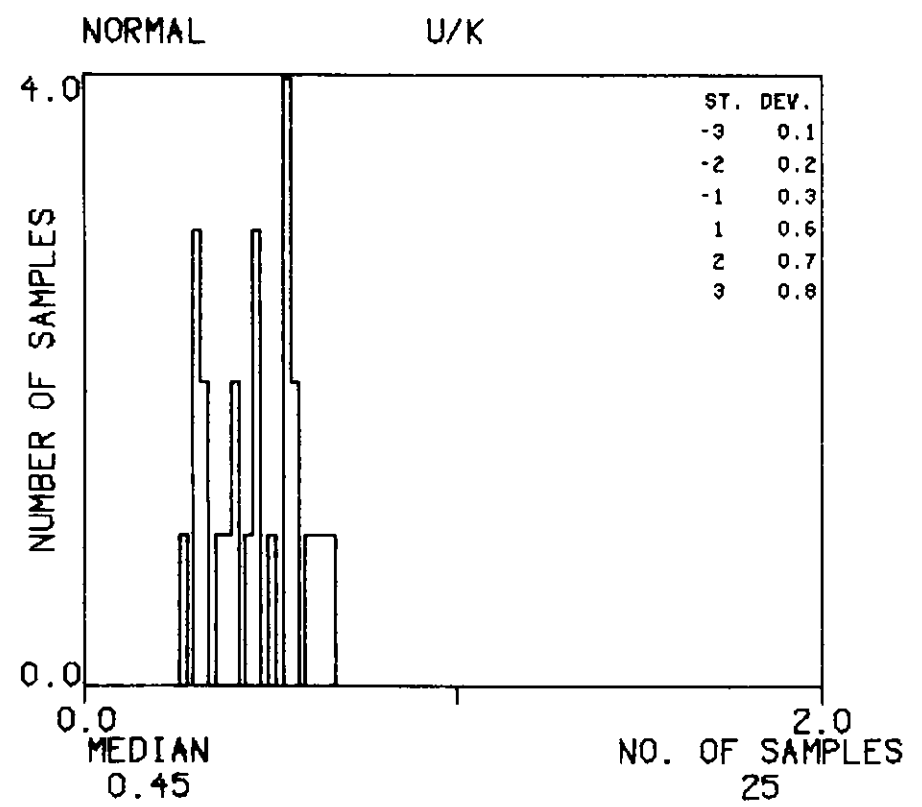
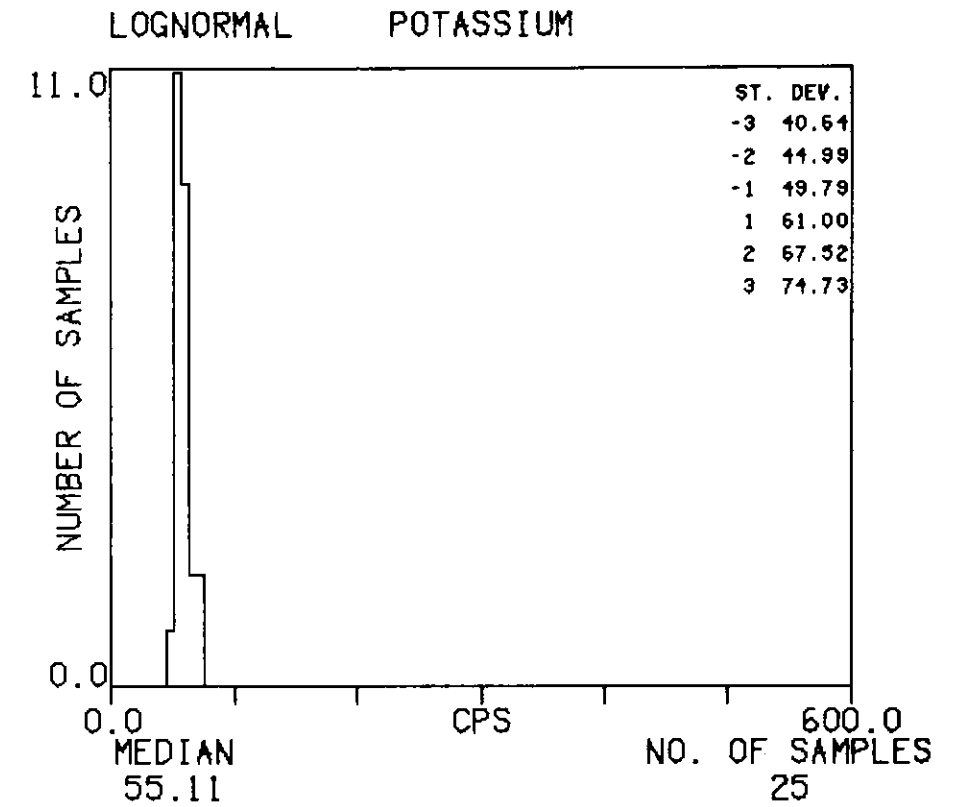
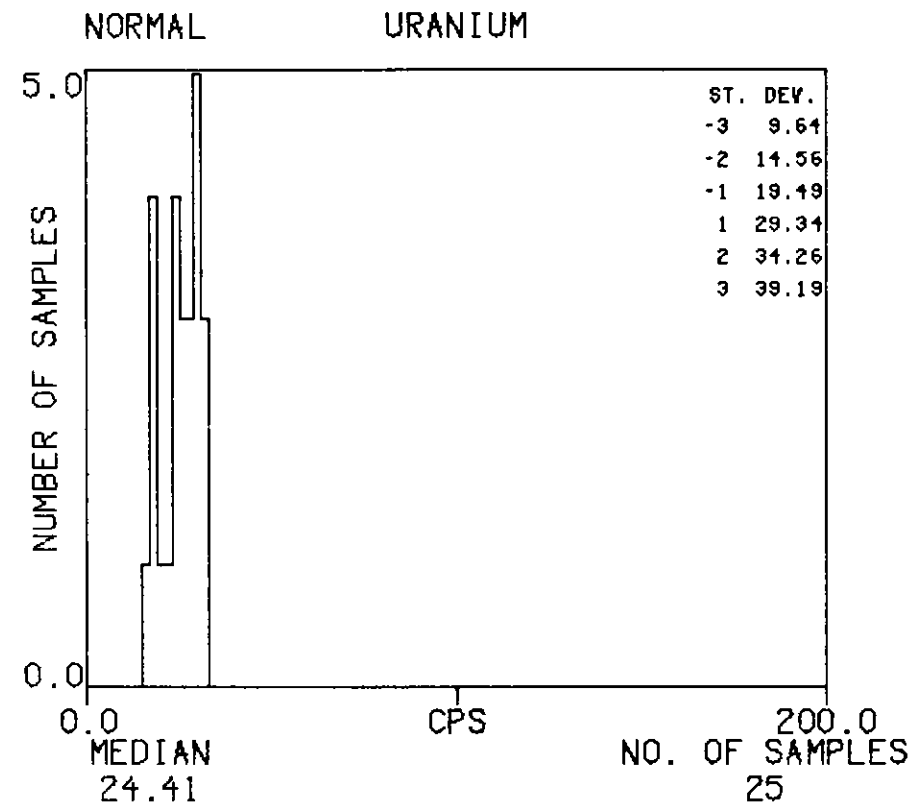
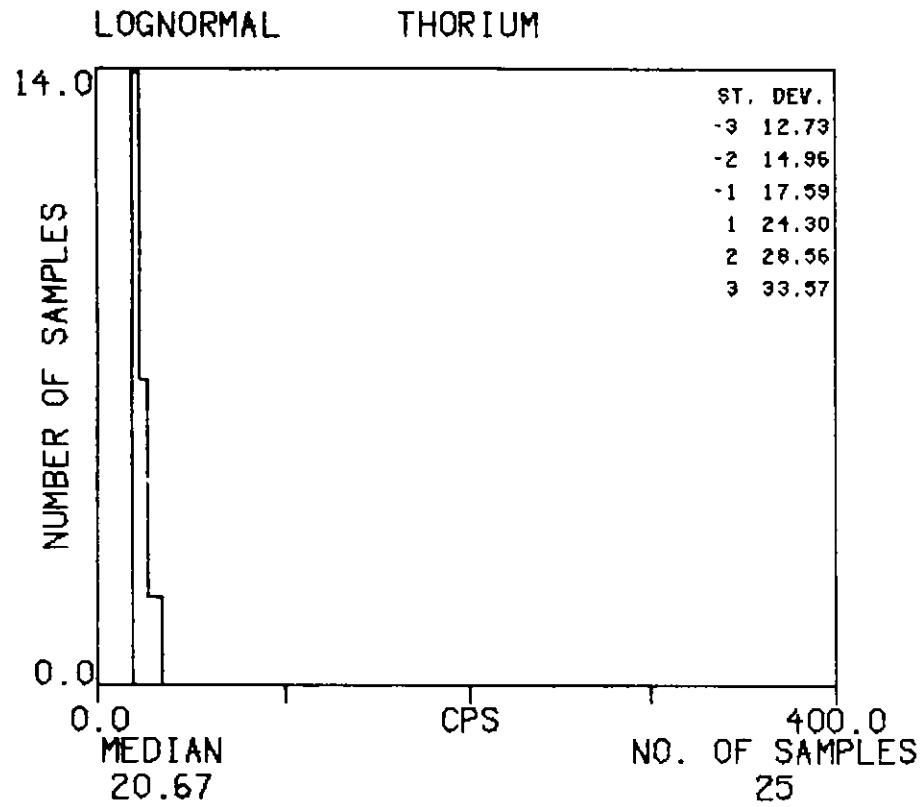
HISTOGRAMS : KBI

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



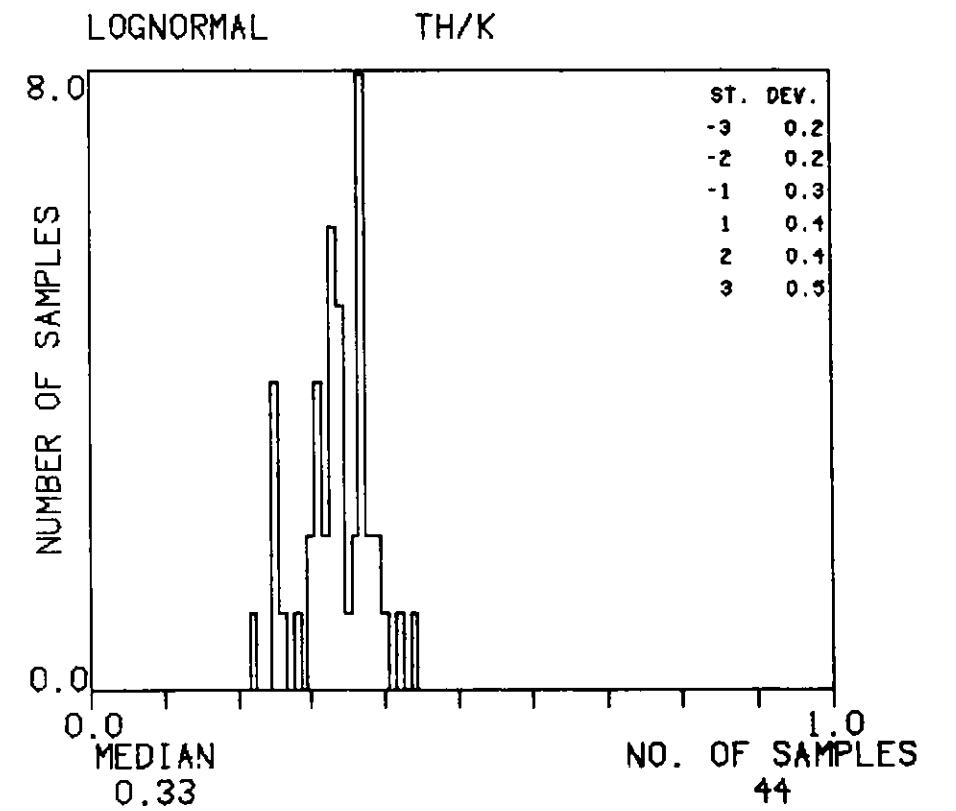
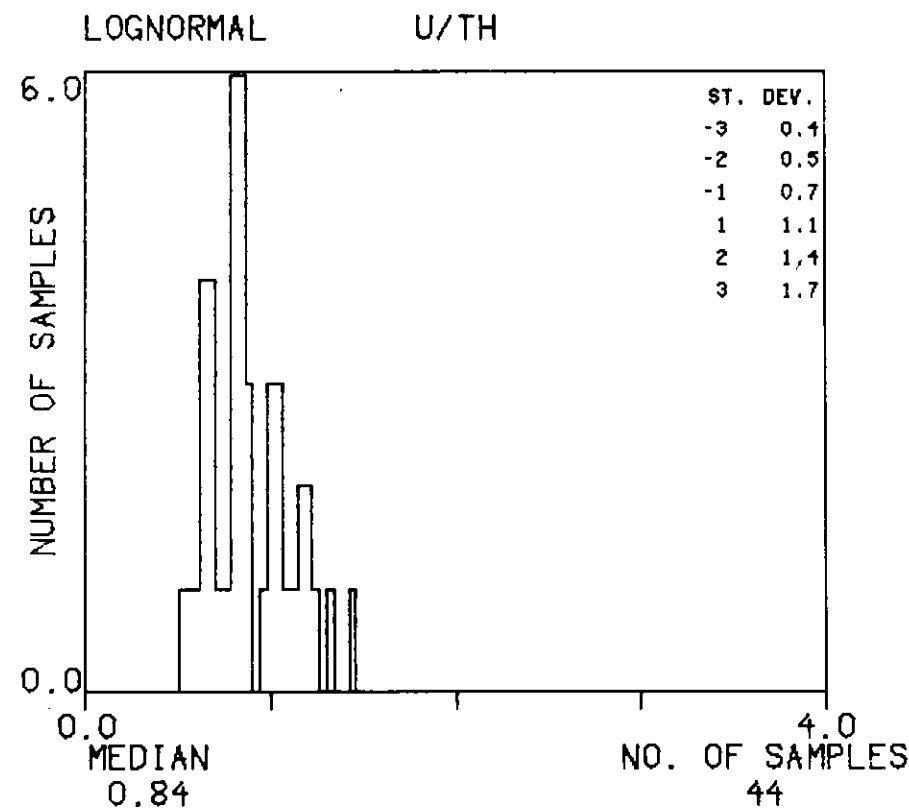
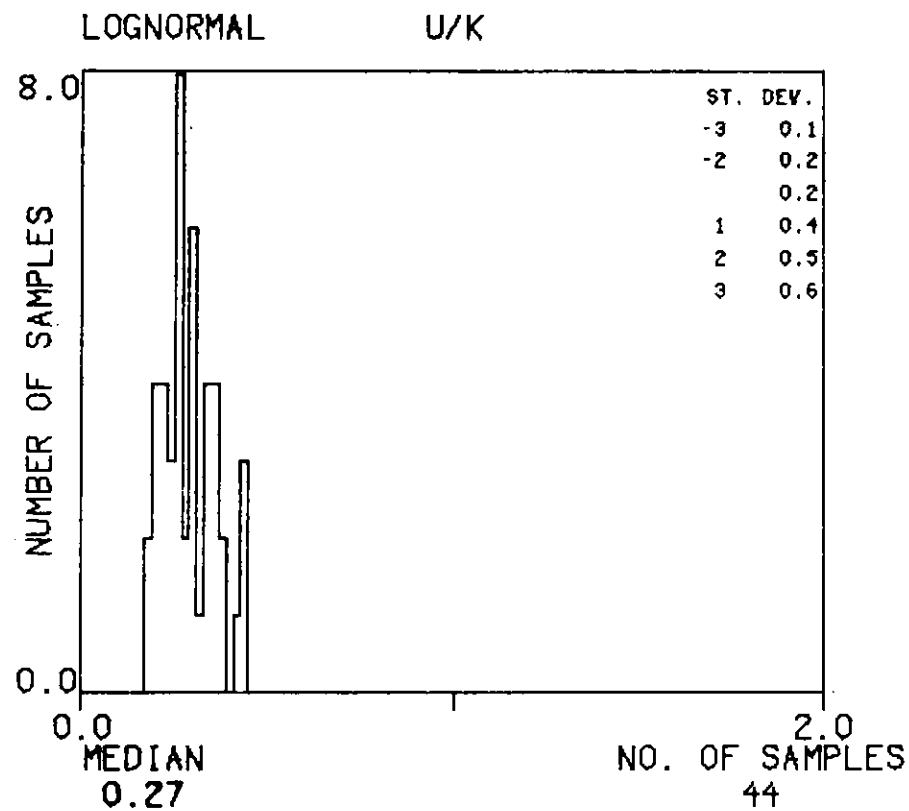
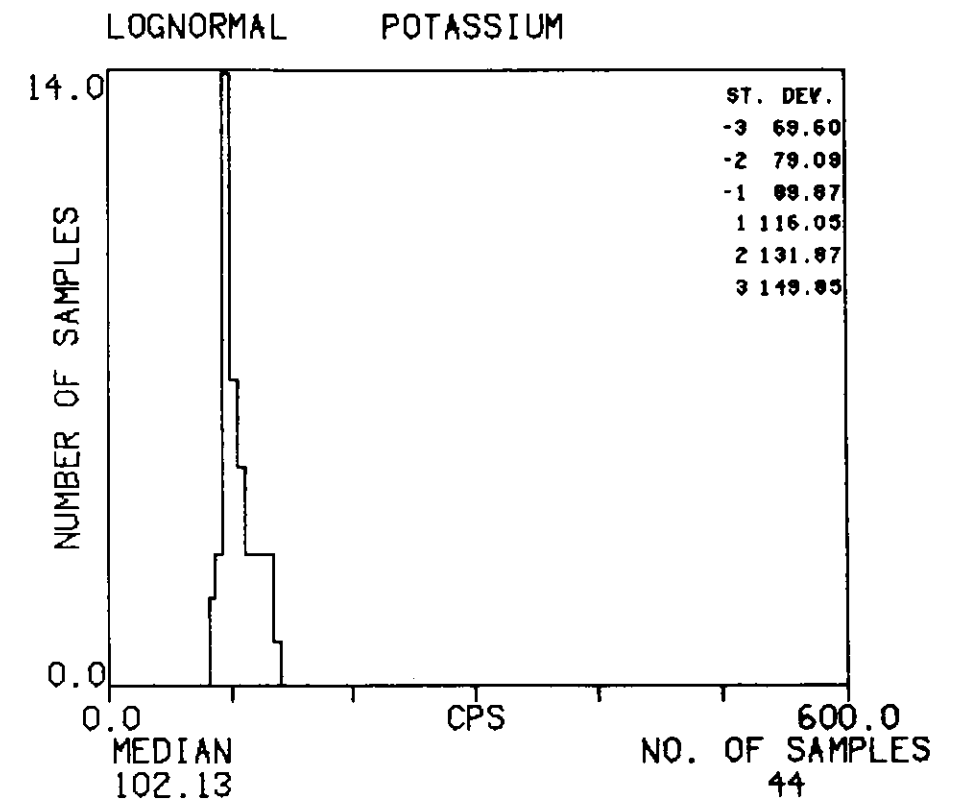
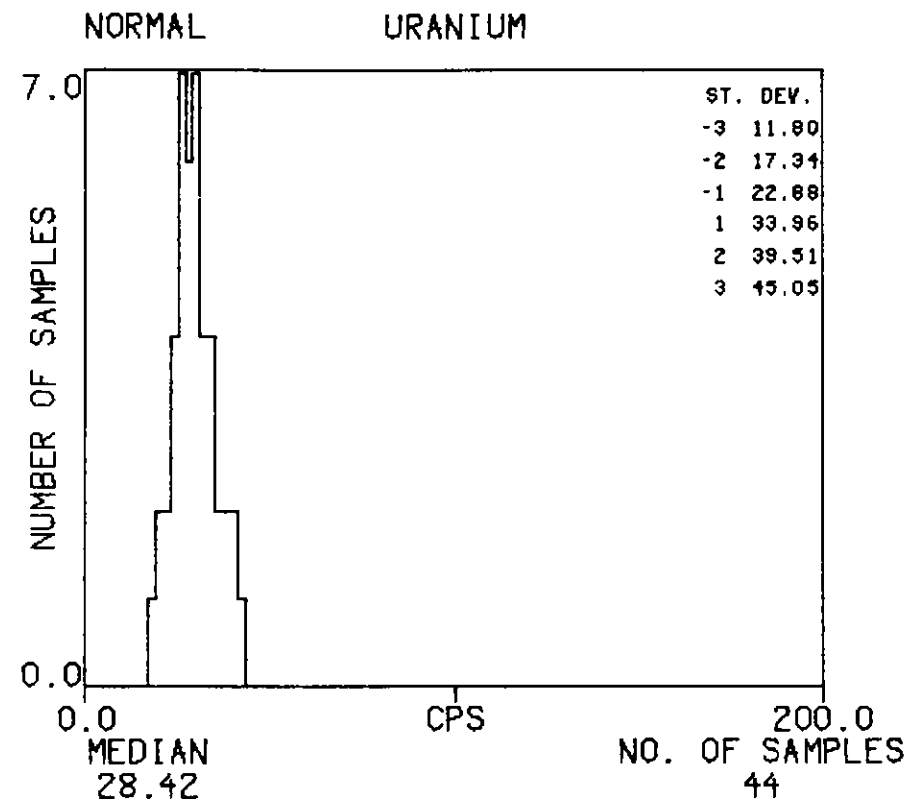
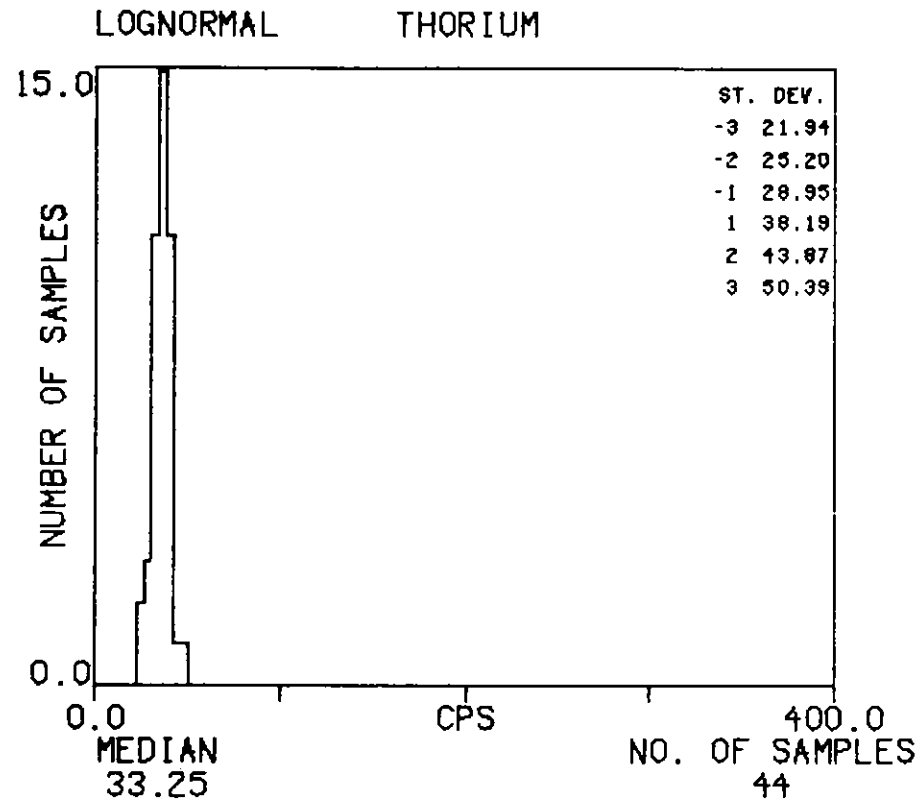
HISTOGRAMS : KBI-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



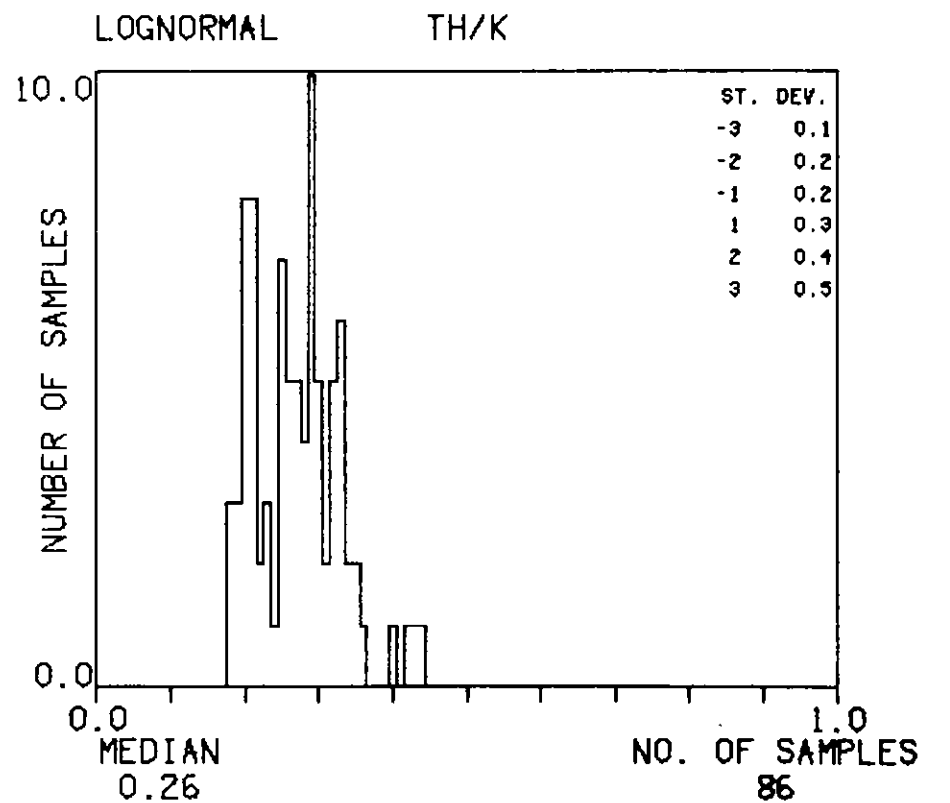
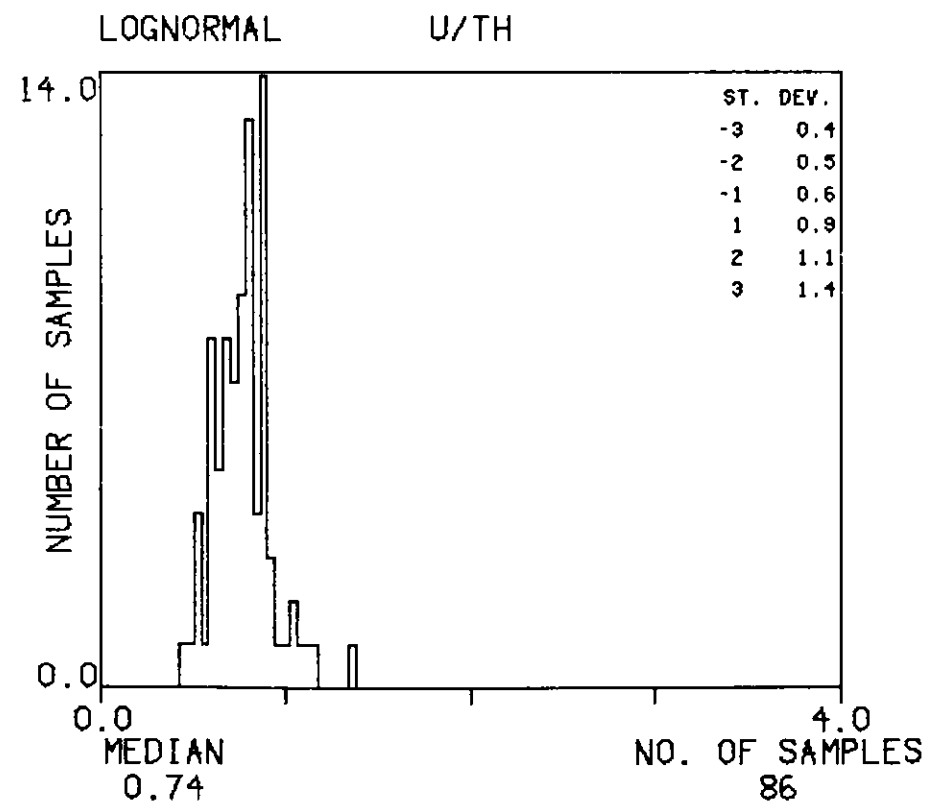
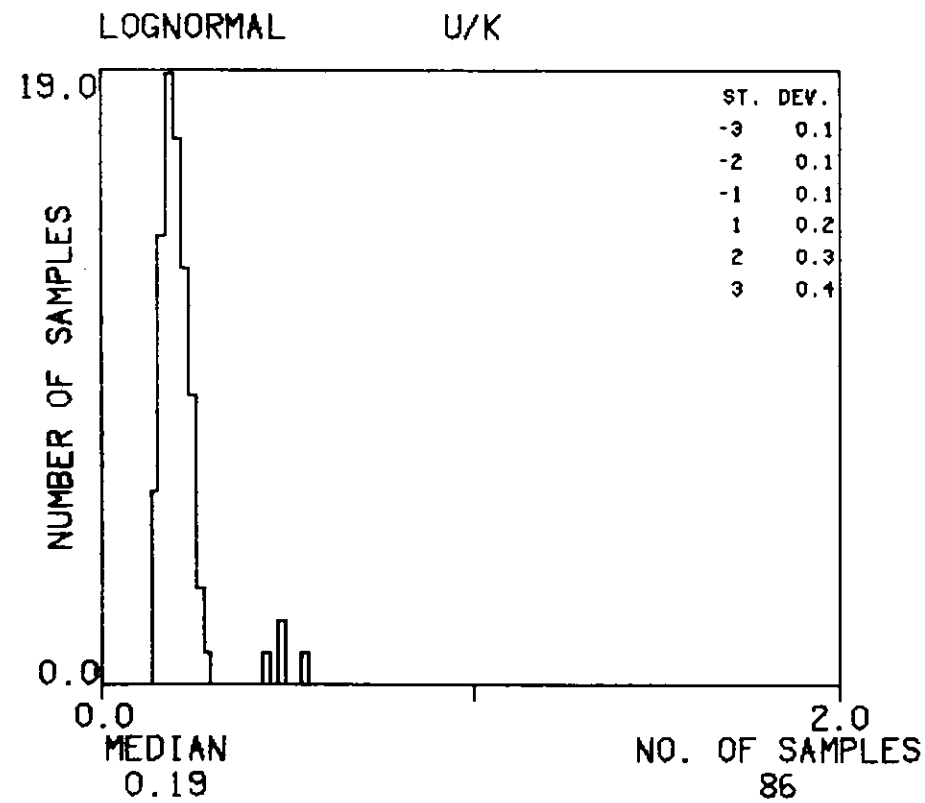
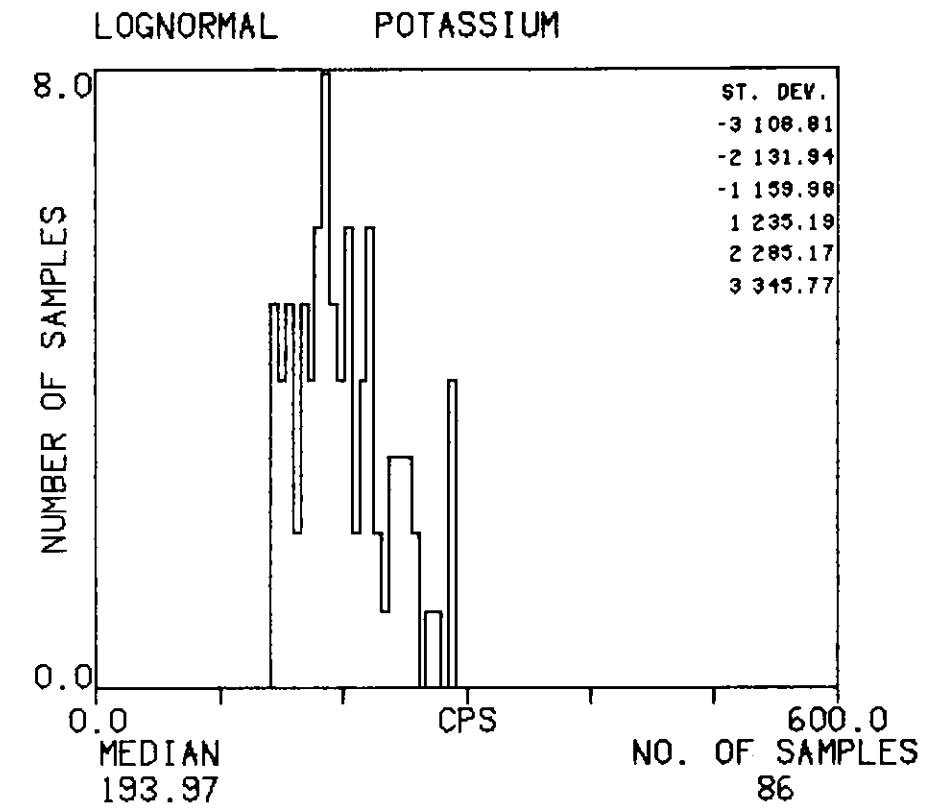
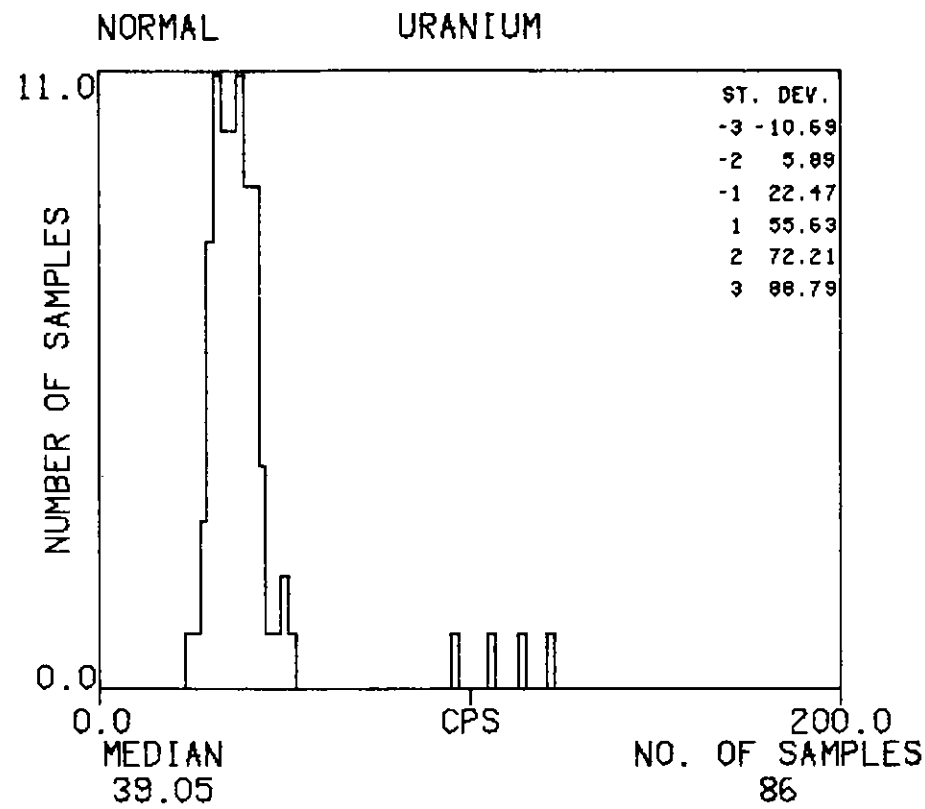
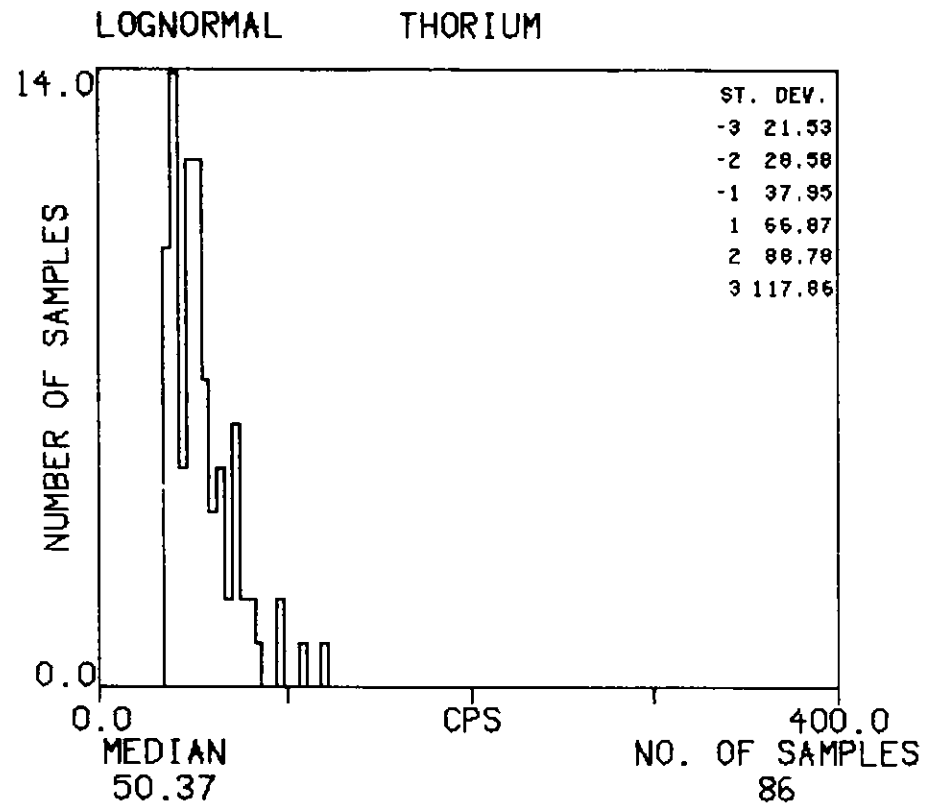
HISTOGRAMS : KBI-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



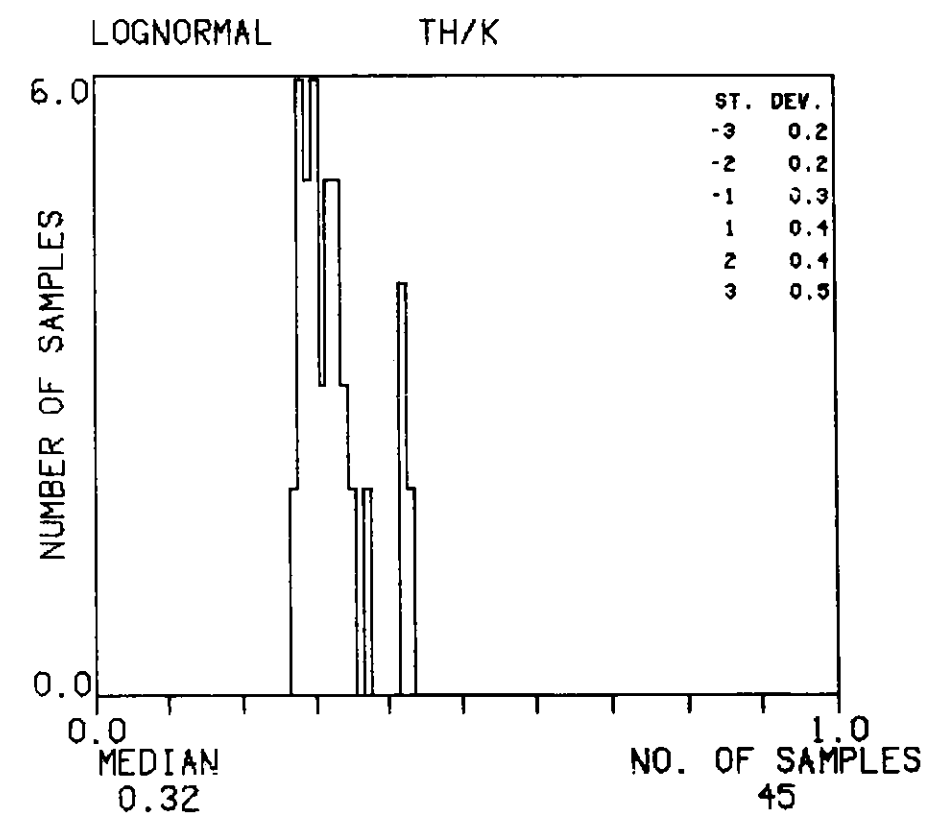
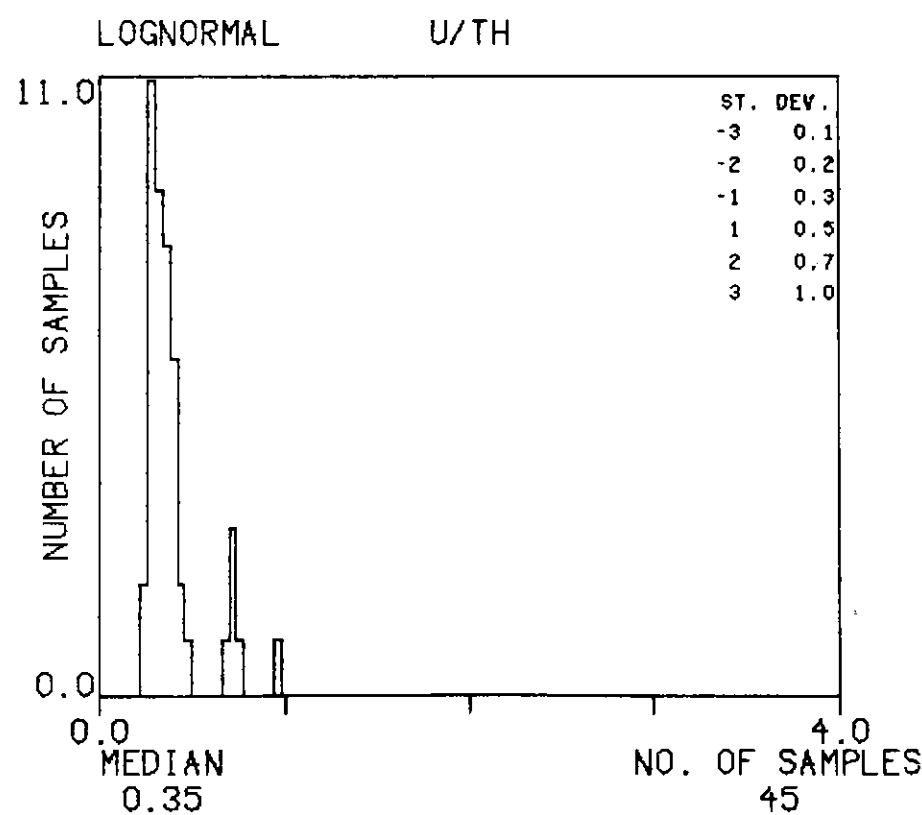
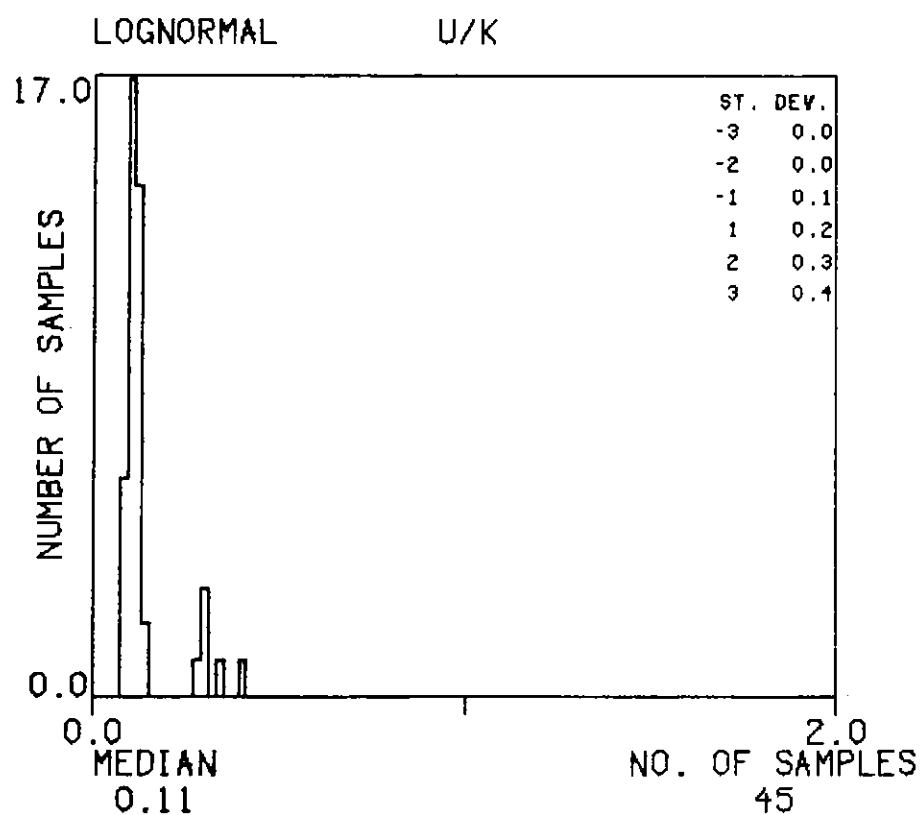
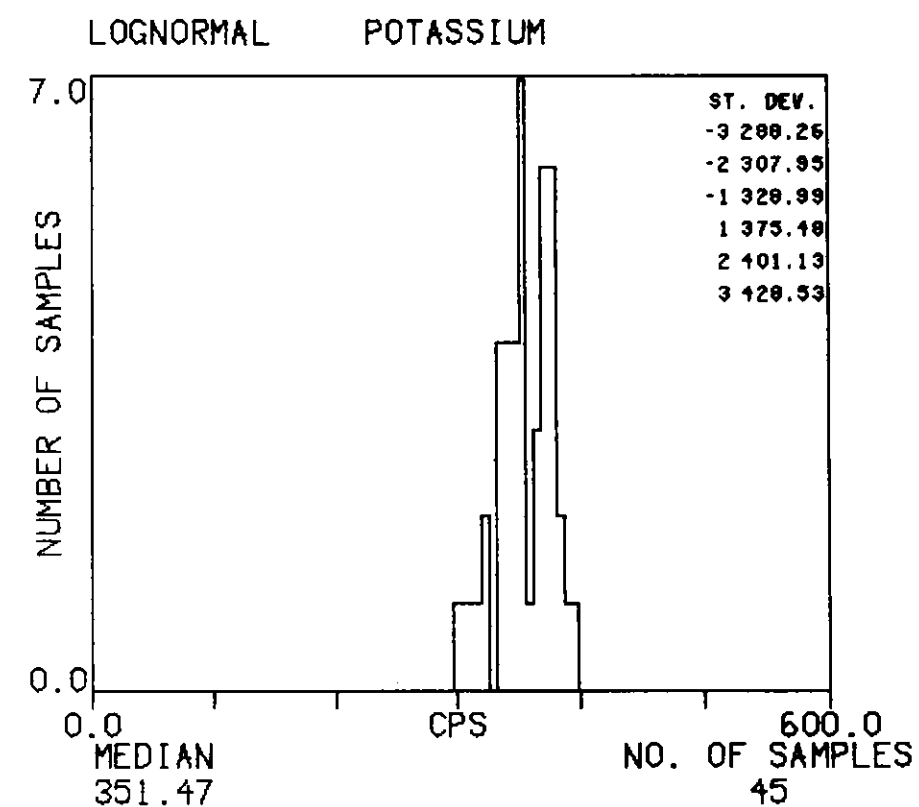
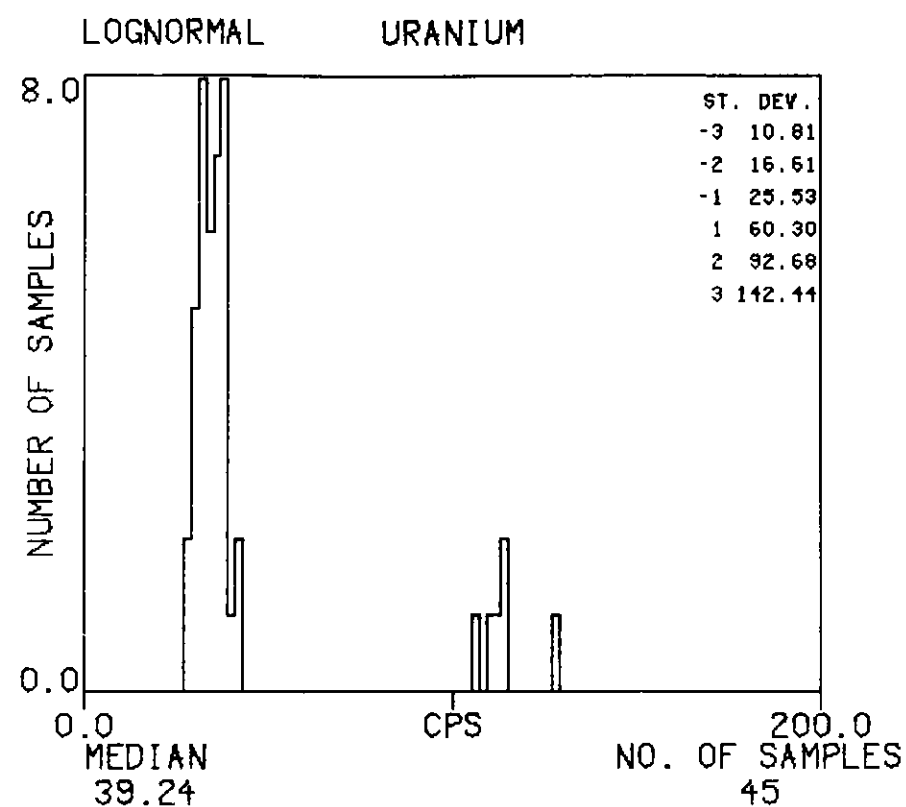
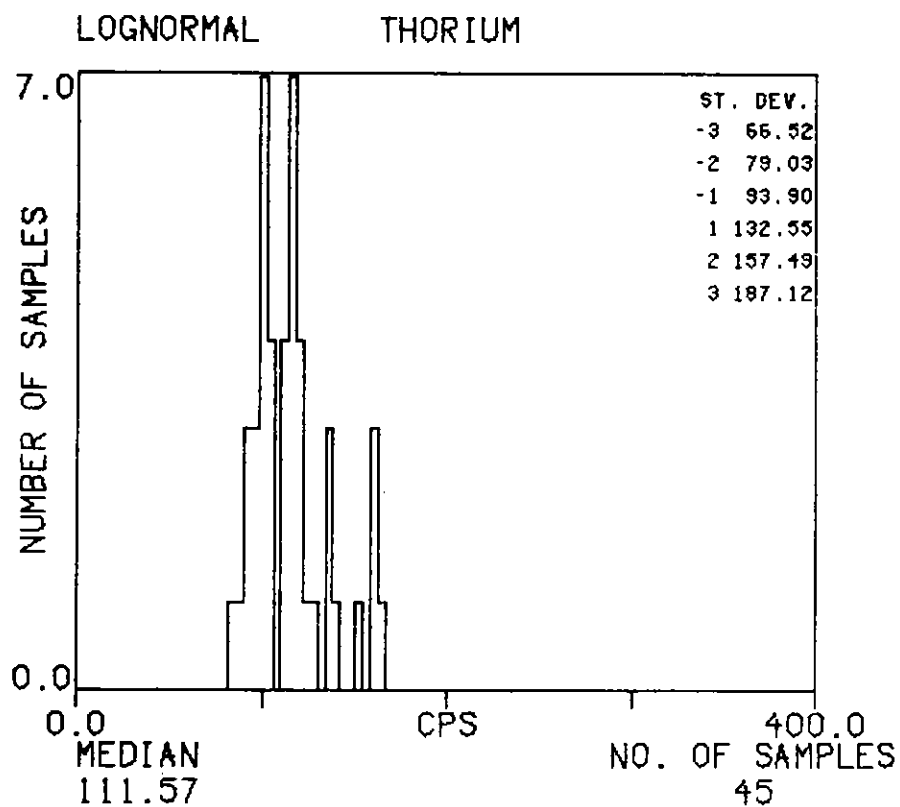
HISTOGRAMS : KBI-3

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



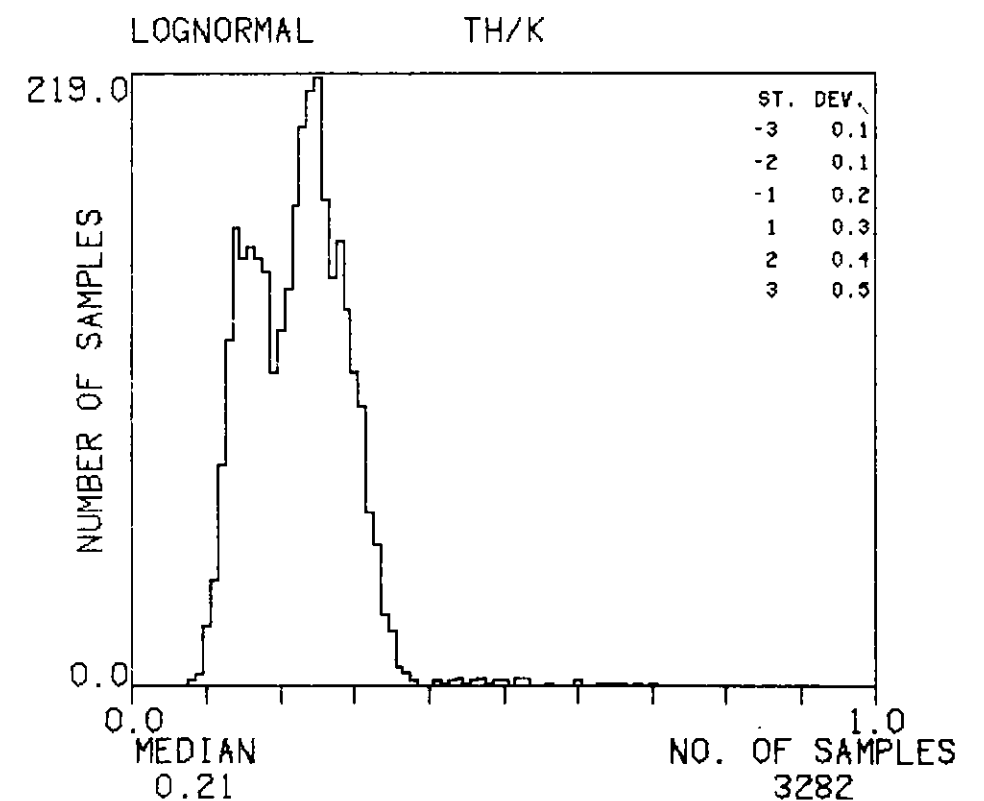
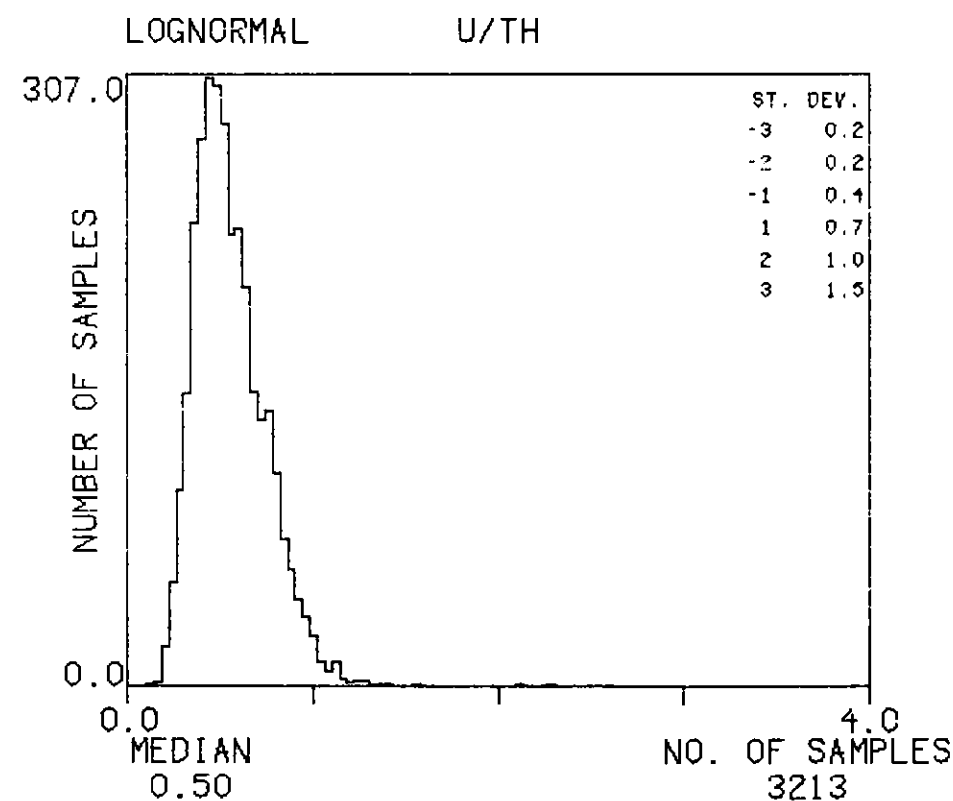
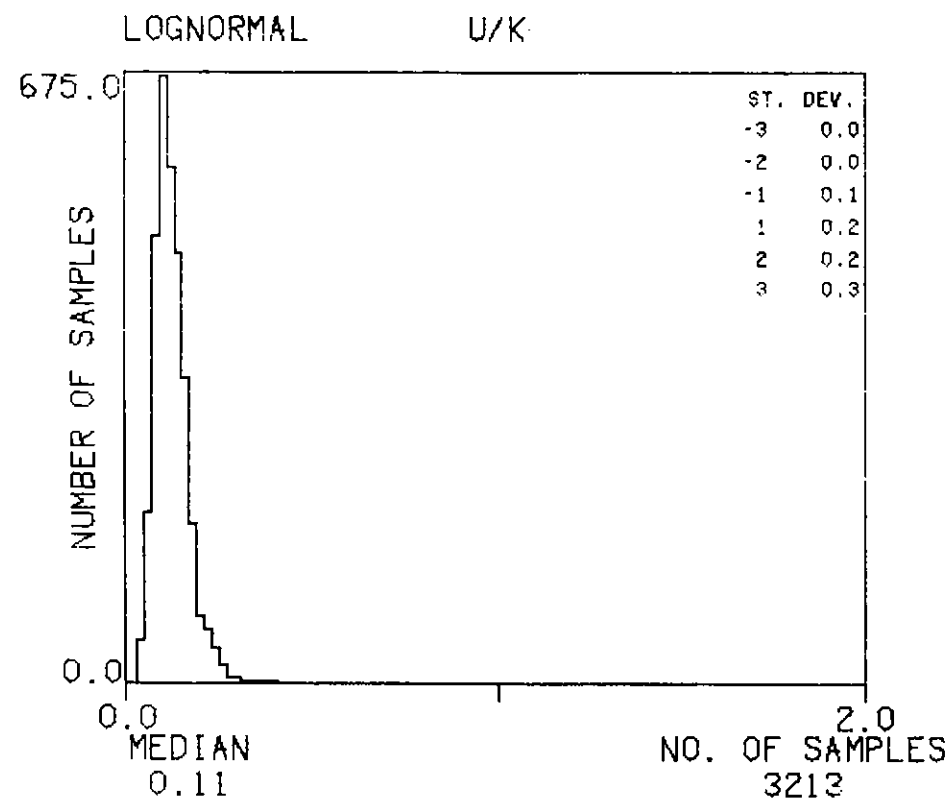
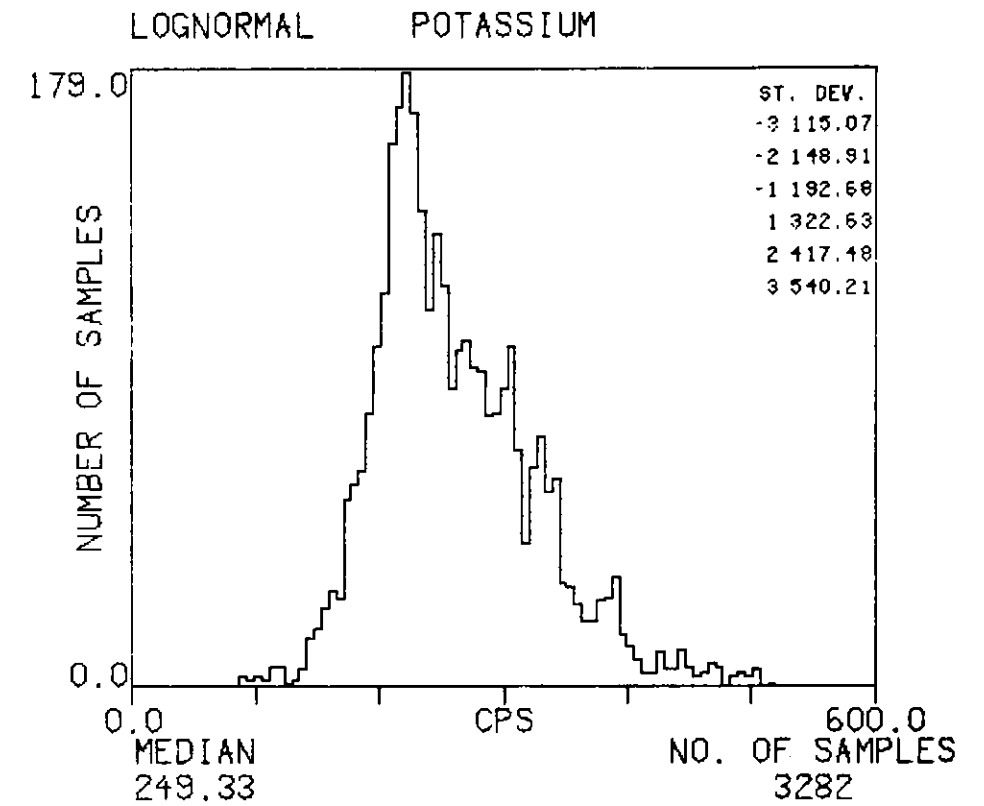
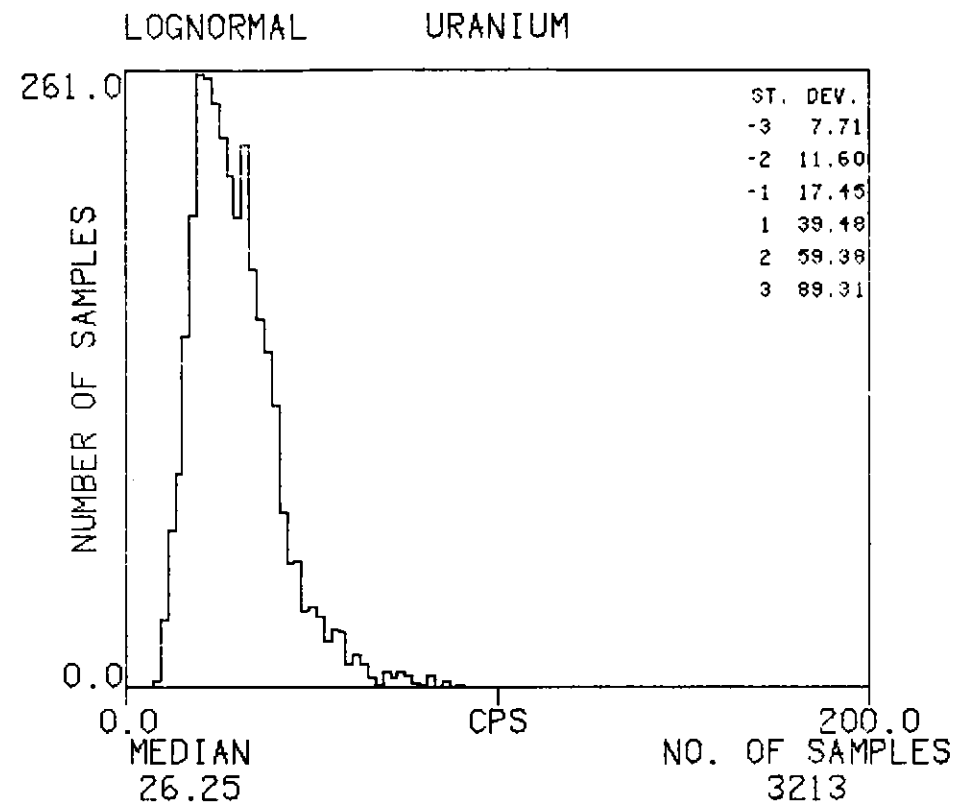
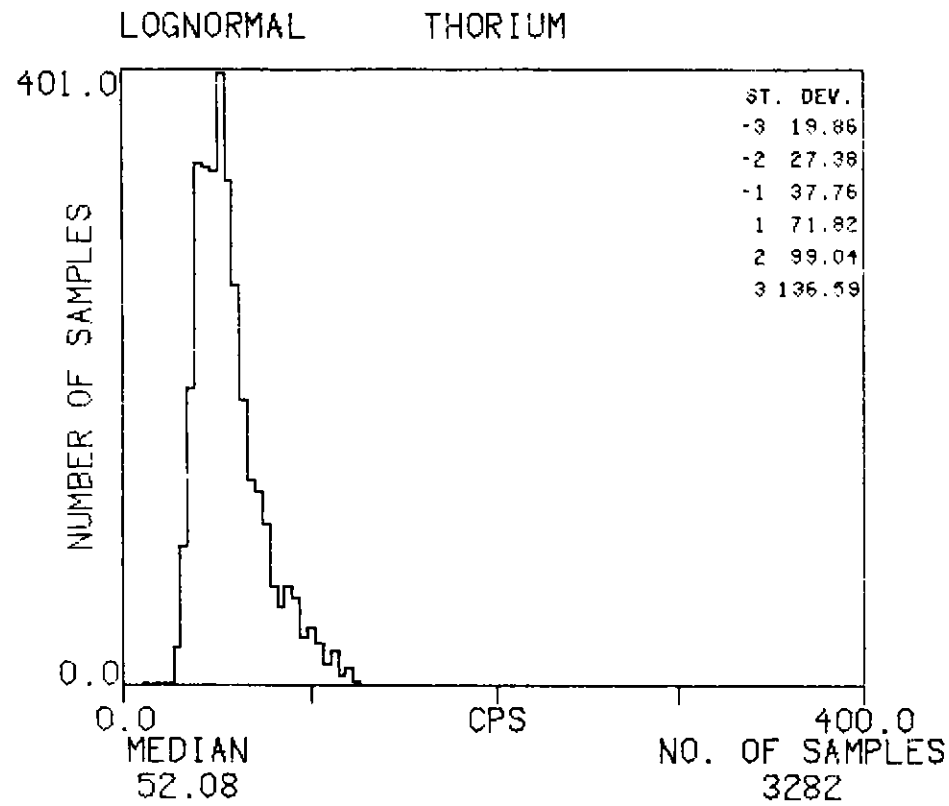
HISTOGRAMS : KBI-4

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



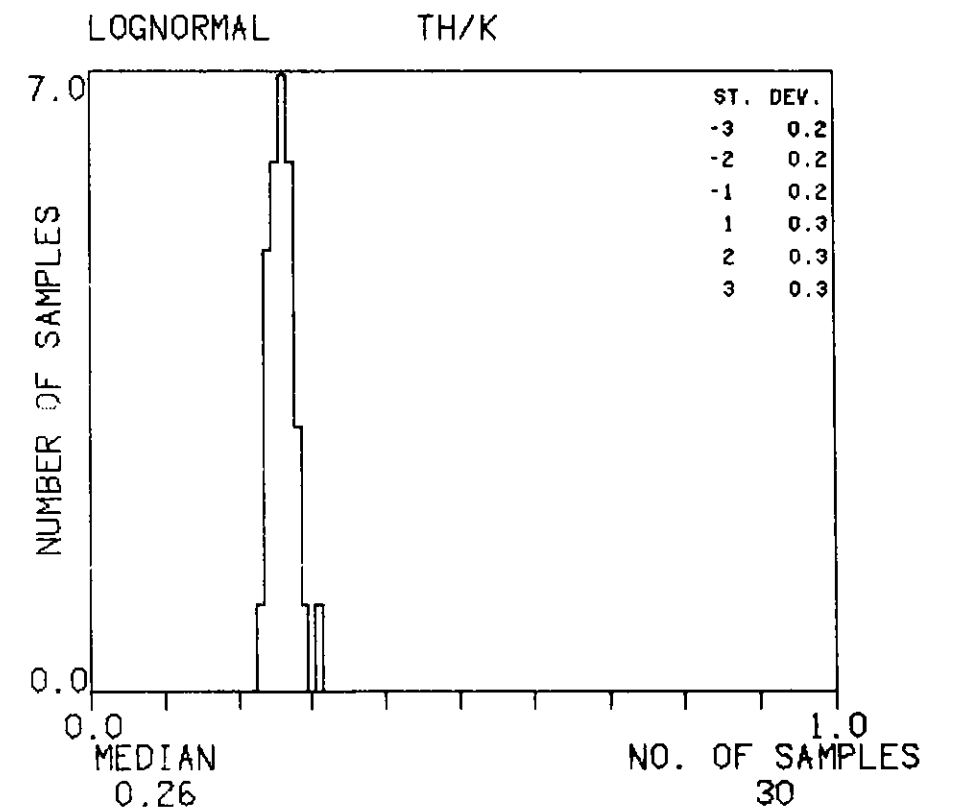
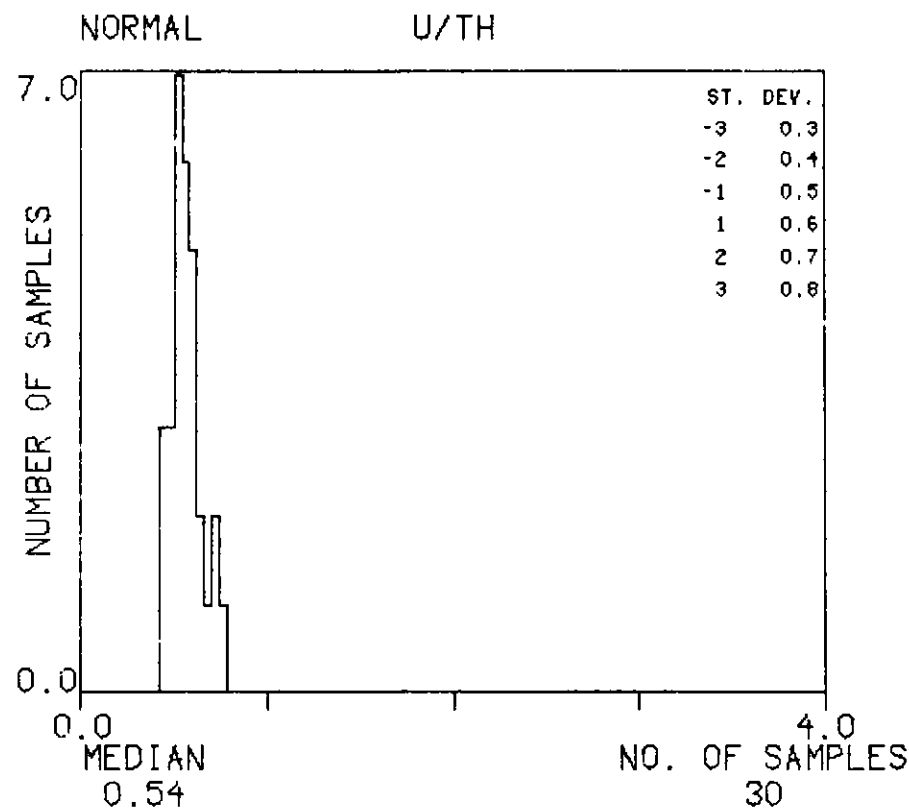
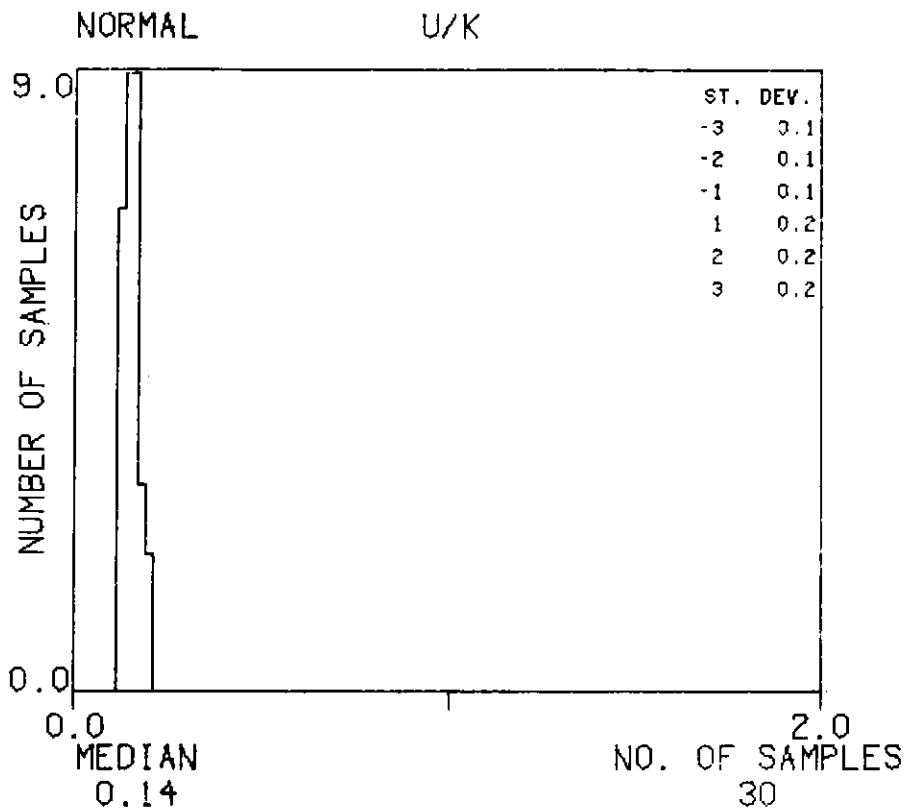
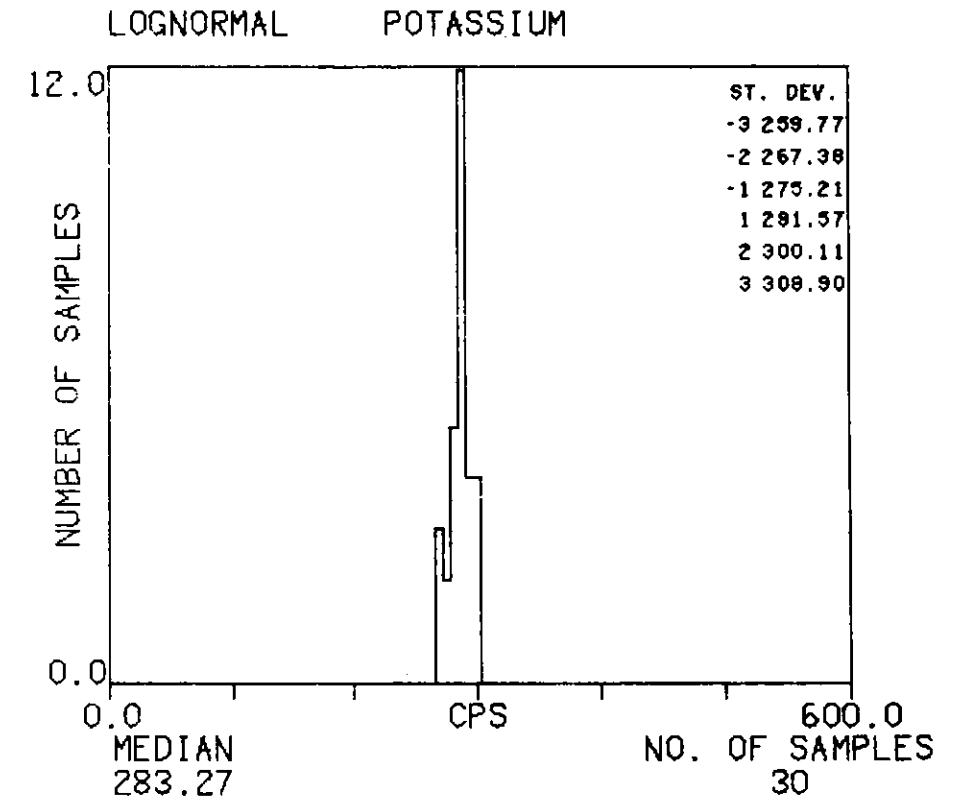
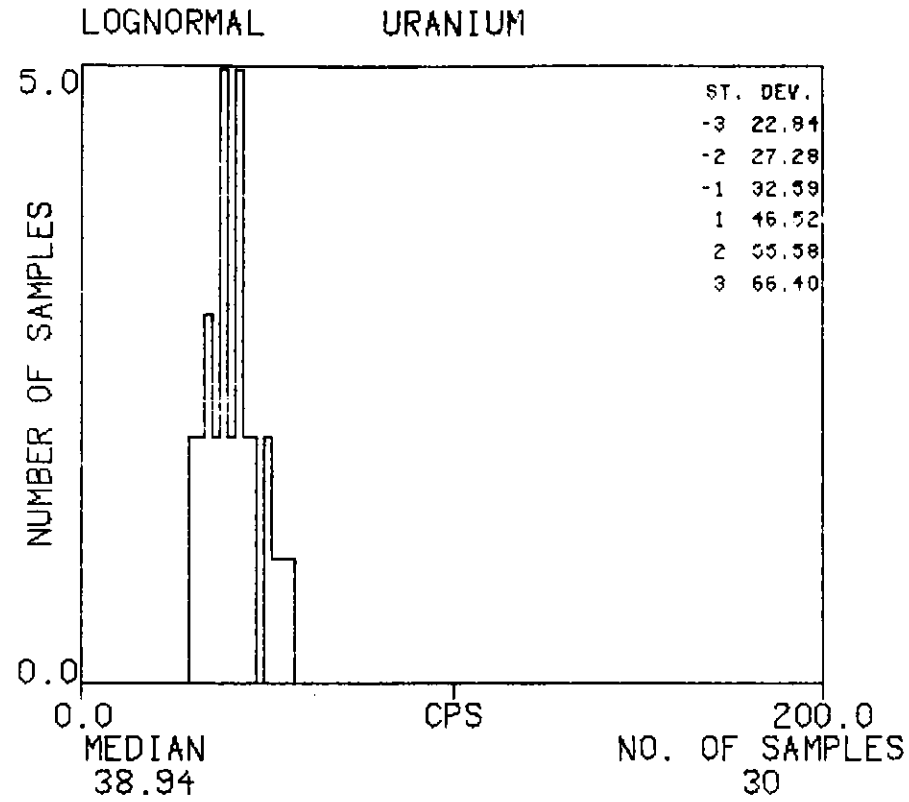
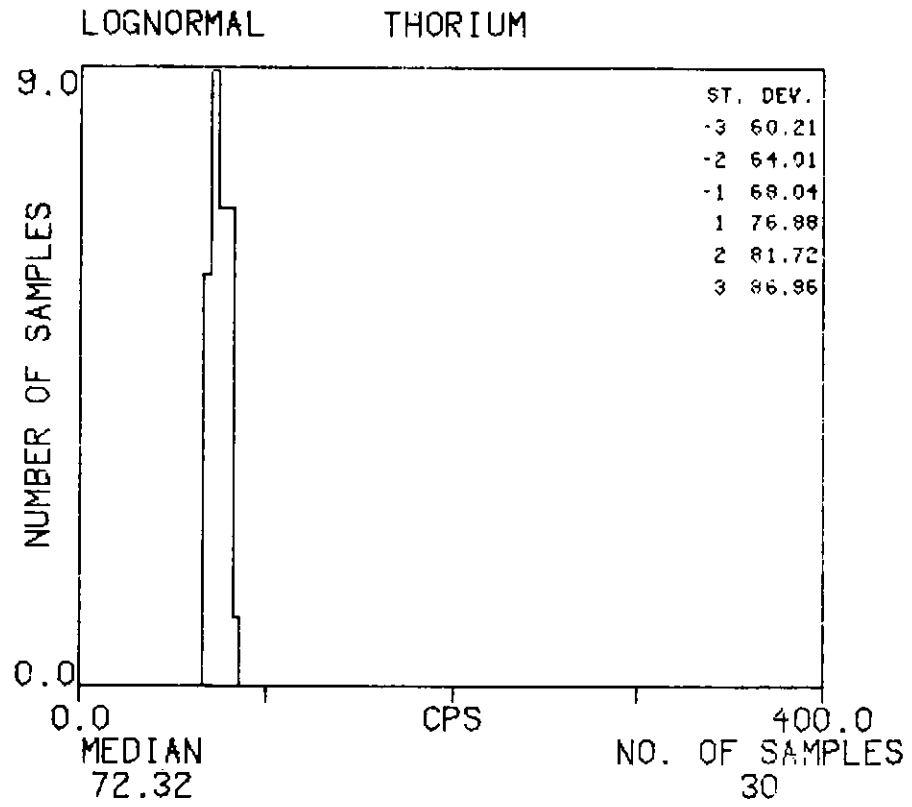
HISTOGRAMS : KV

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



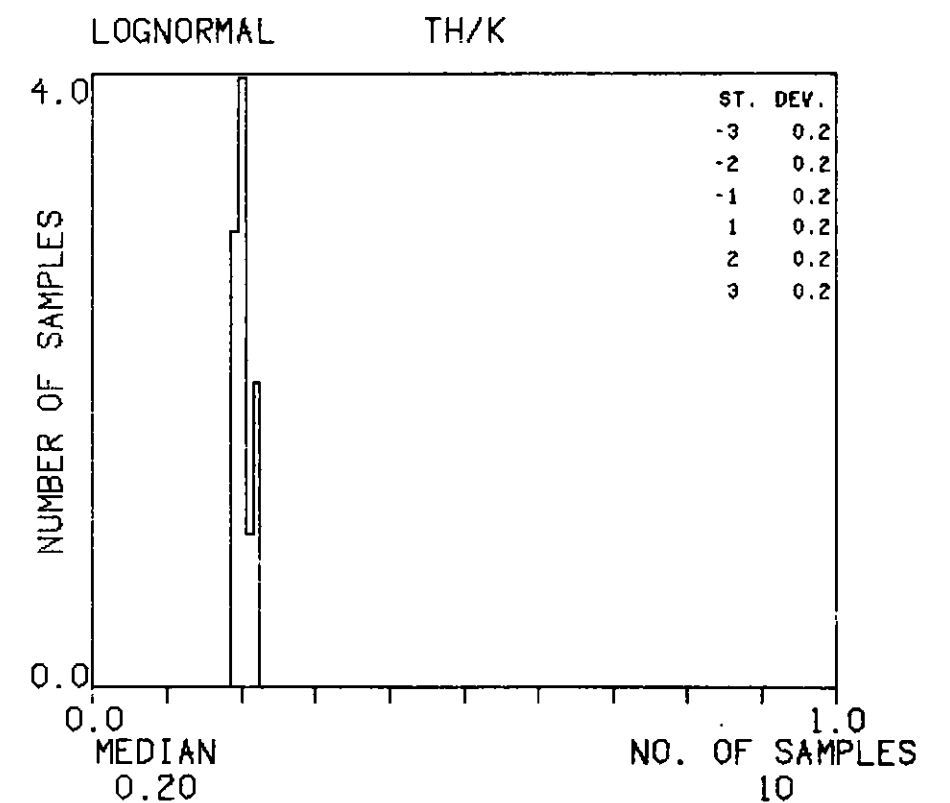
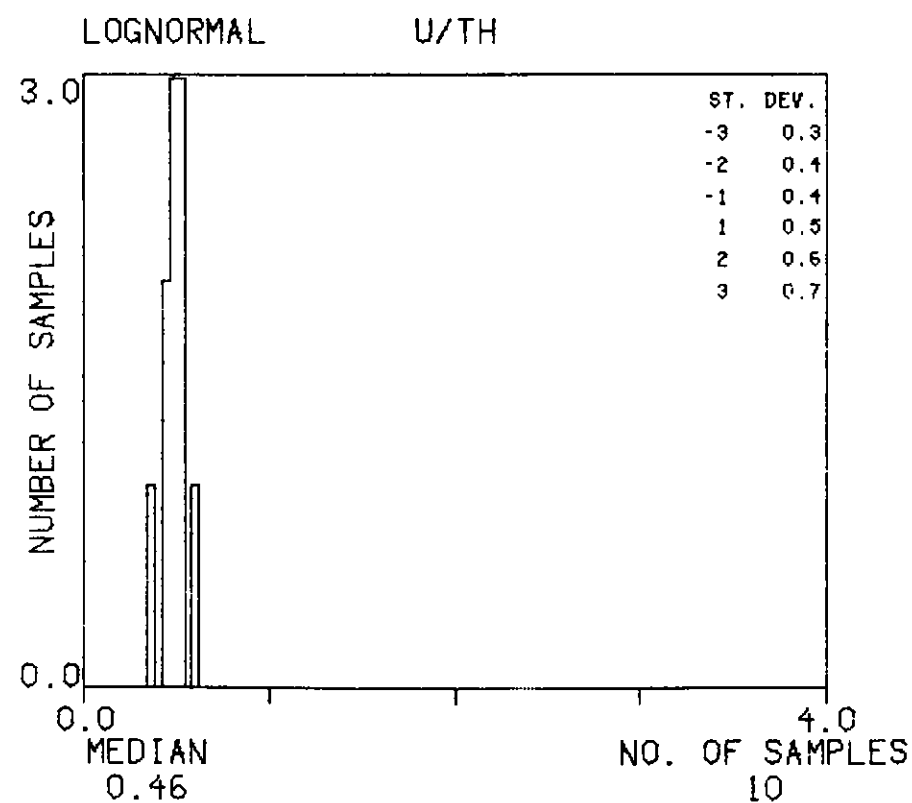
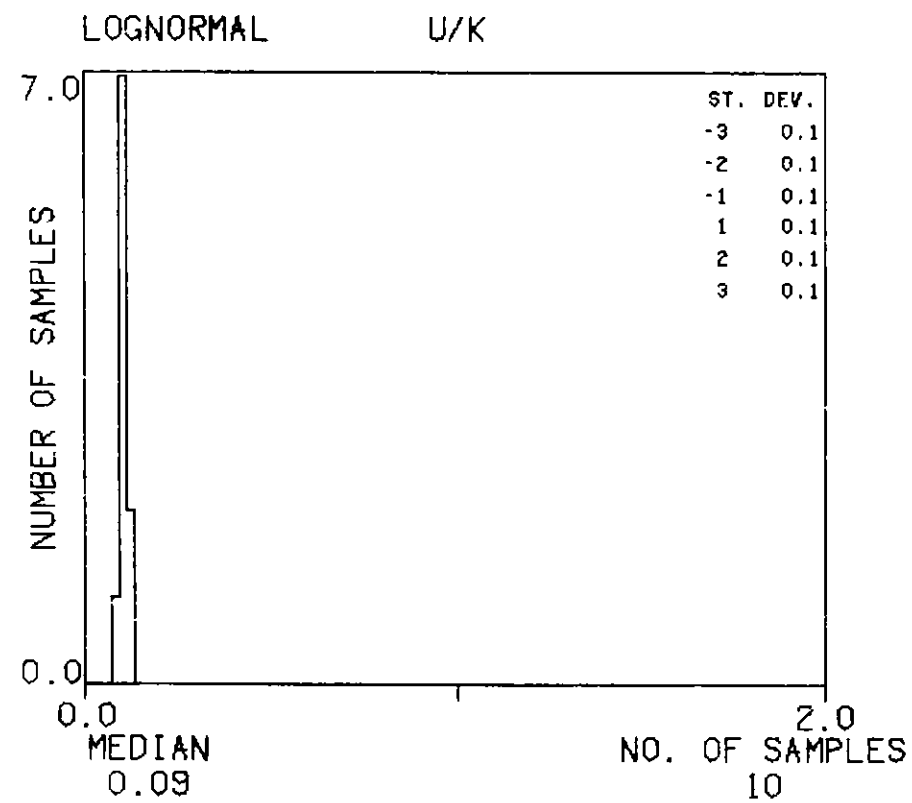
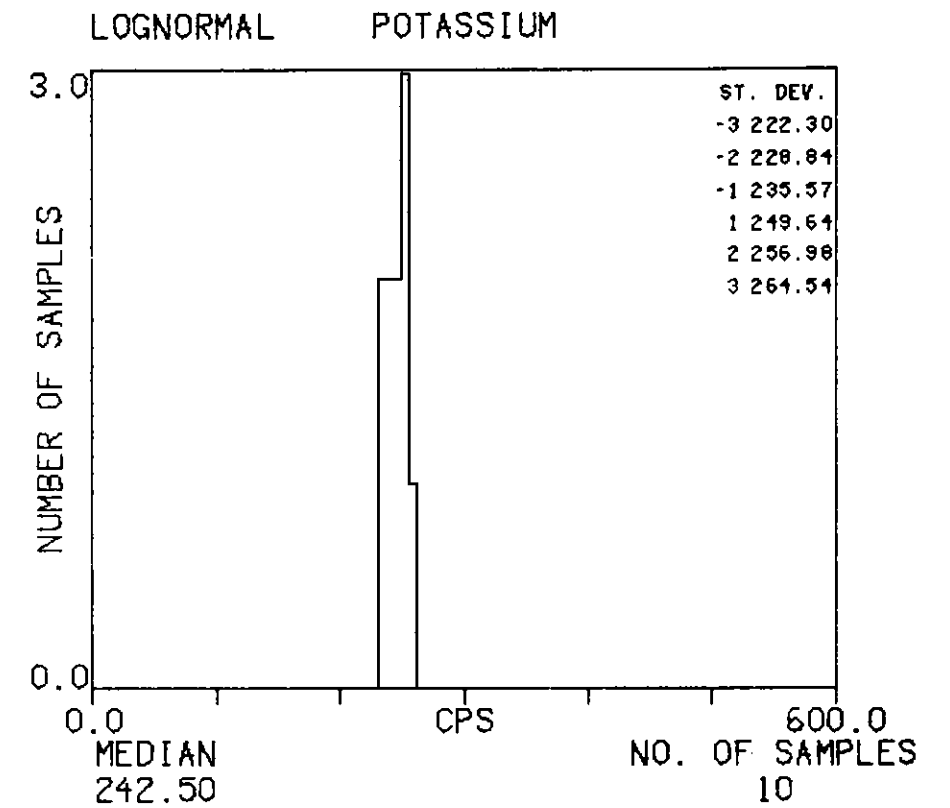
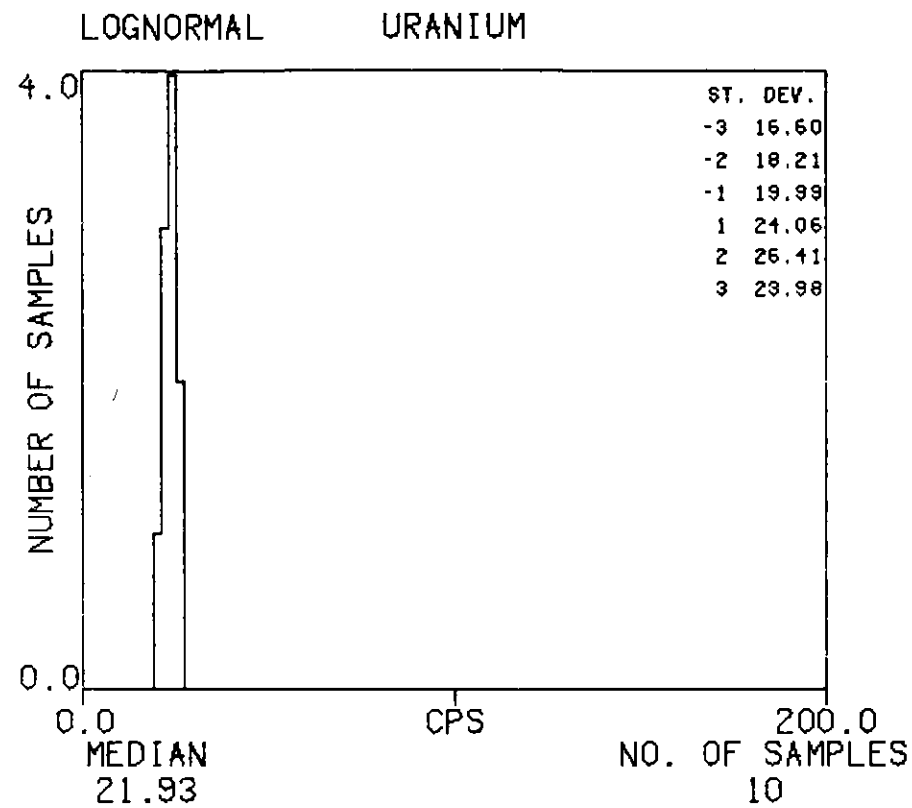
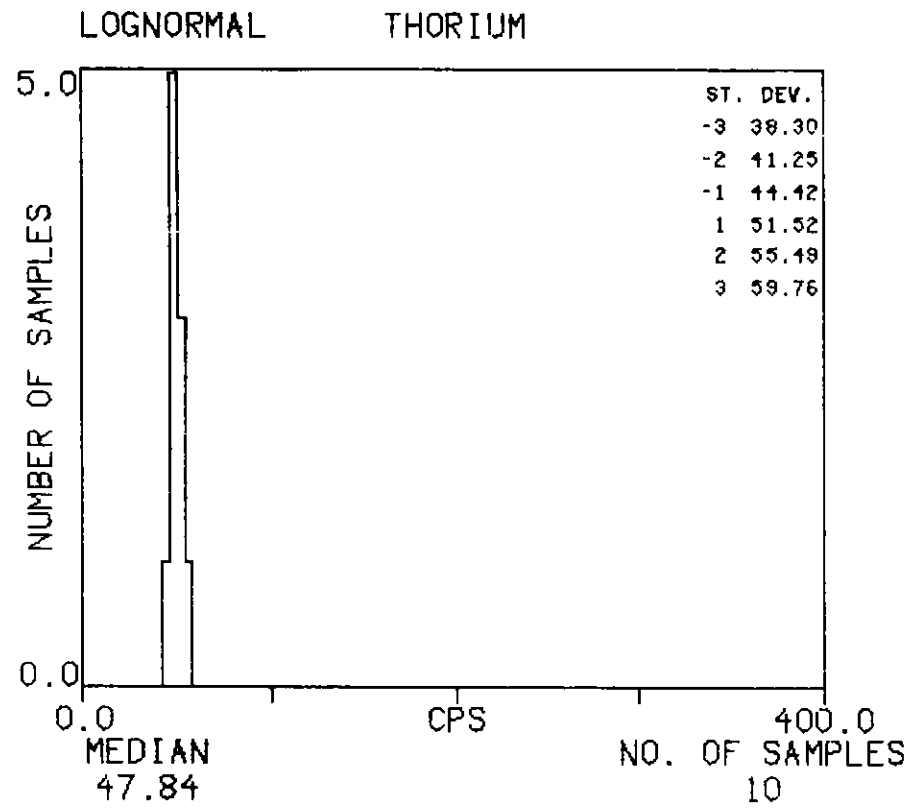
HISTOGRAMS : KGD

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



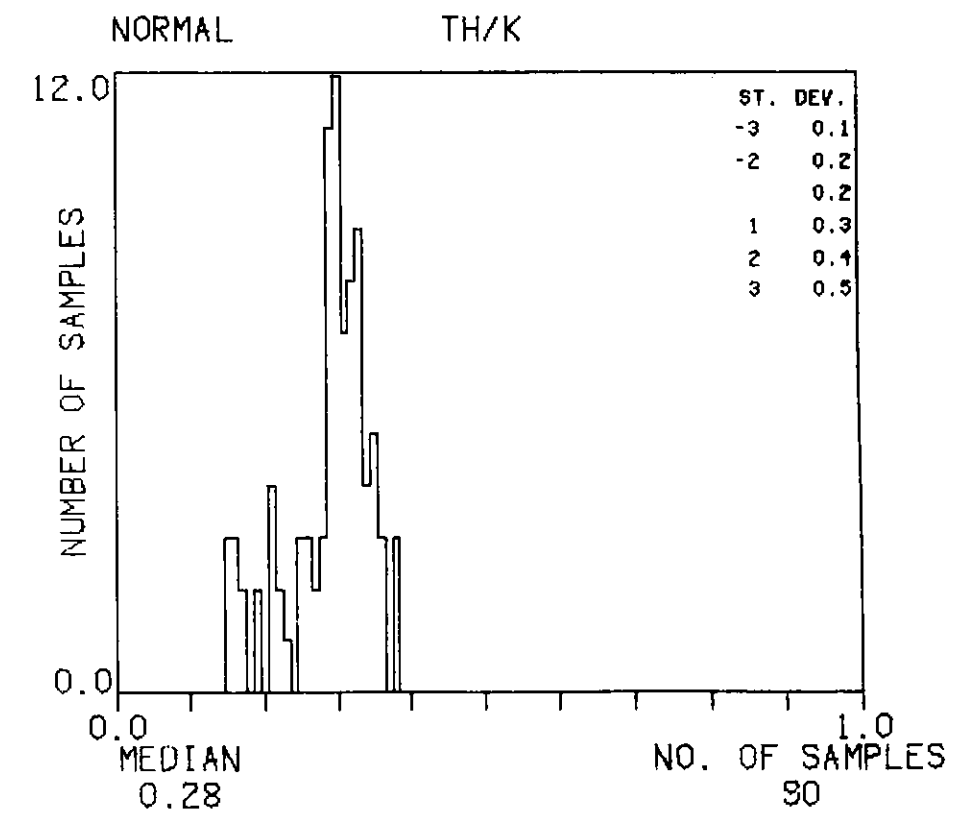
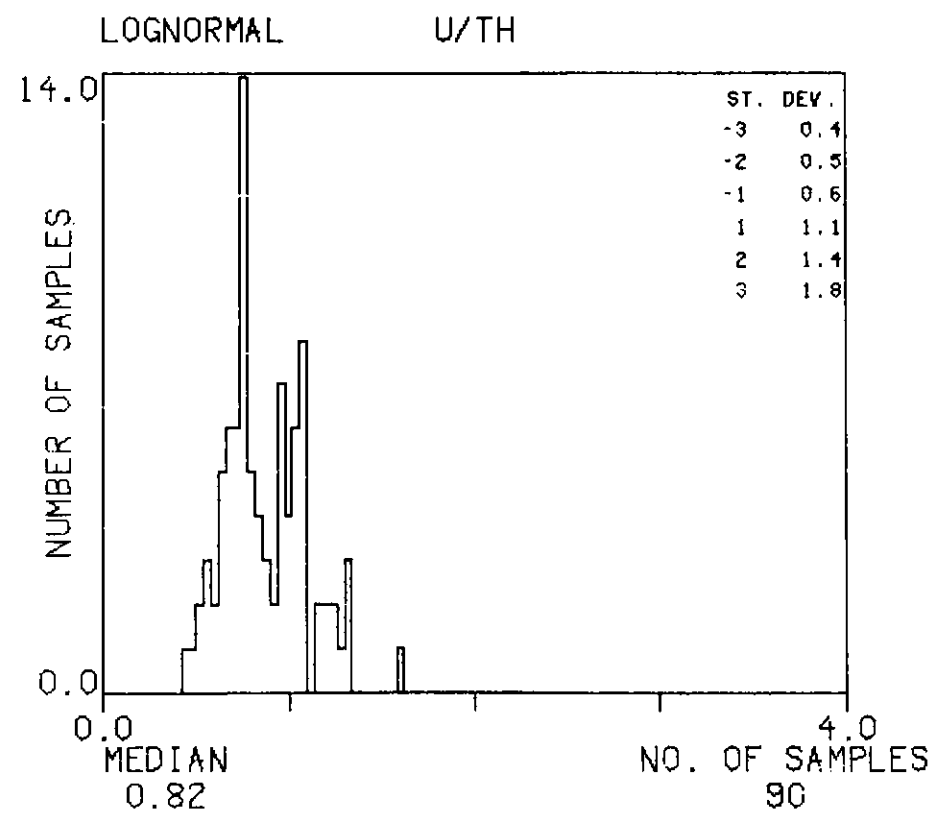
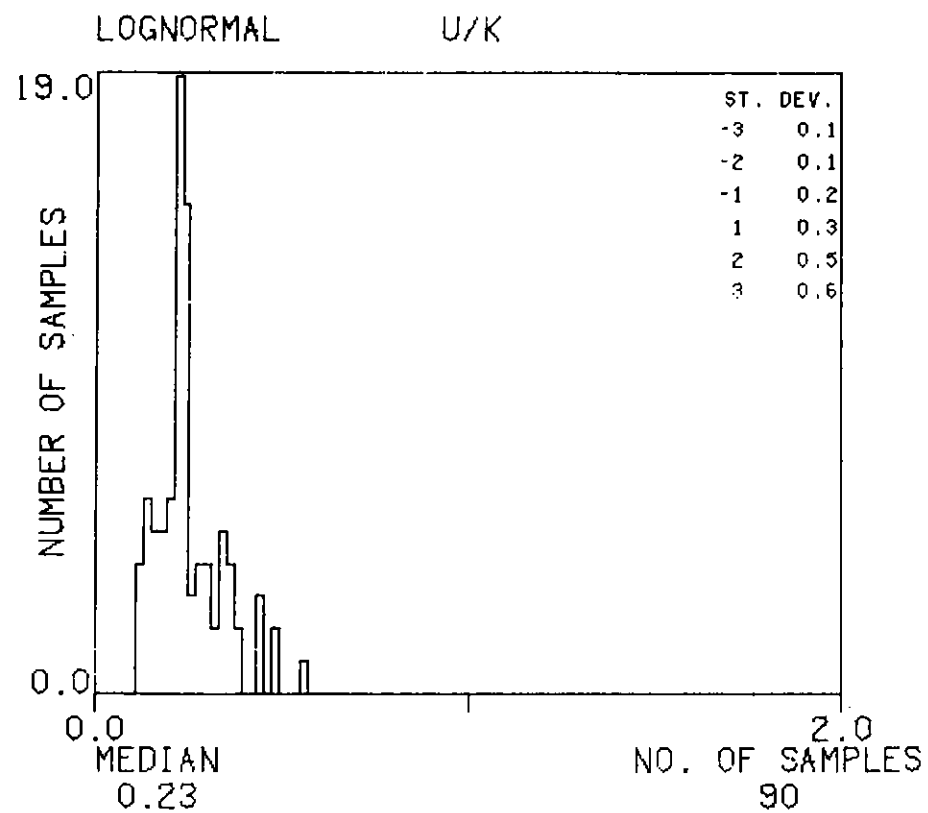
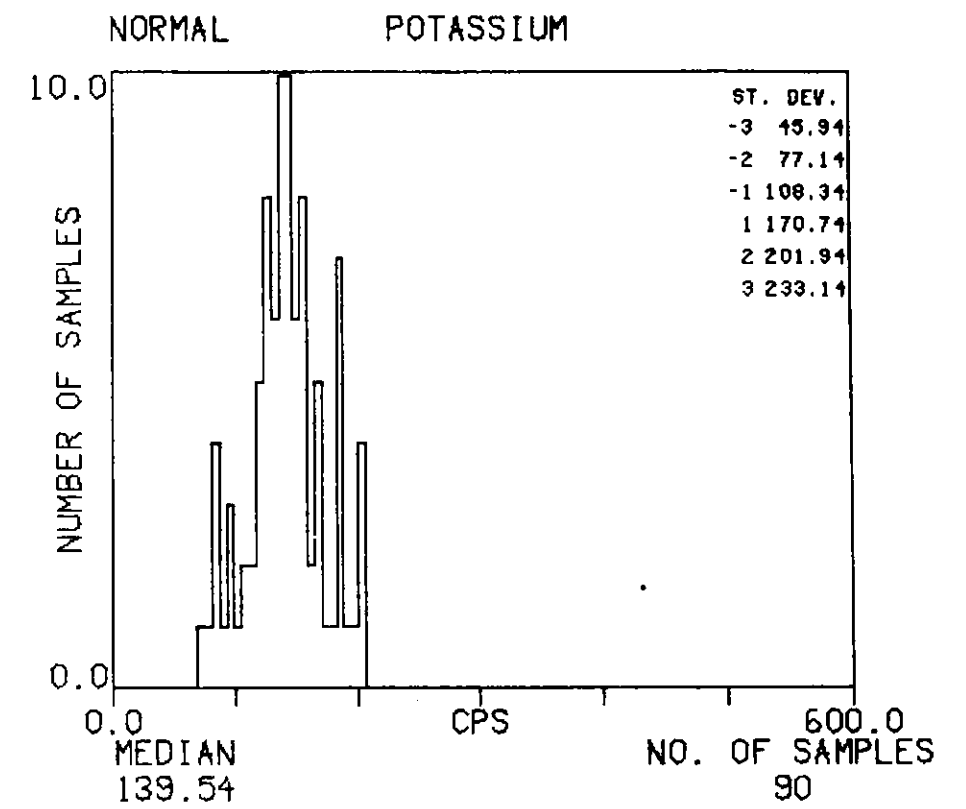
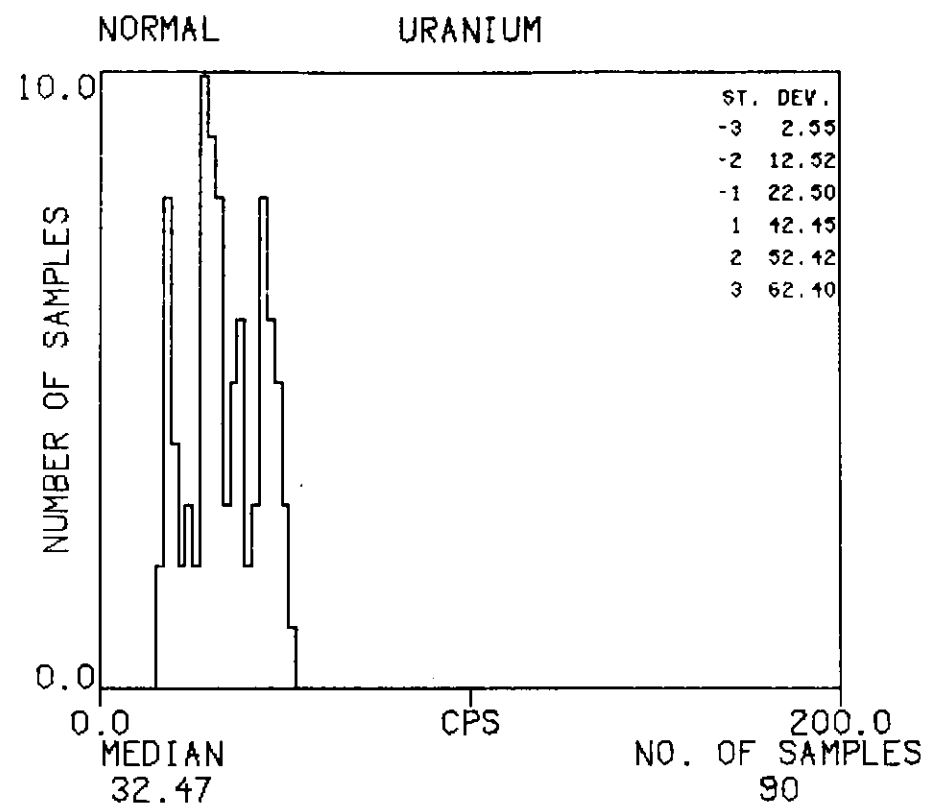
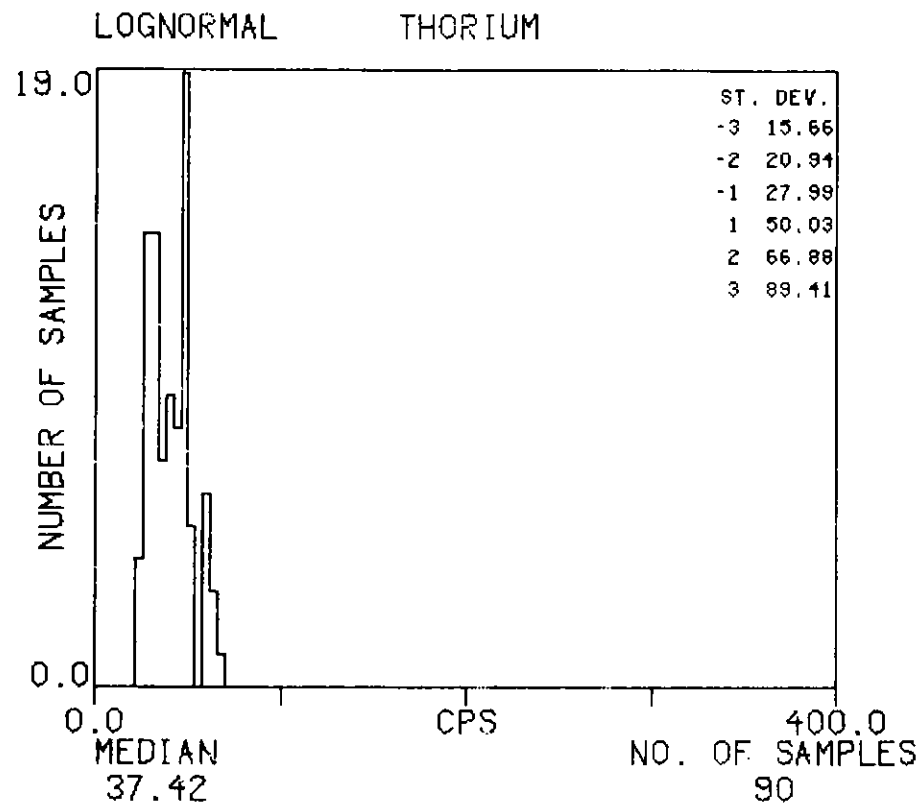
HISTOGRAMS : KLP

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



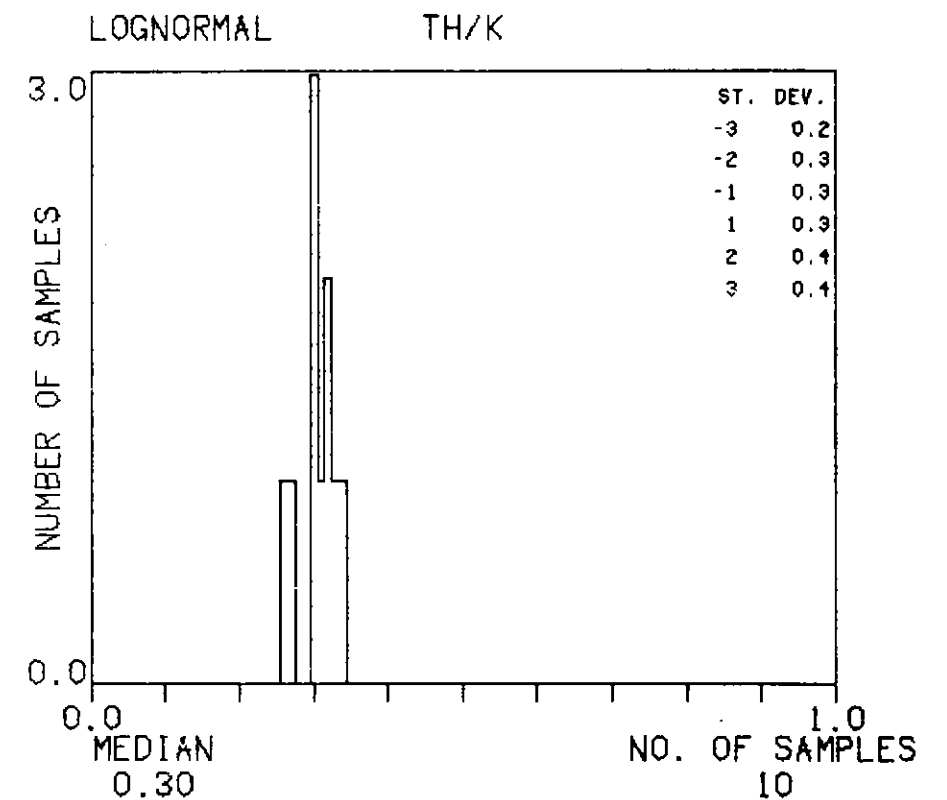
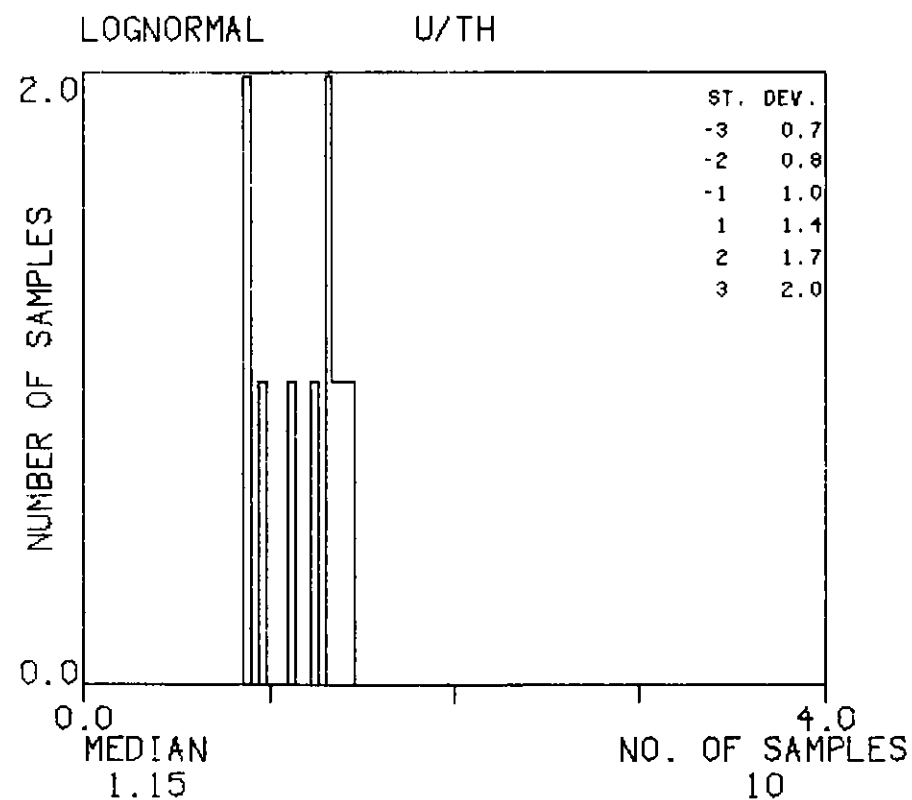
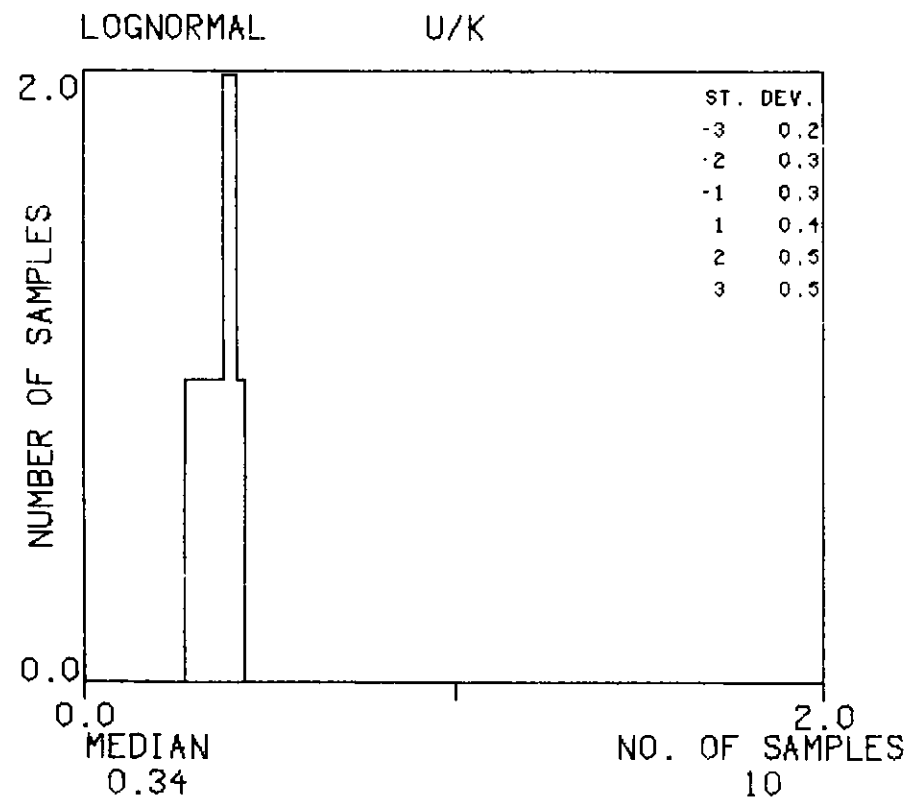
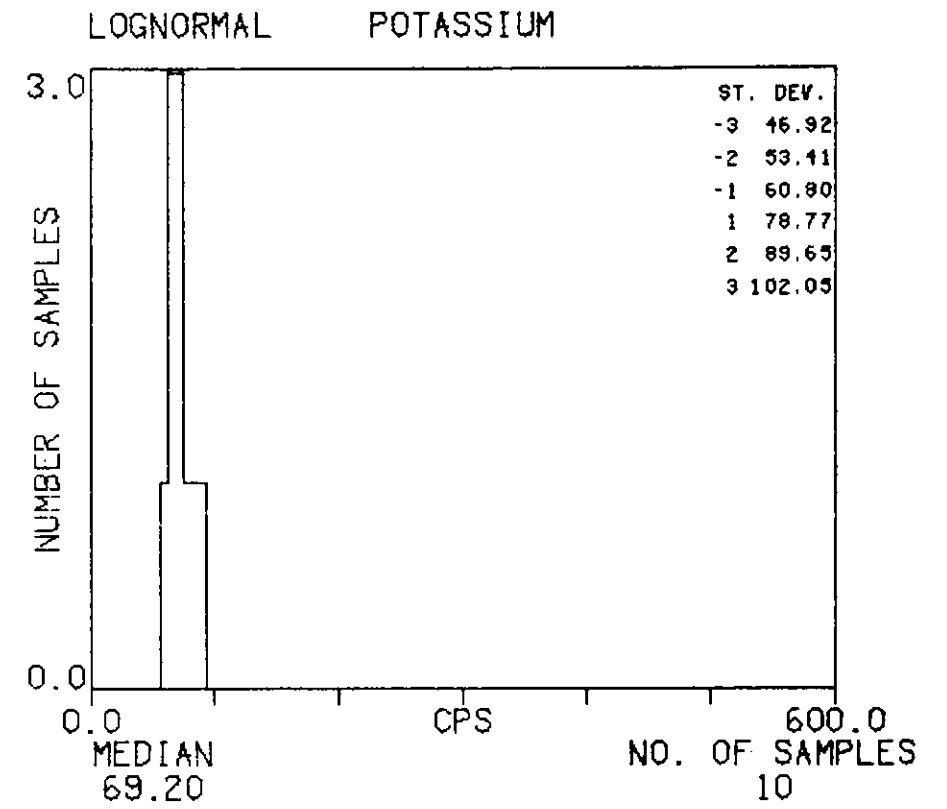
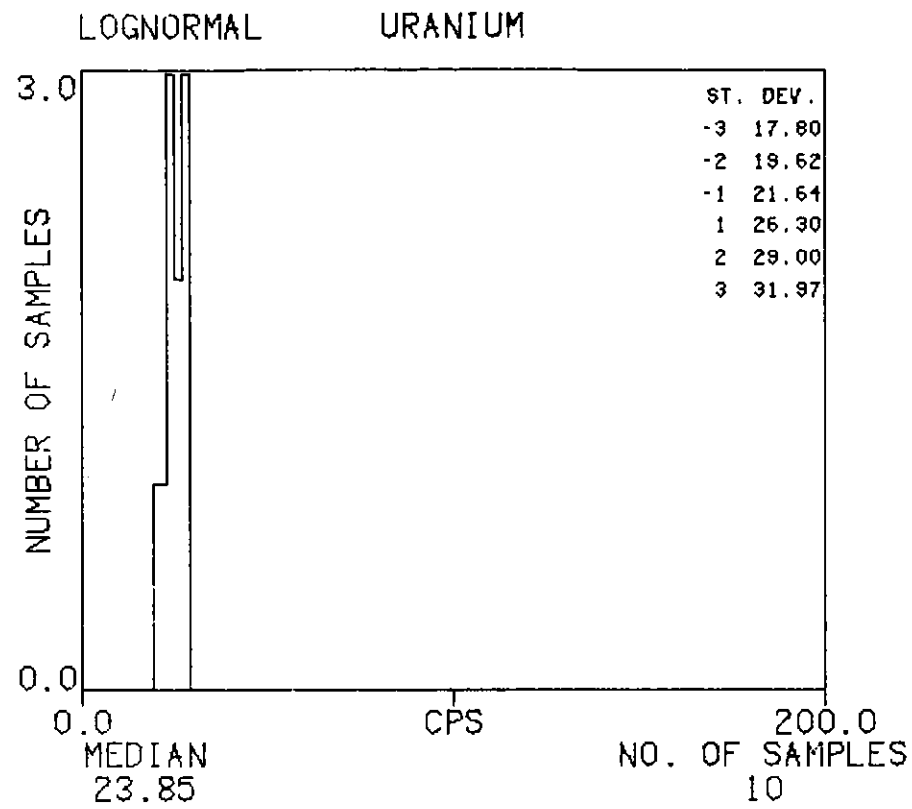
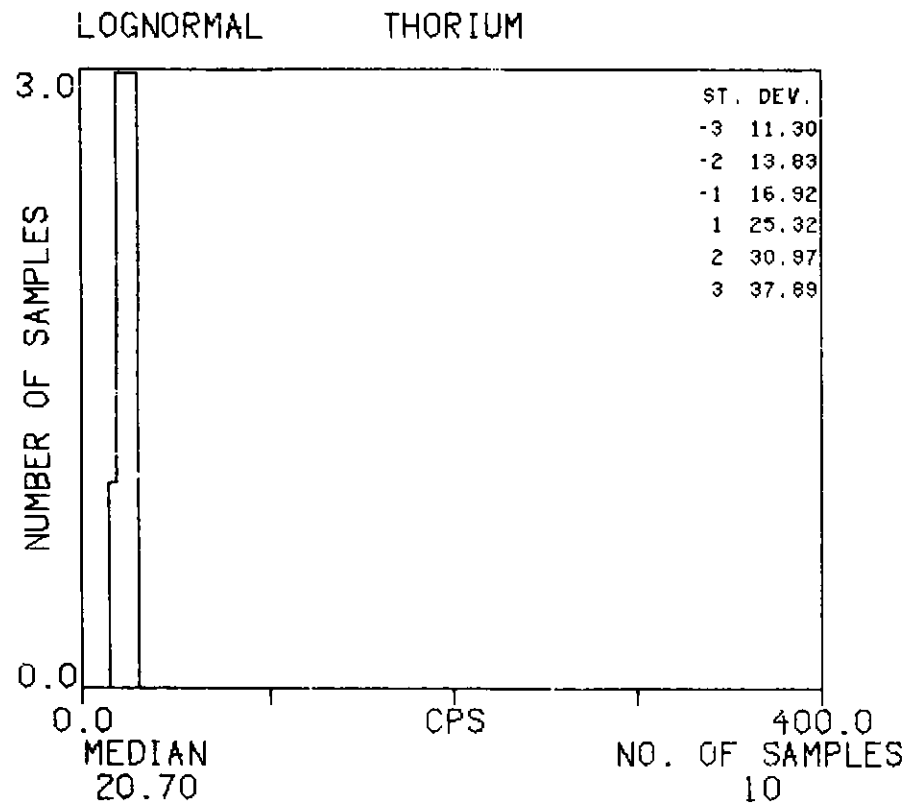
HISTOGRAMS : PPP

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



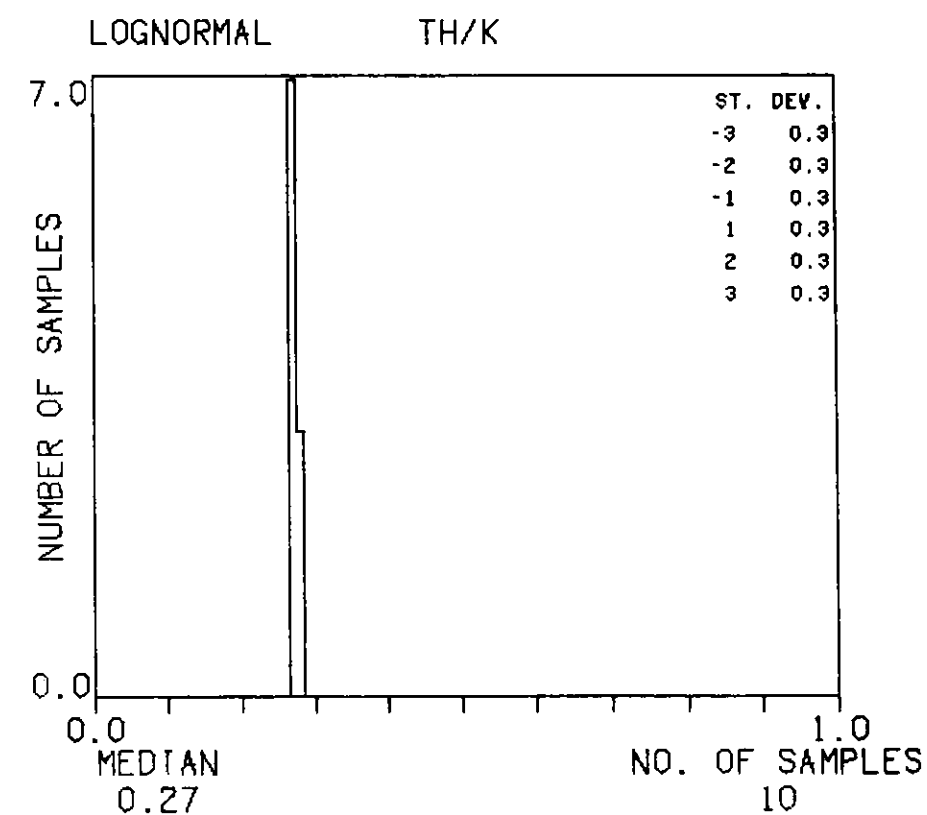
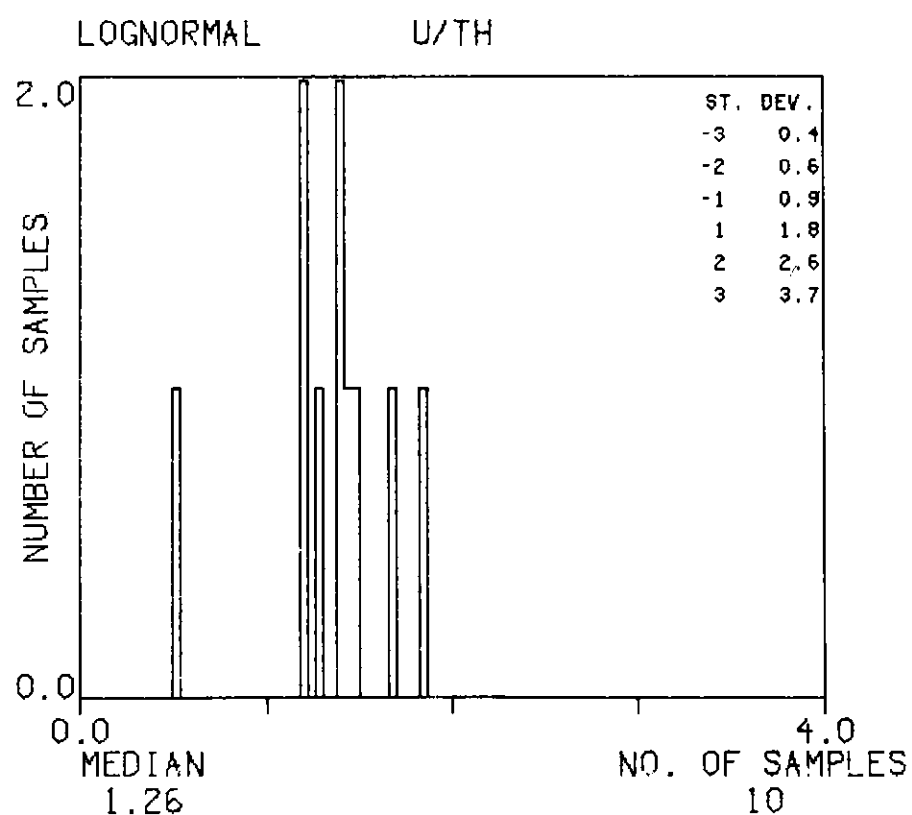
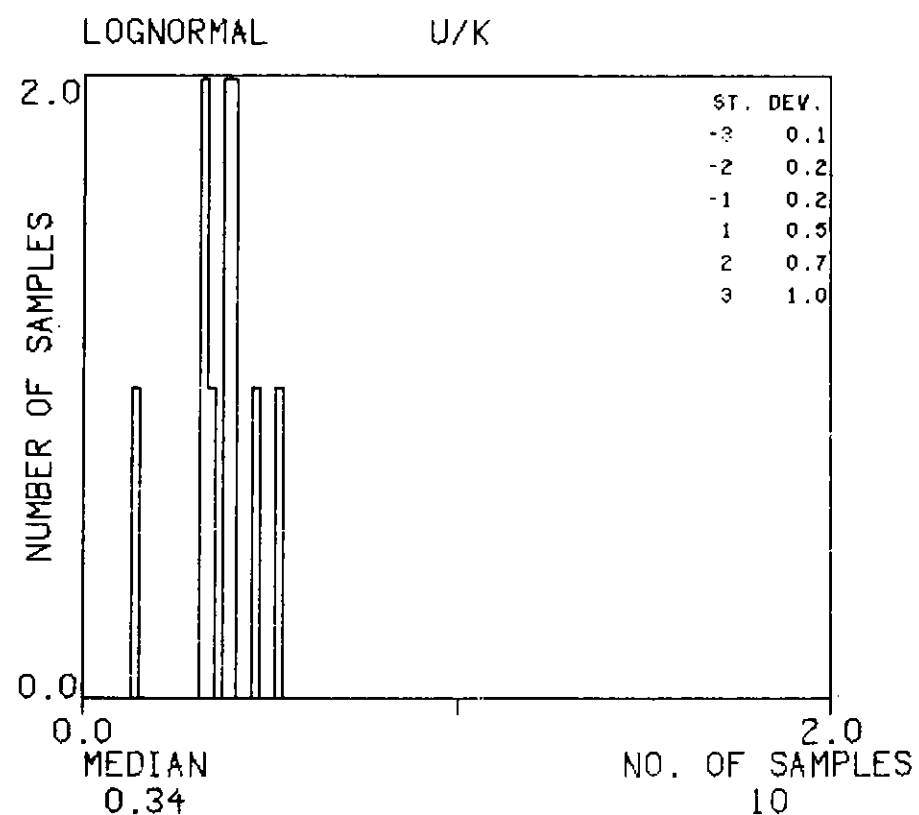
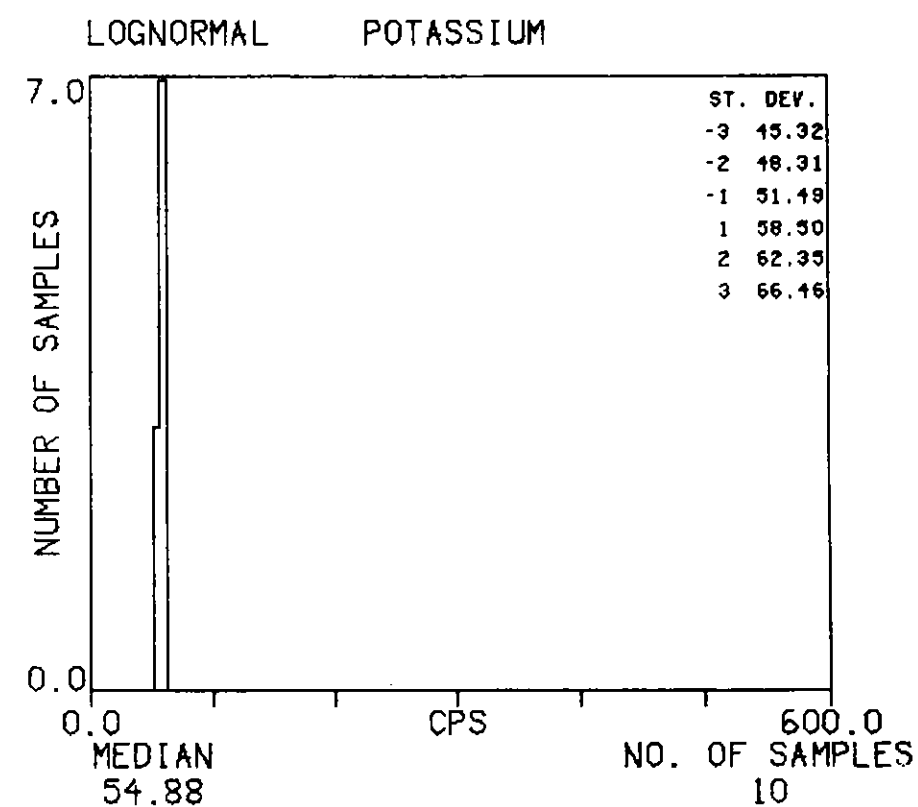
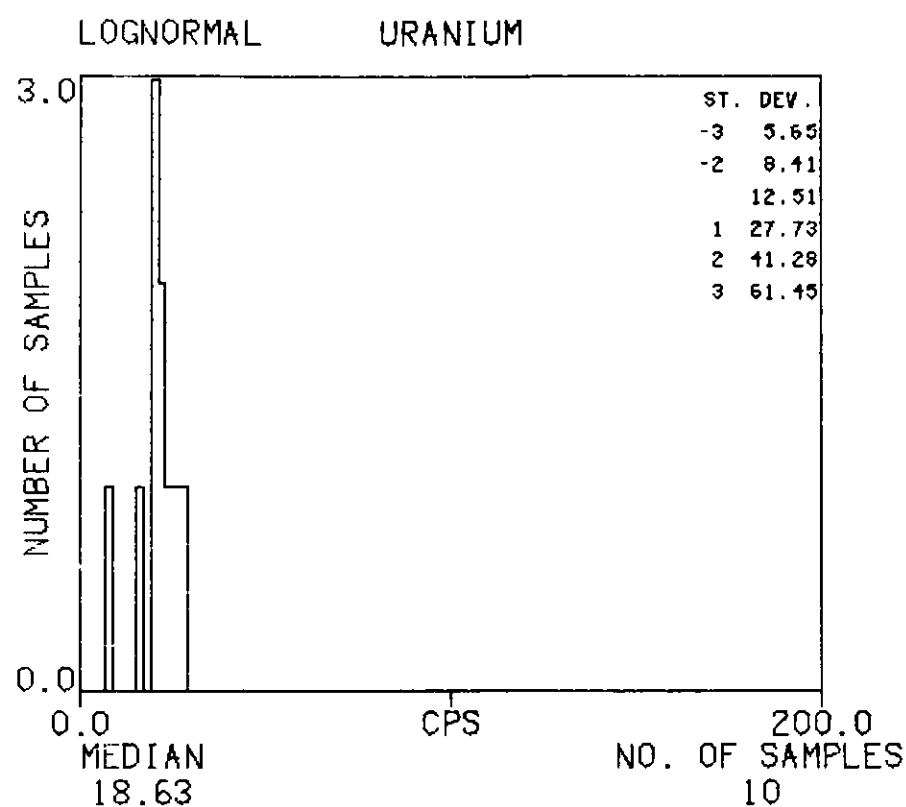
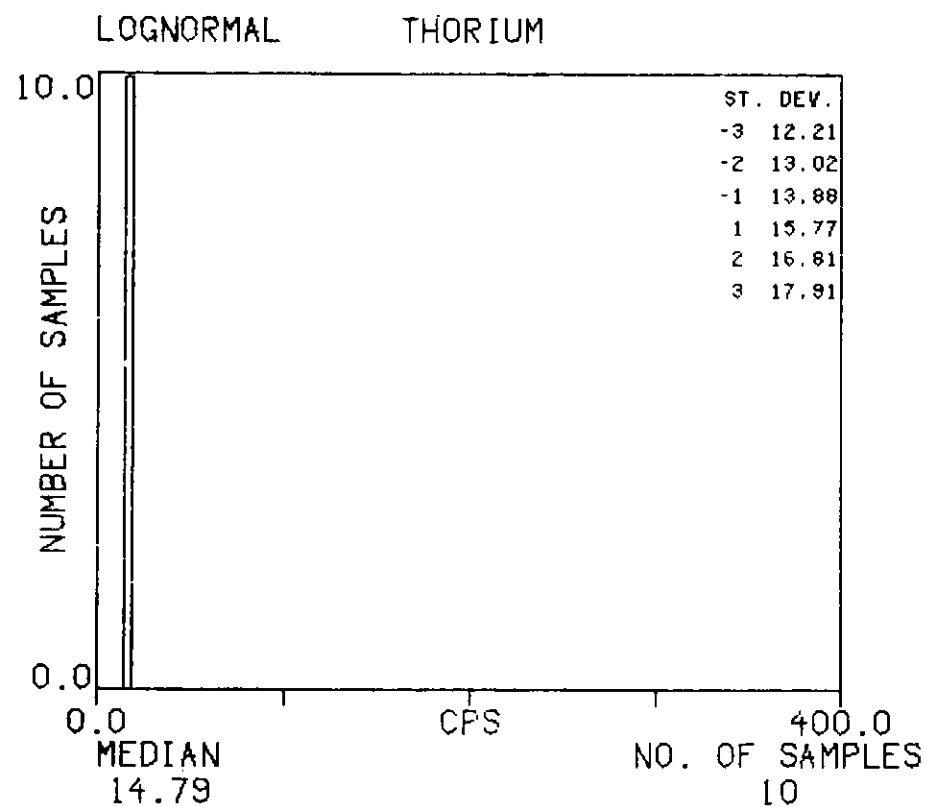
HISTOGRAMS : PPPE

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



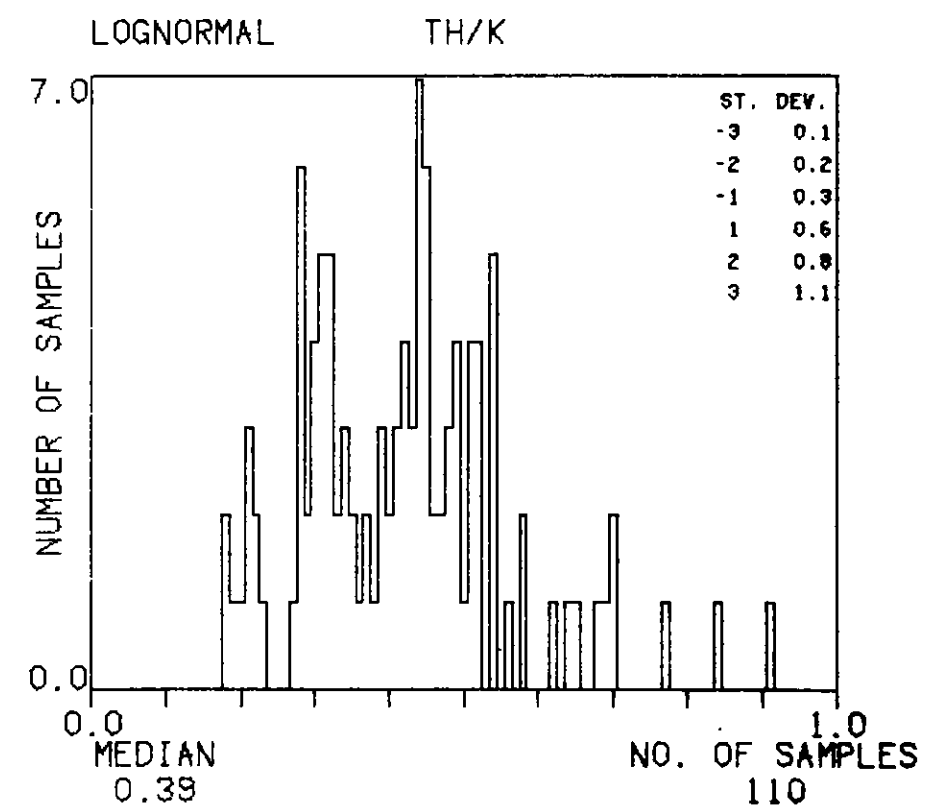
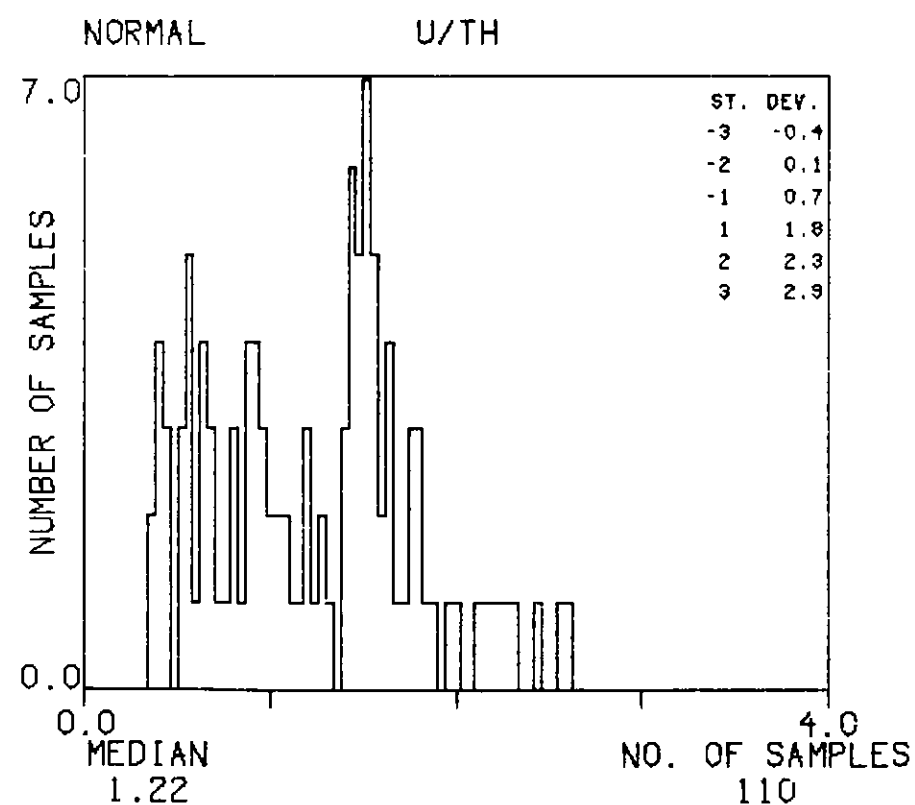
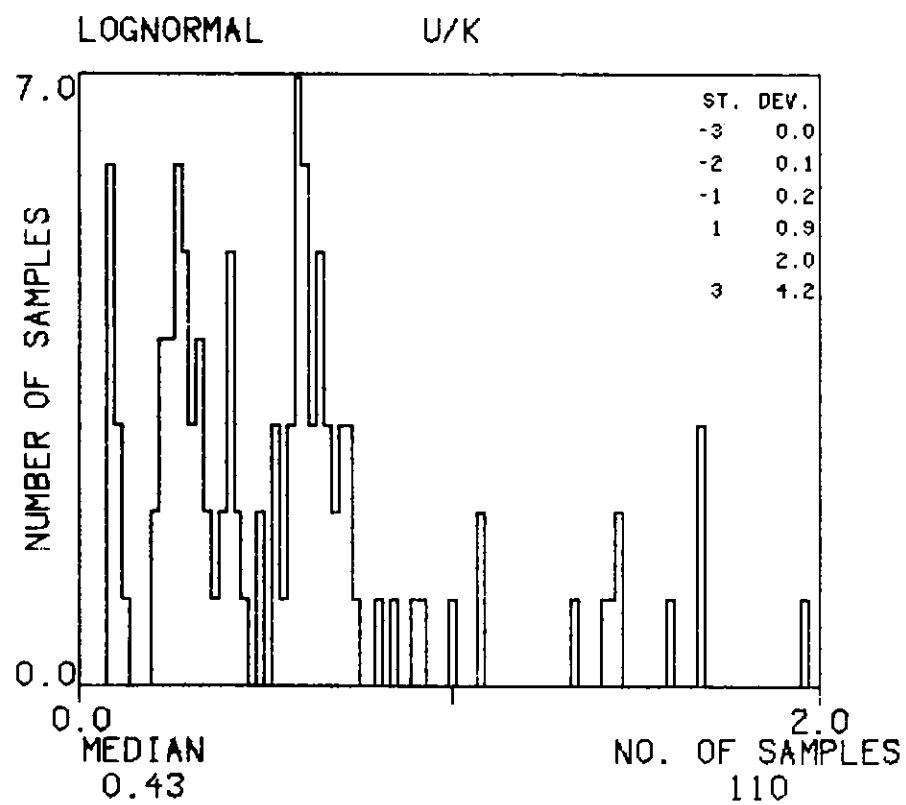
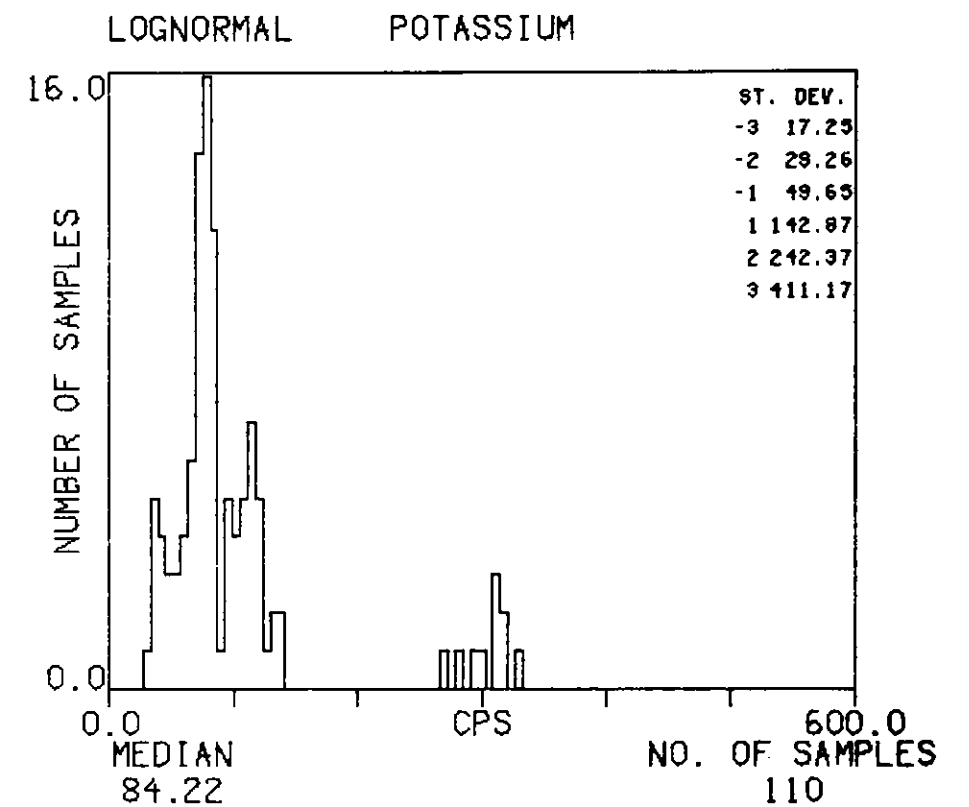
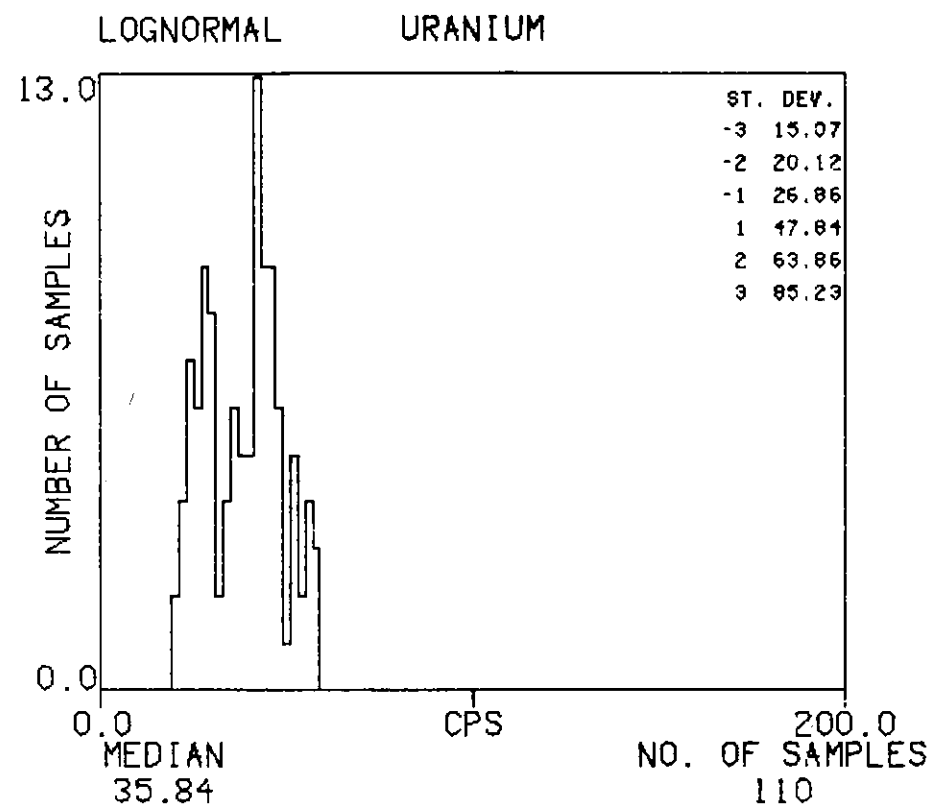
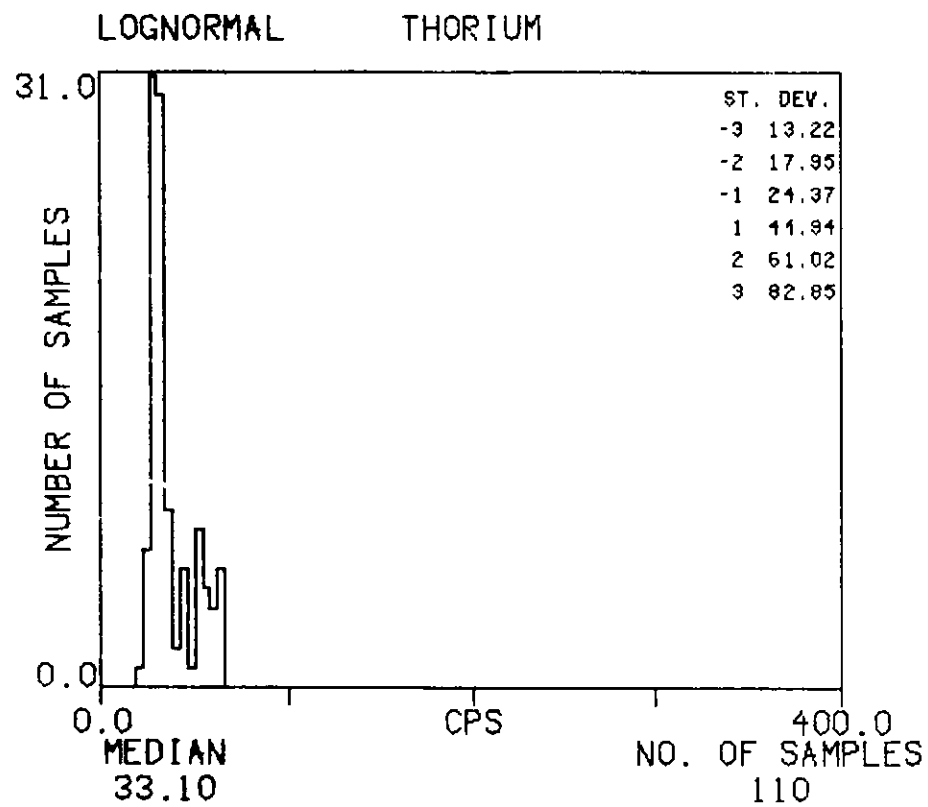
HISTOGRAMS : PPH

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



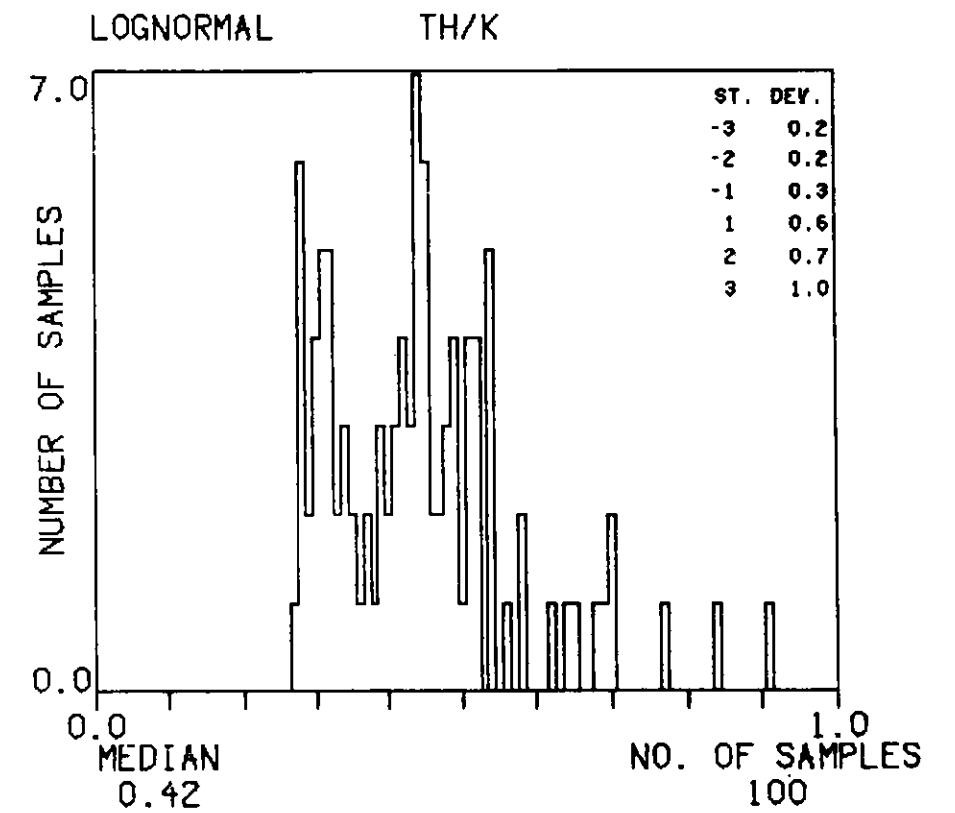
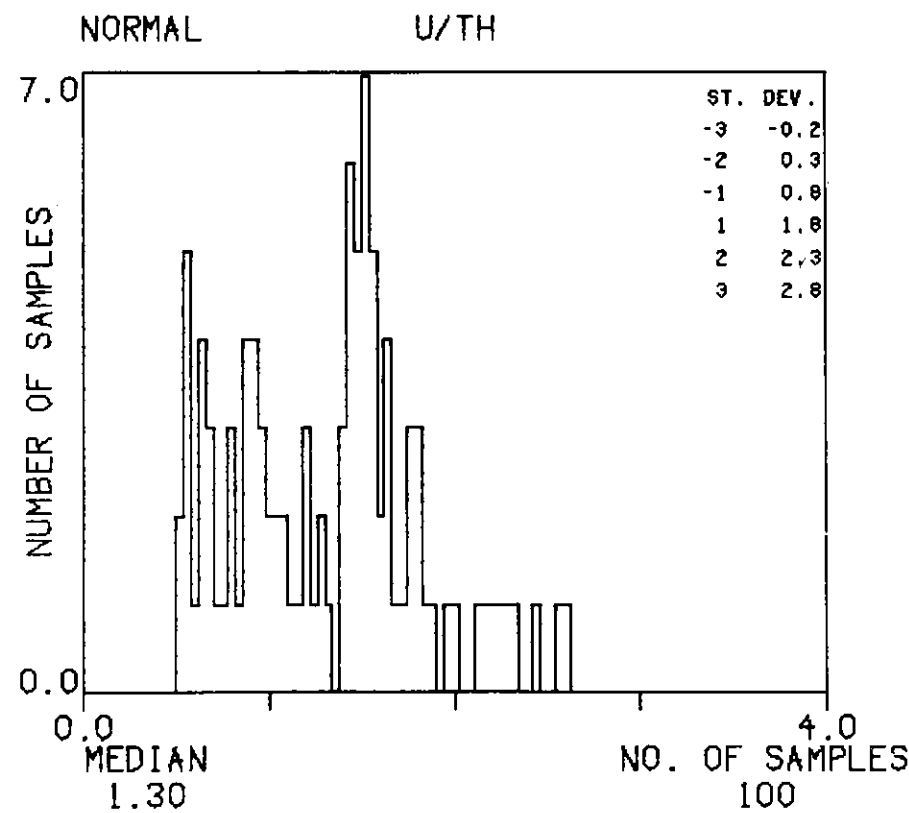
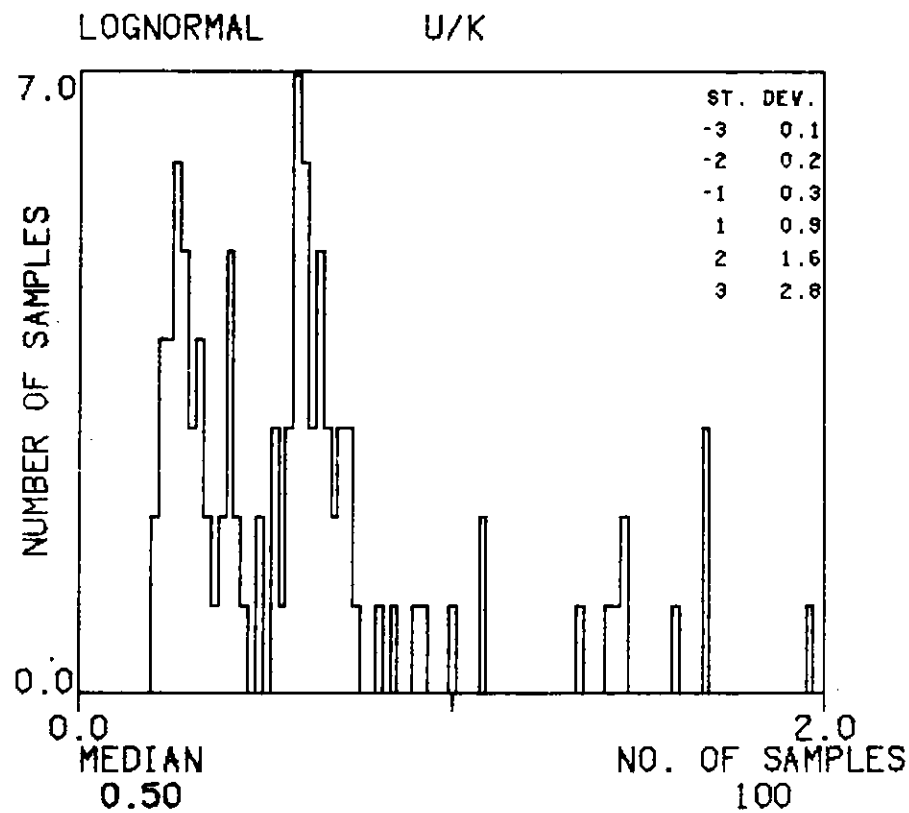
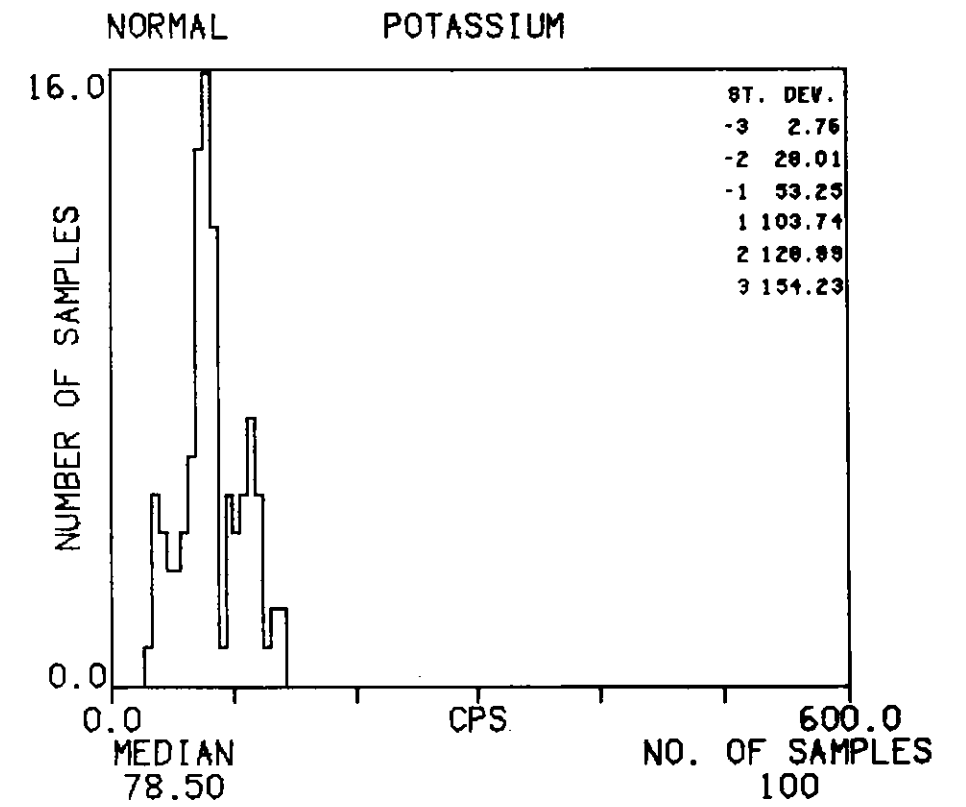
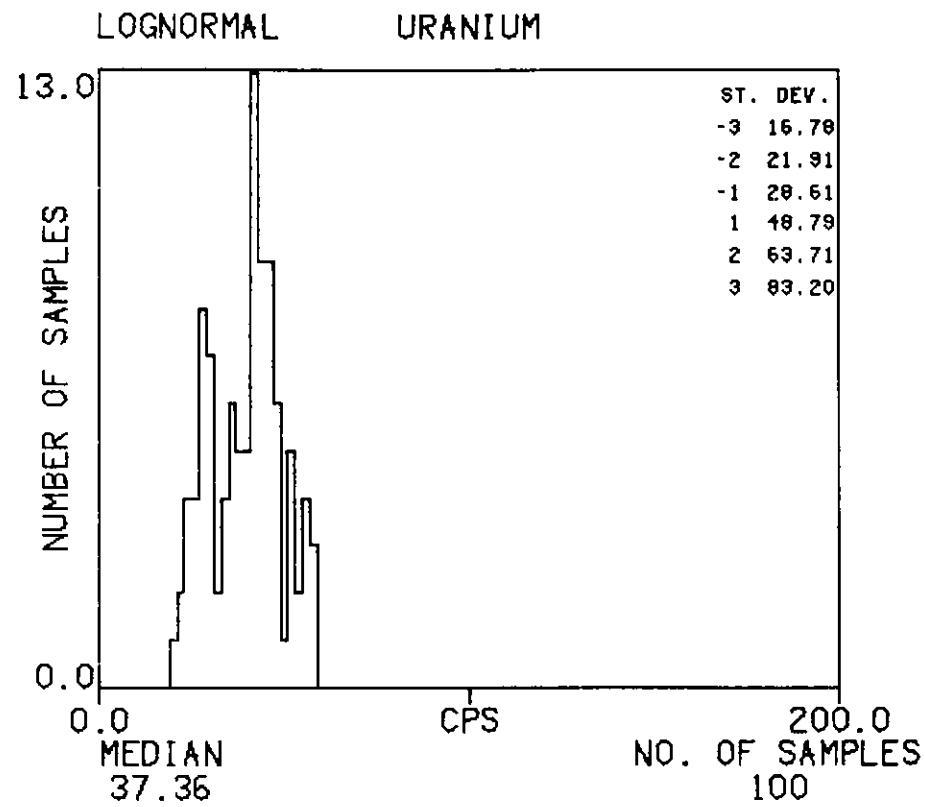
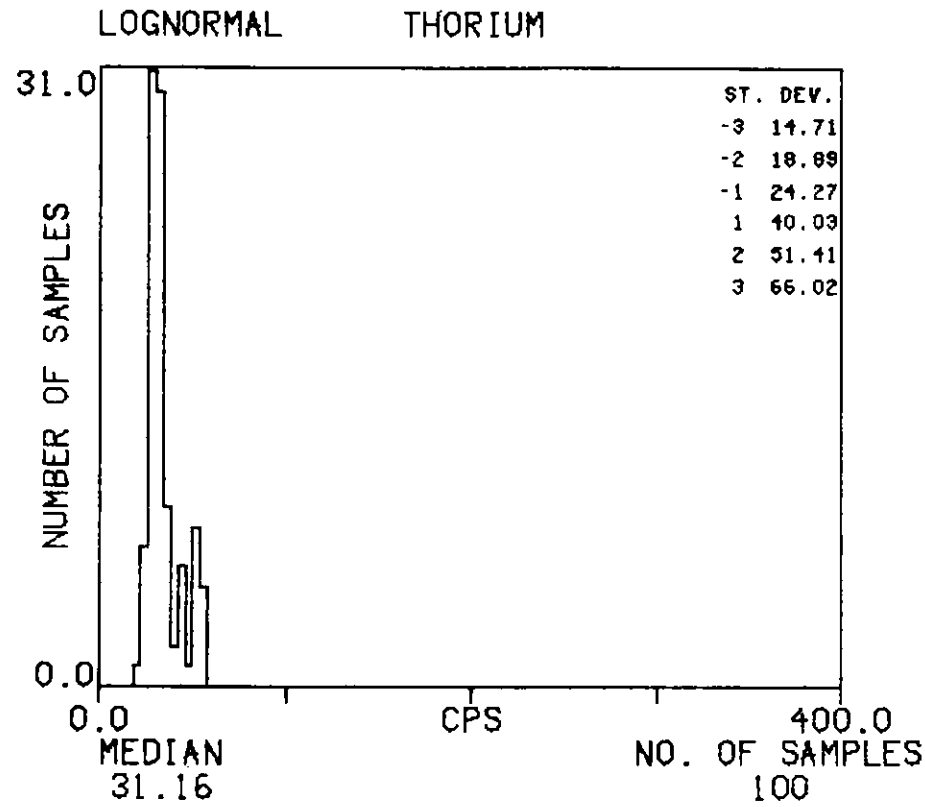
HISTOGRAMS : PPM

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



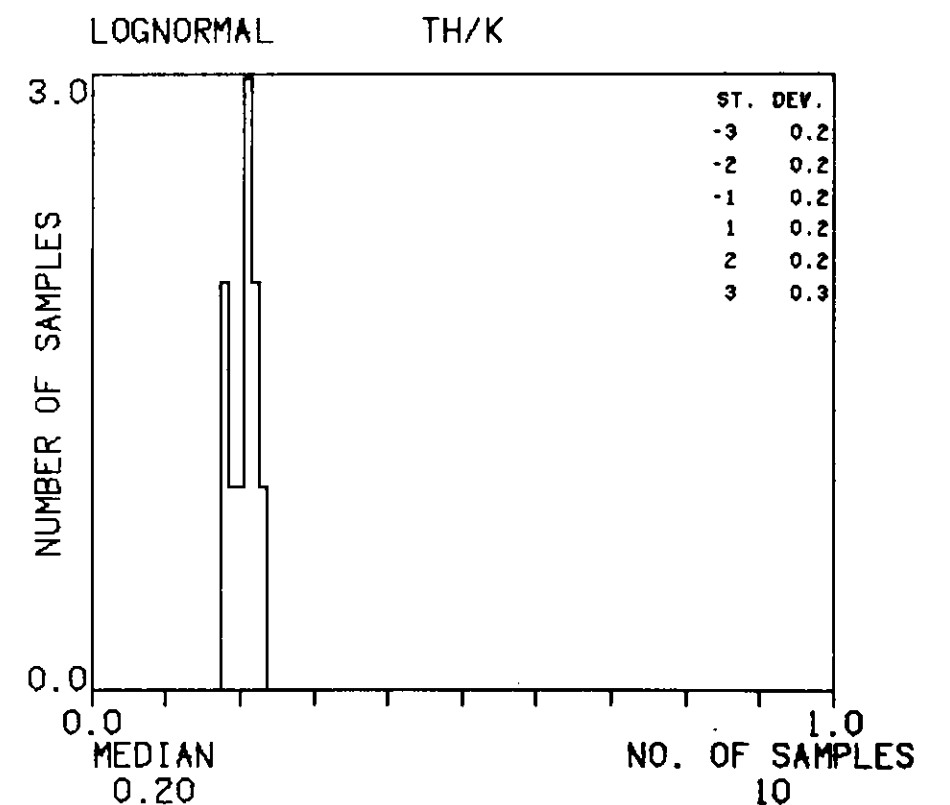
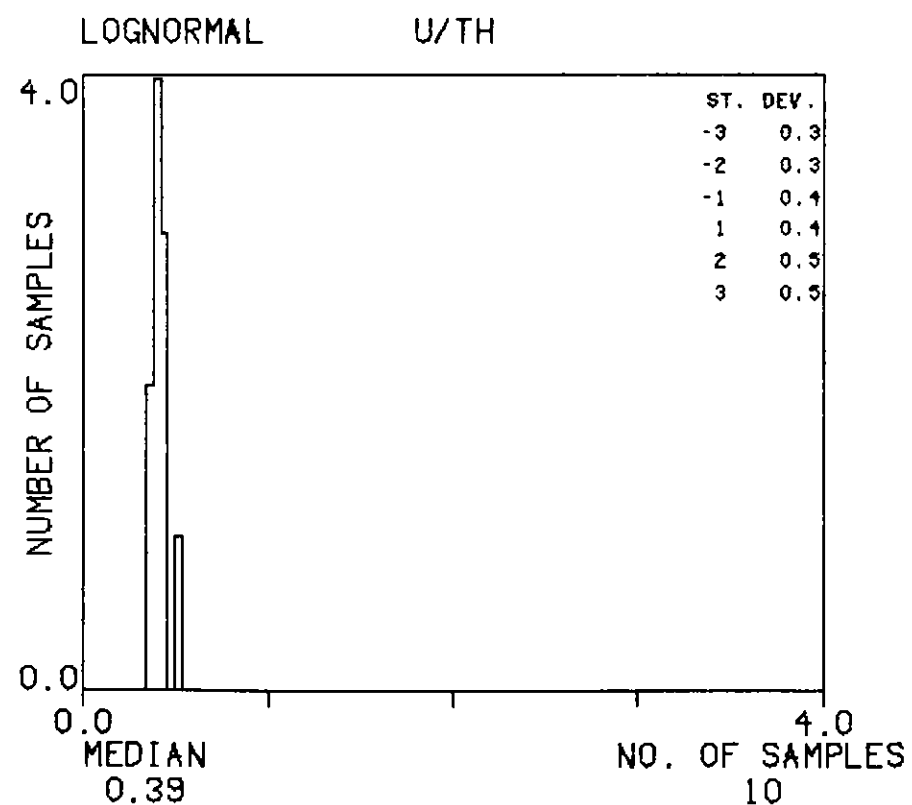
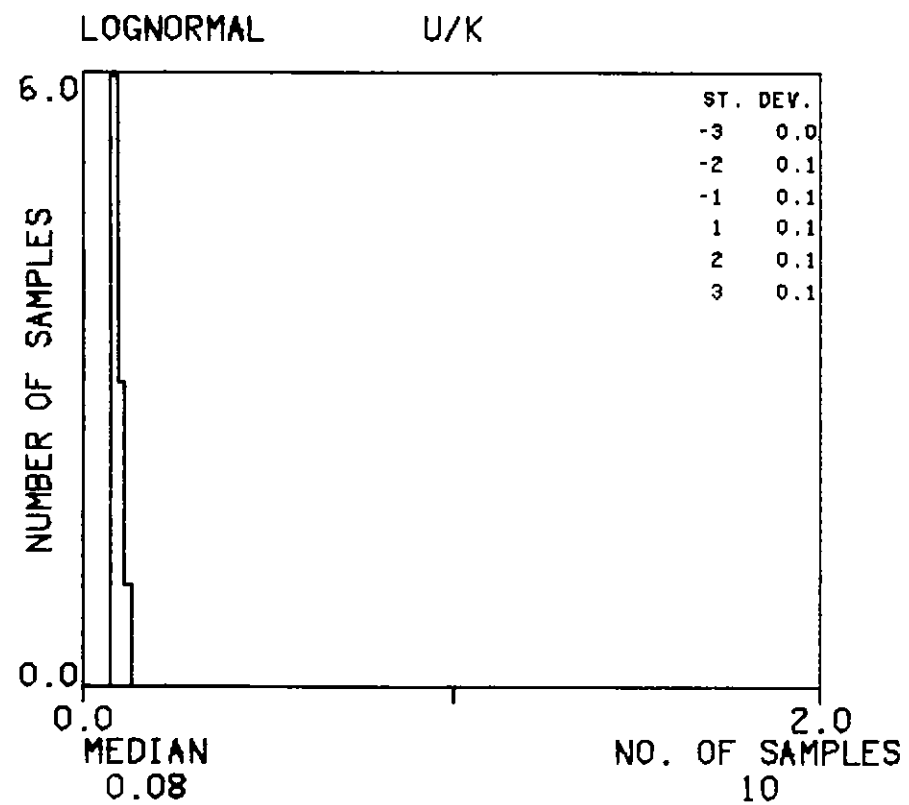
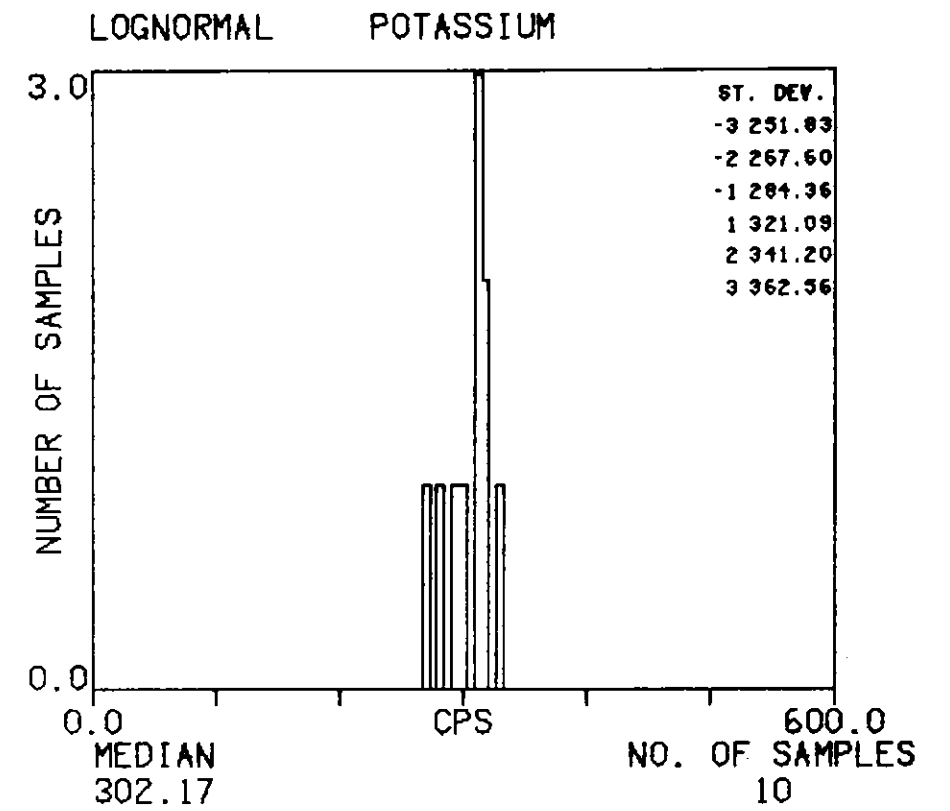
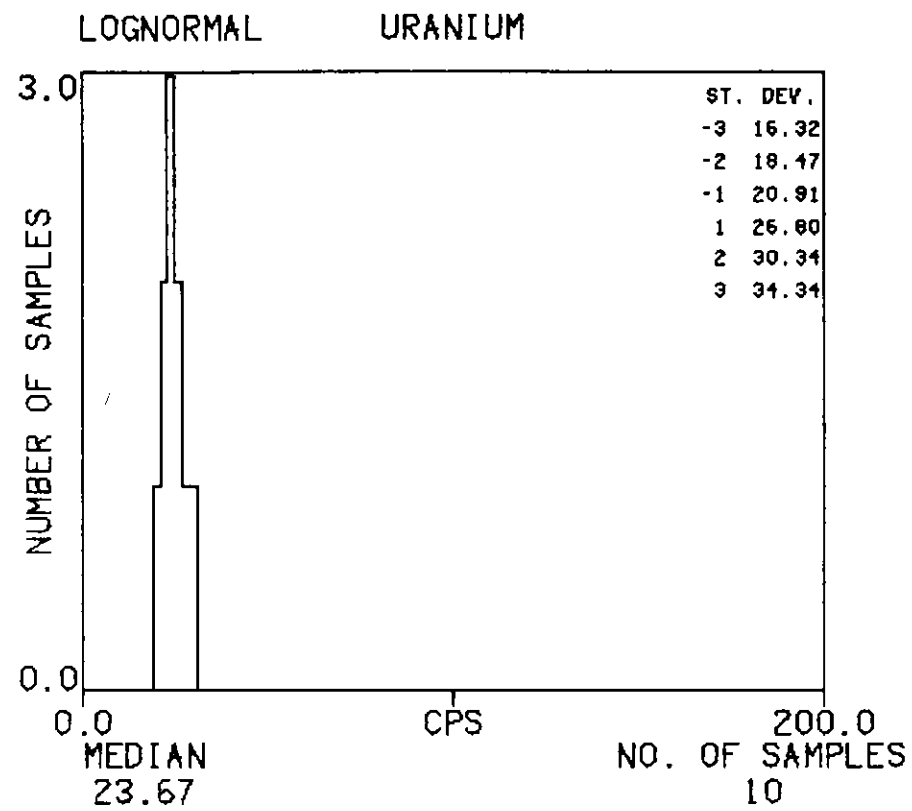
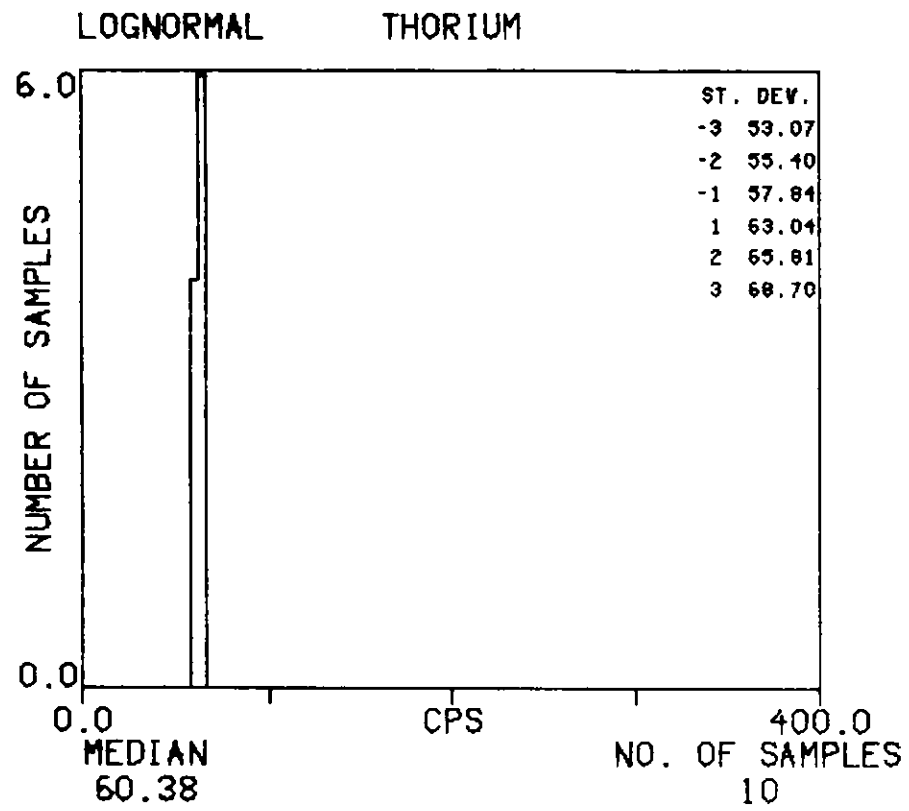
HISTOGRAMS : PPM-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



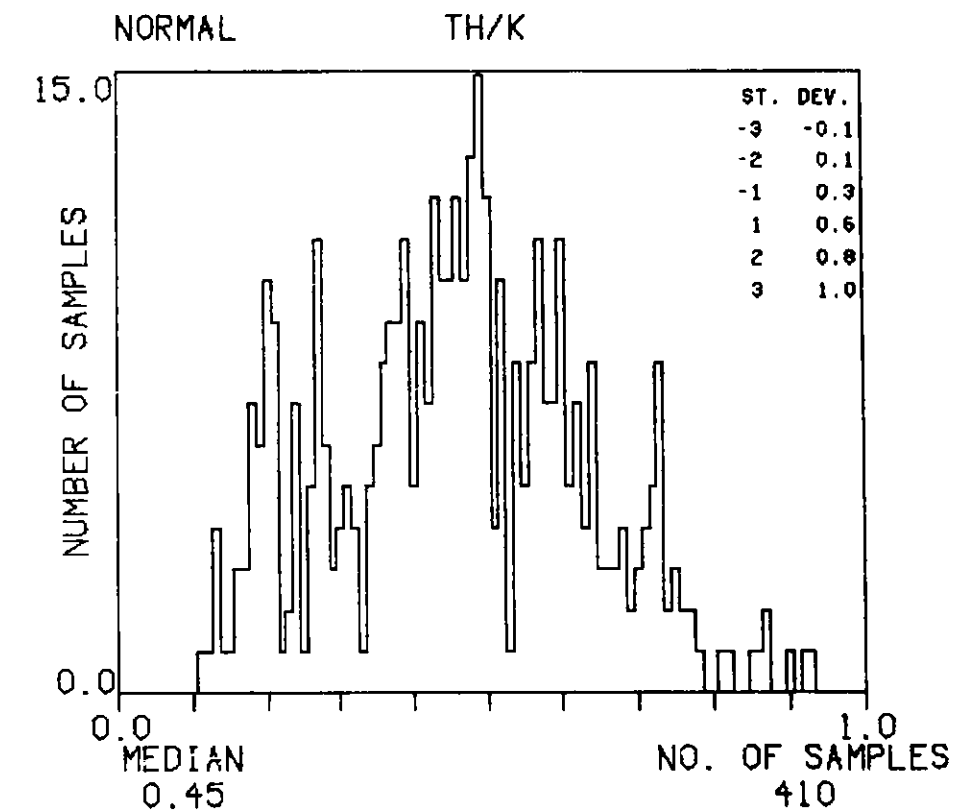
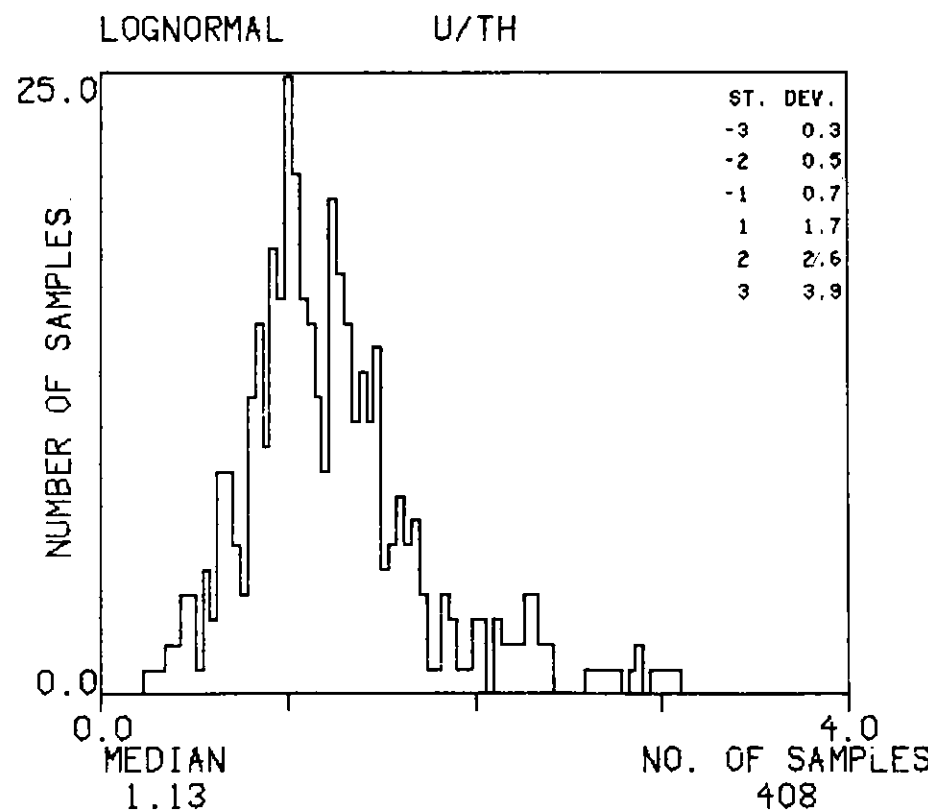
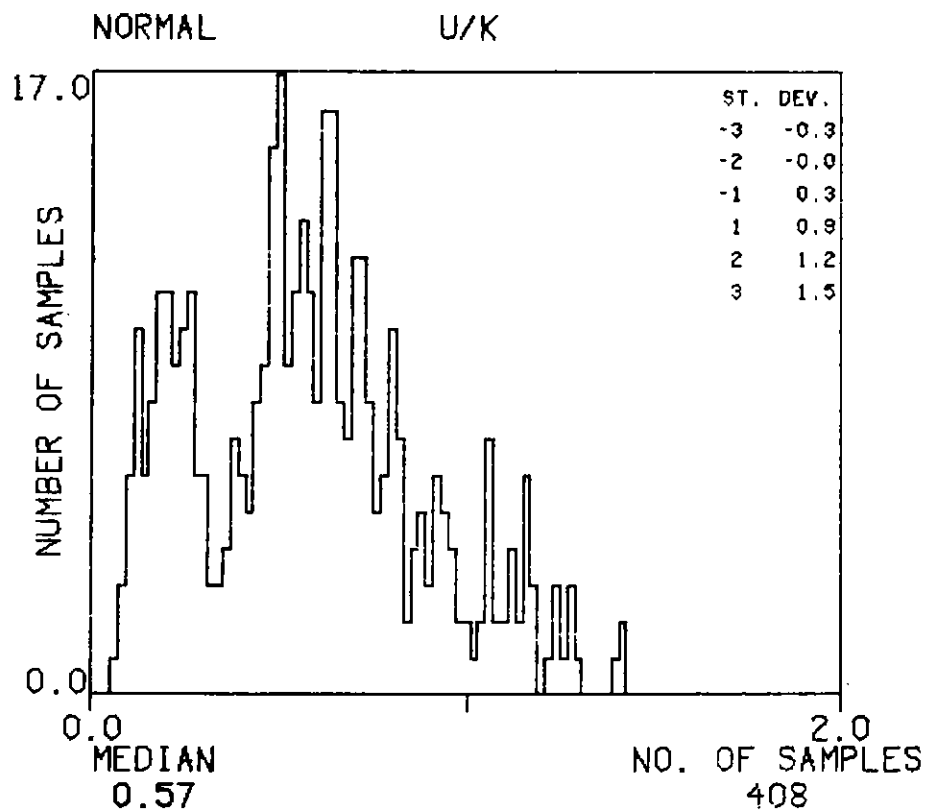
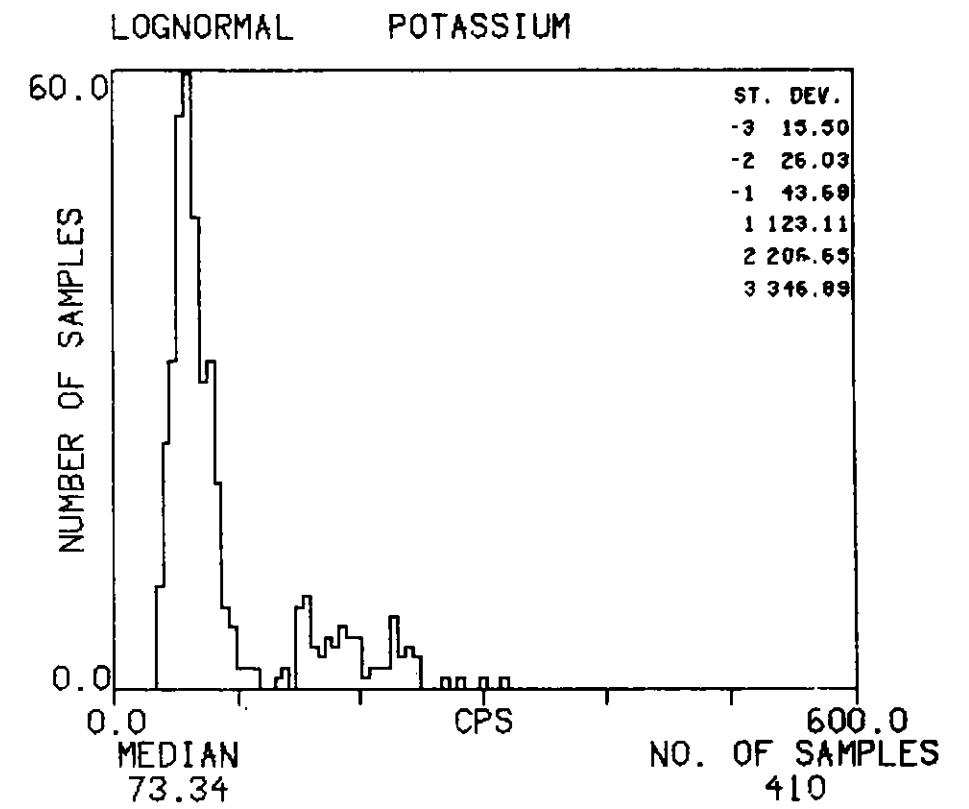
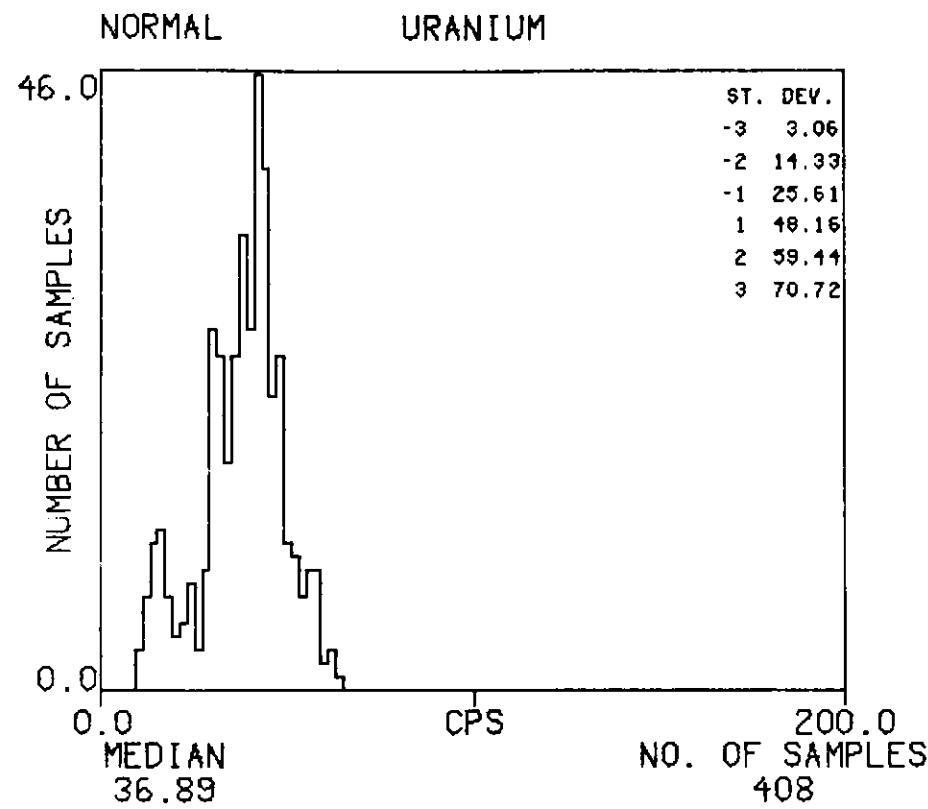
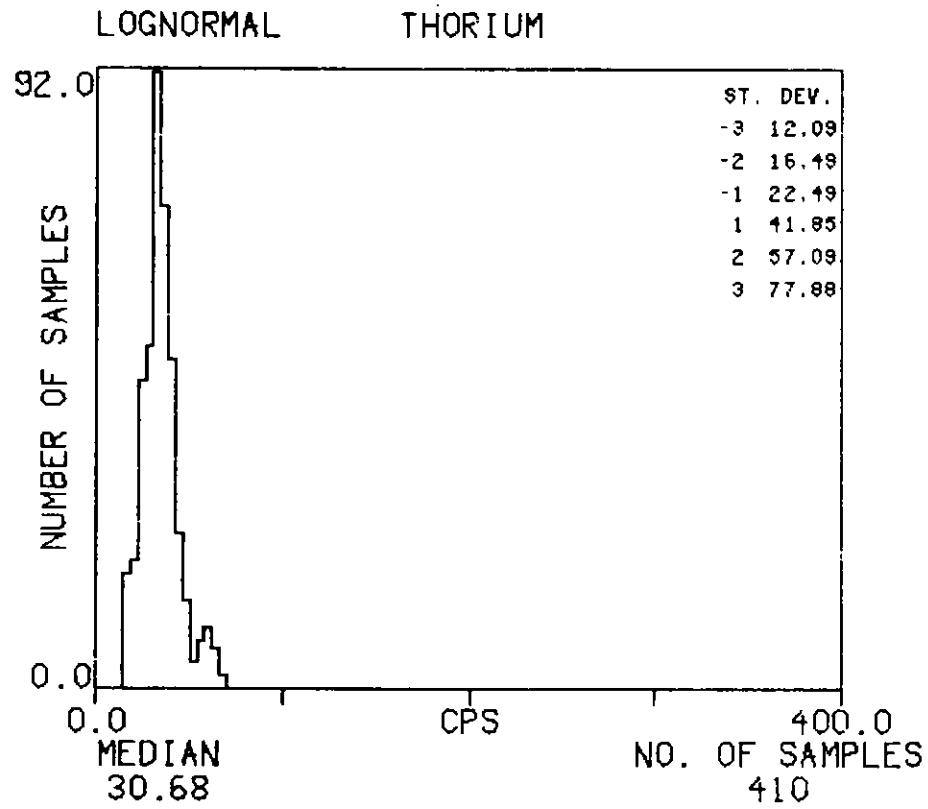
HISTOGRAMS : PPM-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



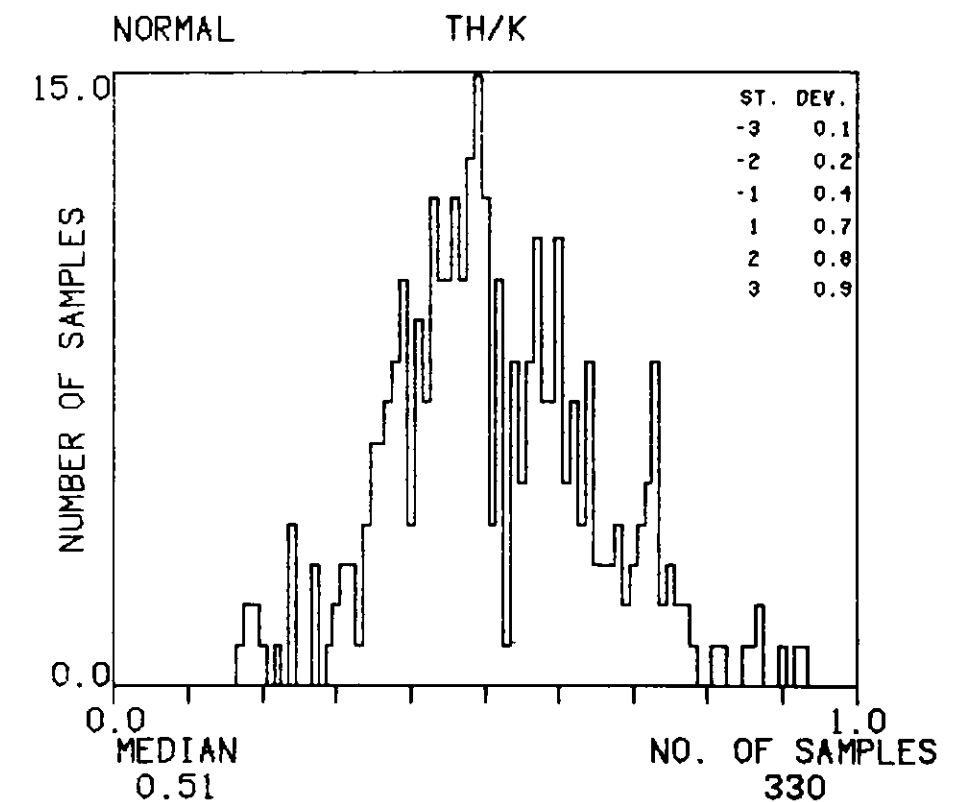
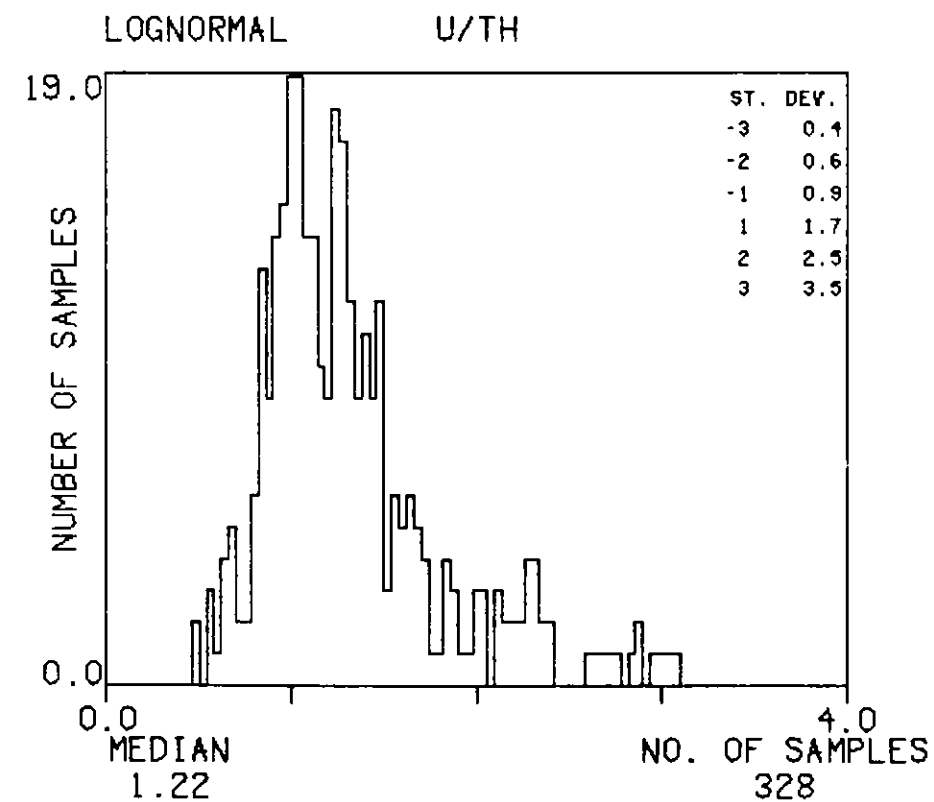
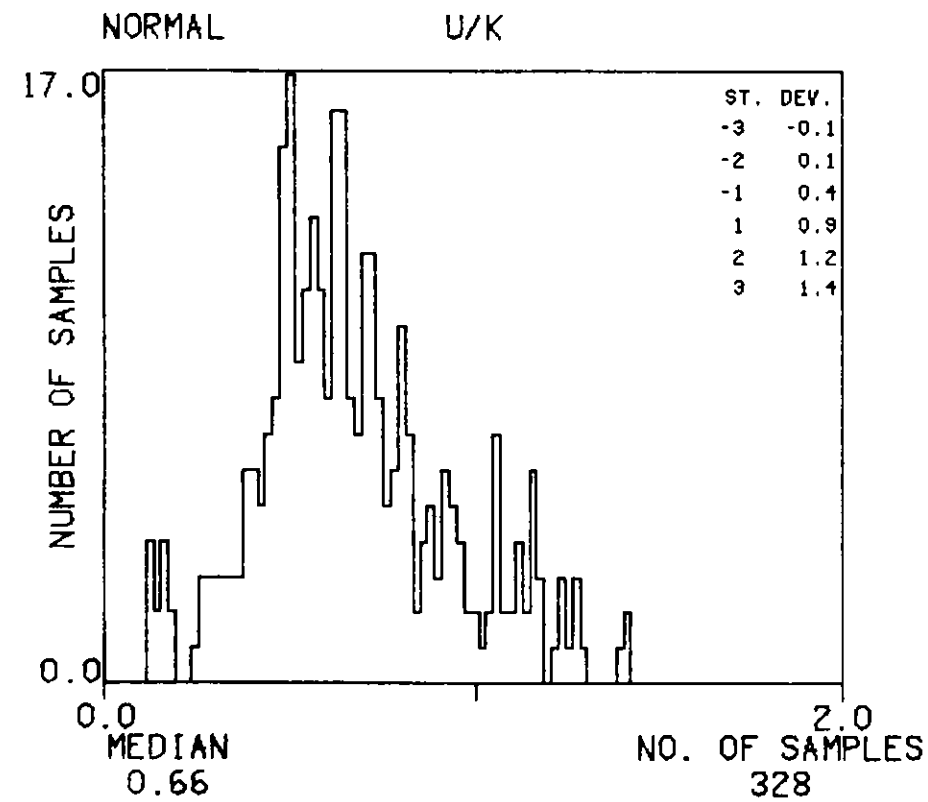
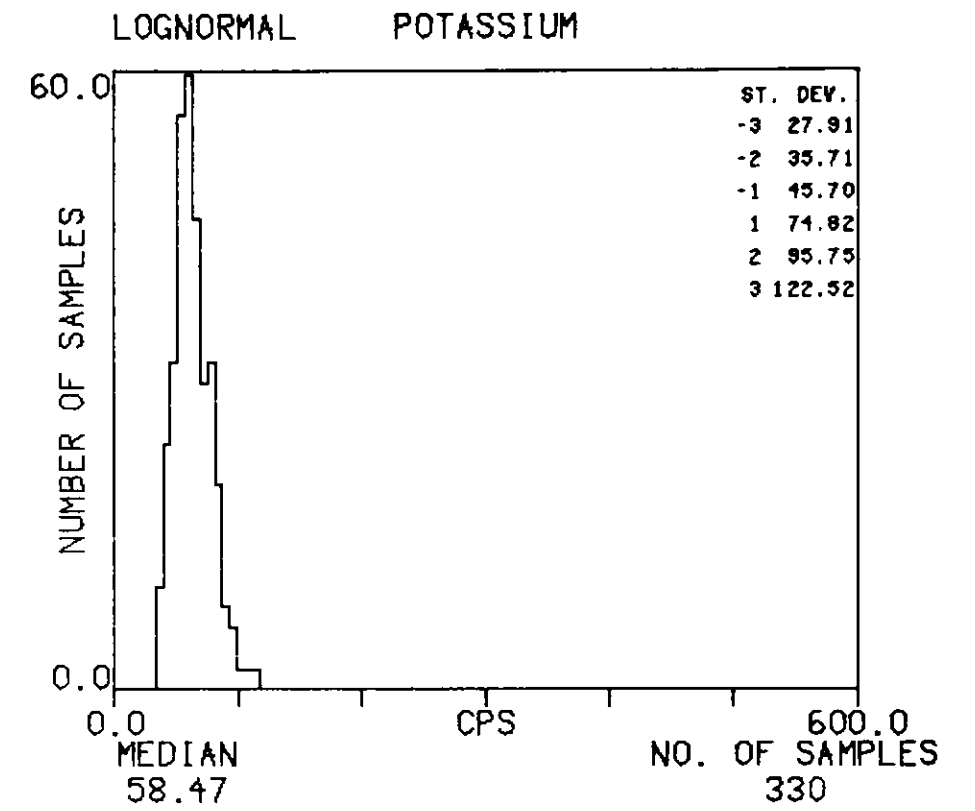
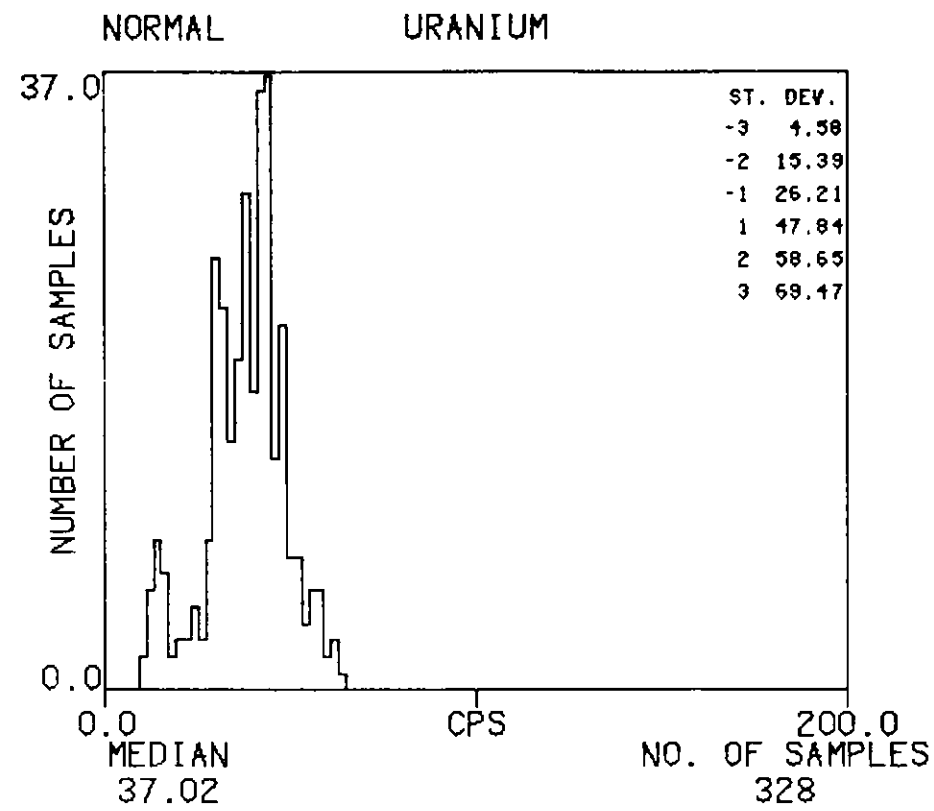
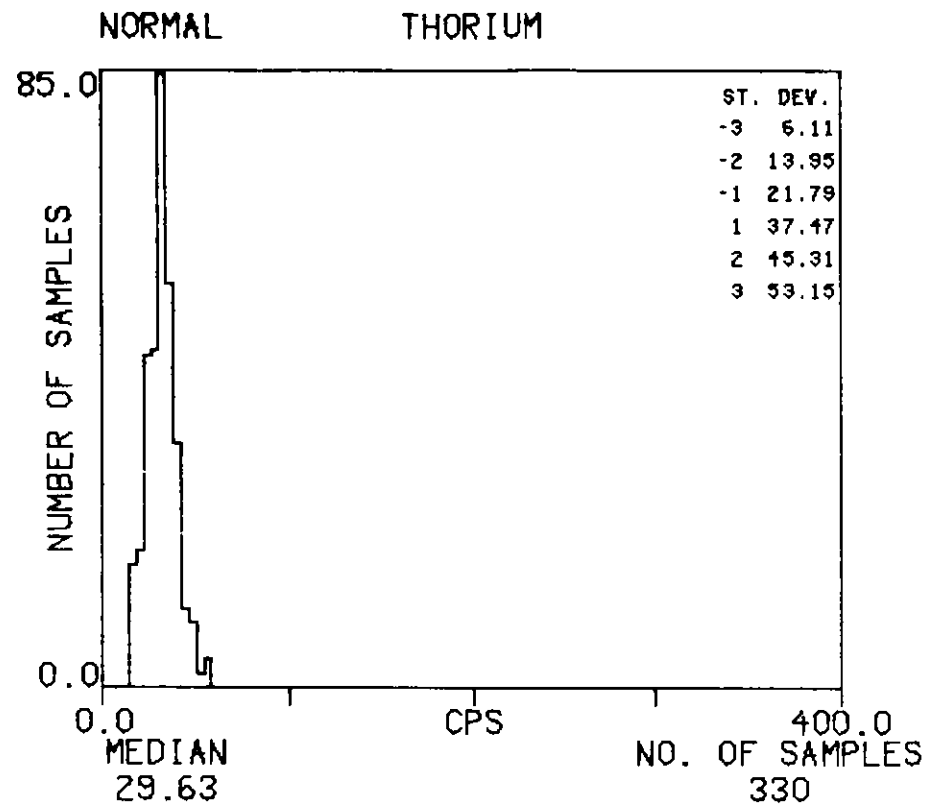
HISTOGRAMS : PPMD

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



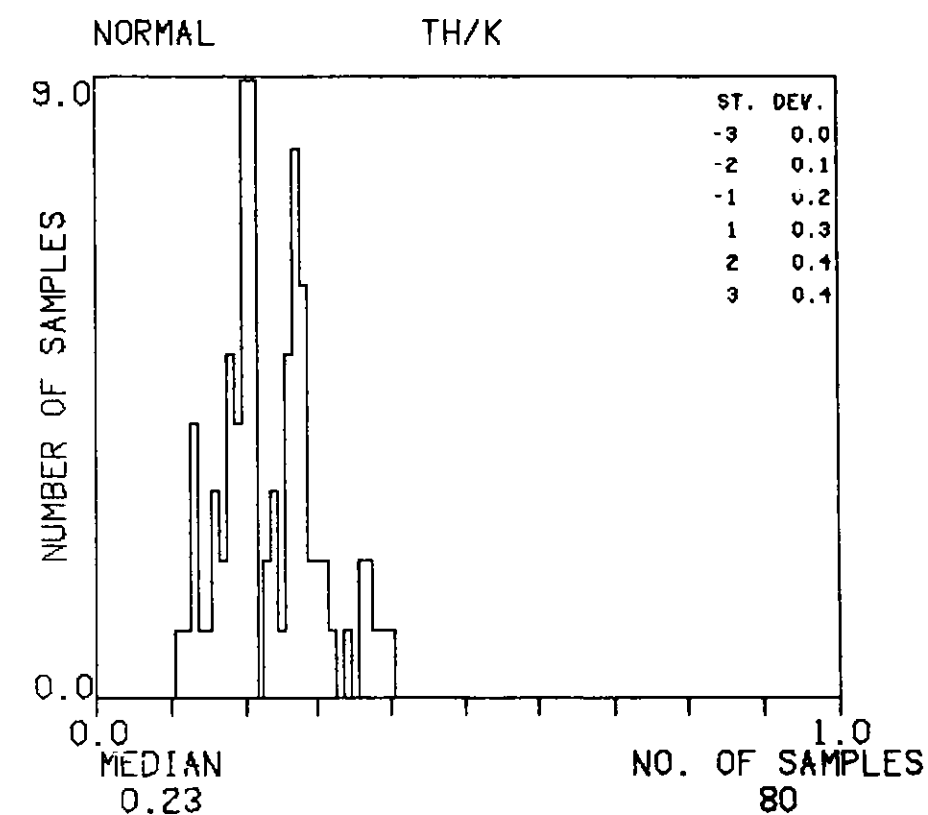
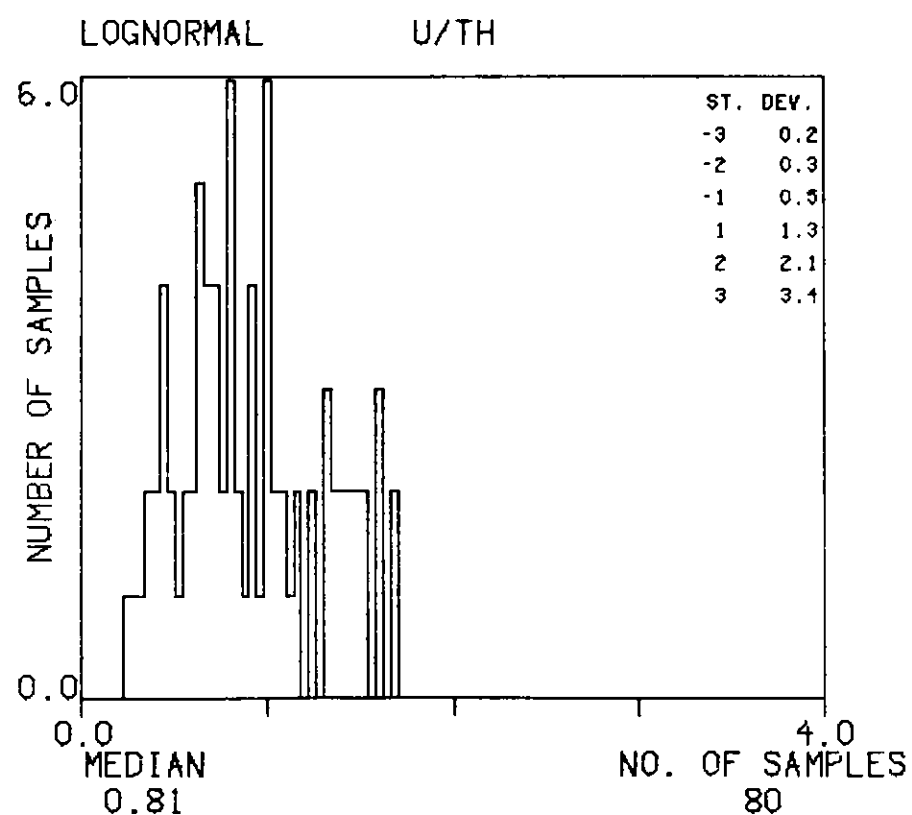
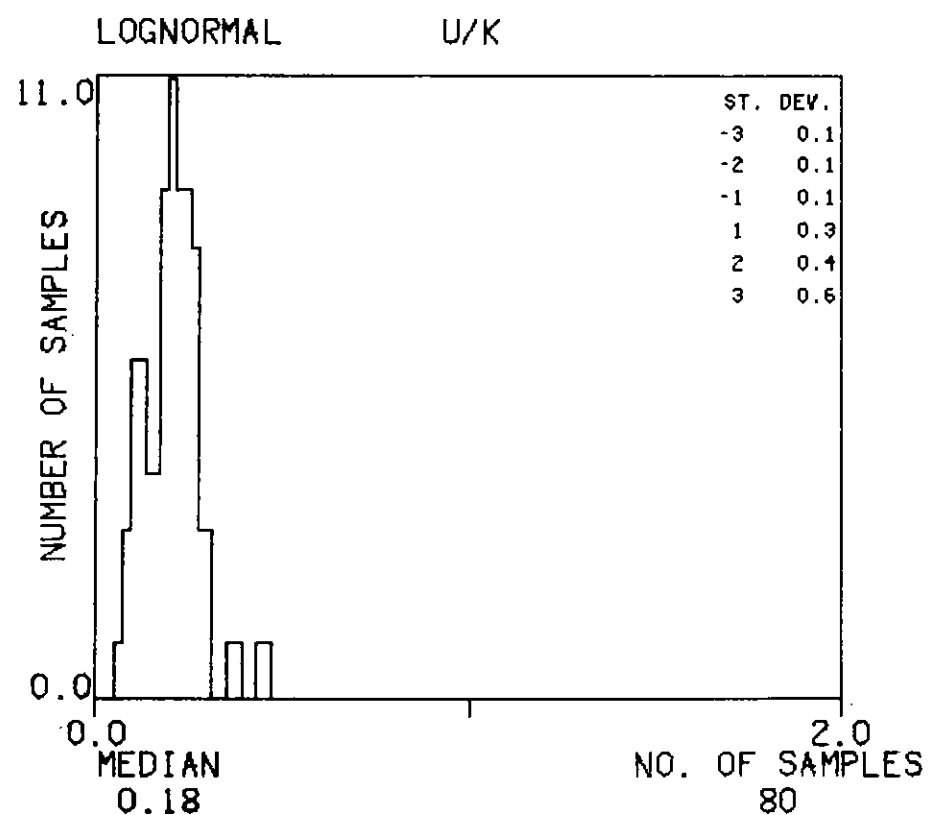
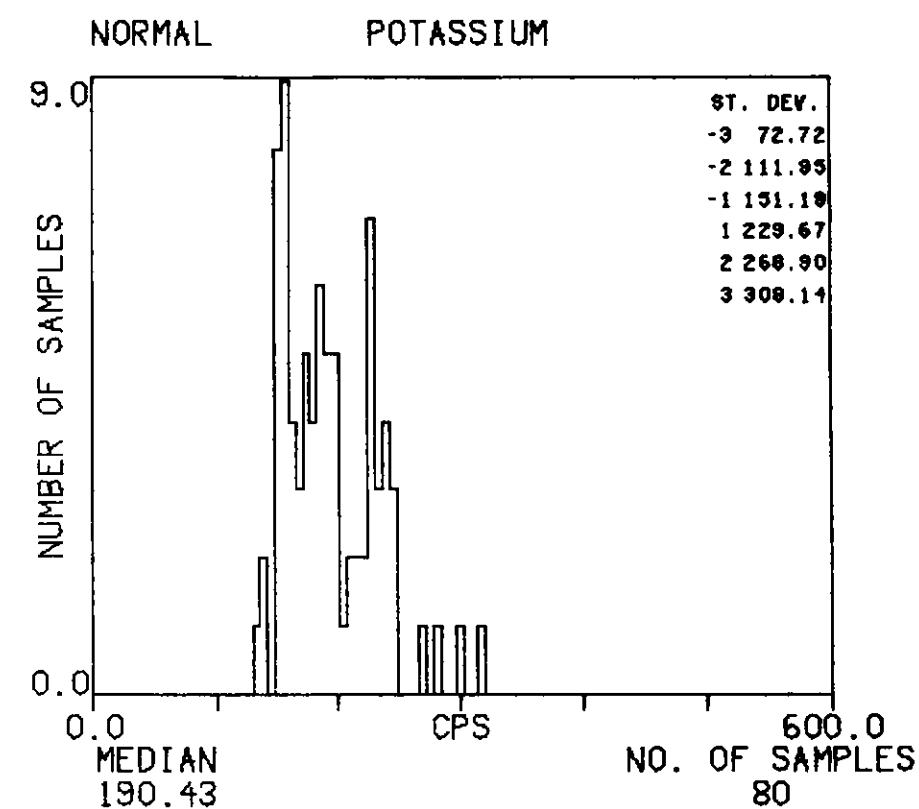
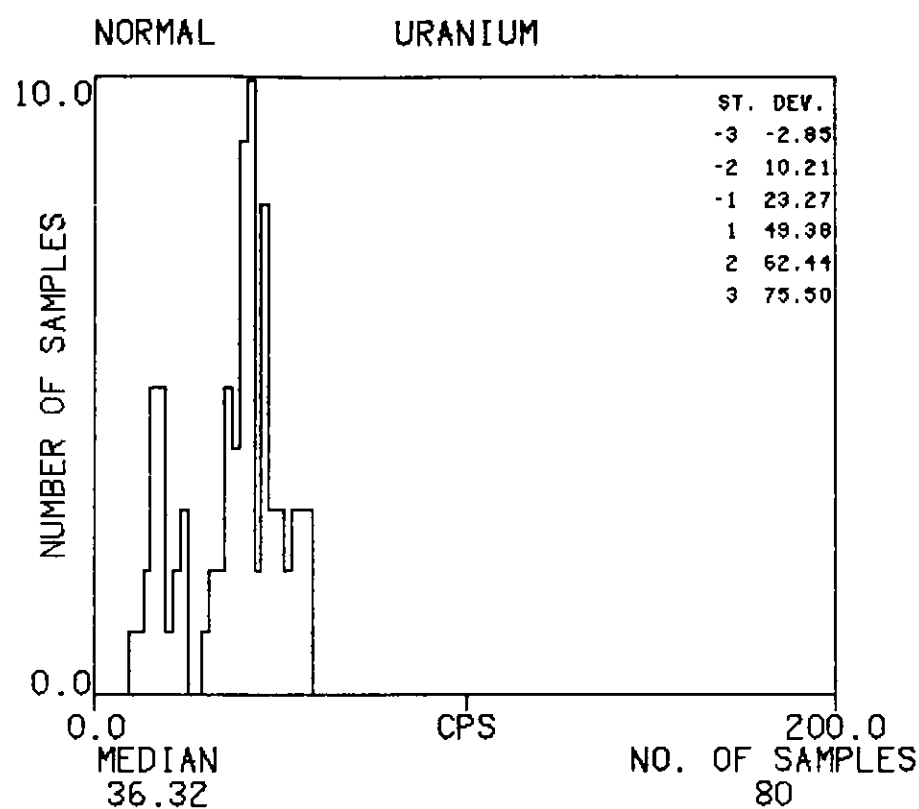
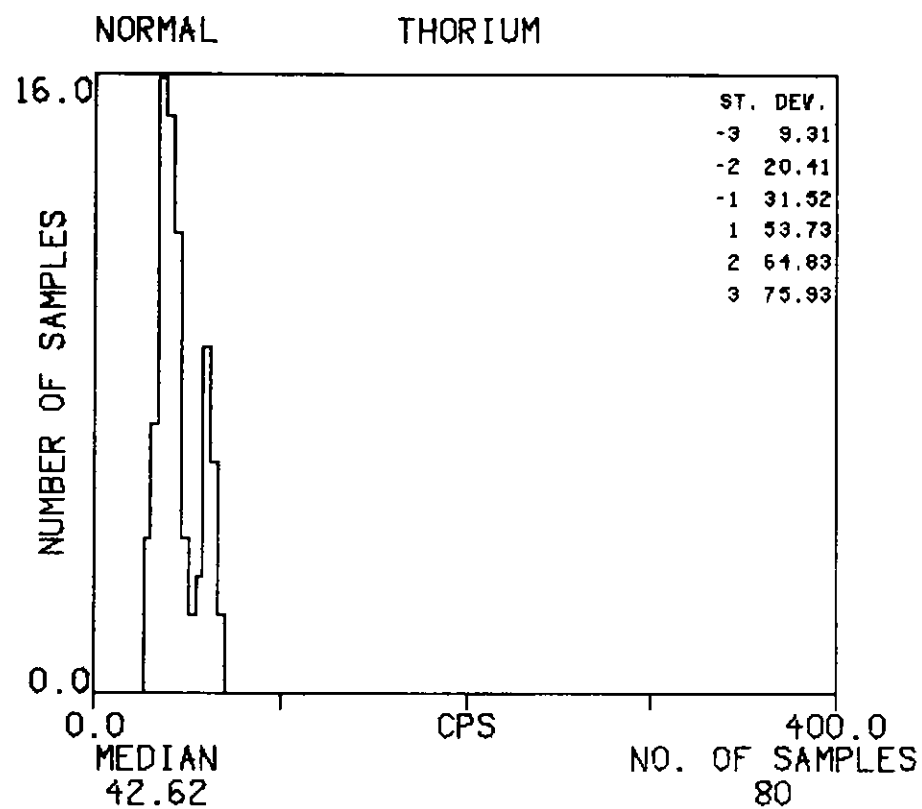
HISTOGRAMS : PPMD-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



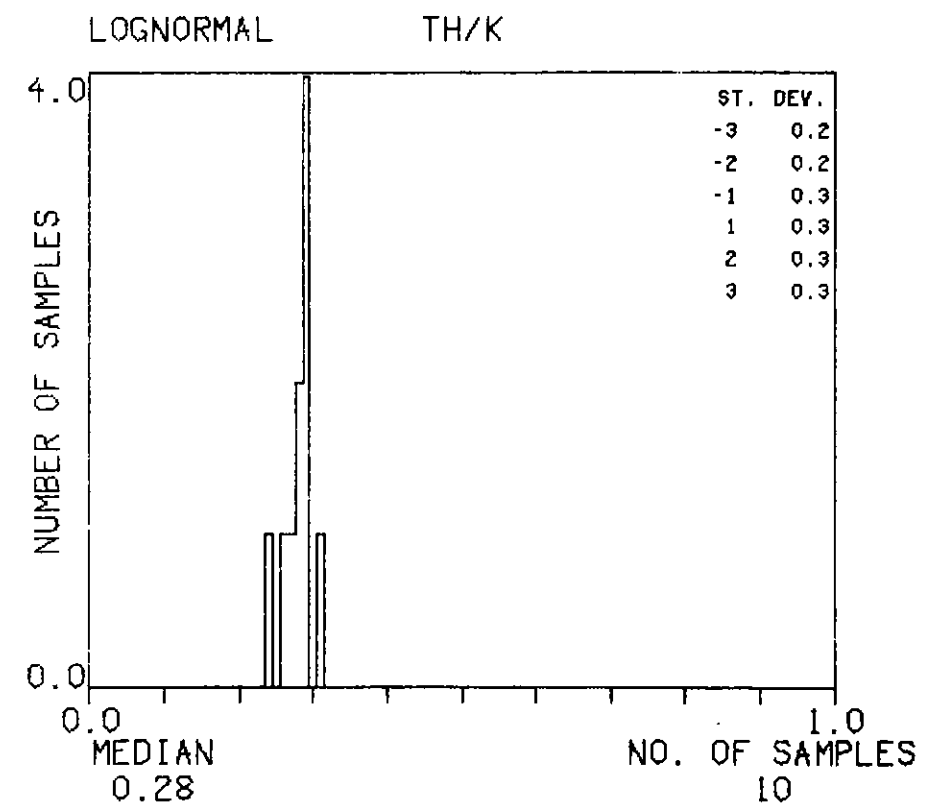
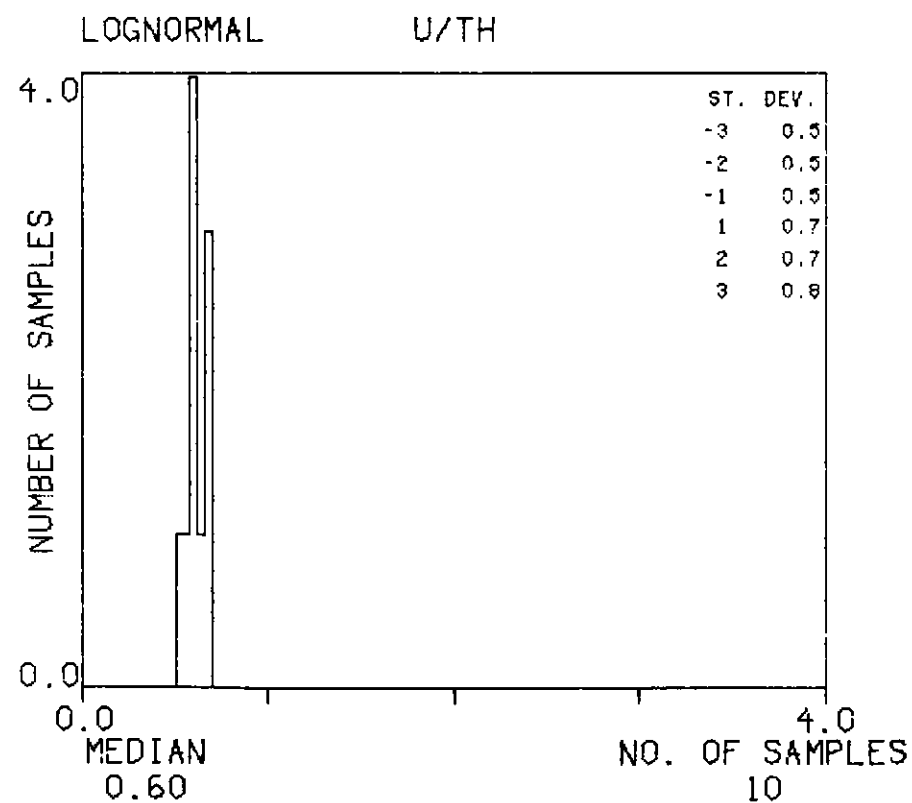
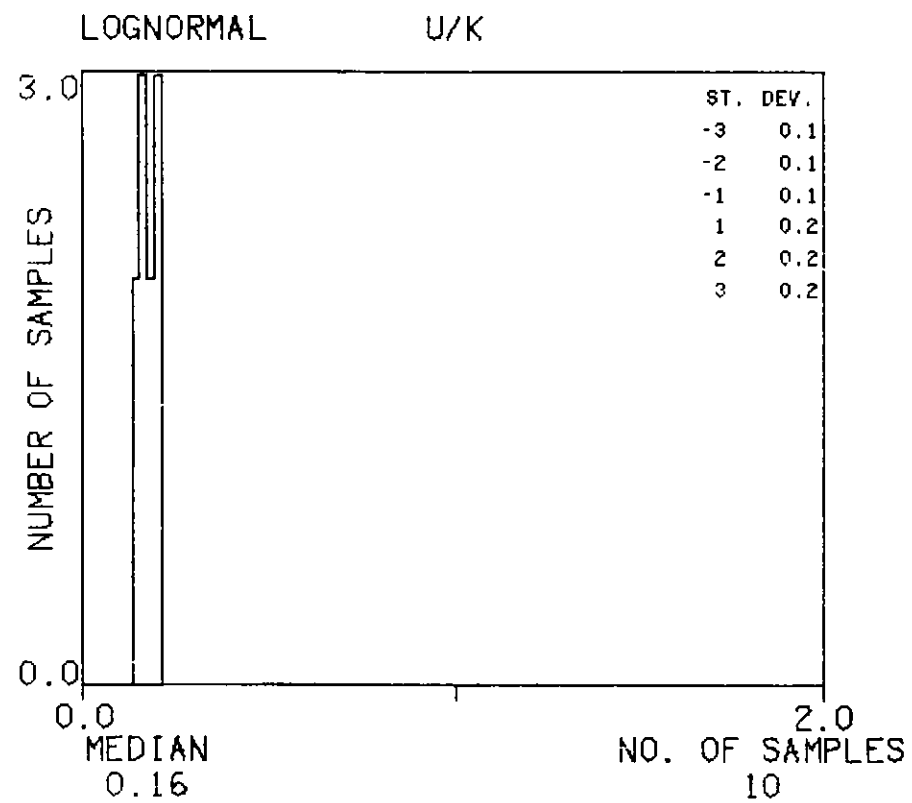
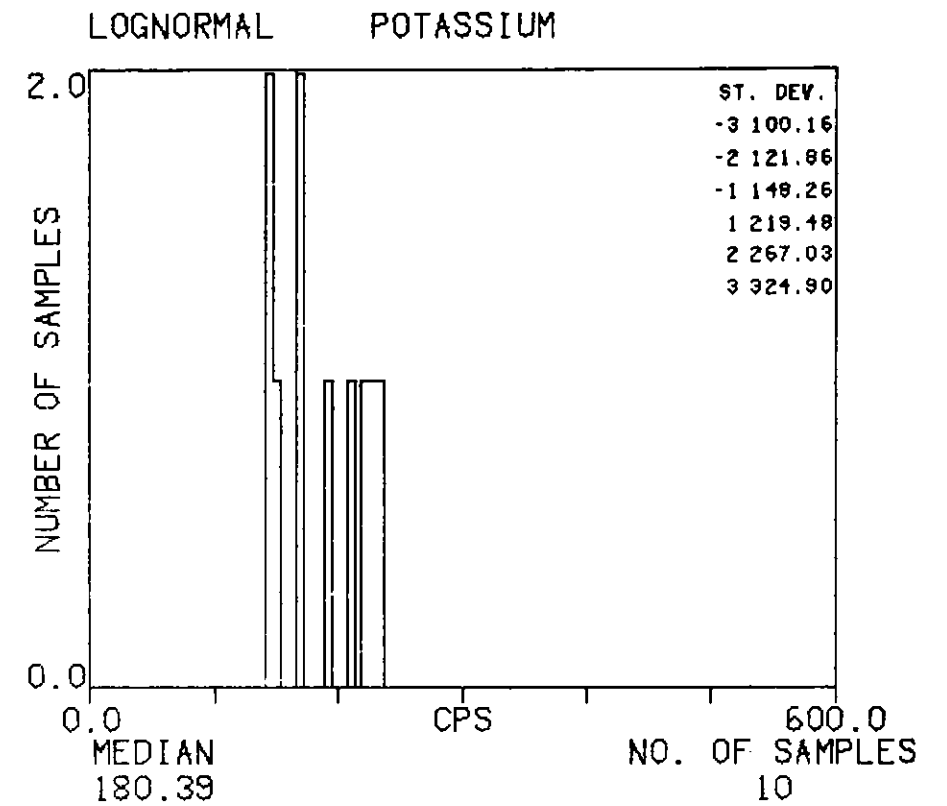
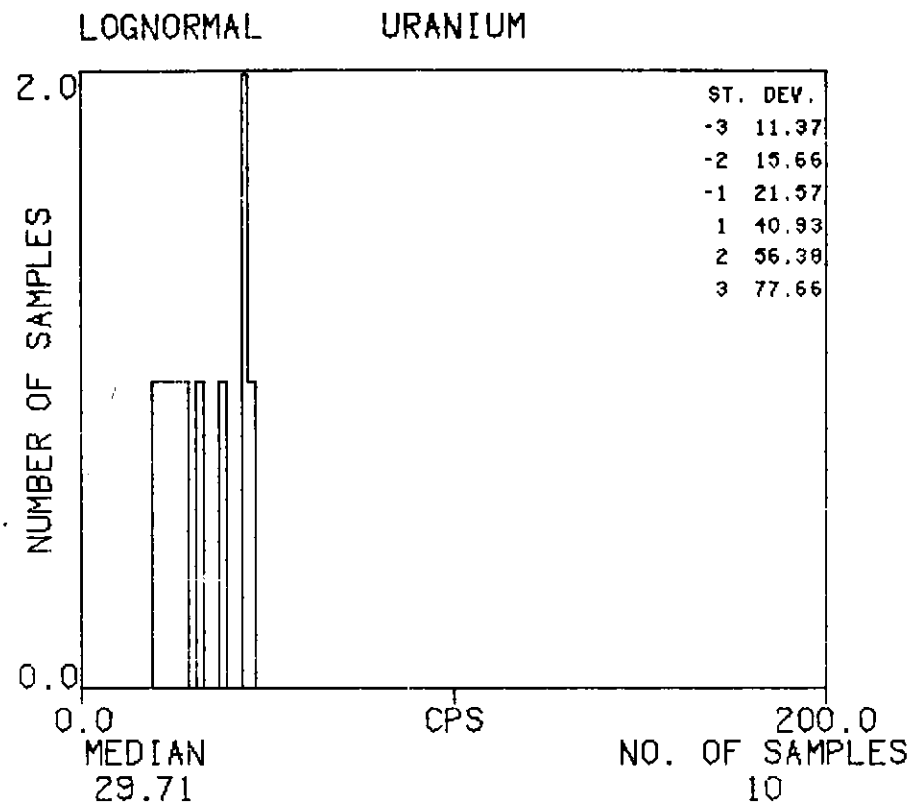
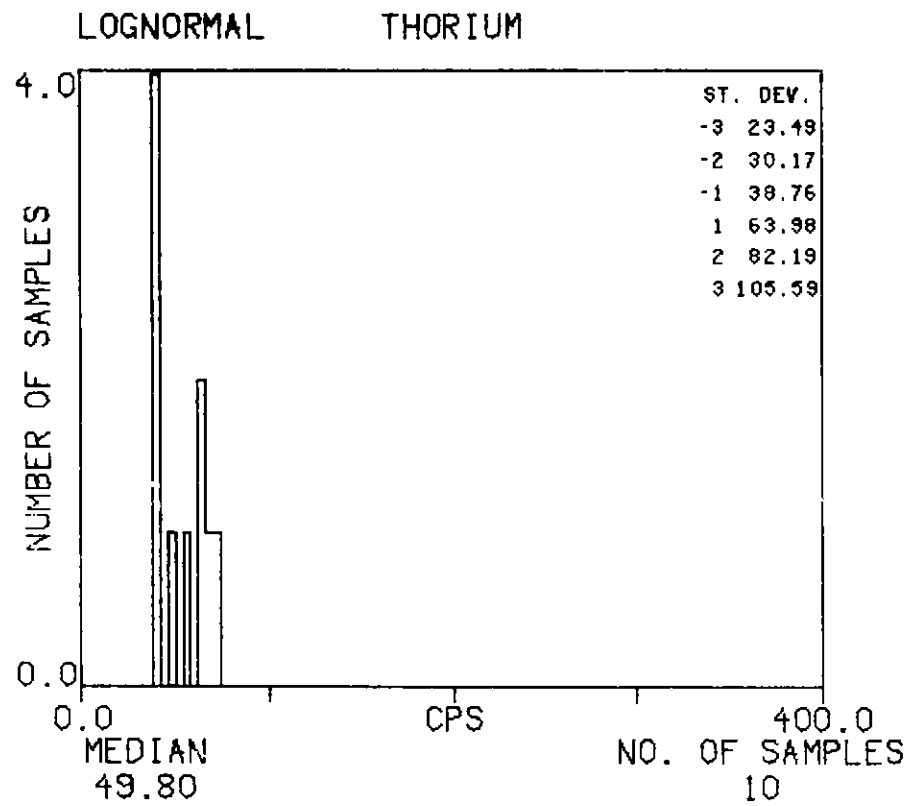
HISTOGRAMS : PPMD-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



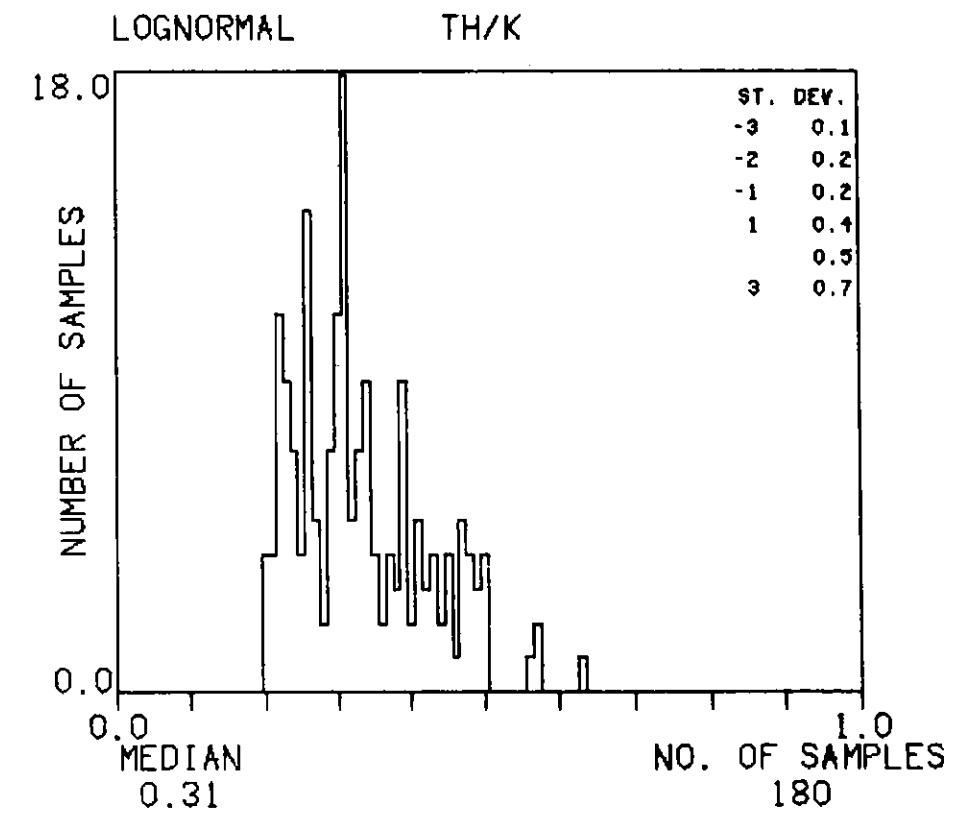
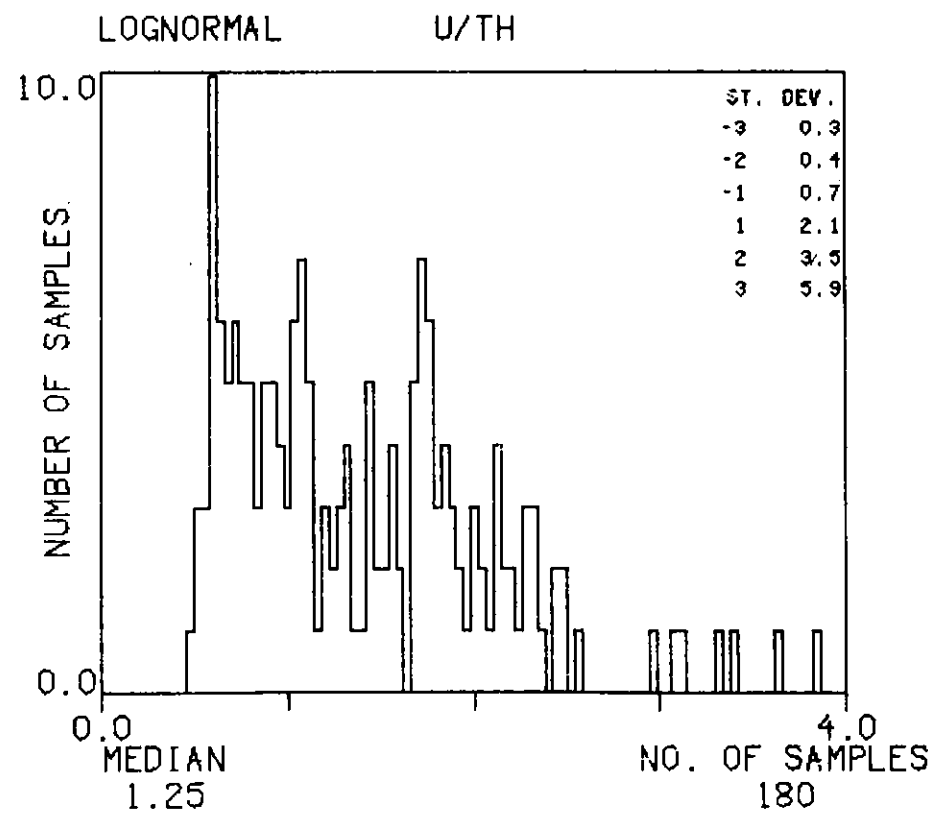
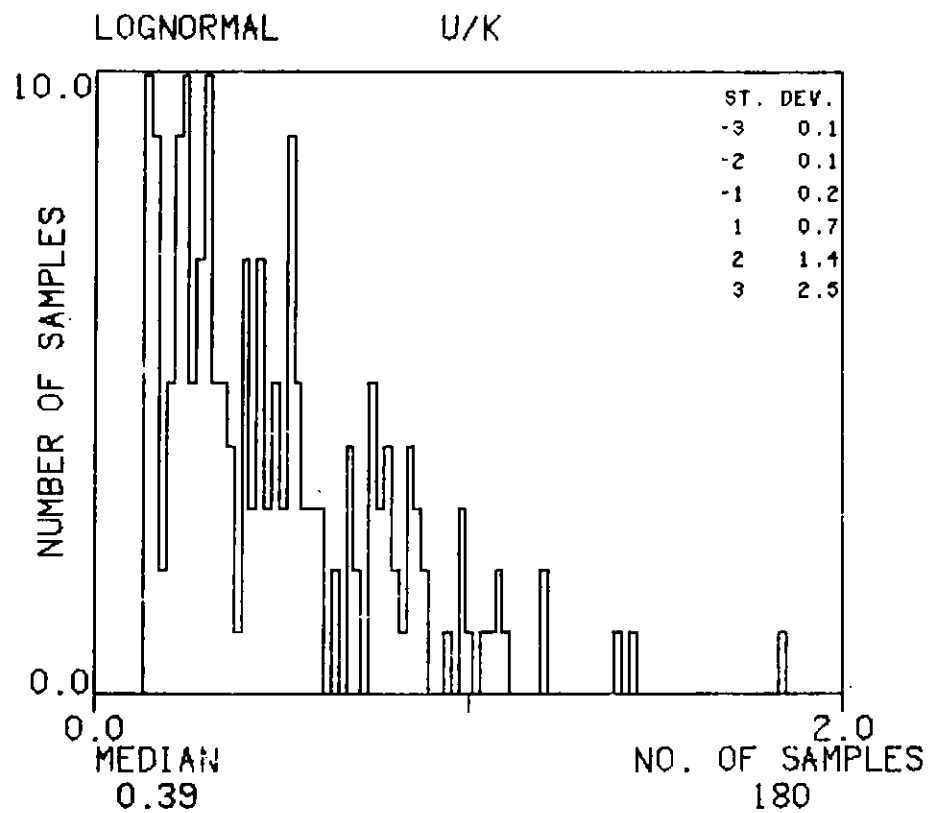
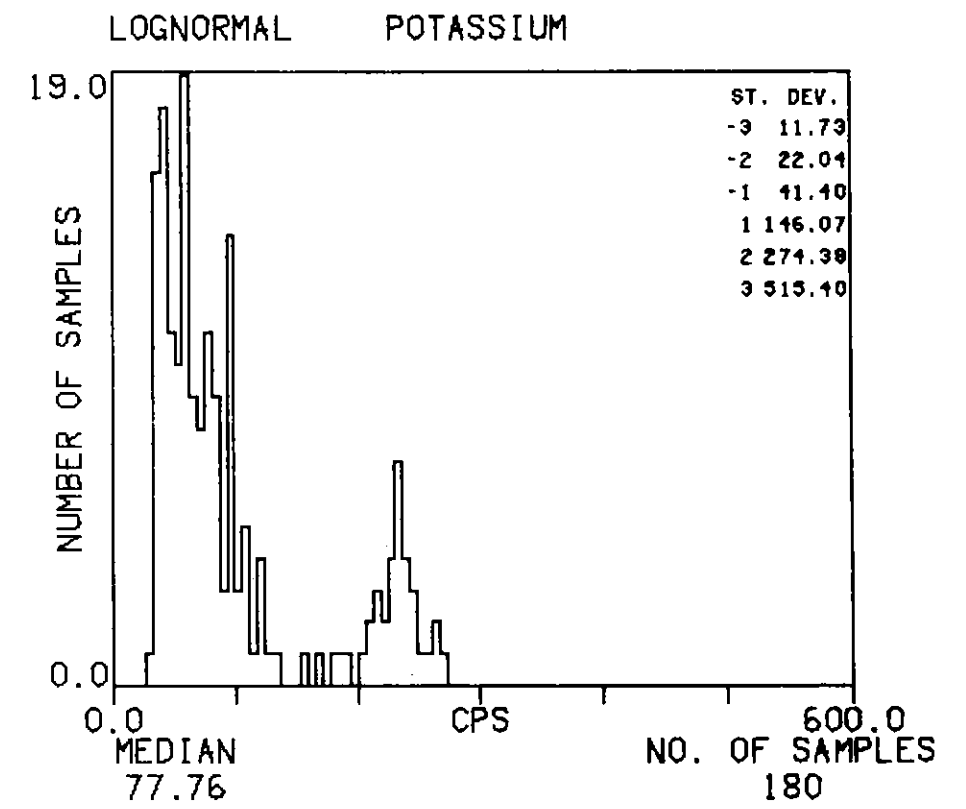
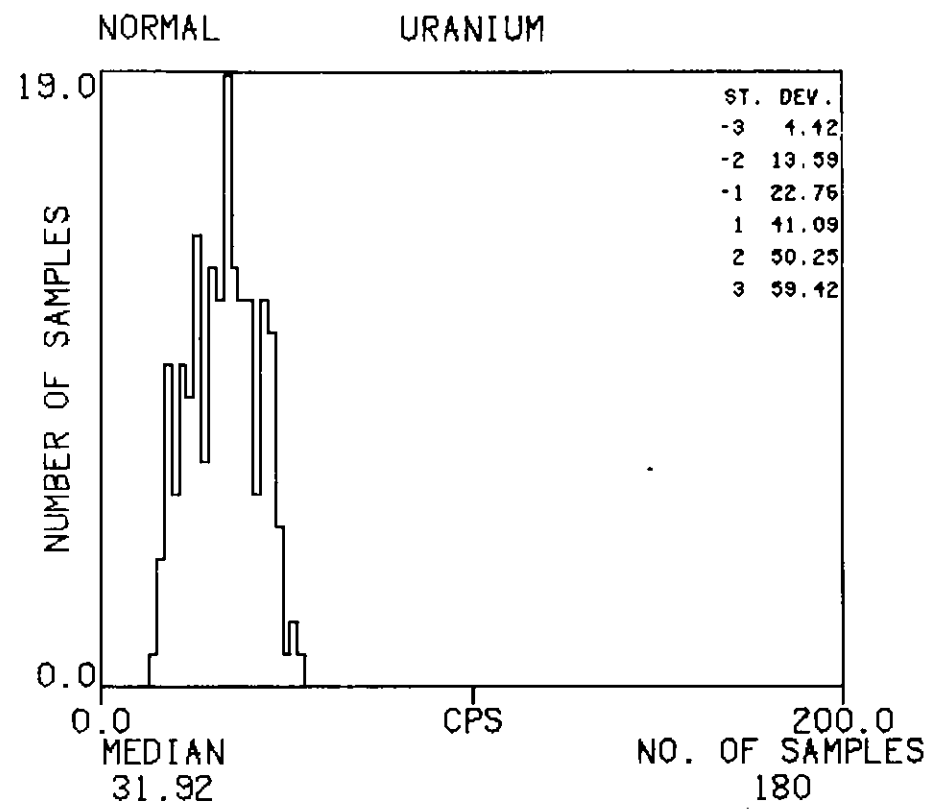
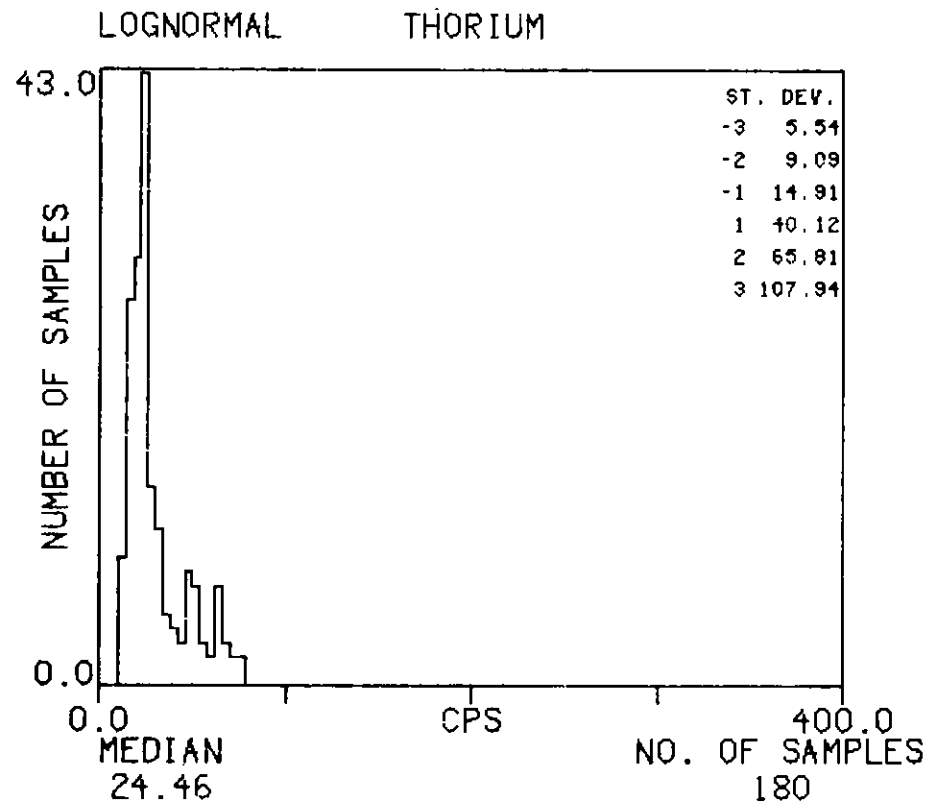
HISTOGRAMS : ME

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



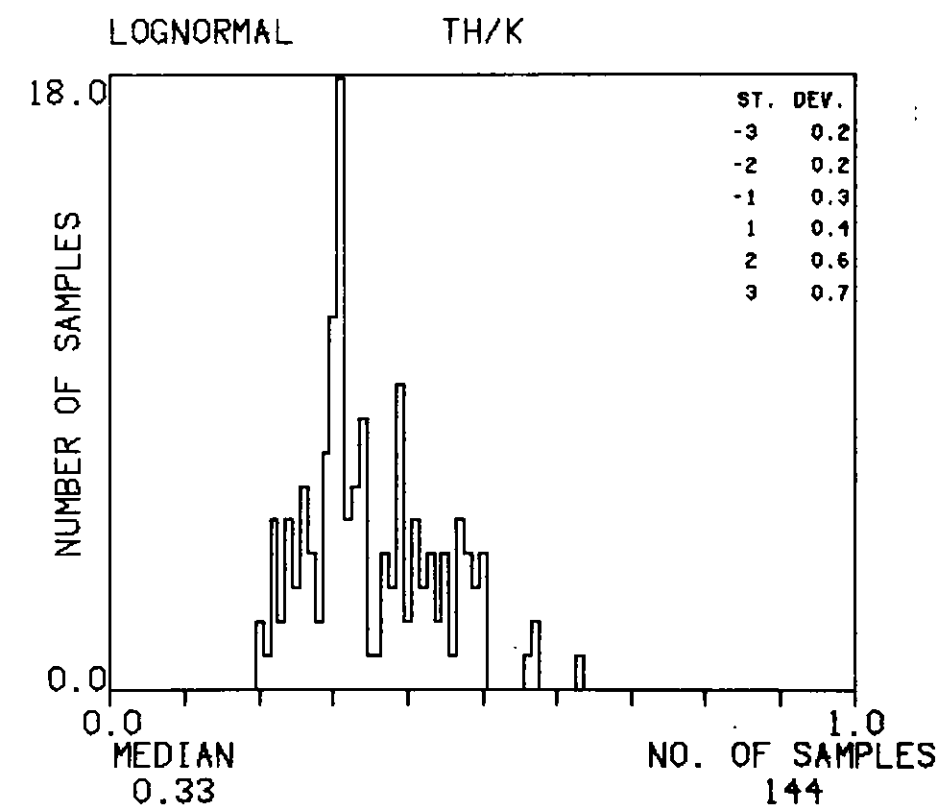
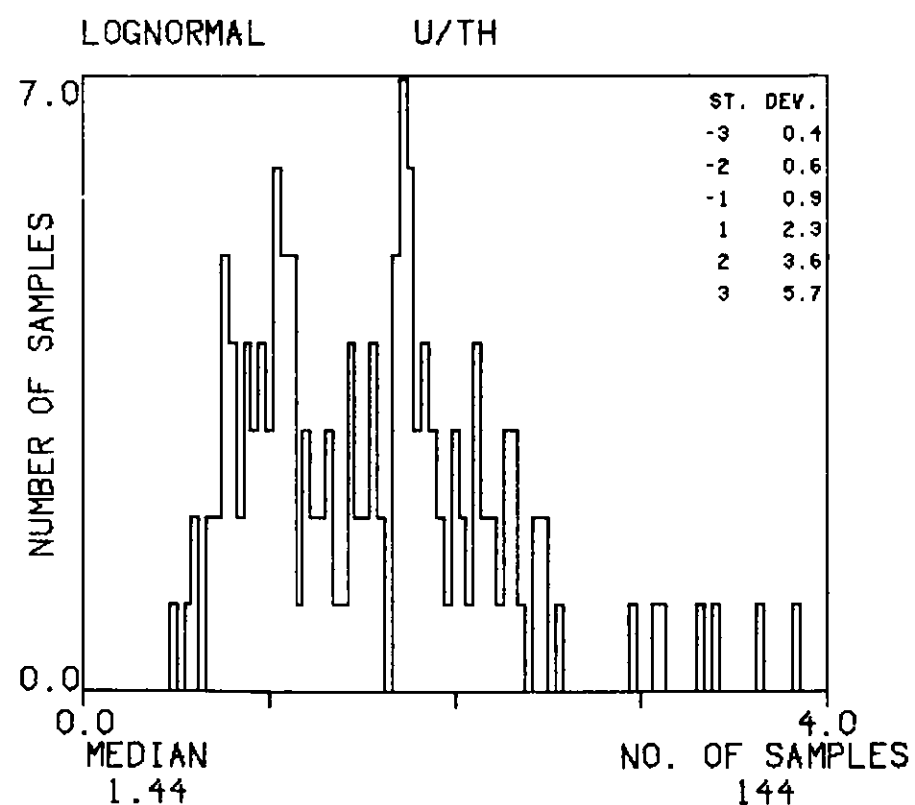
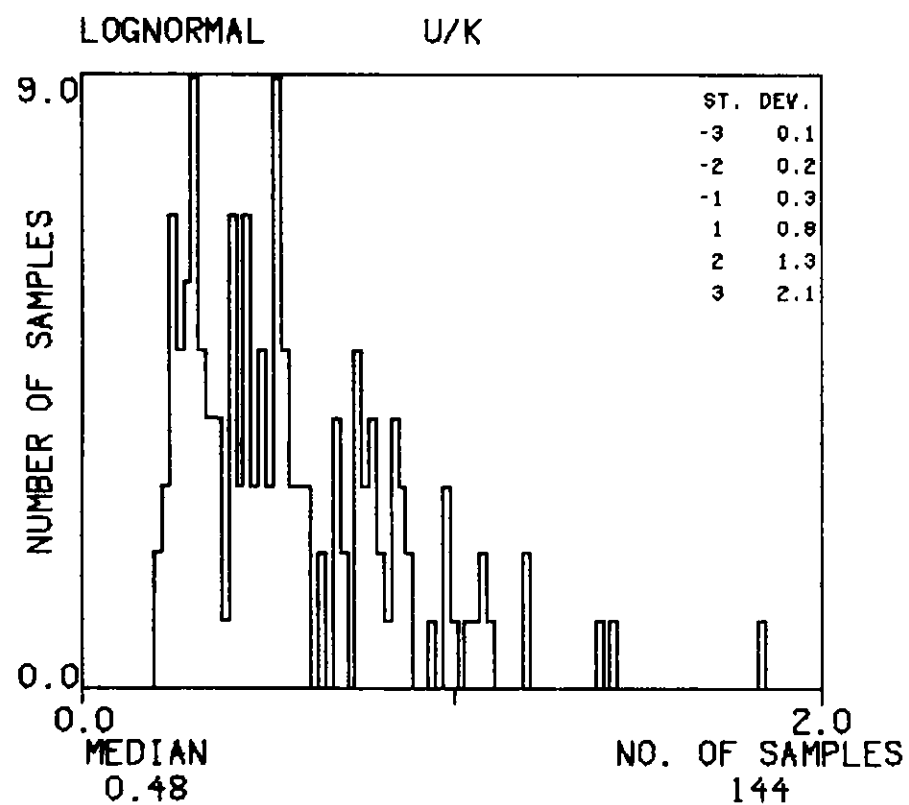
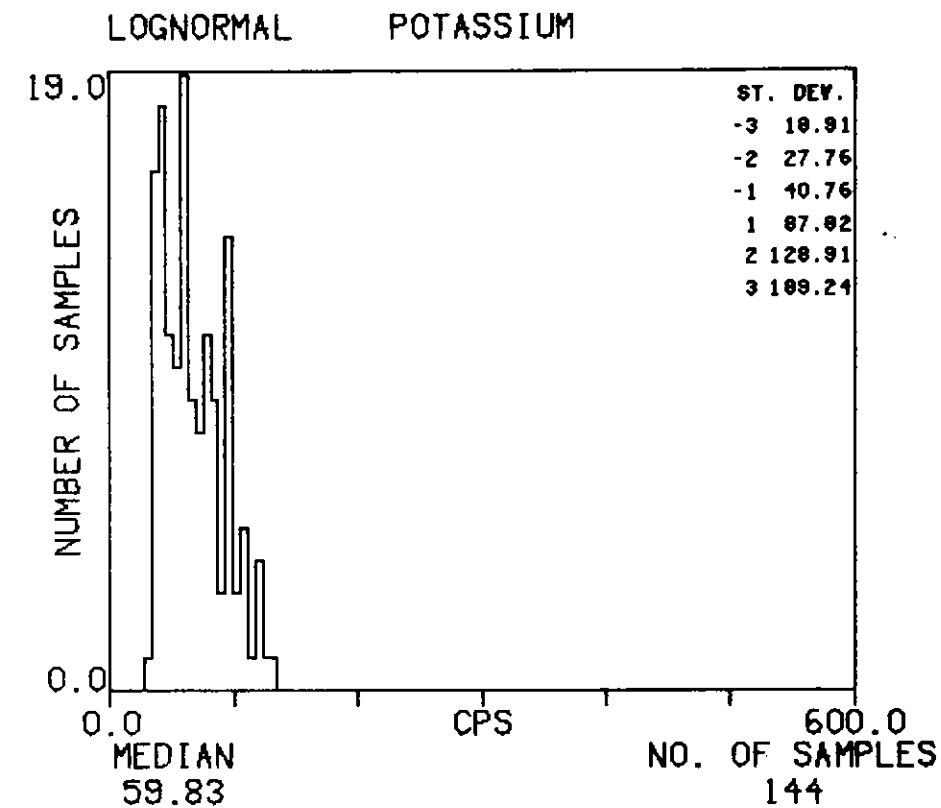
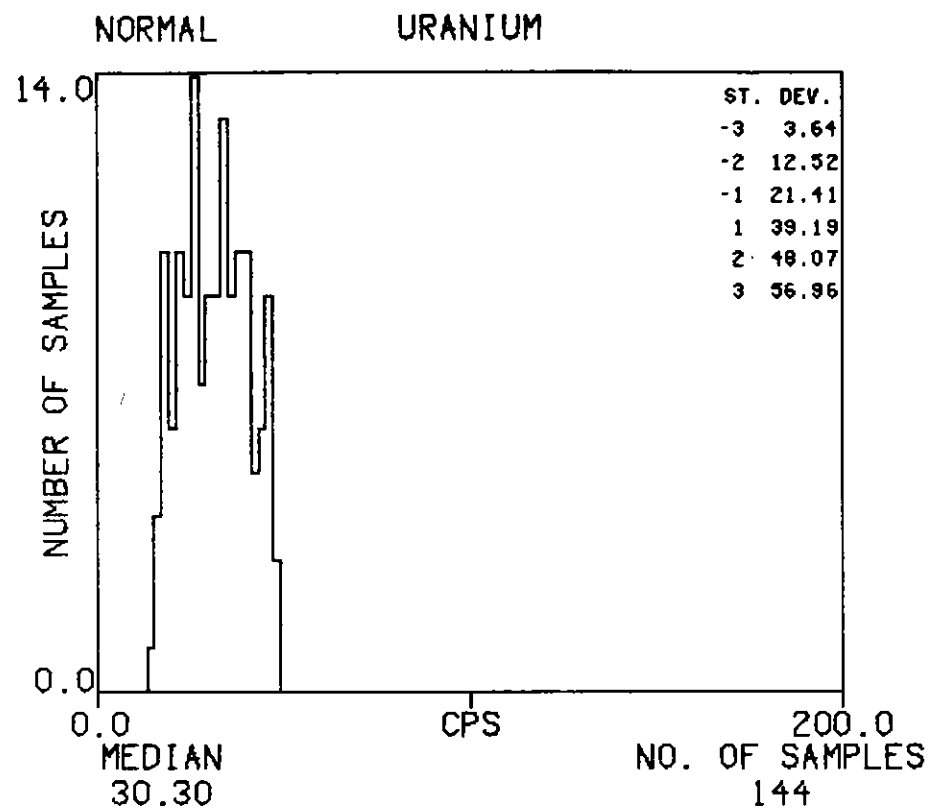
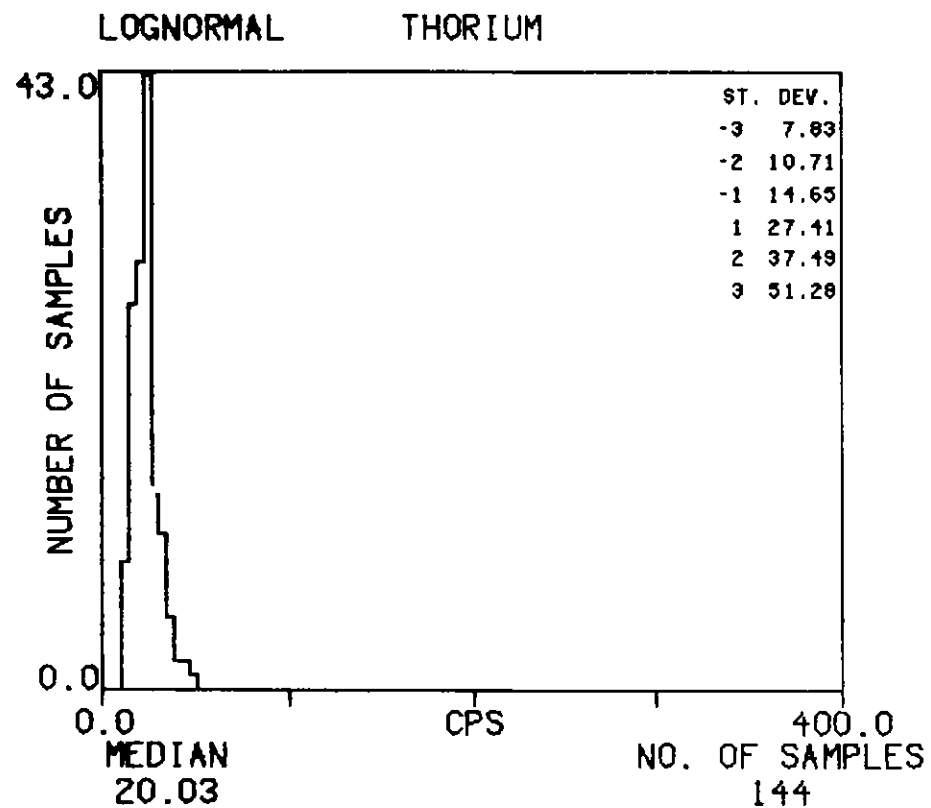
HISTOGRAMS : MD

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



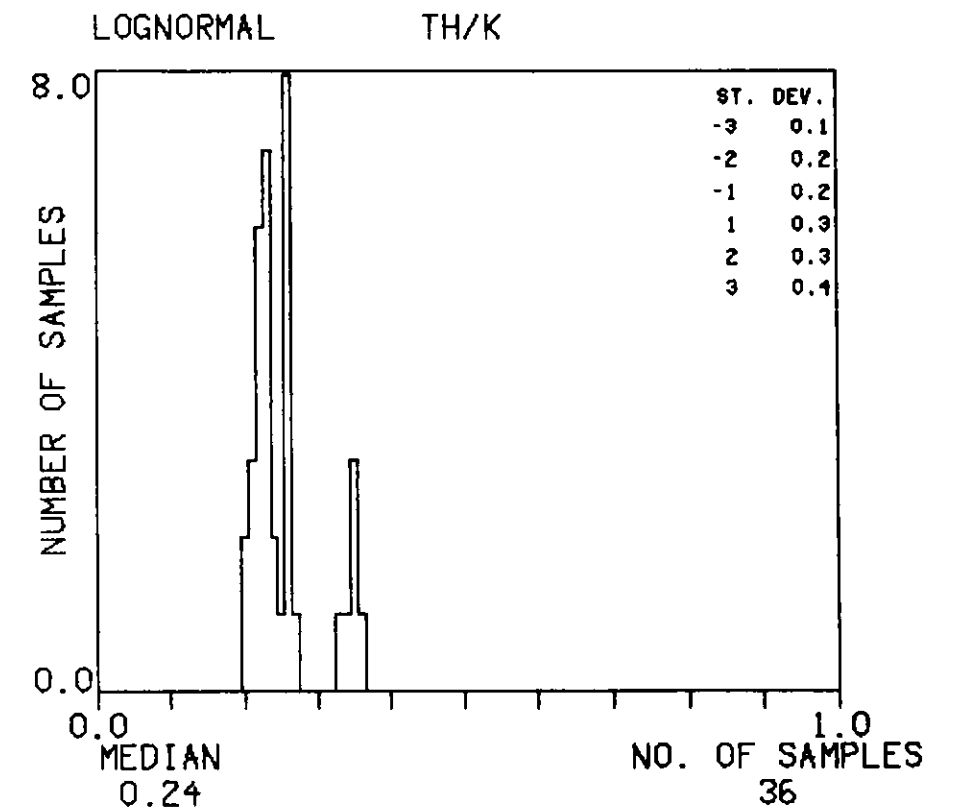
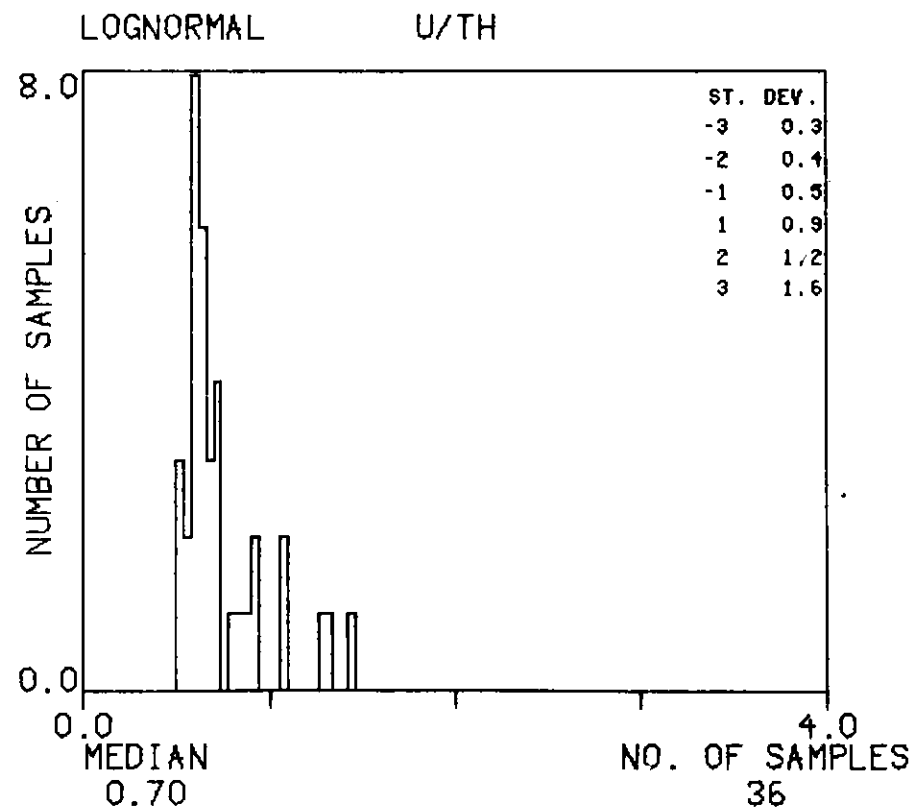
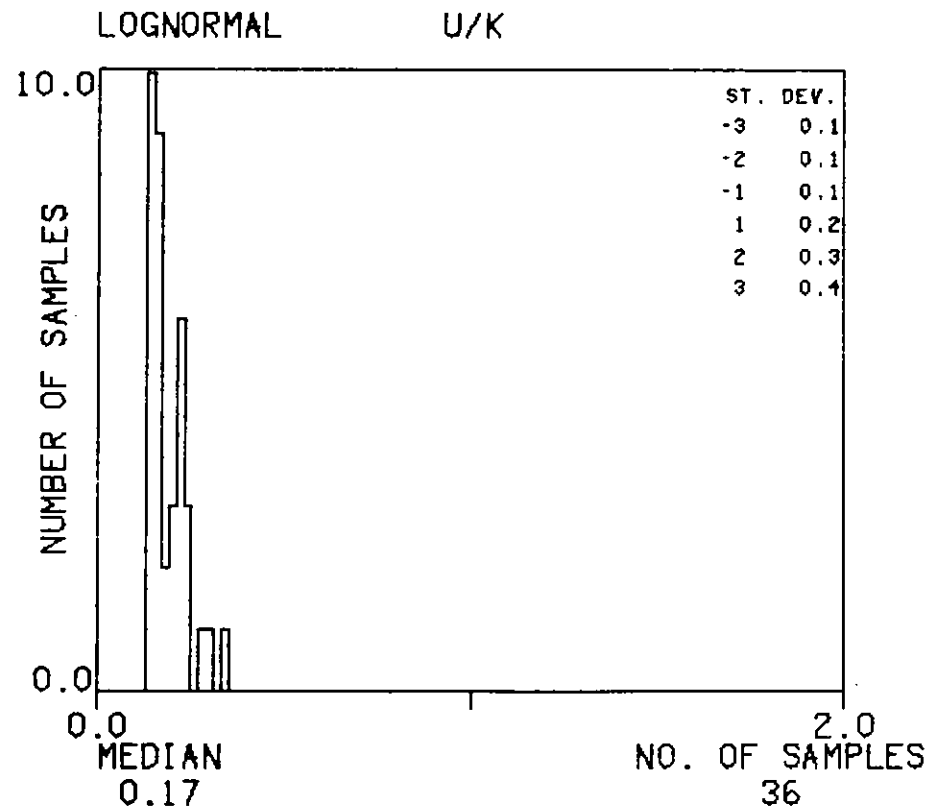
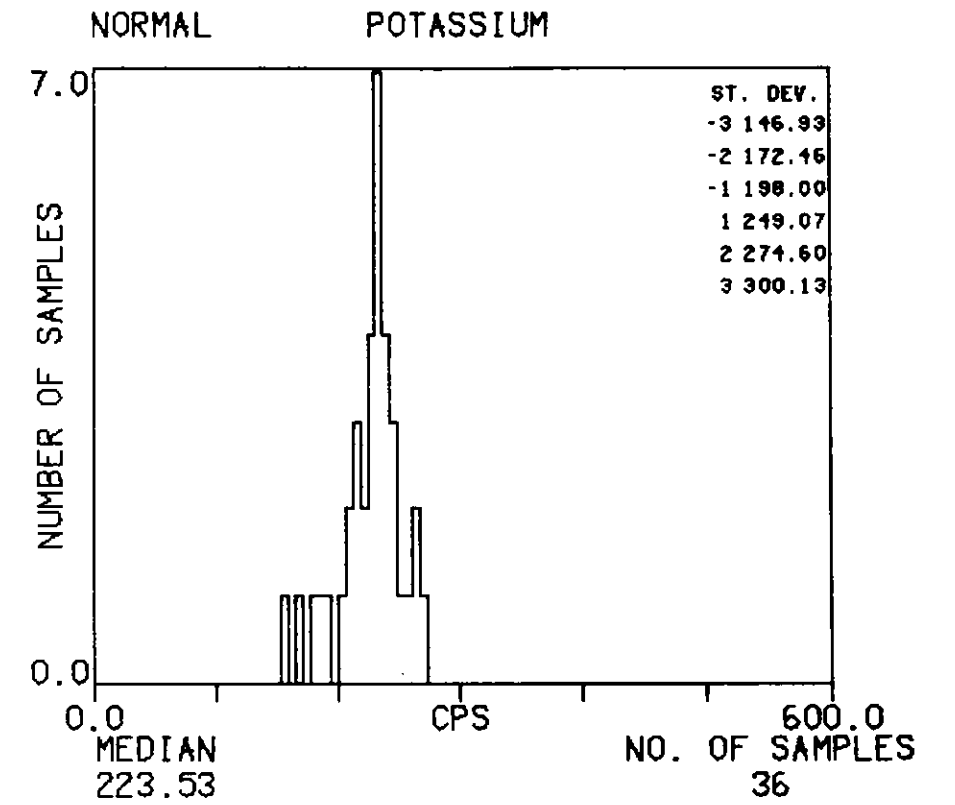
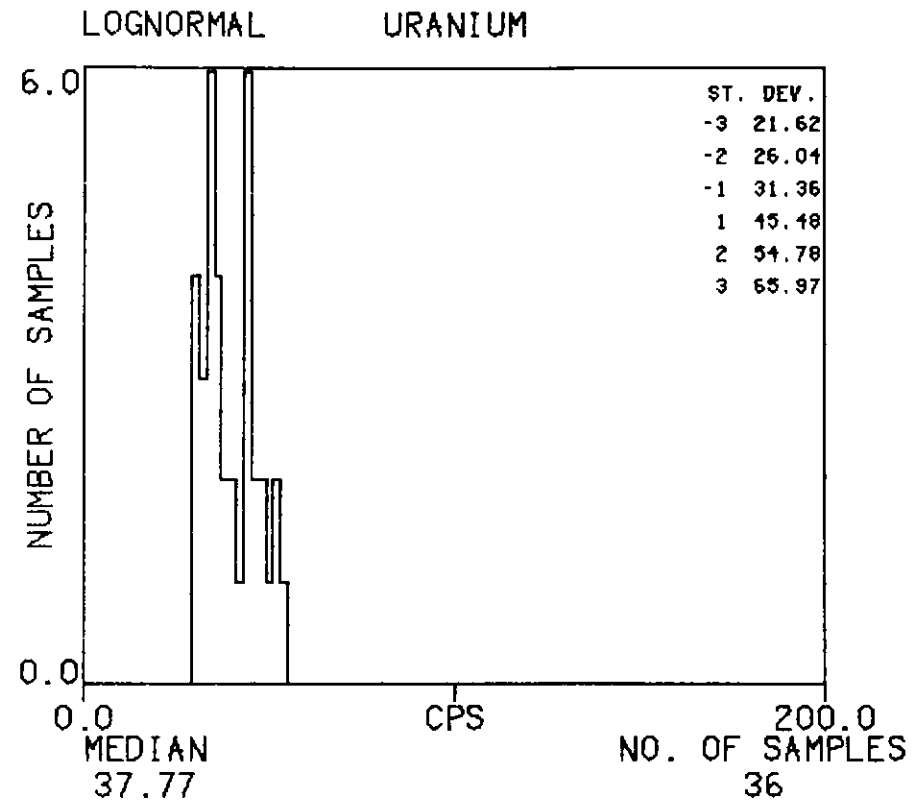
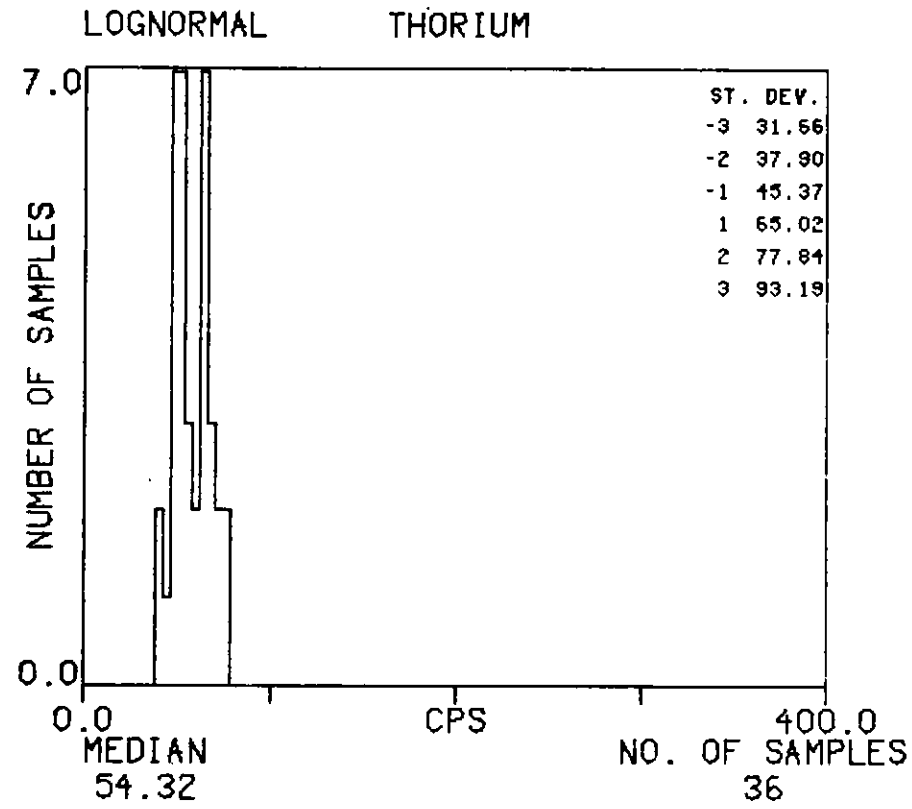
HISTOGRAMS : MD-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



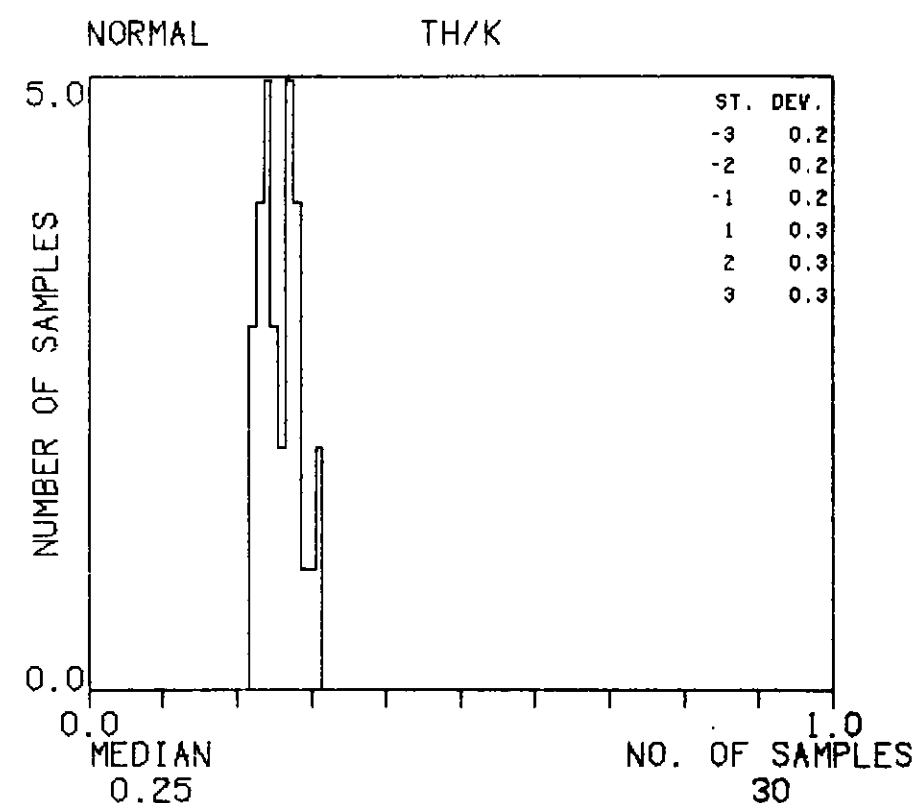
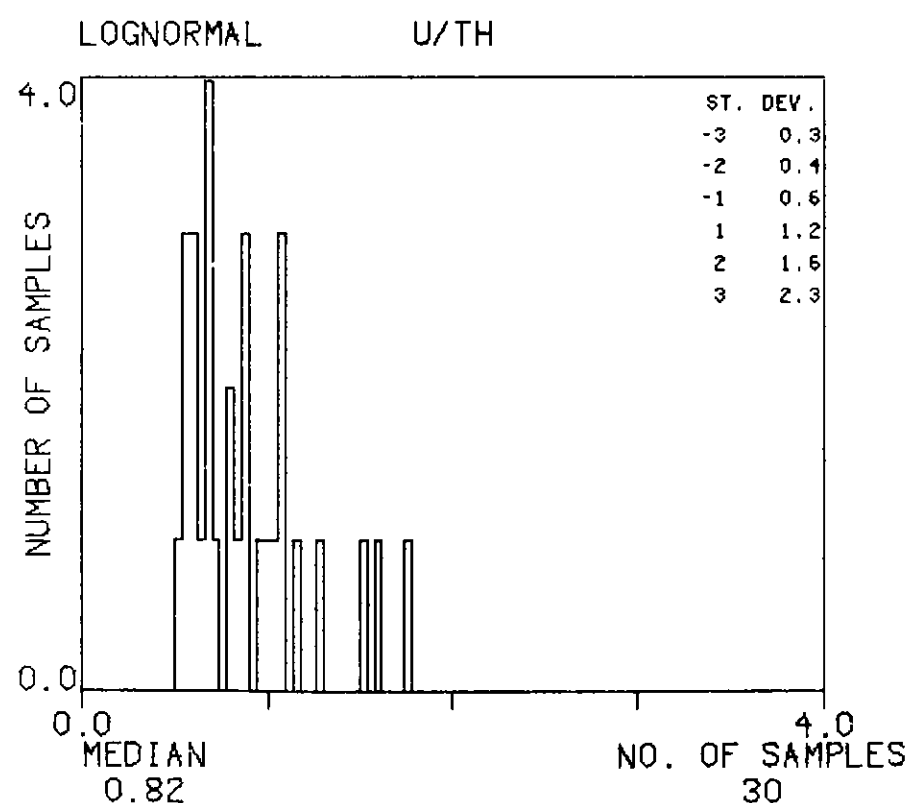
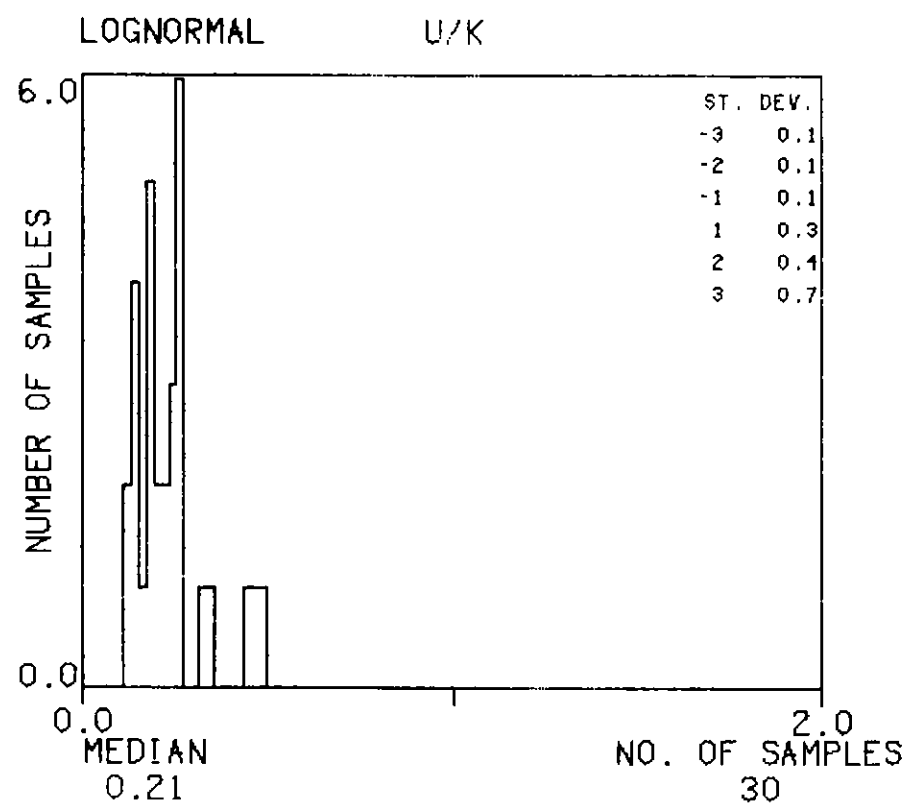
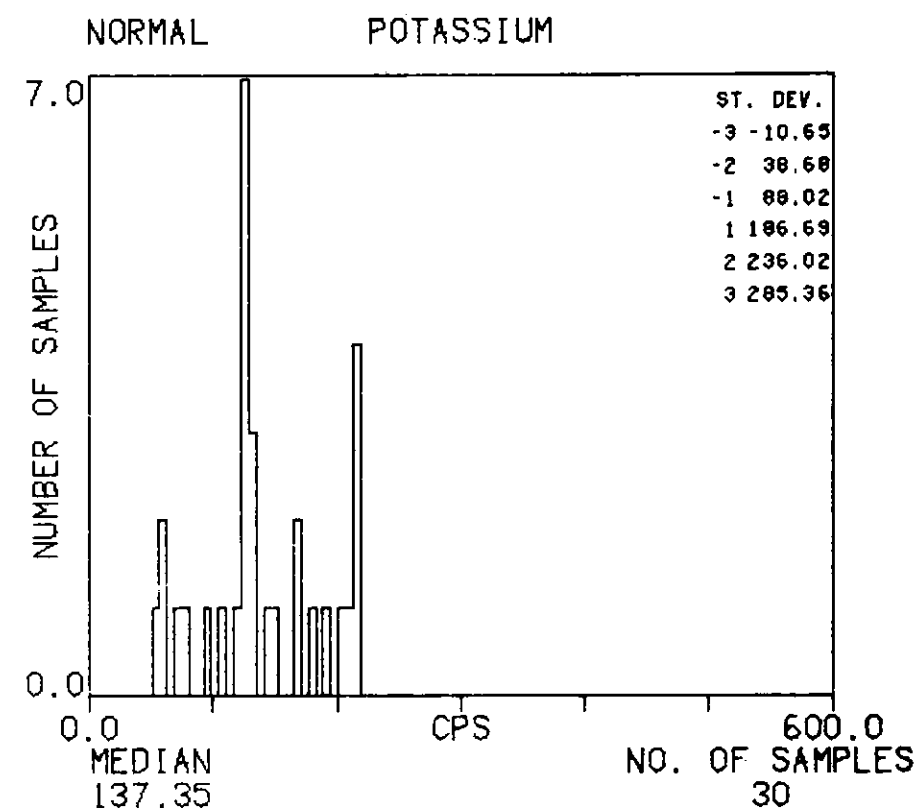
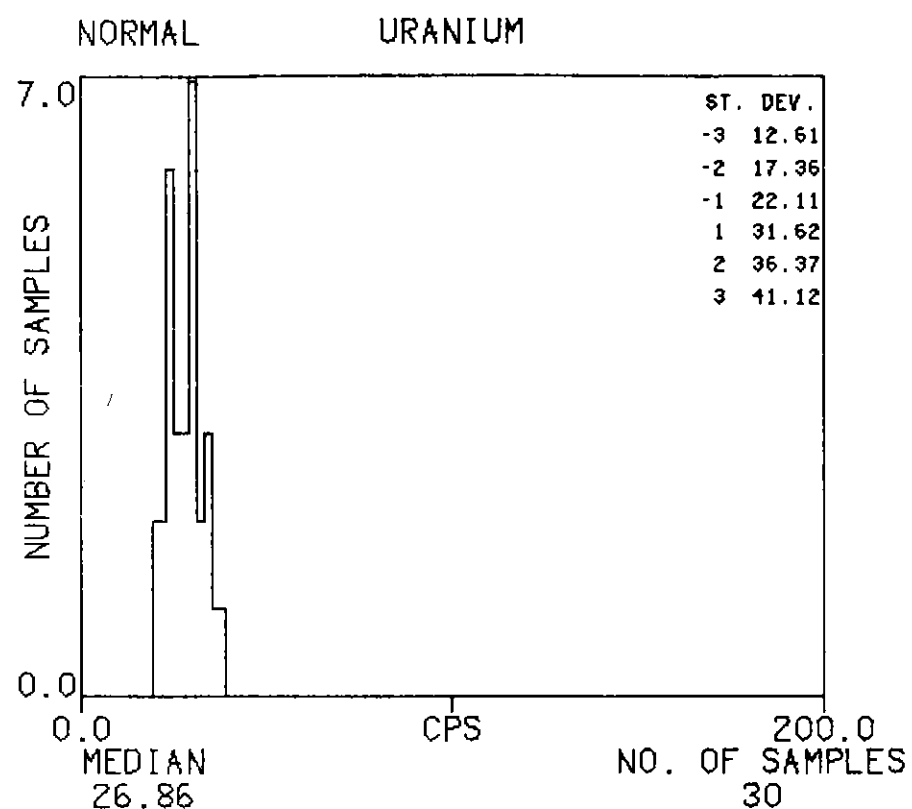
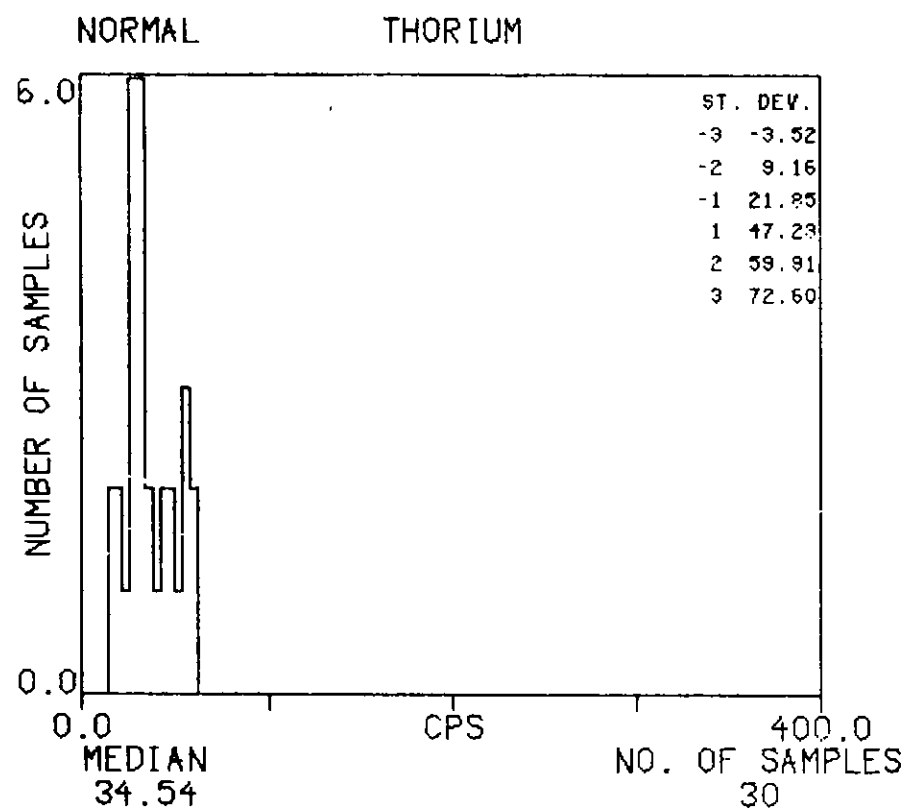
HISTOGRAMS : MD-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



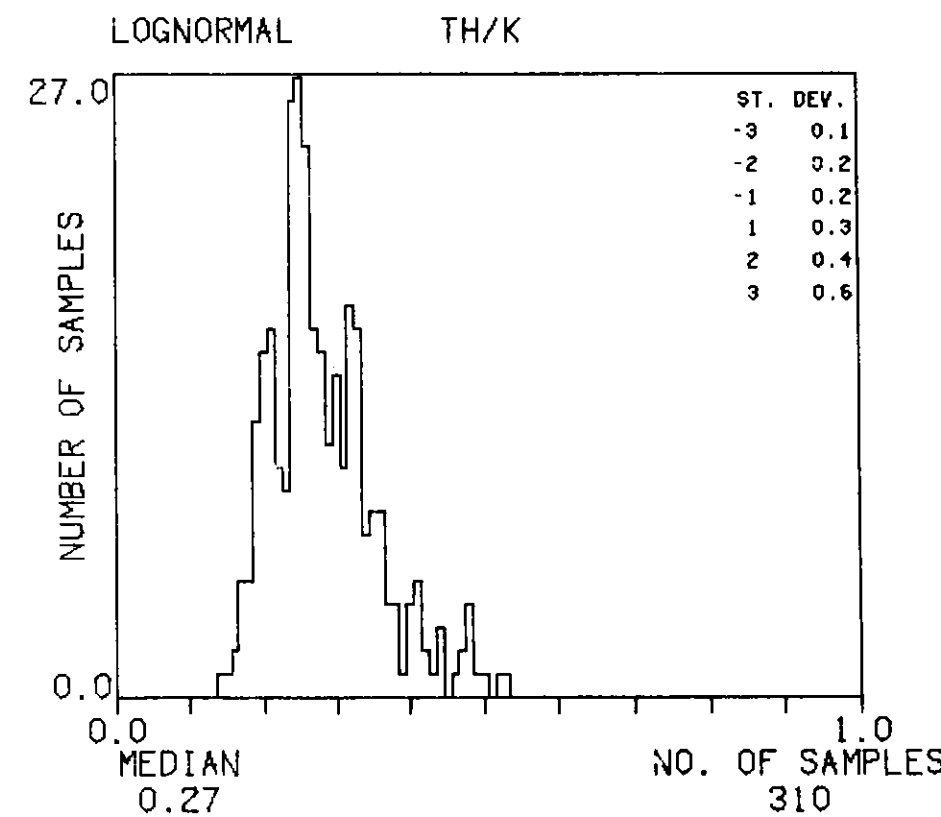
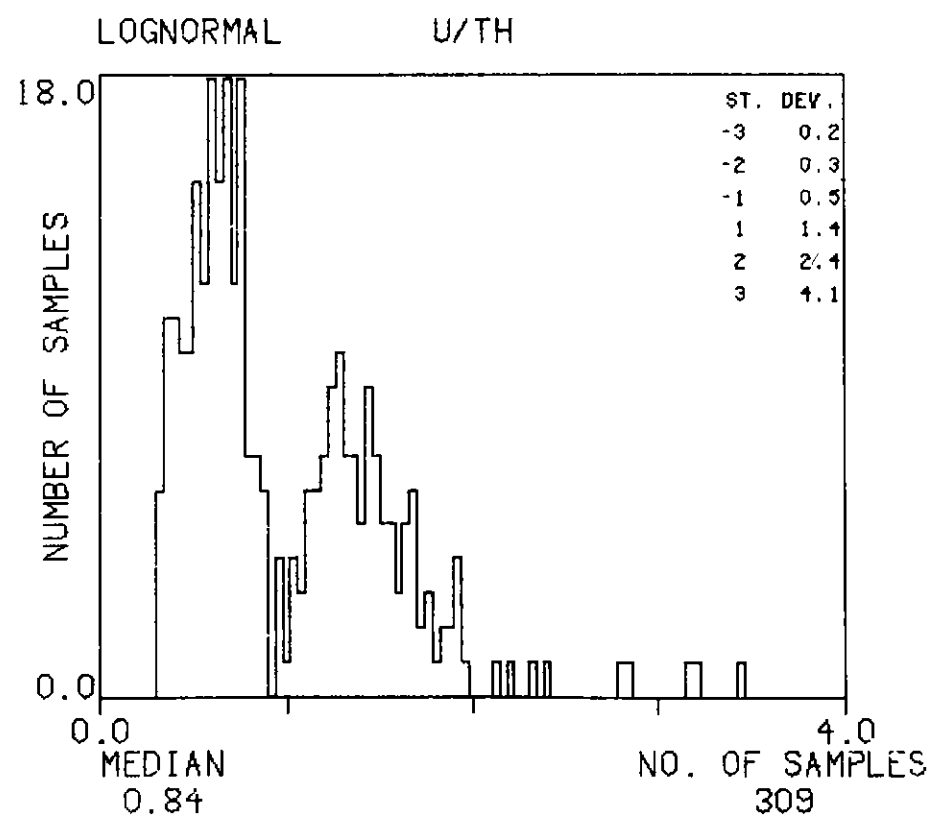
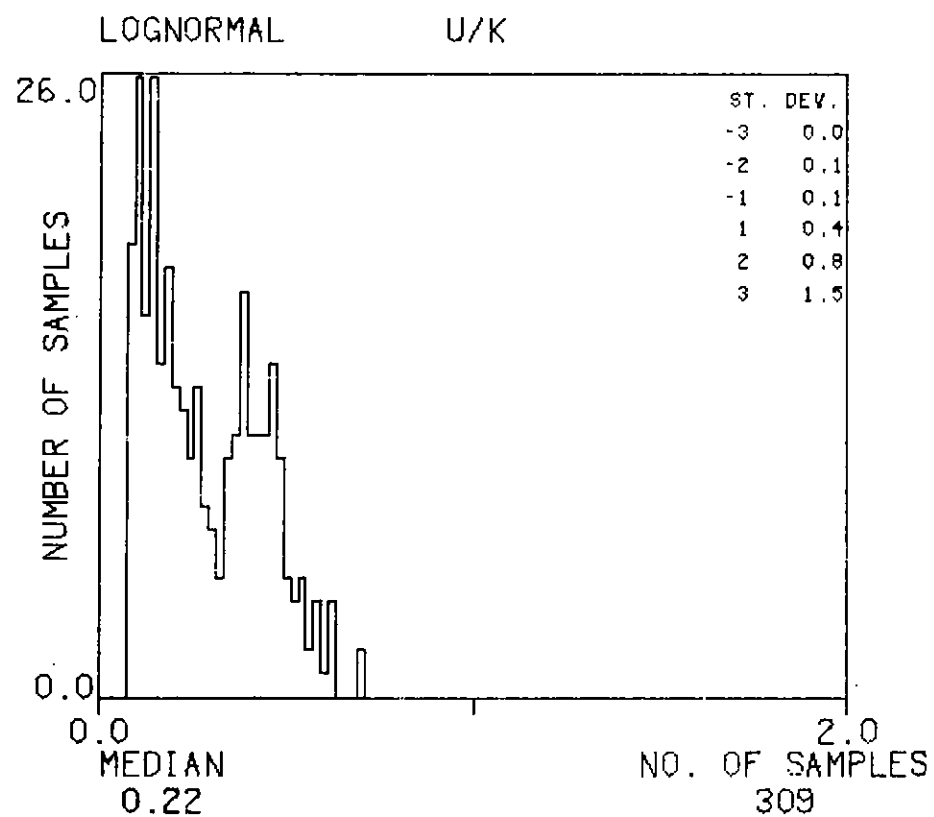
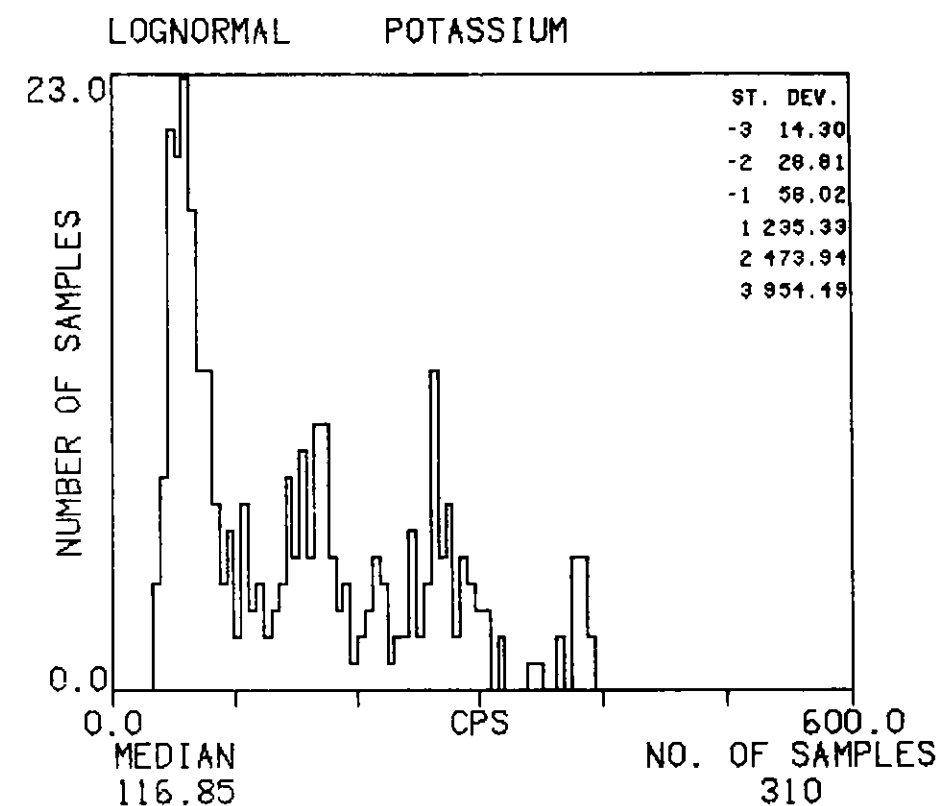
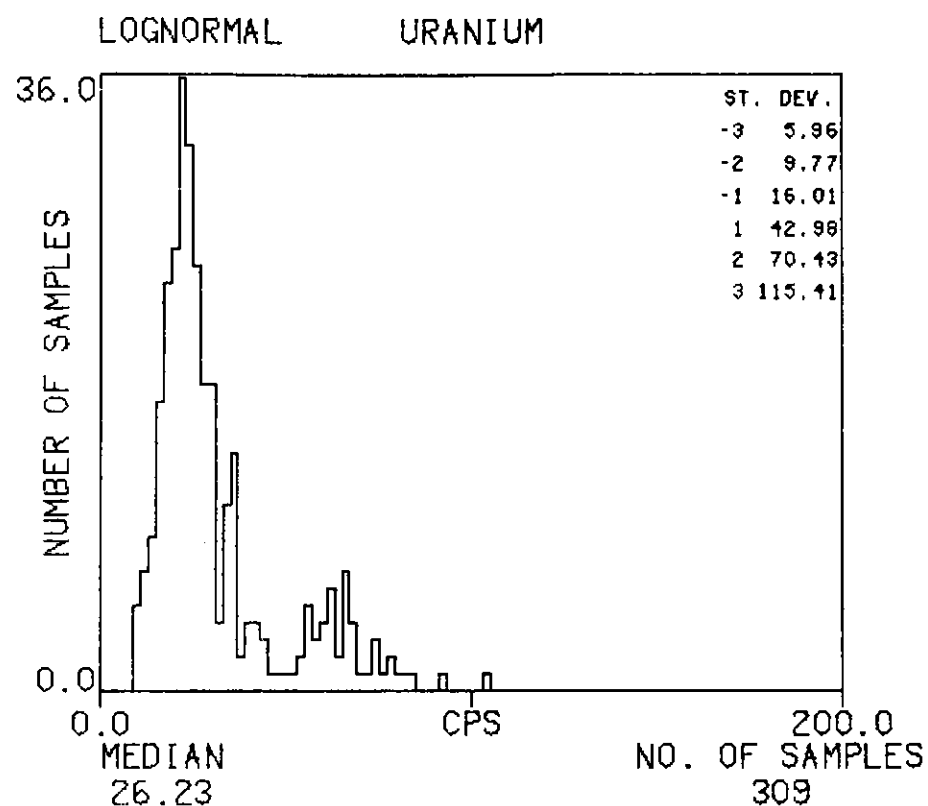
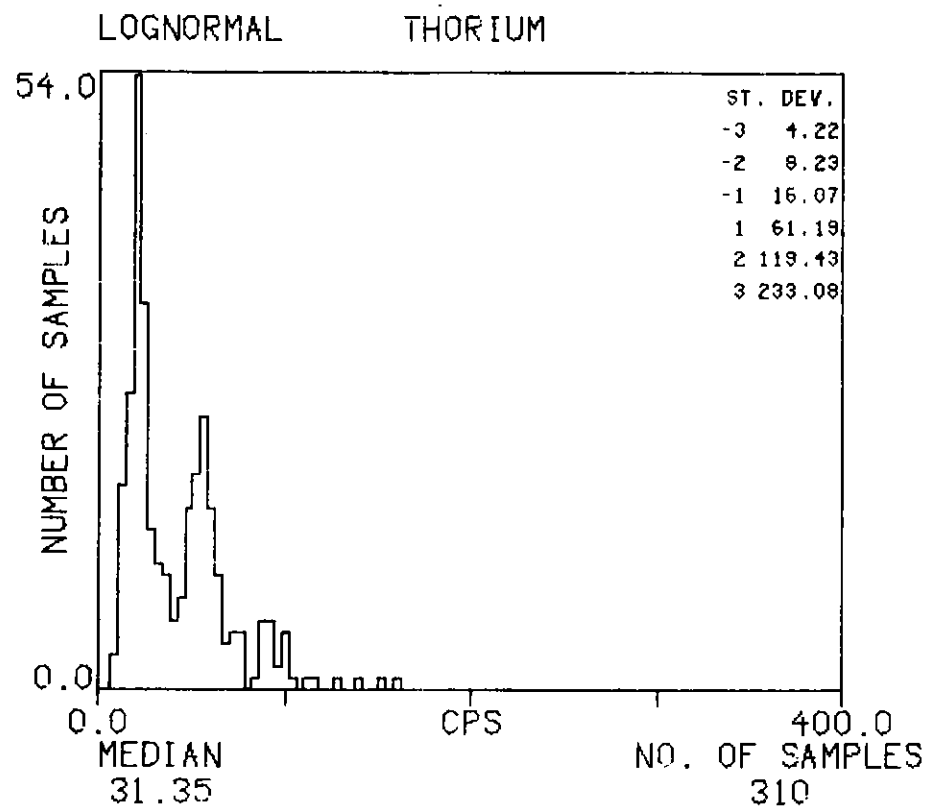
HISTOGRAMS : DP

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



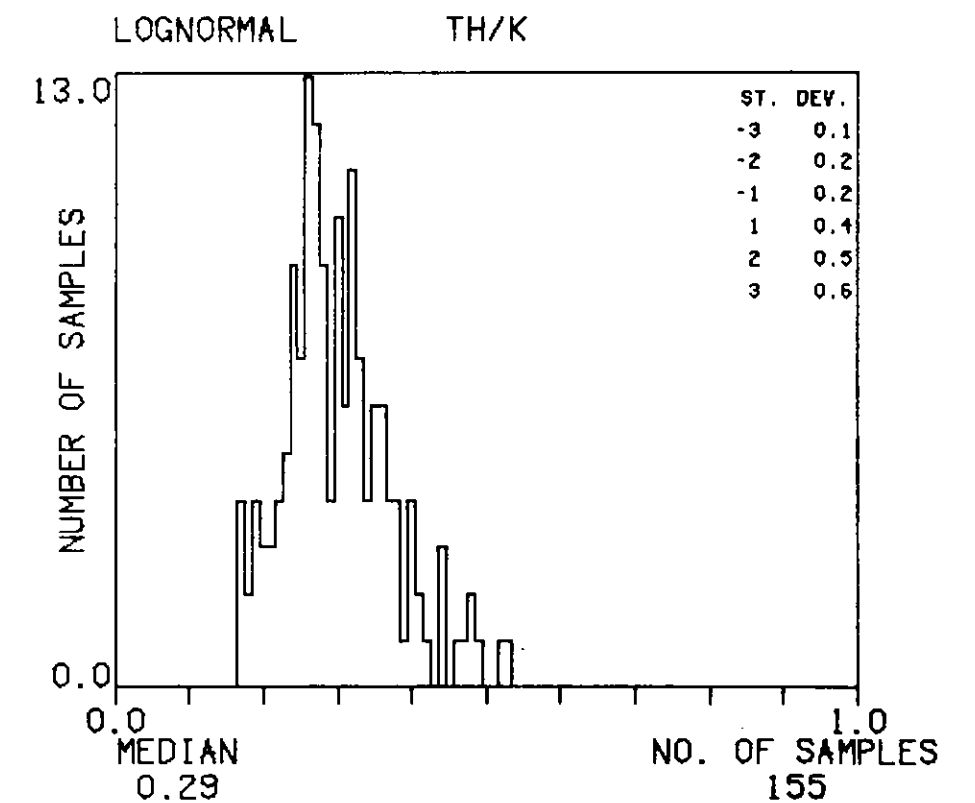
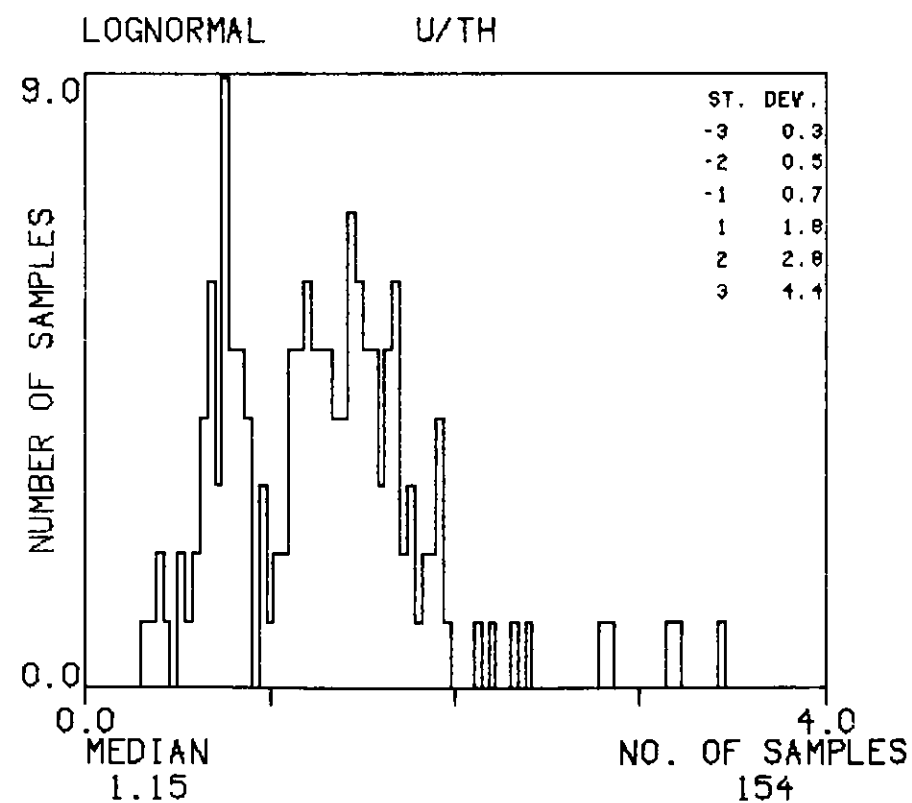
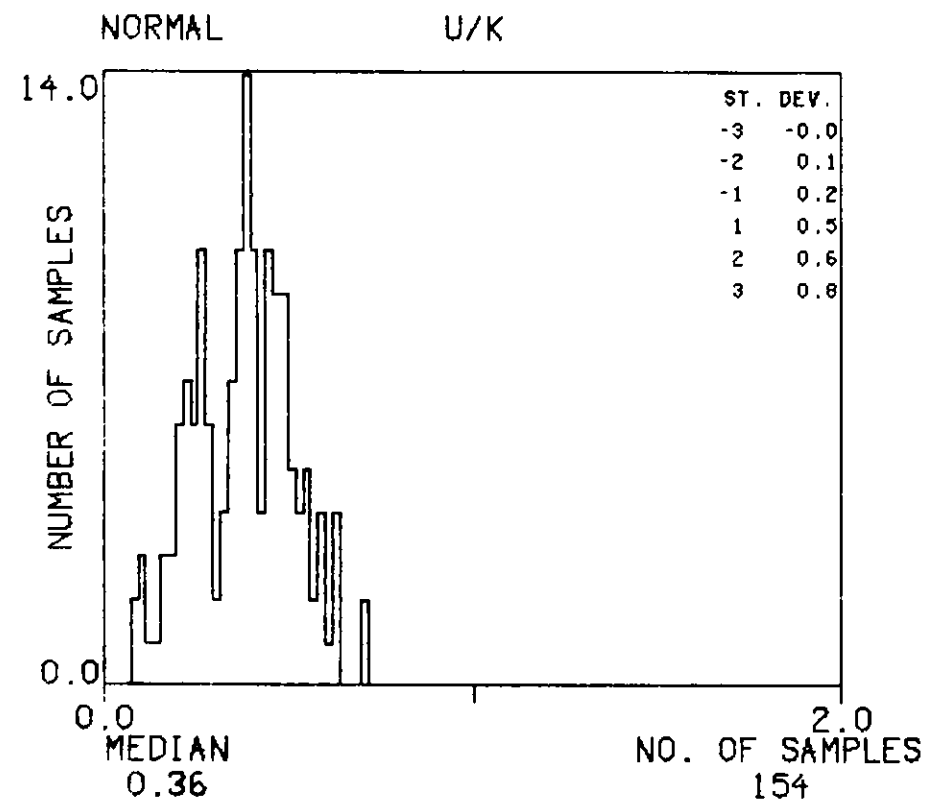
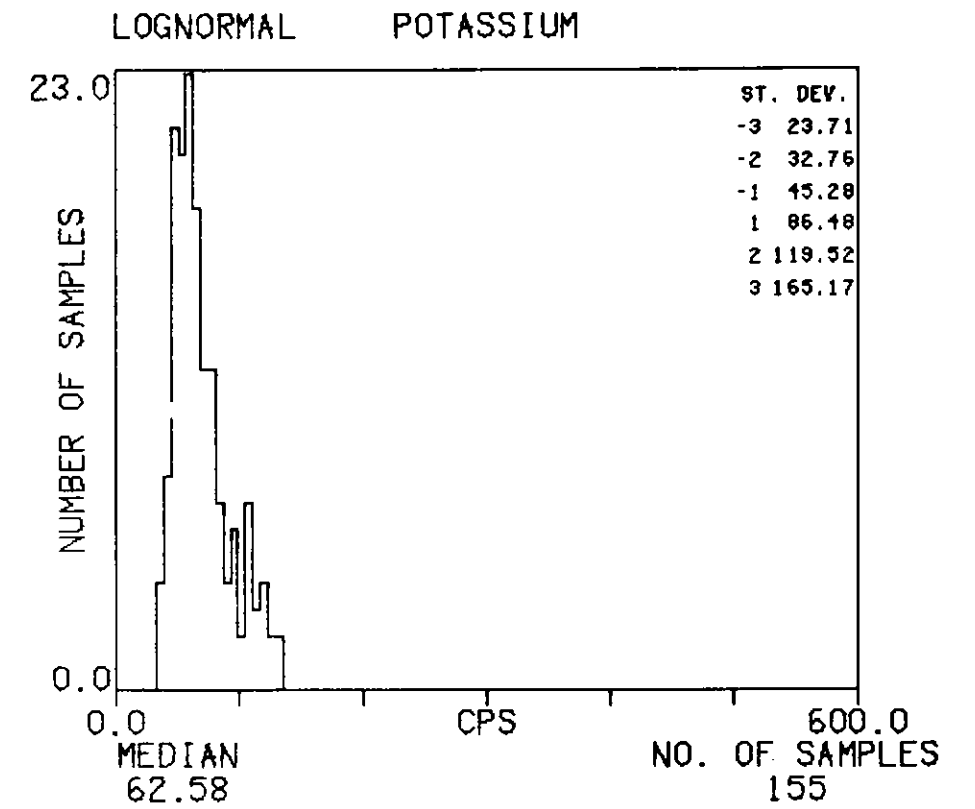
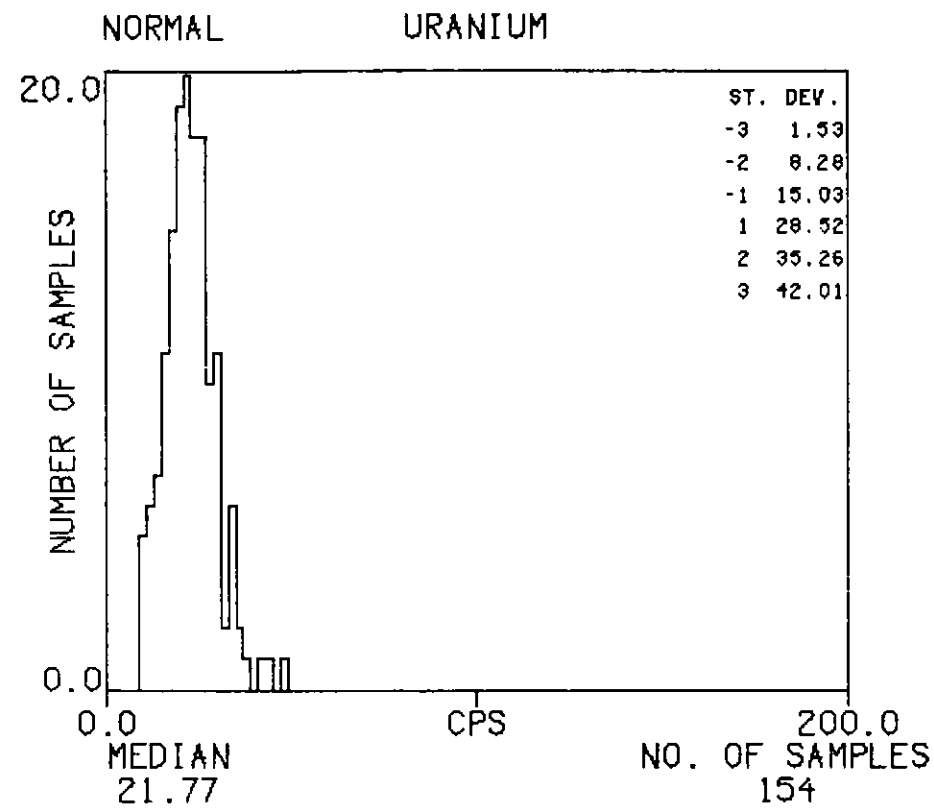
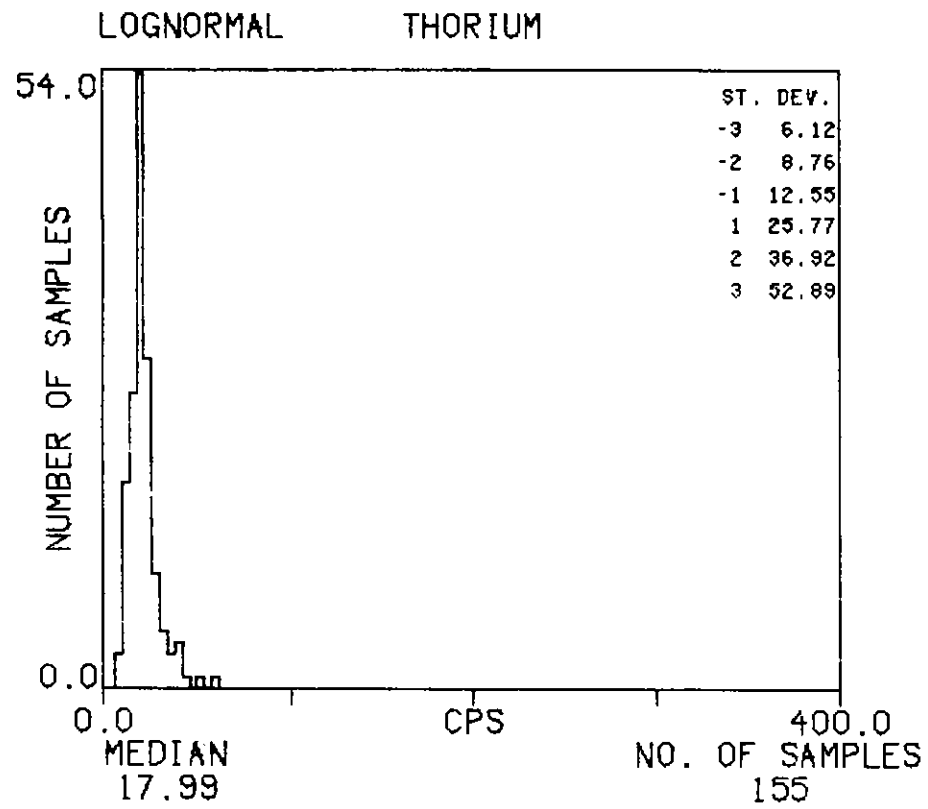
HISTOGRAMS : SOC

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



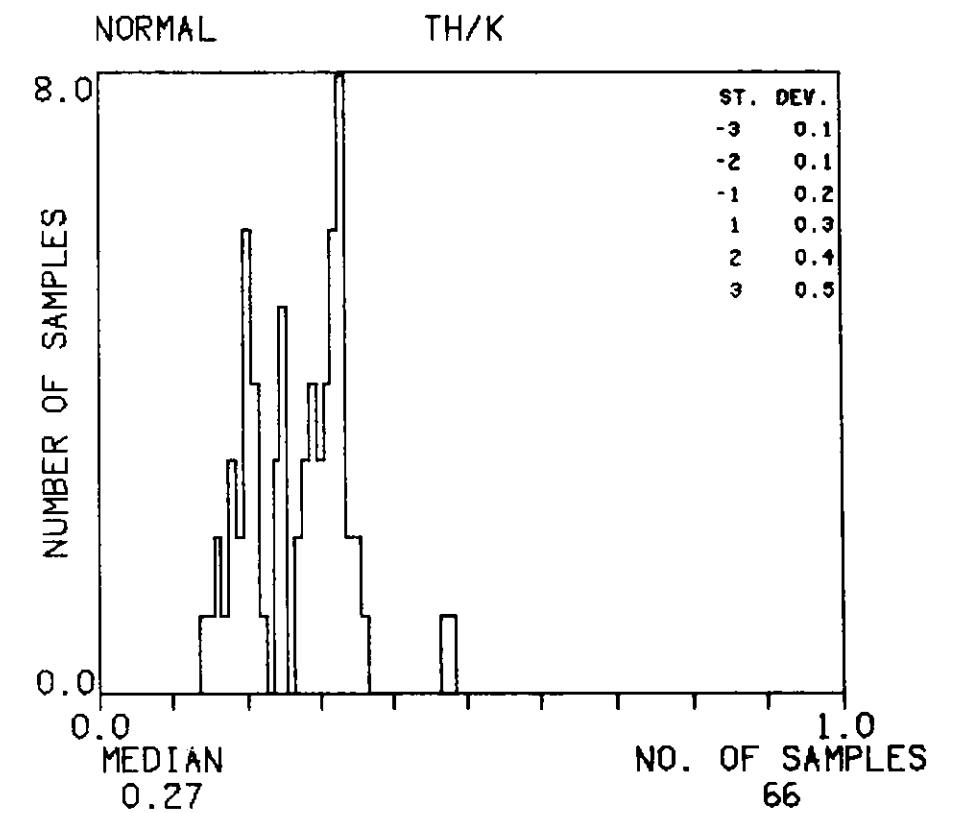
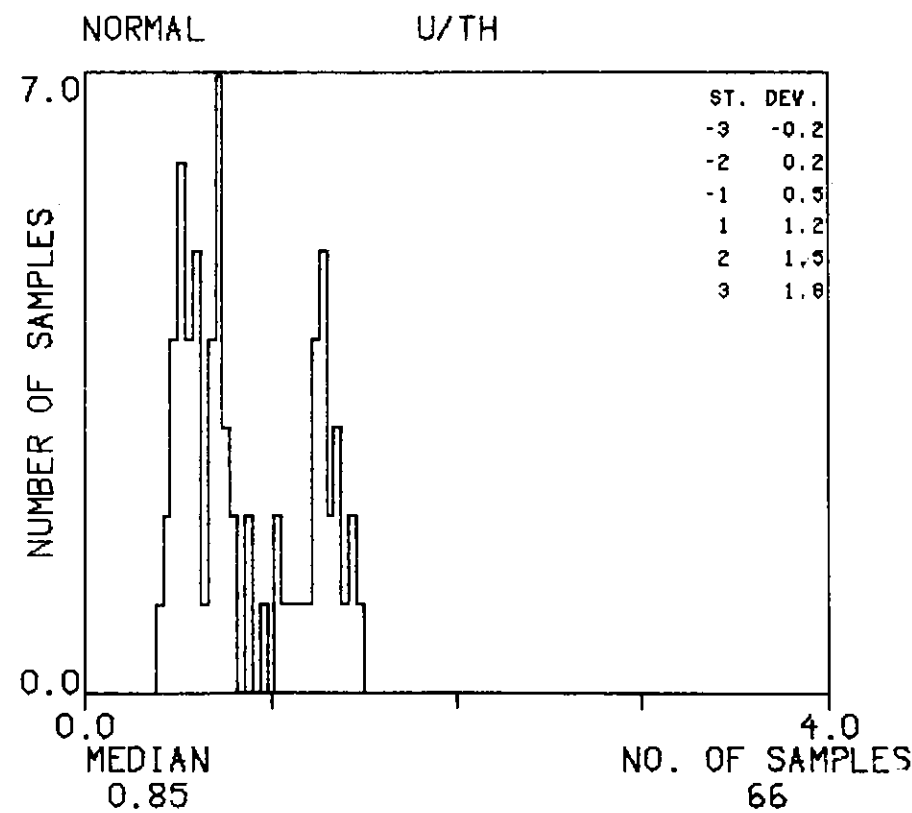
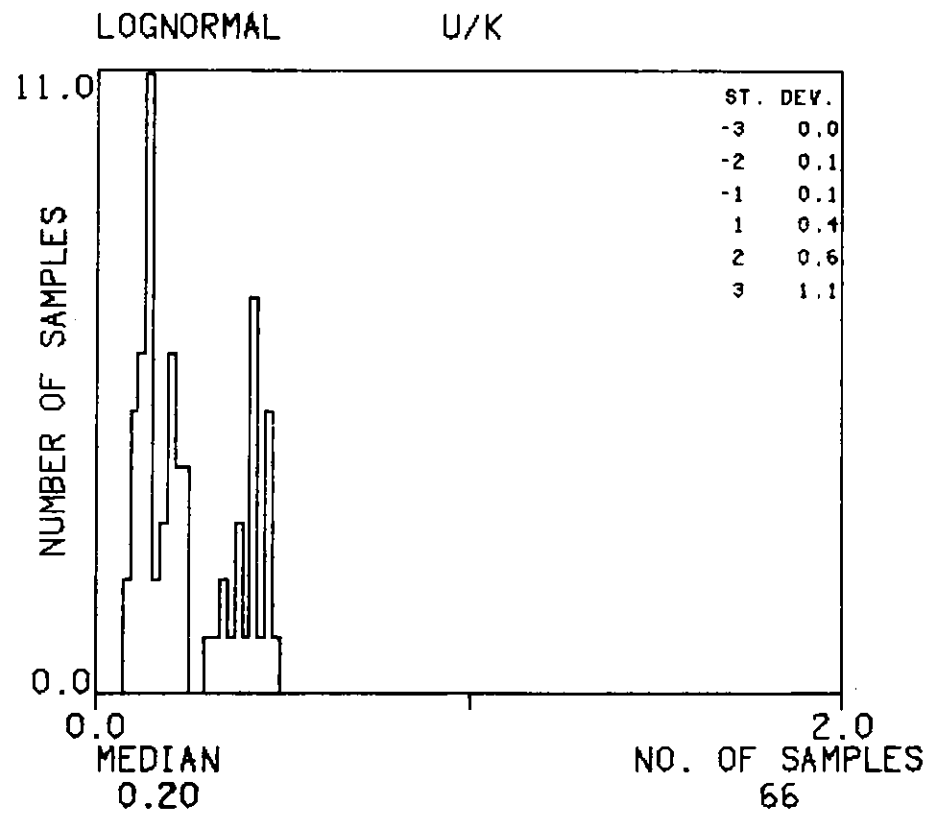
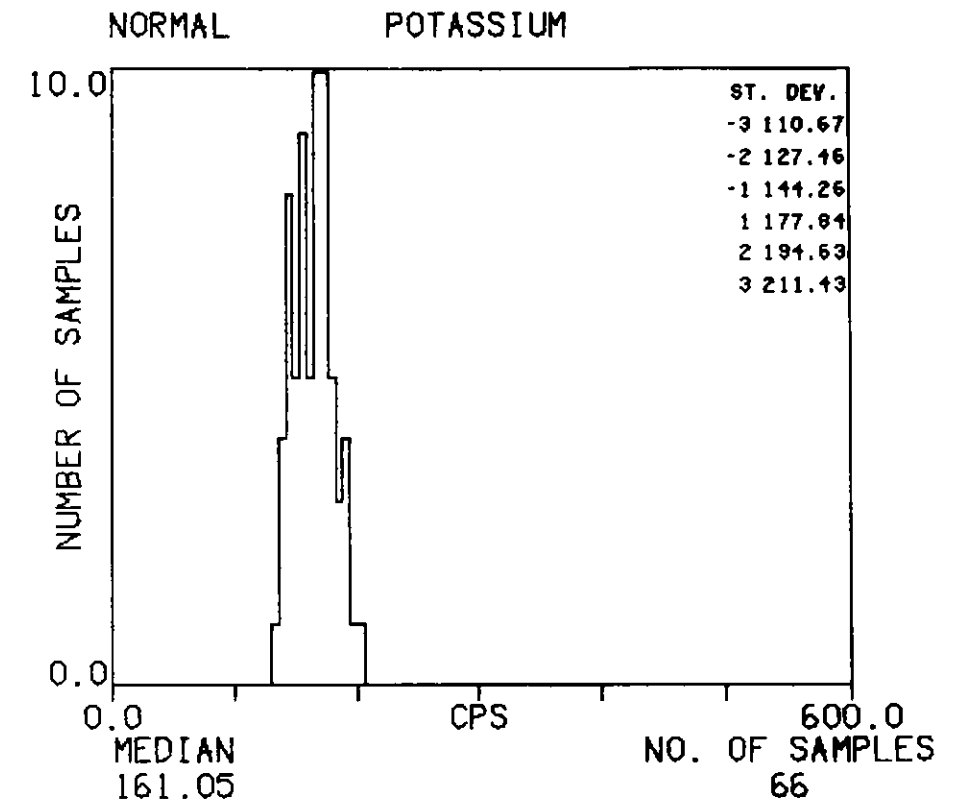
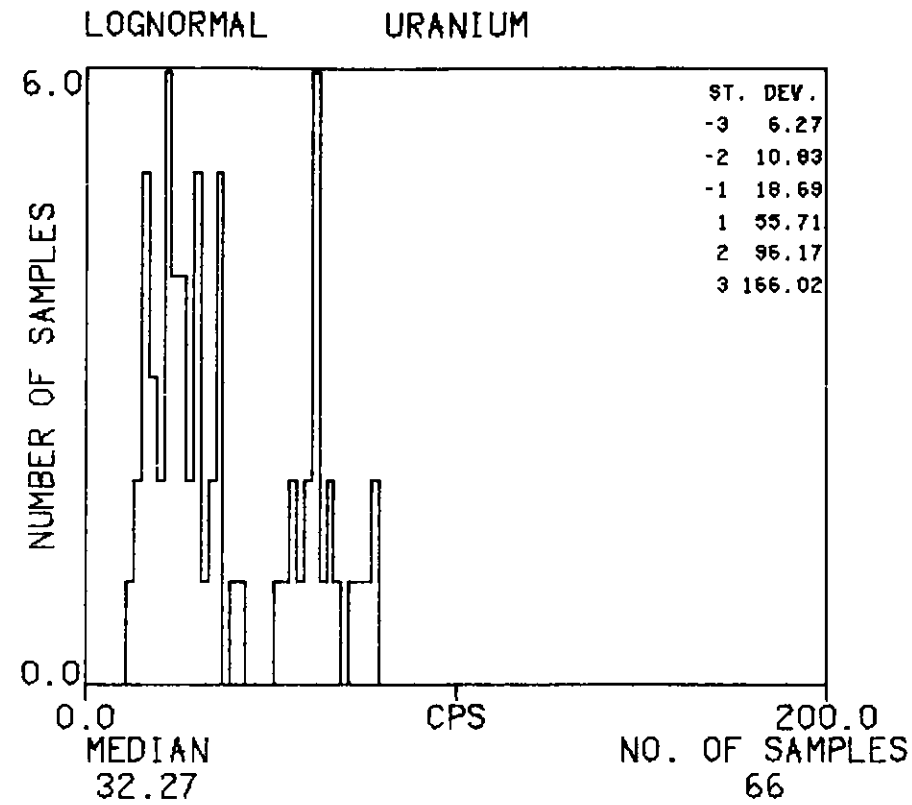
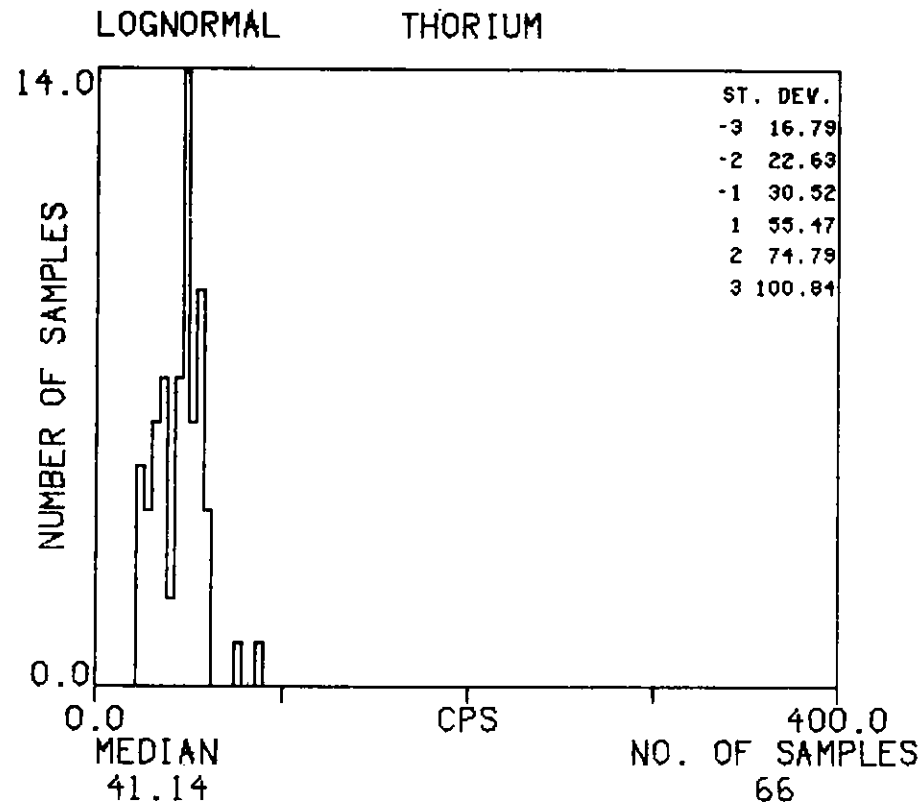
HISTOGRAMS : SOC-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



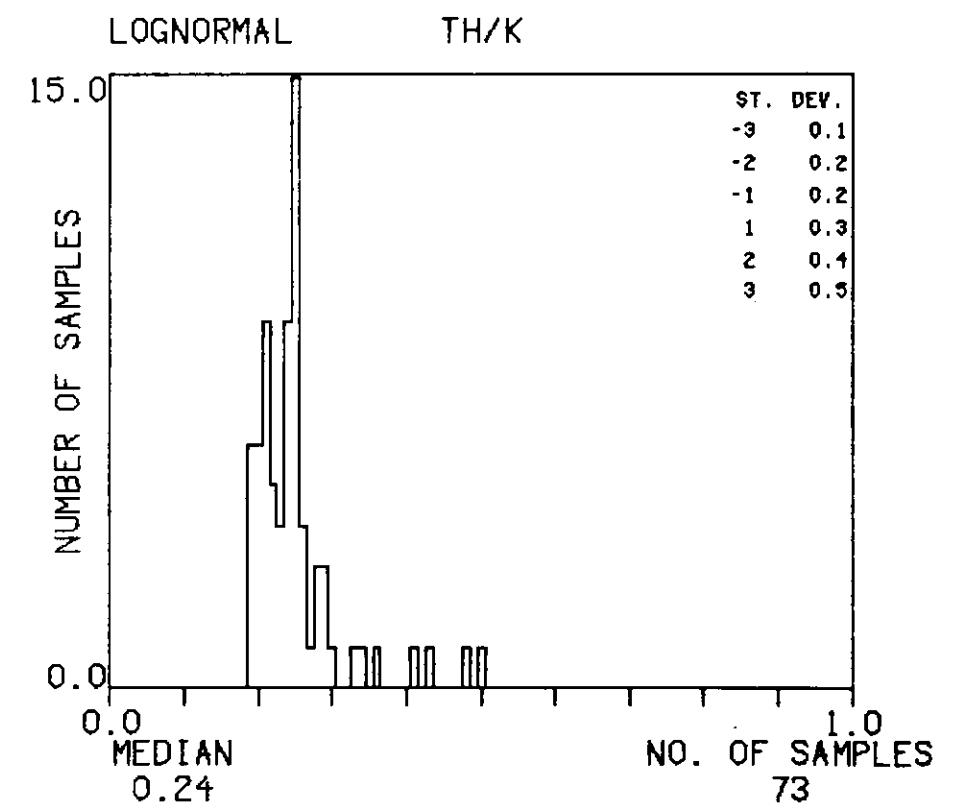
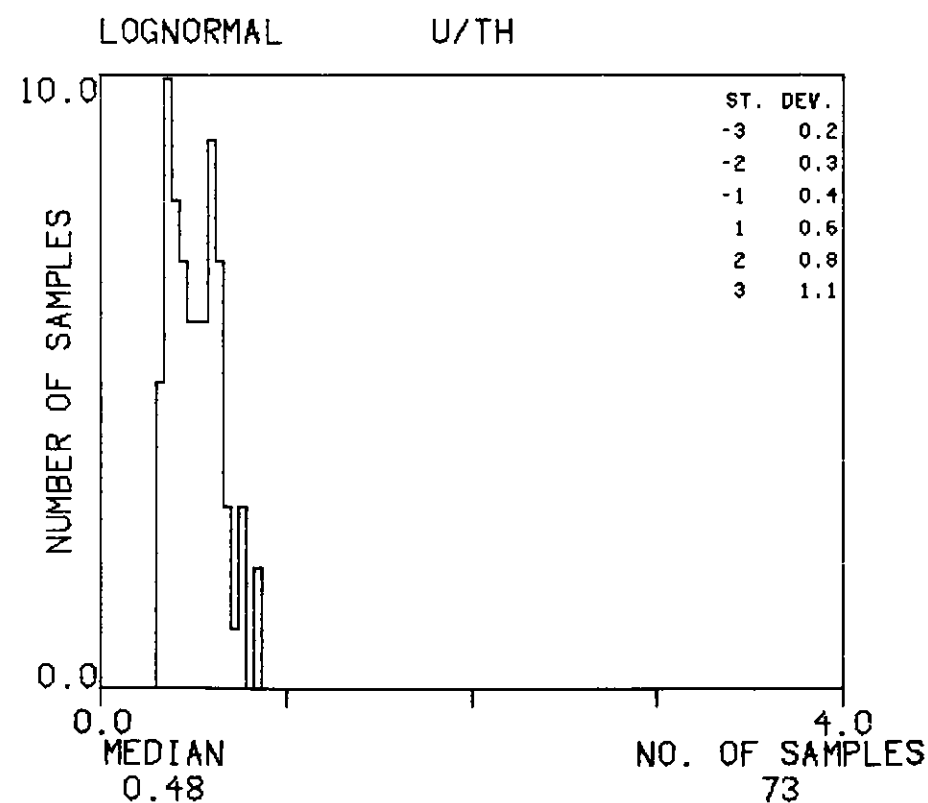
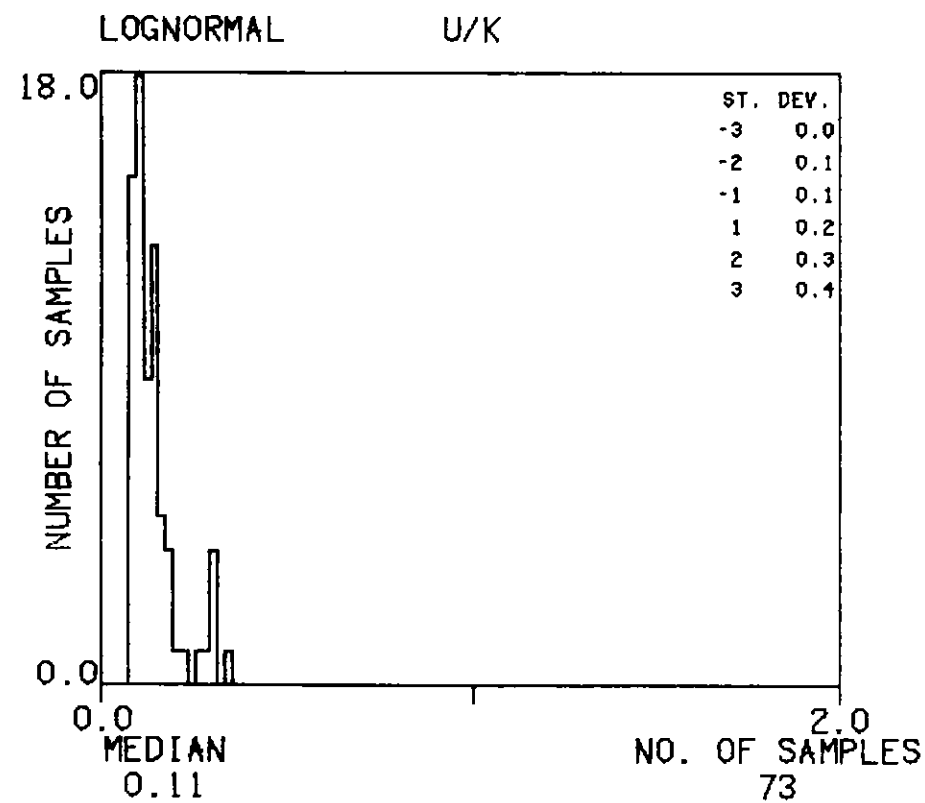
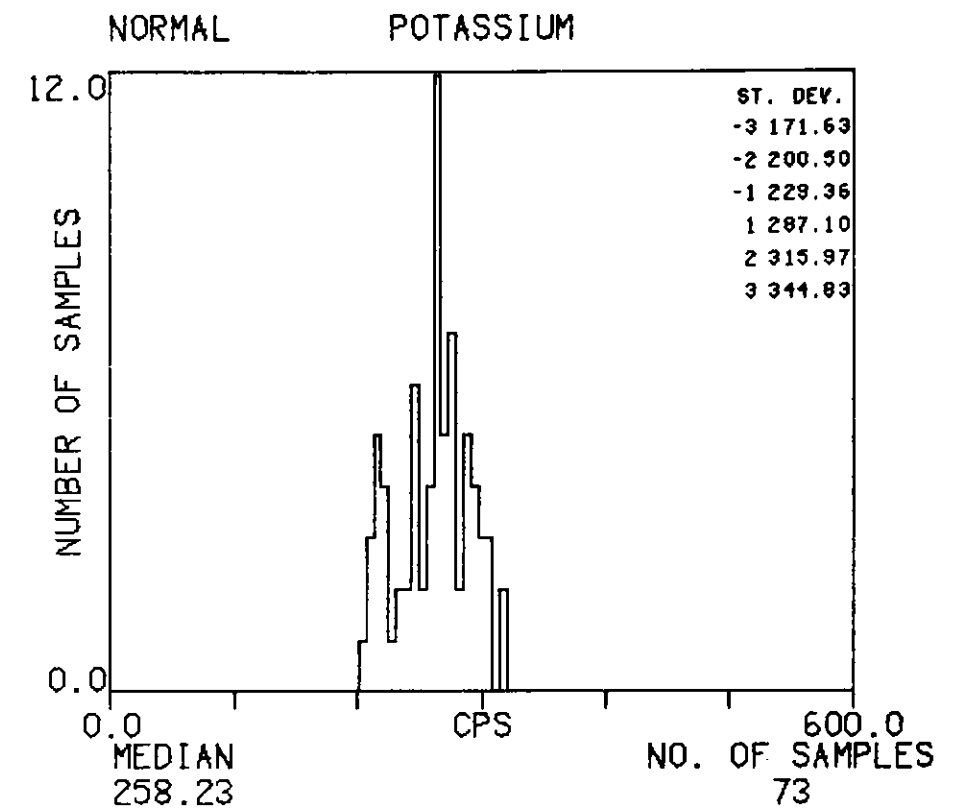
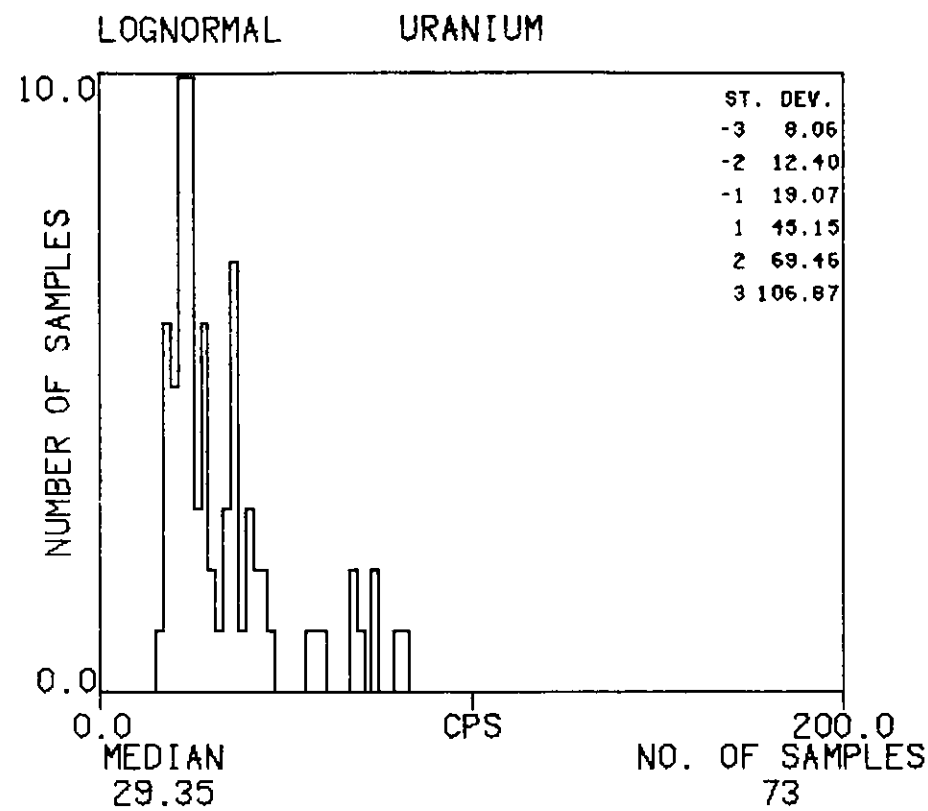
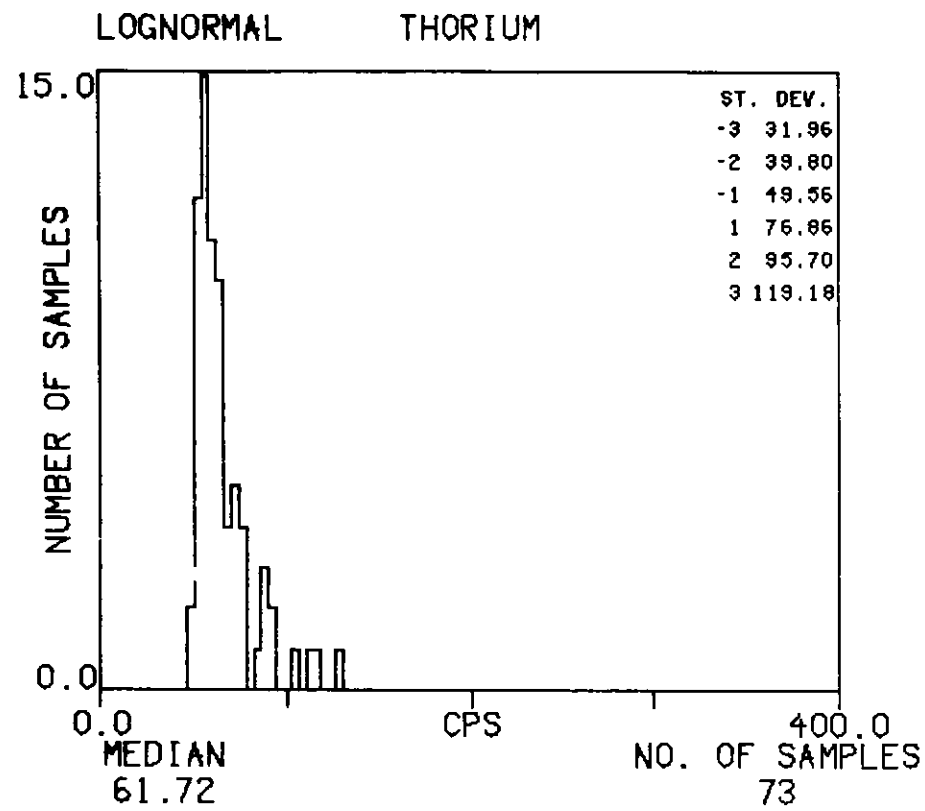
HISTOGRAMS : SOC-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



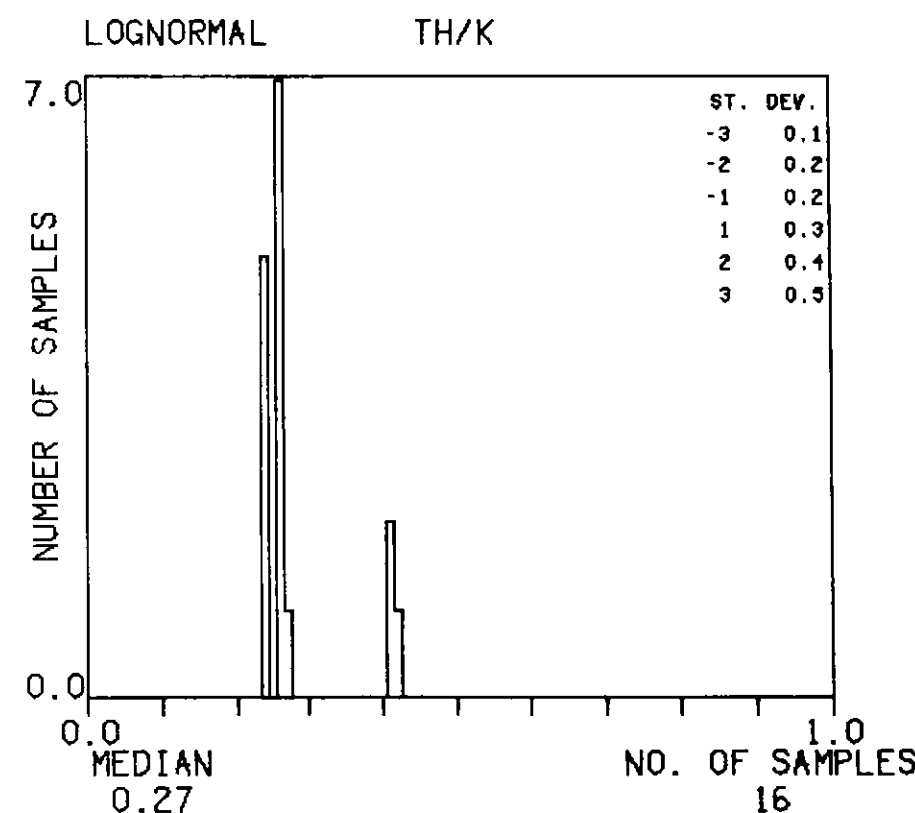
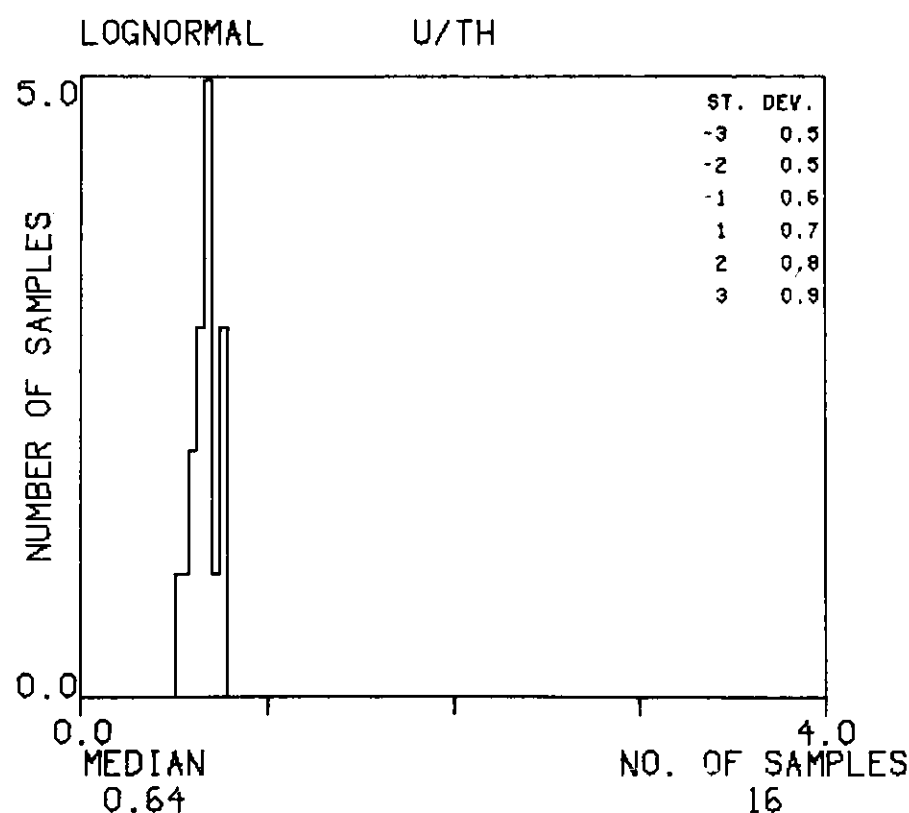
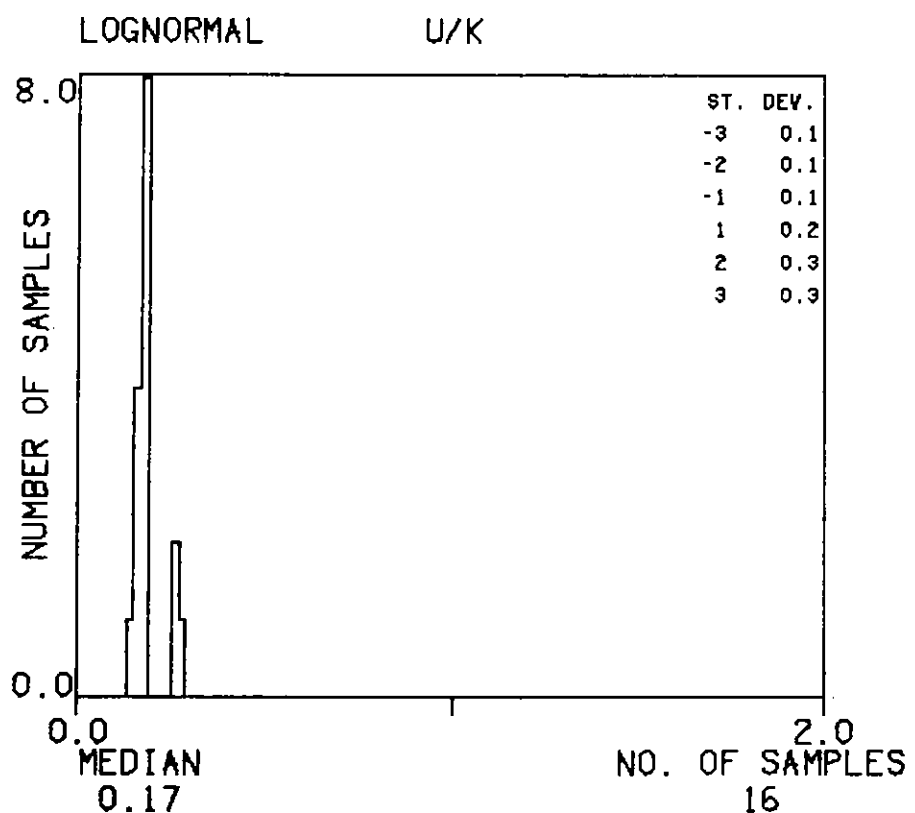
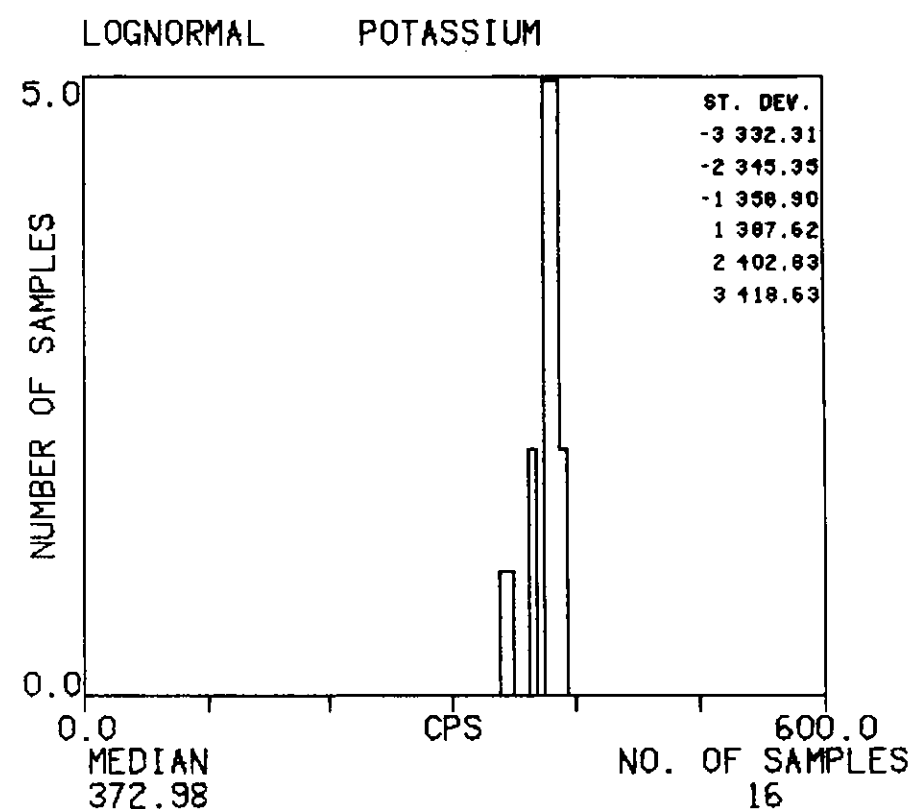
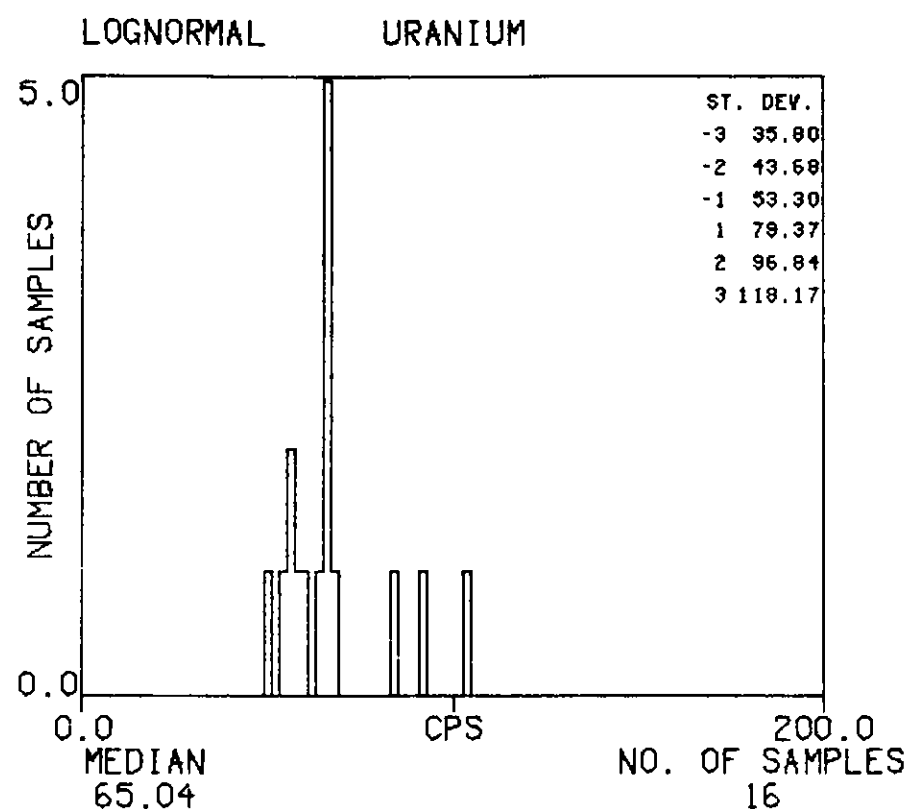
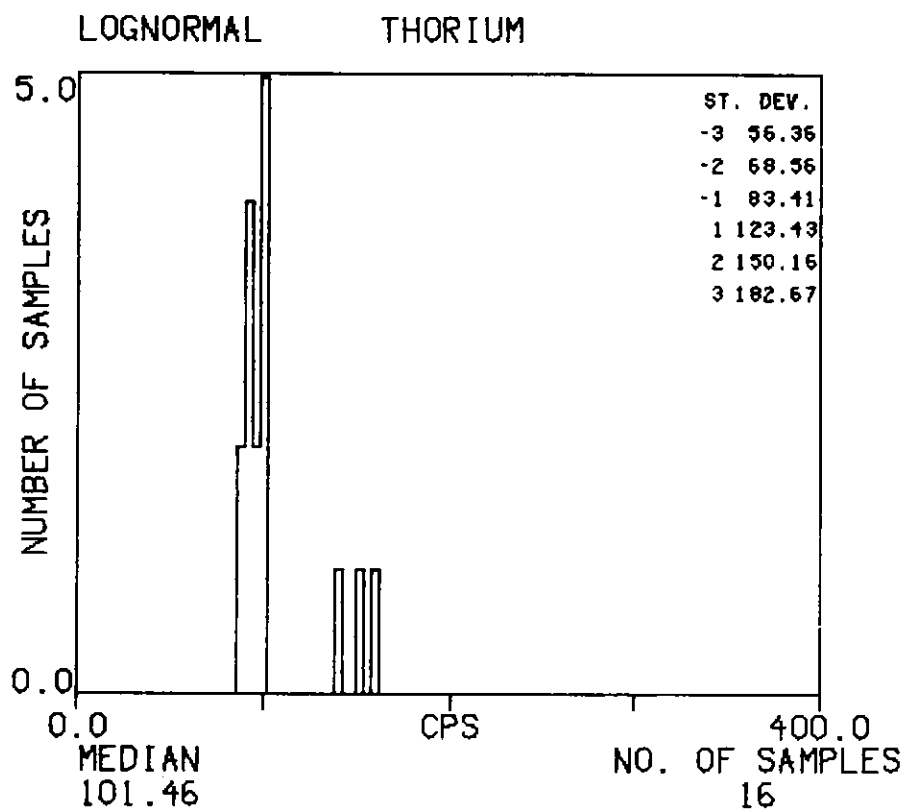
HISTOGRAMS : SOC-3

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



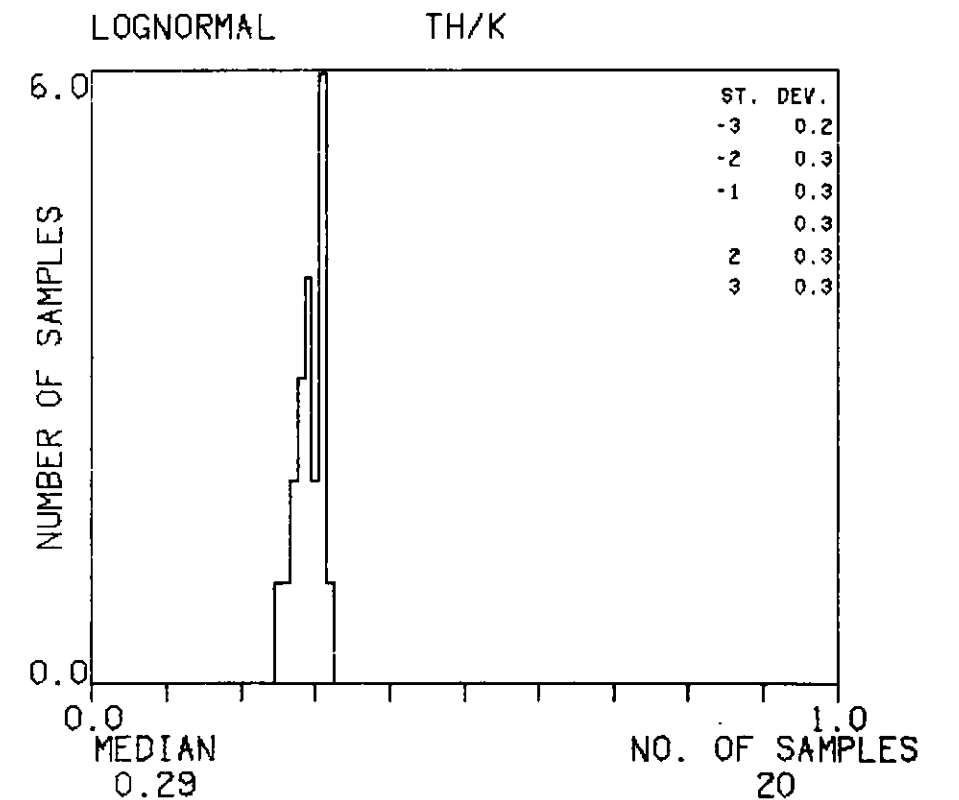
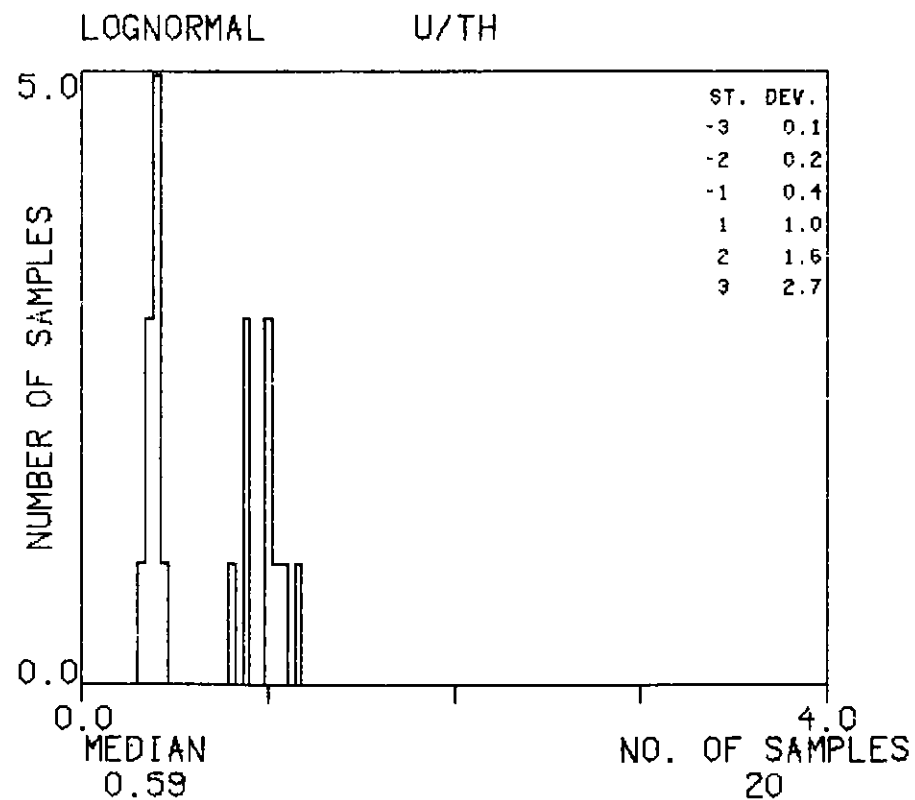
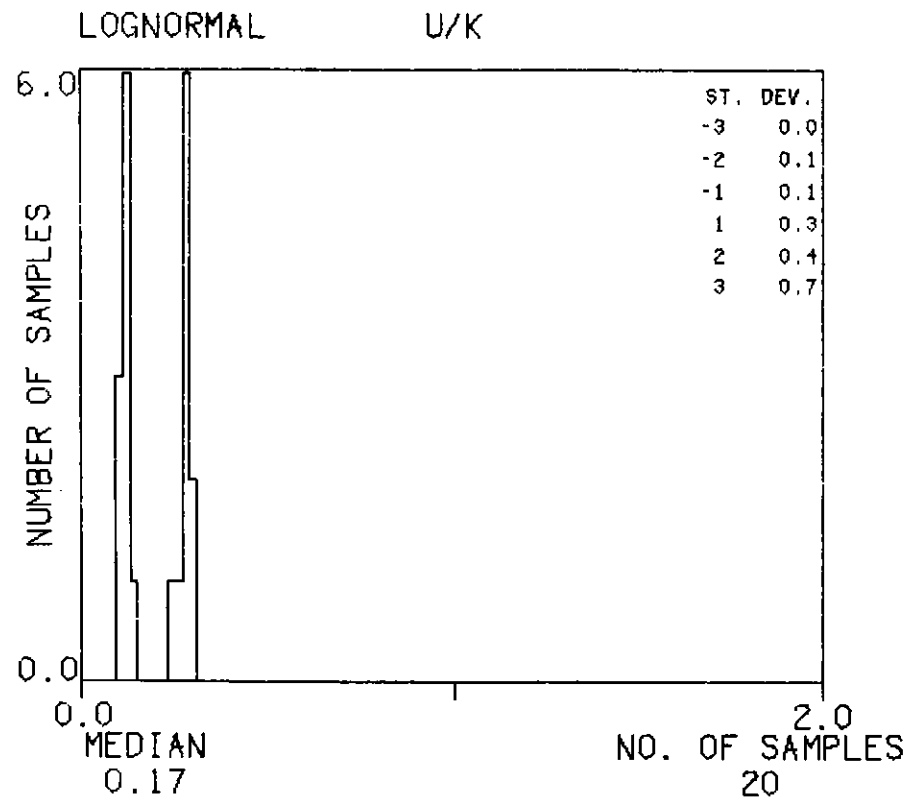
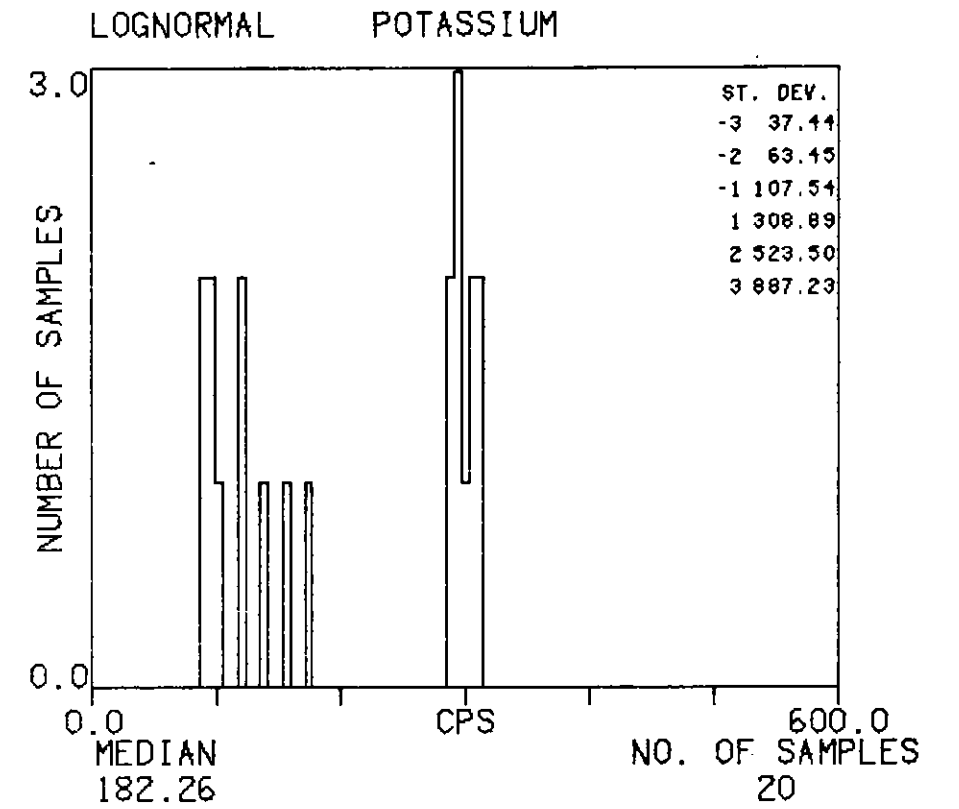
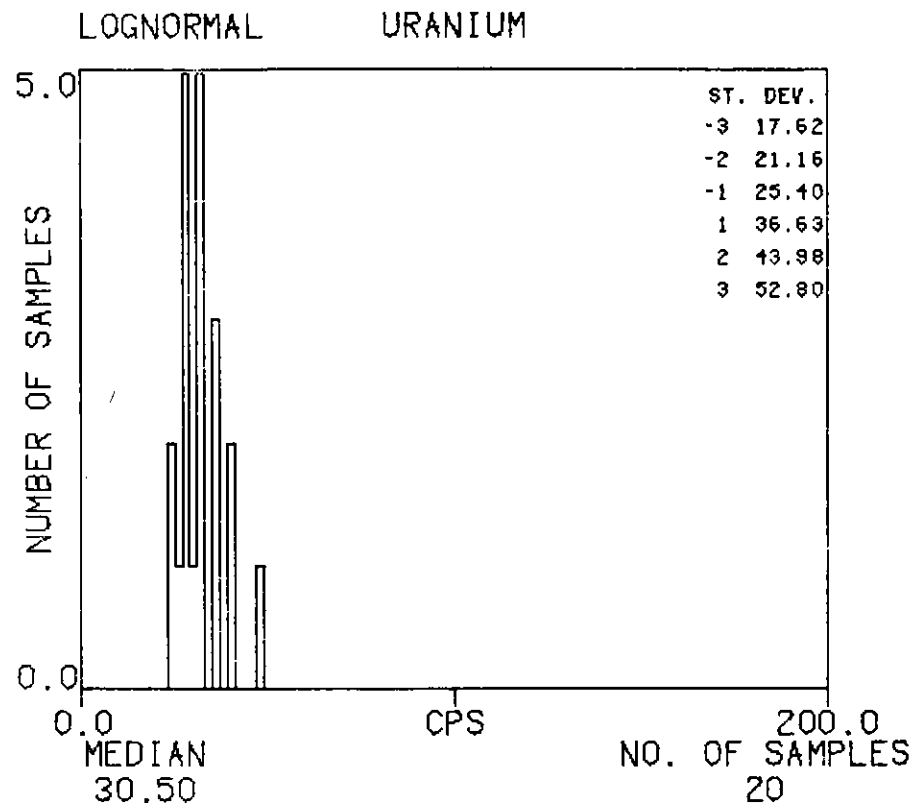
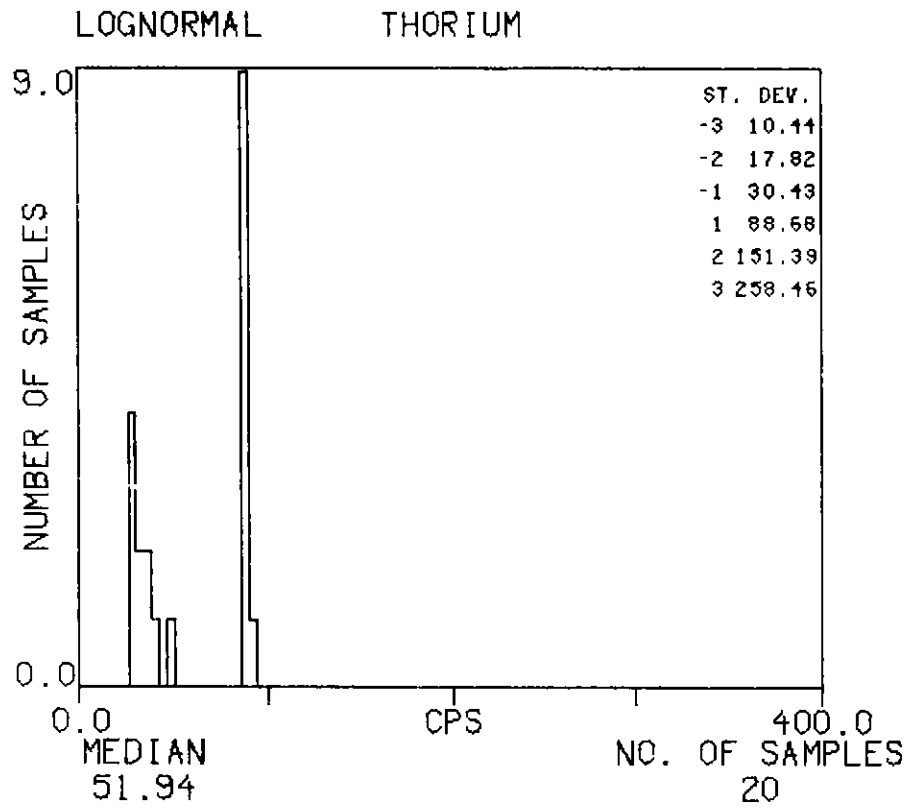
HISTOGRAMS : SOC-4

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



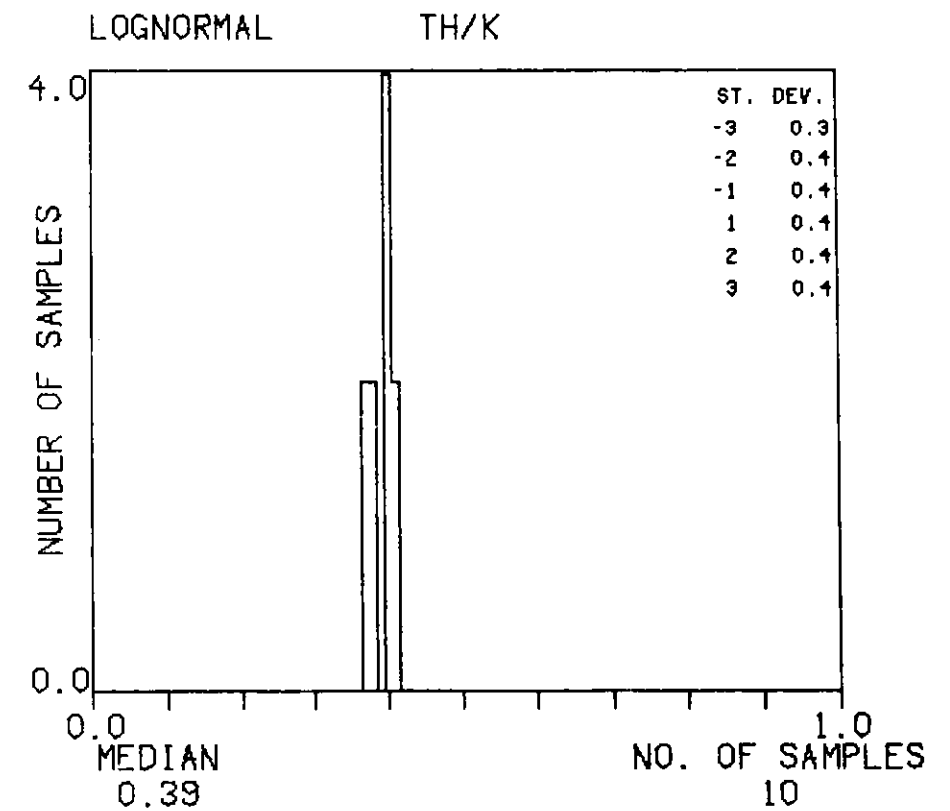
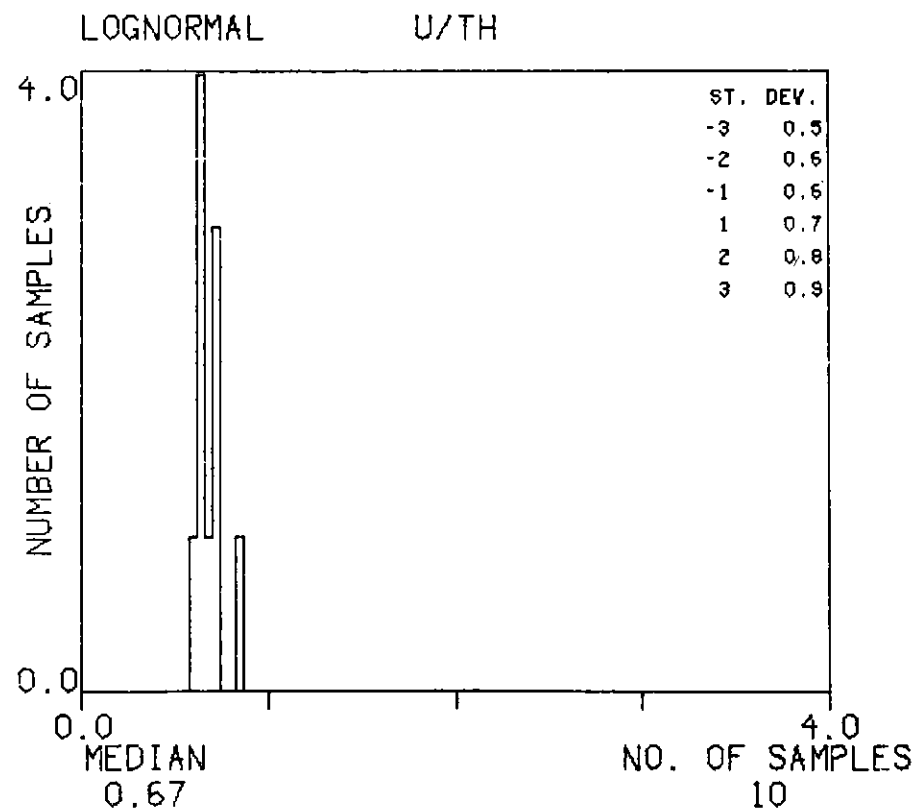
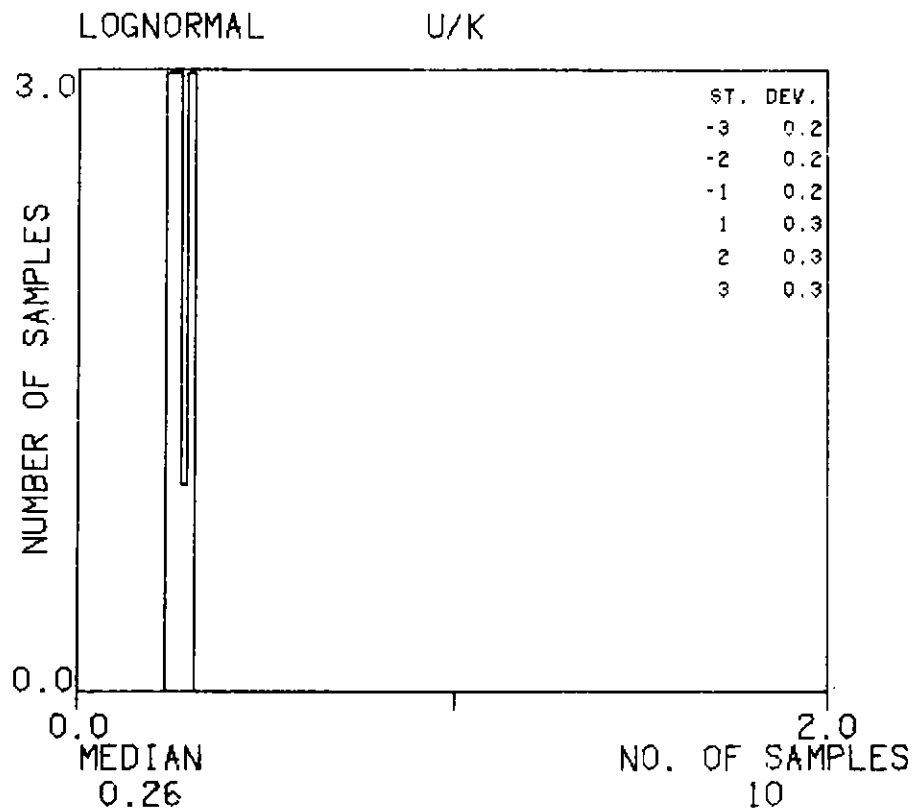
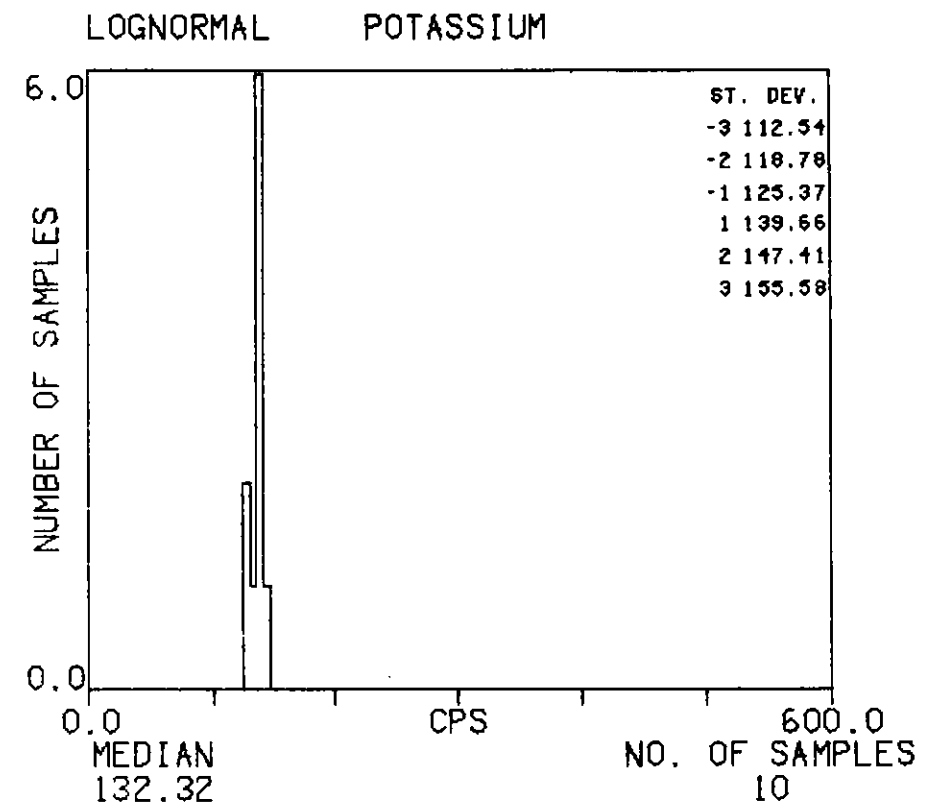
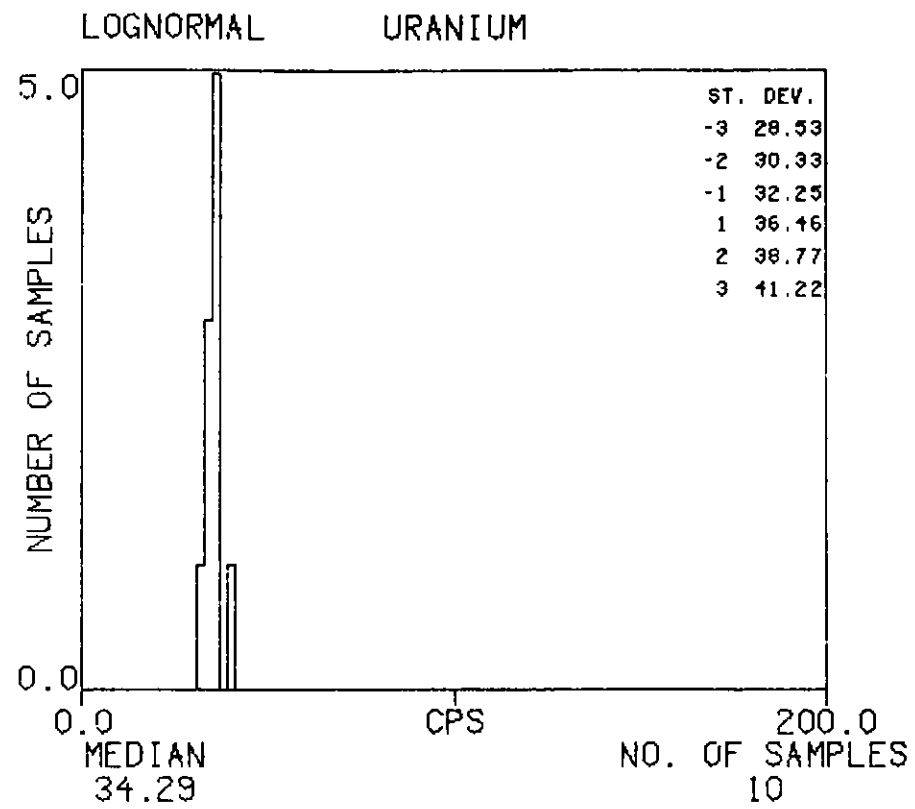
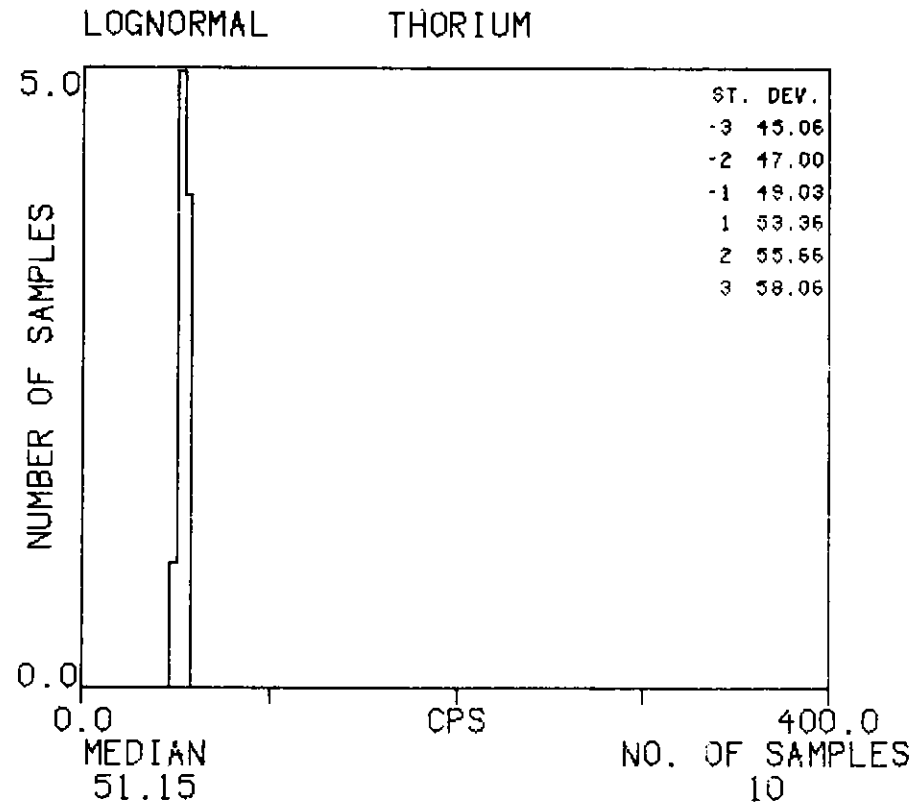
HISTOGRAMS : OCEA

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



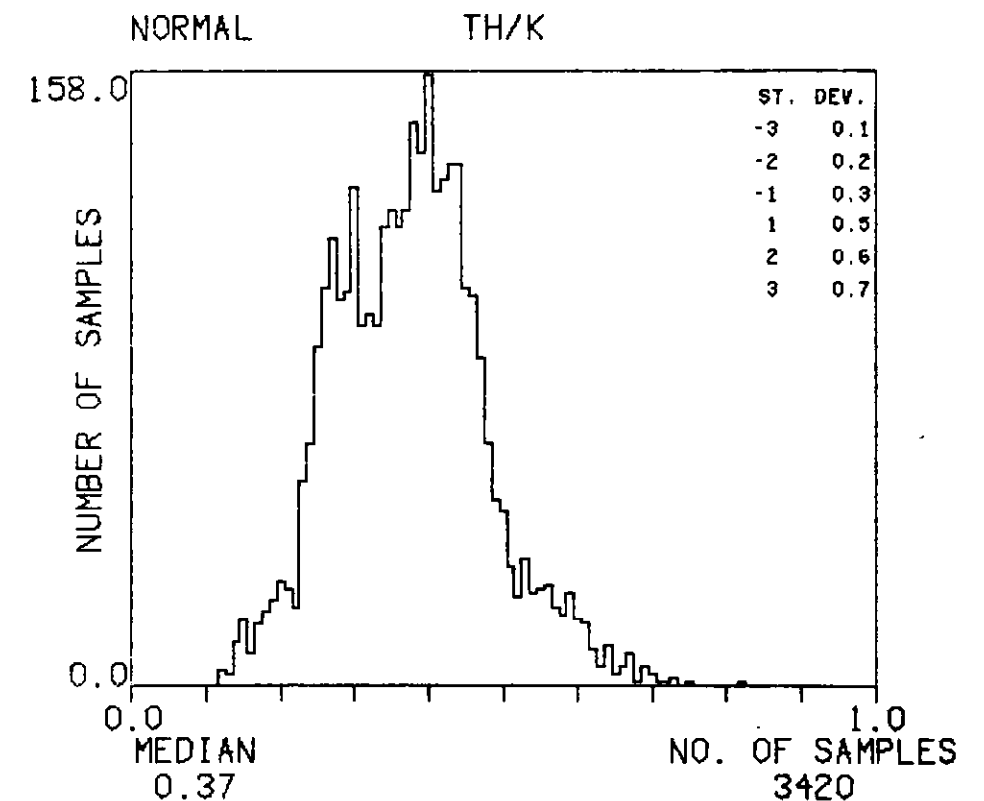
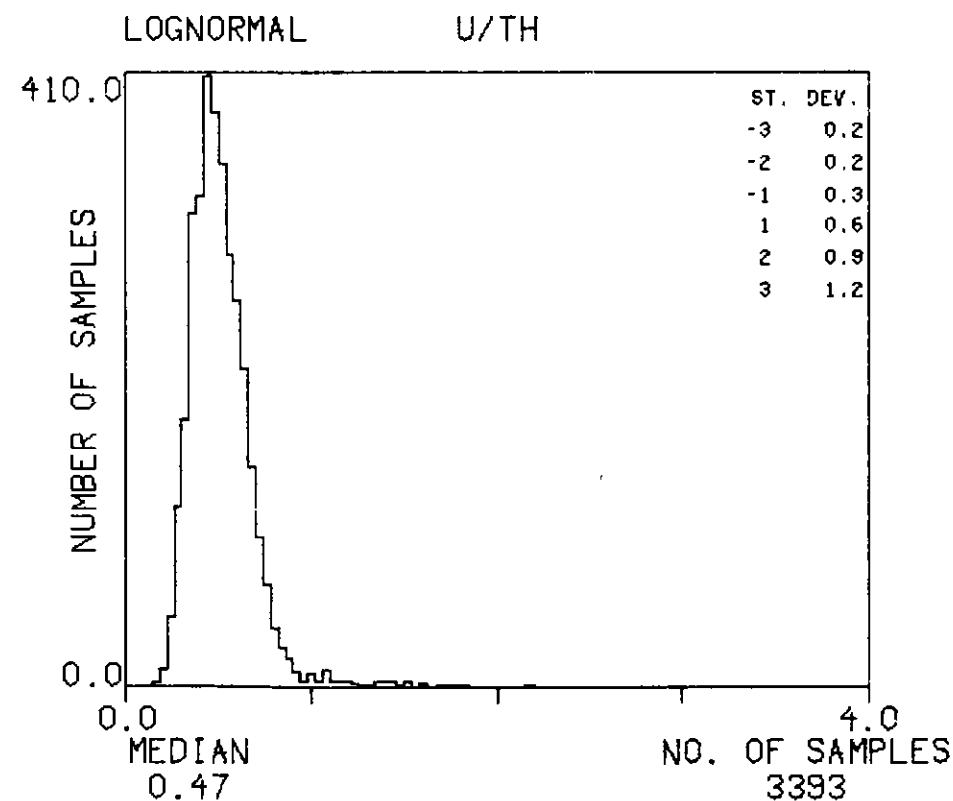
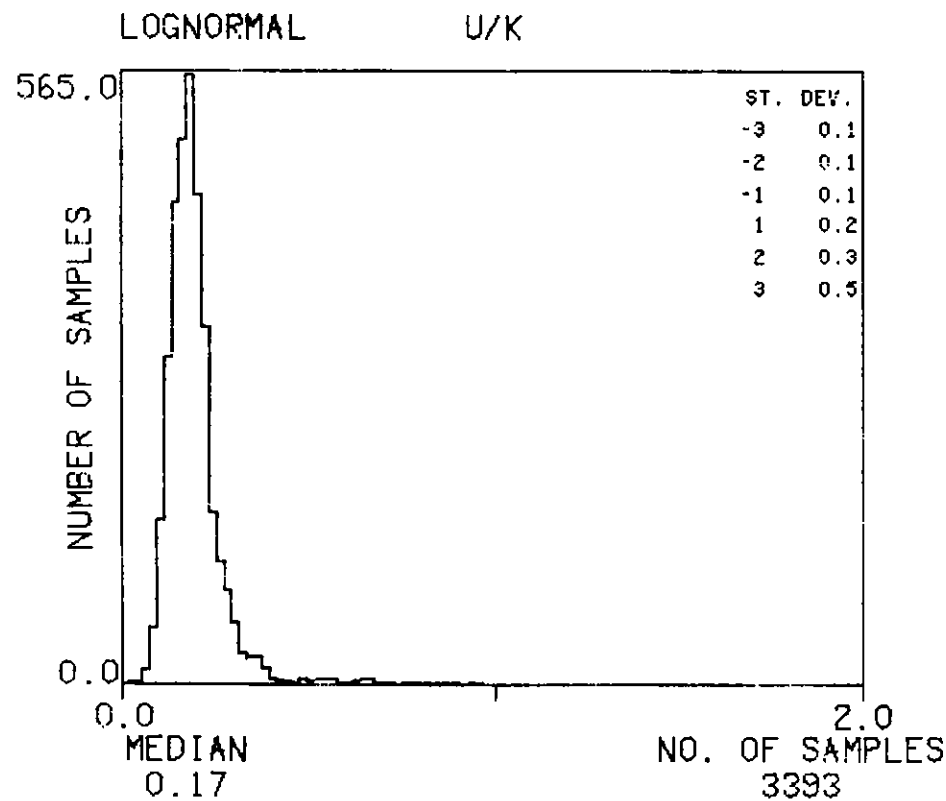
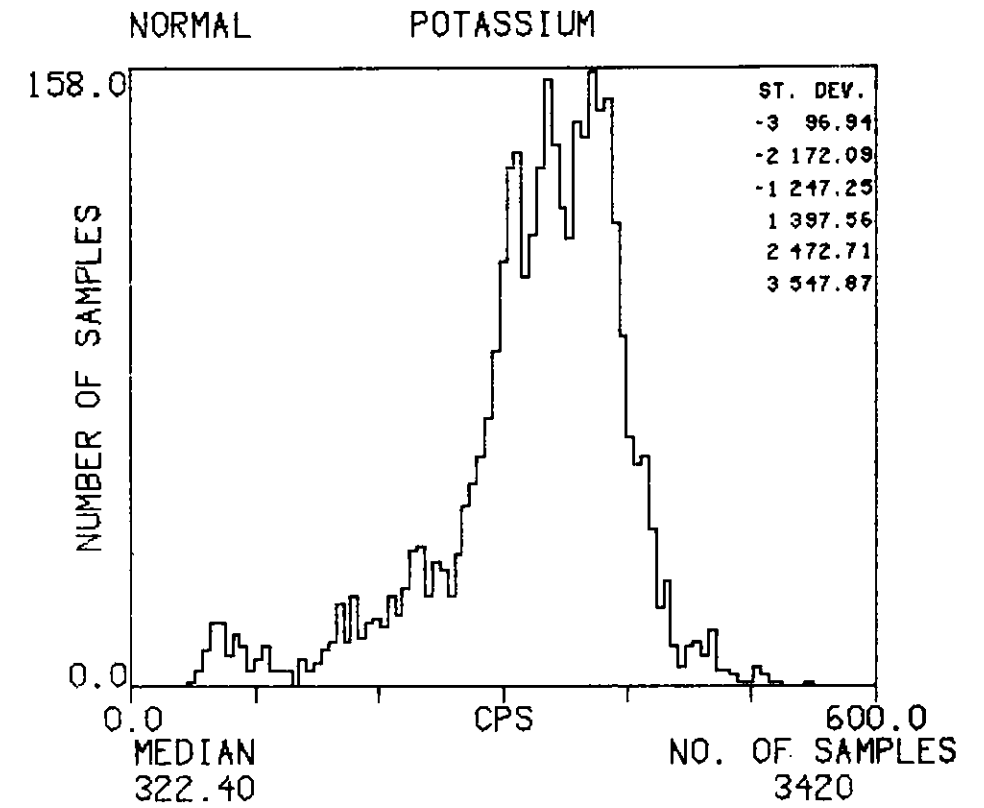
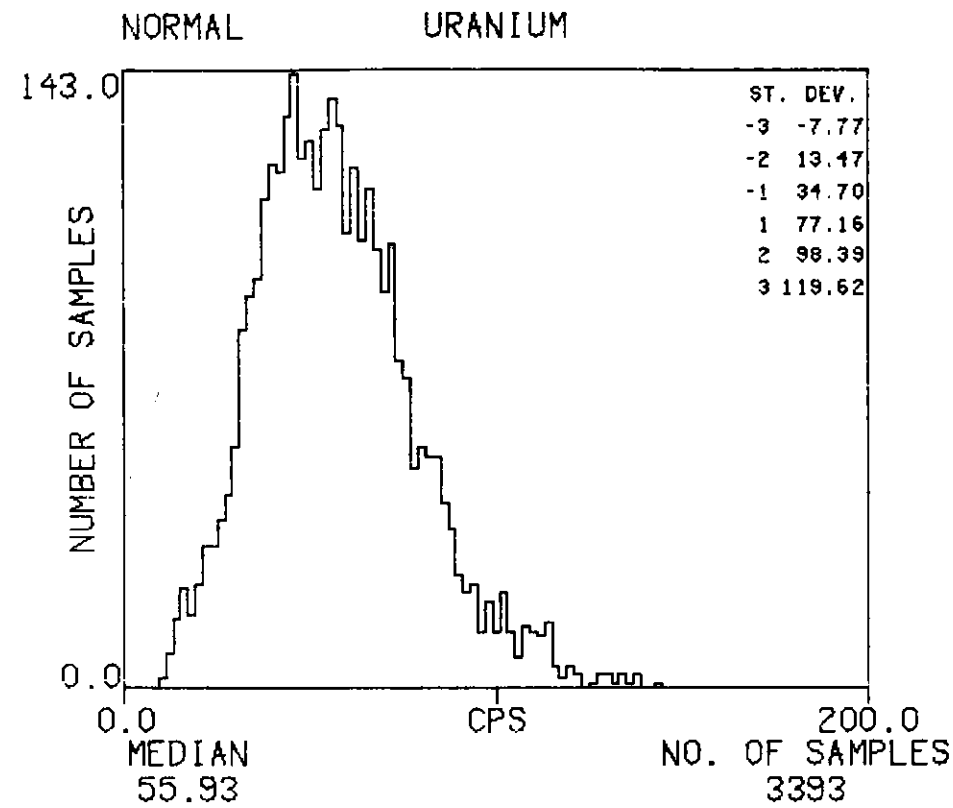
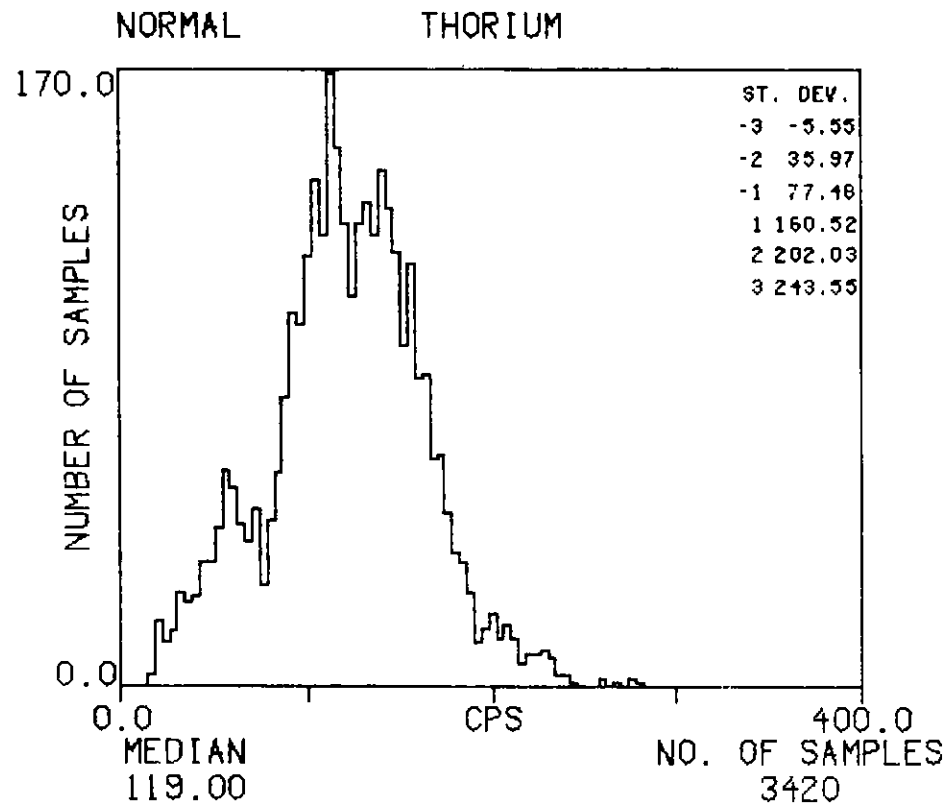
HISTOGRAMS : CT

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



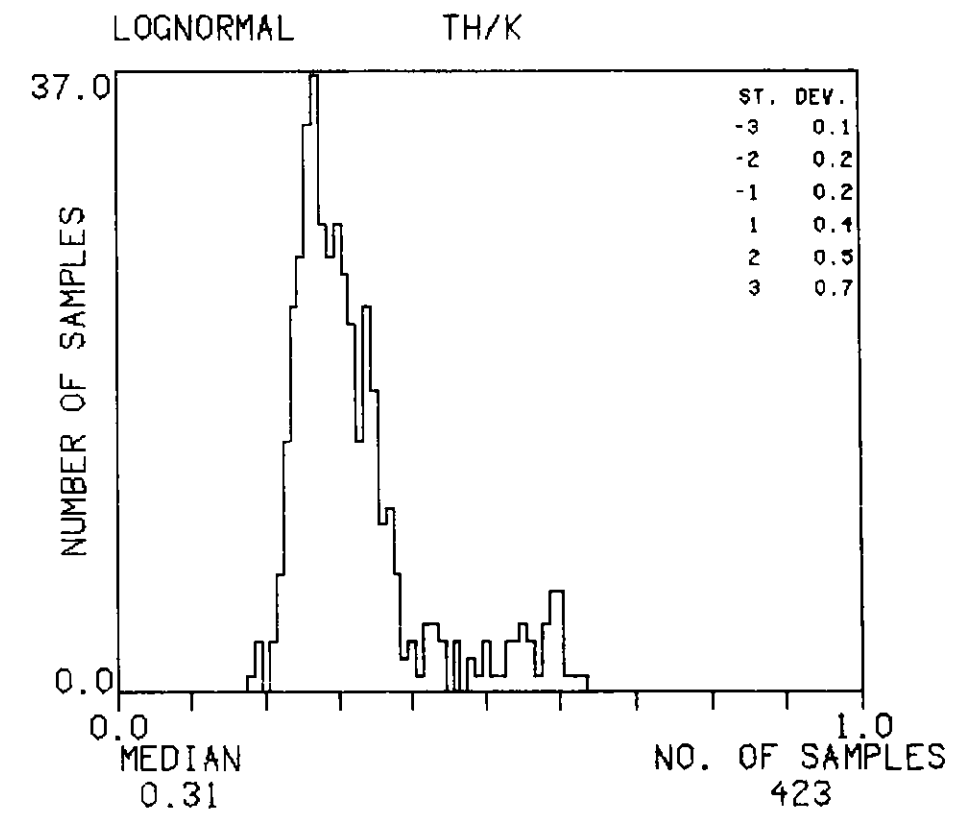
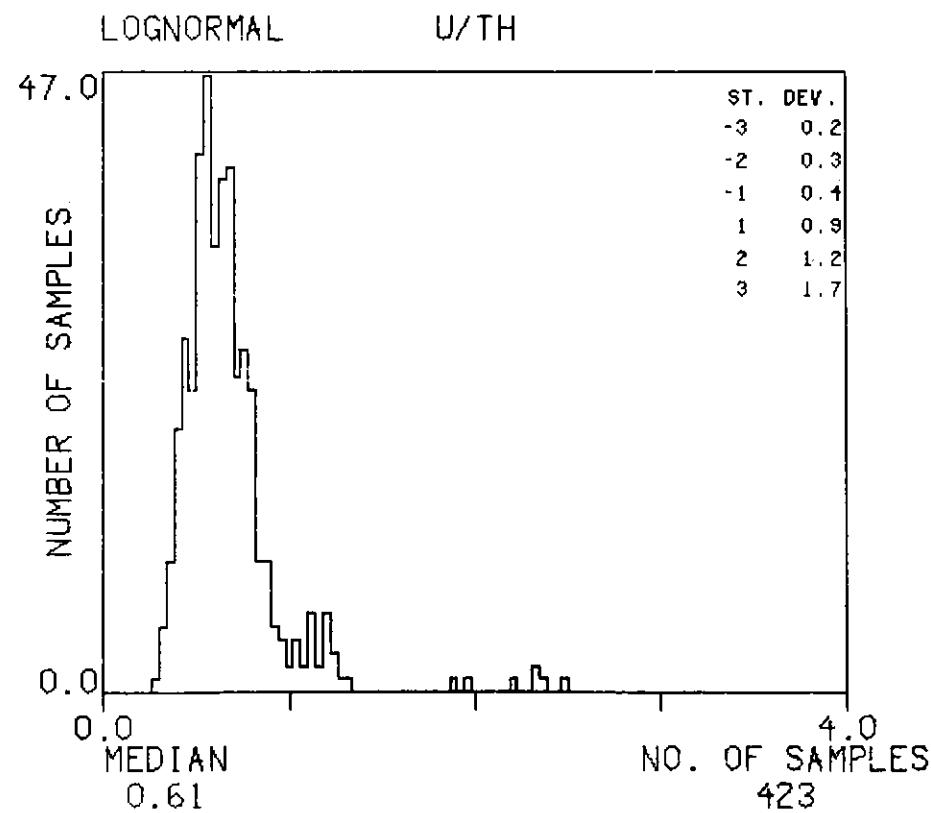
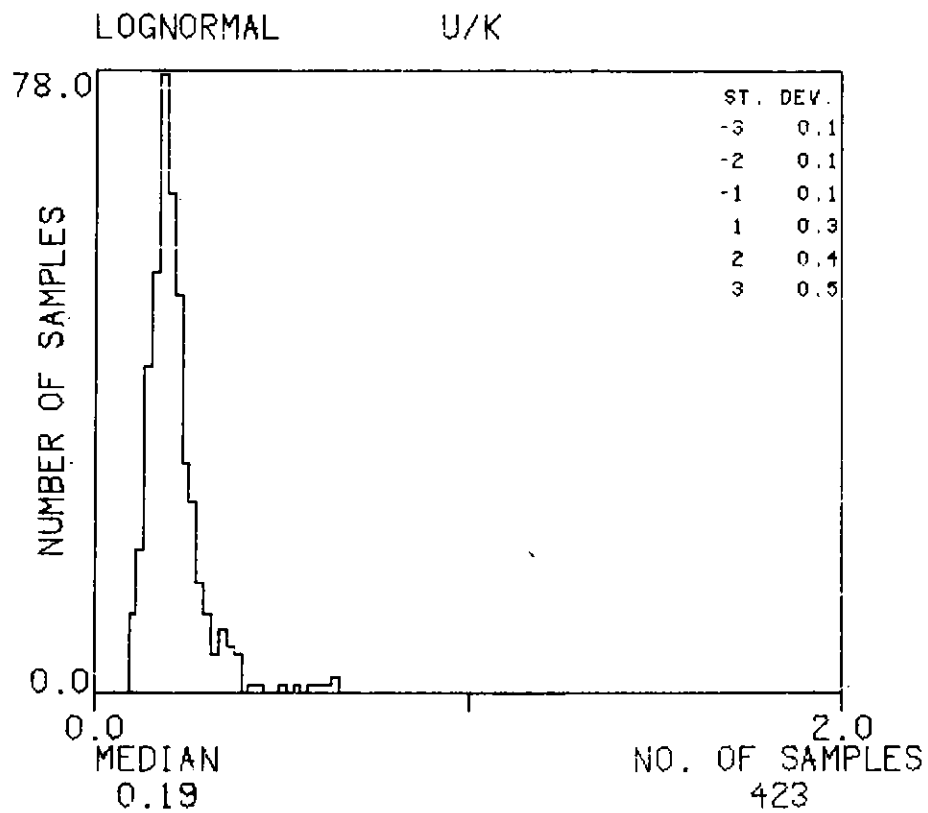
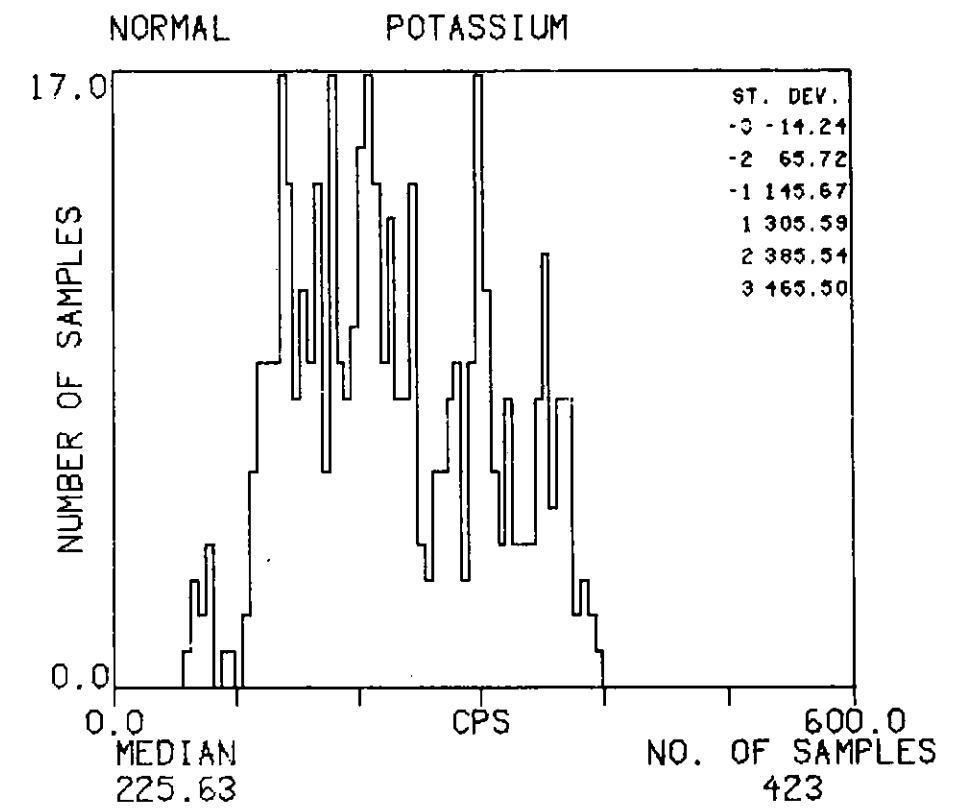
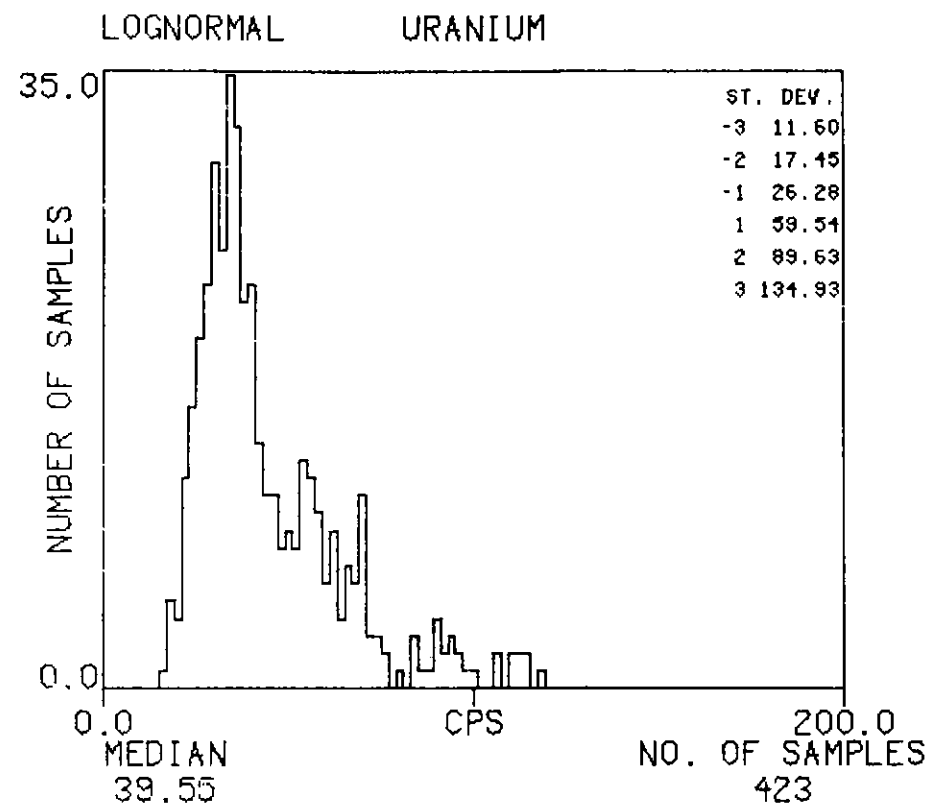
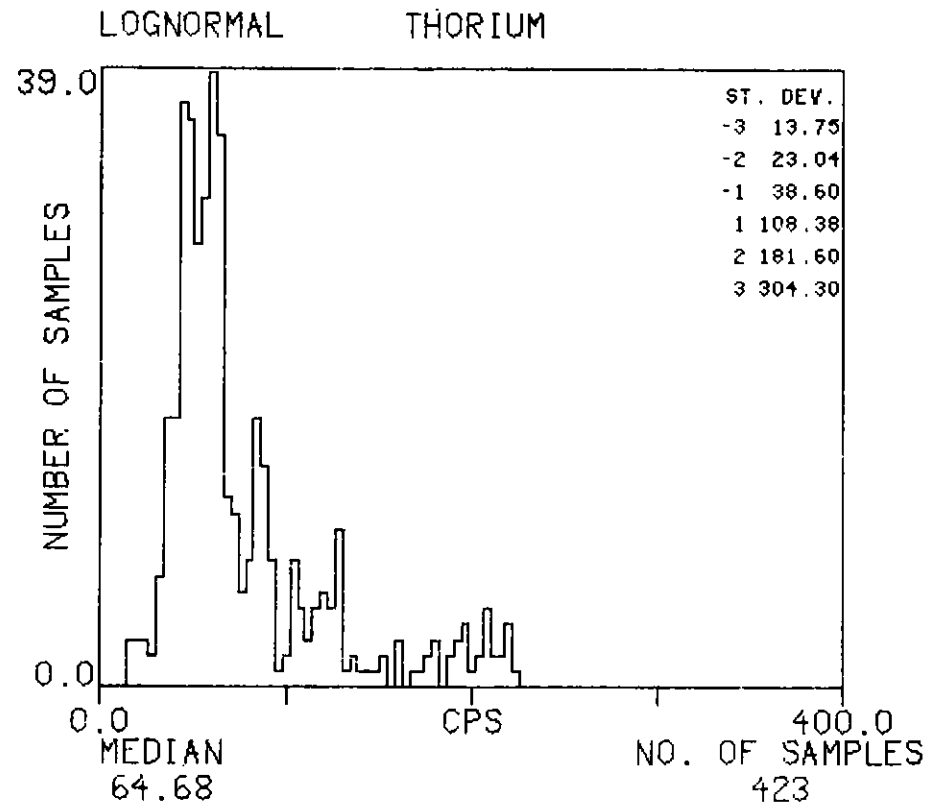
HISTOGRAMS : PC

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



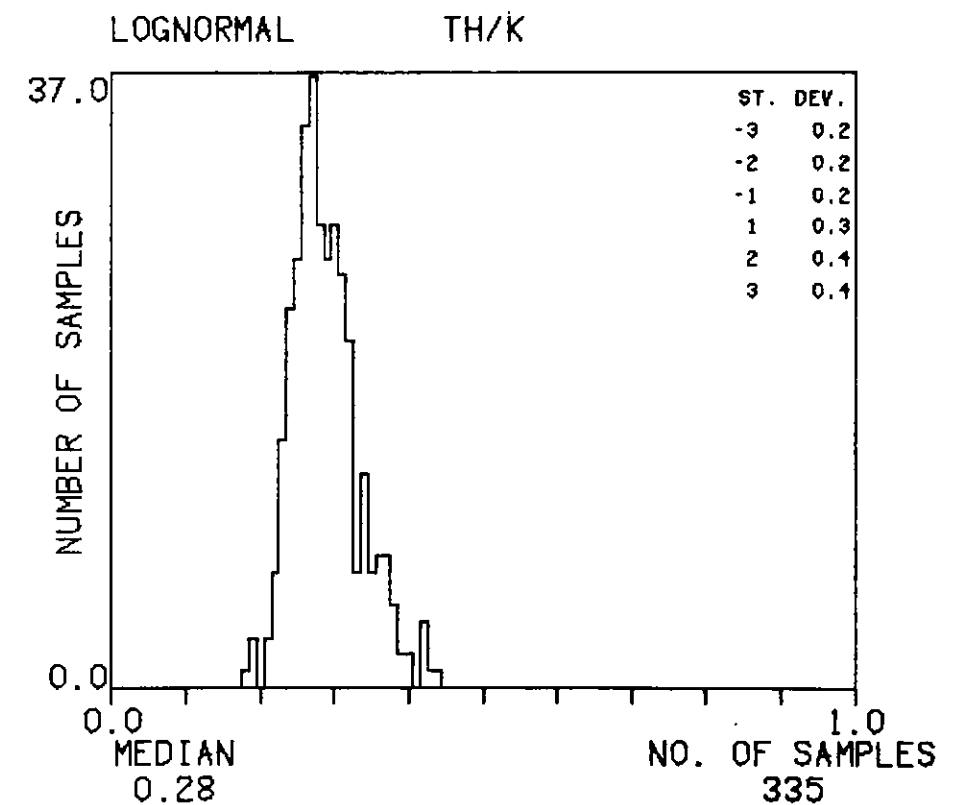
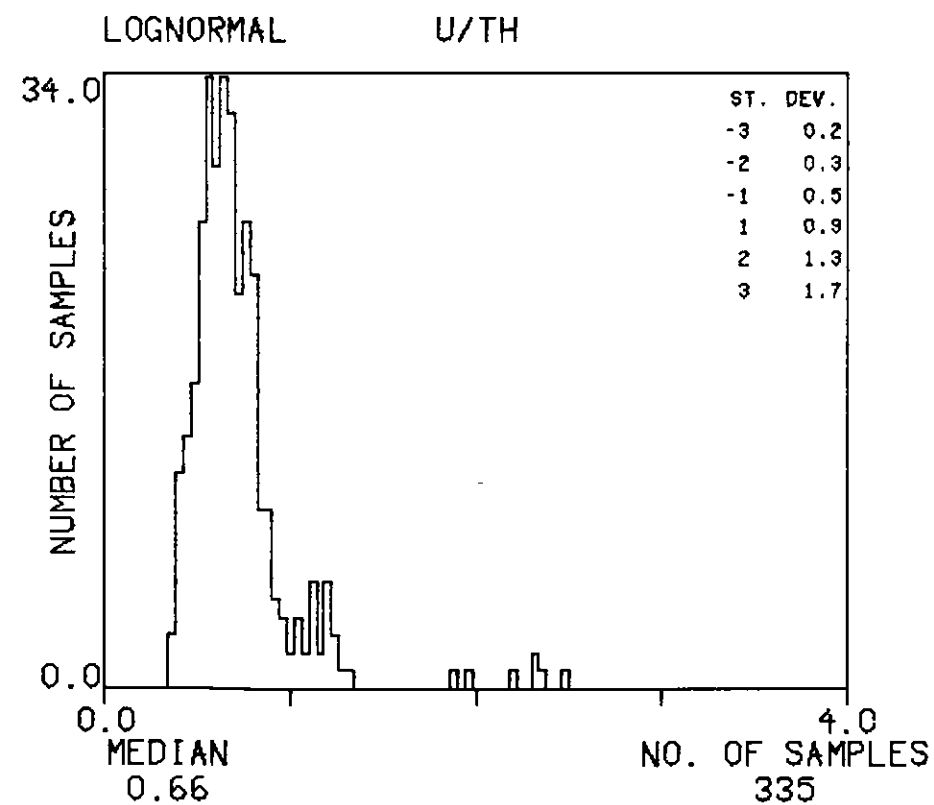
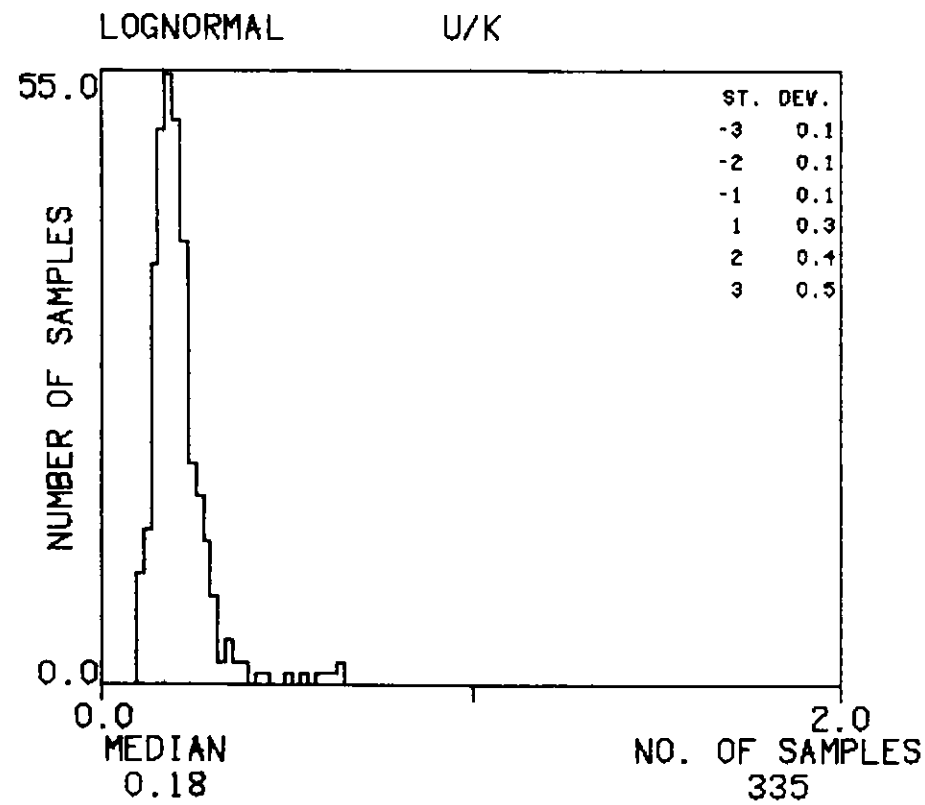
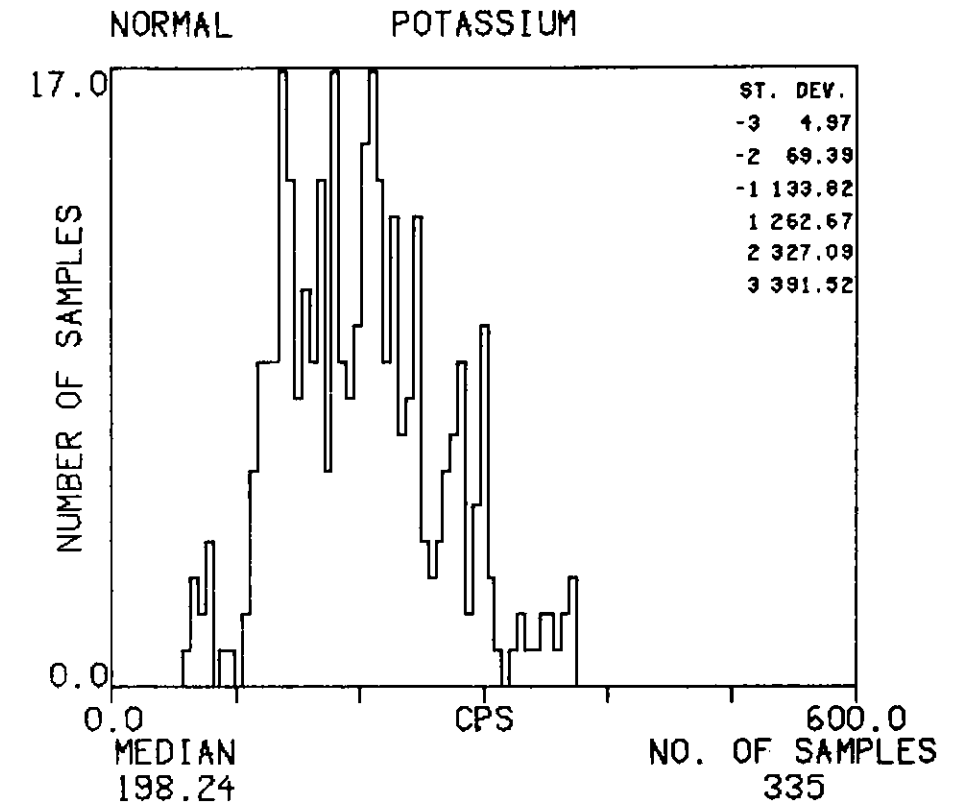
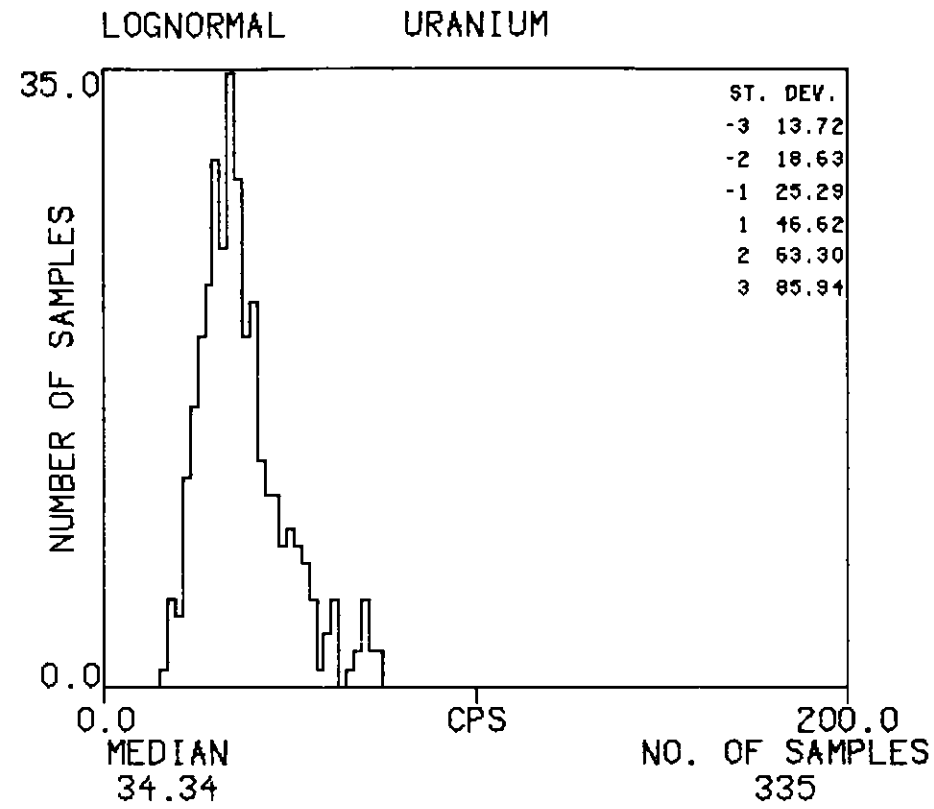
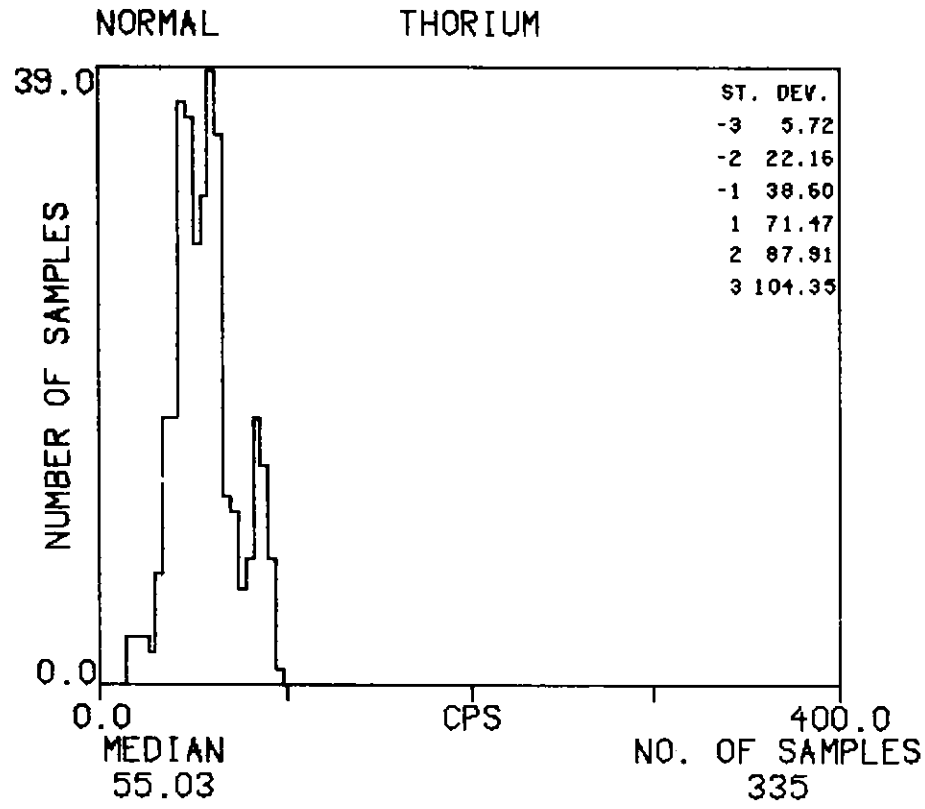
HISTOGRAMS : PCSC

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



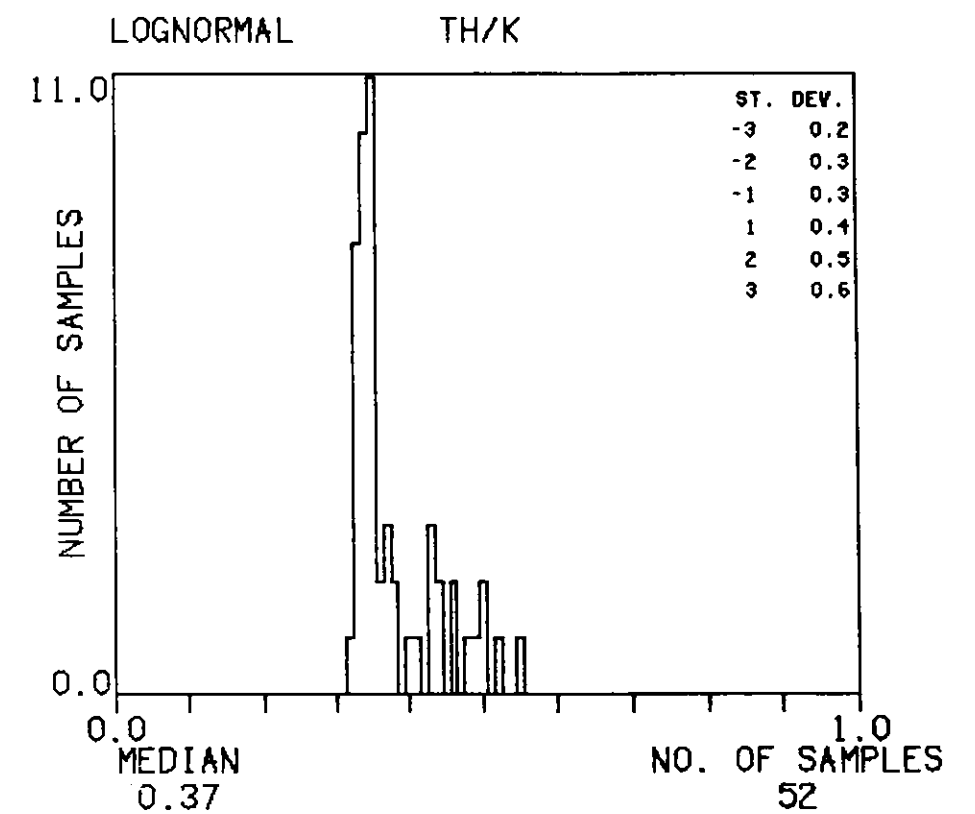
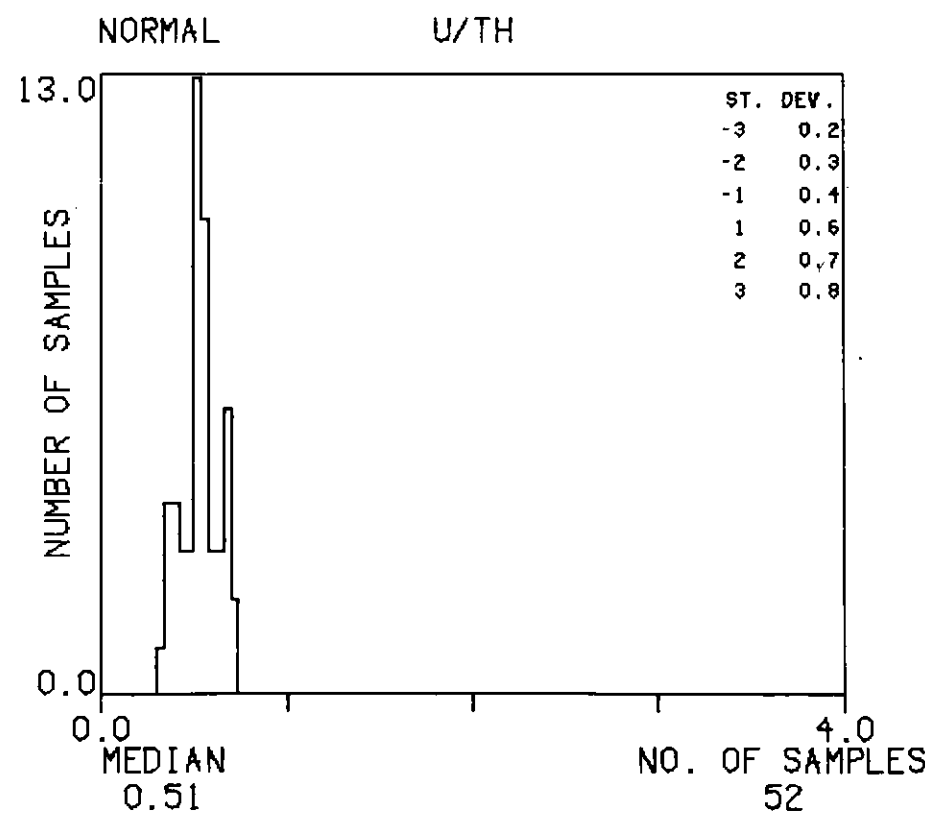
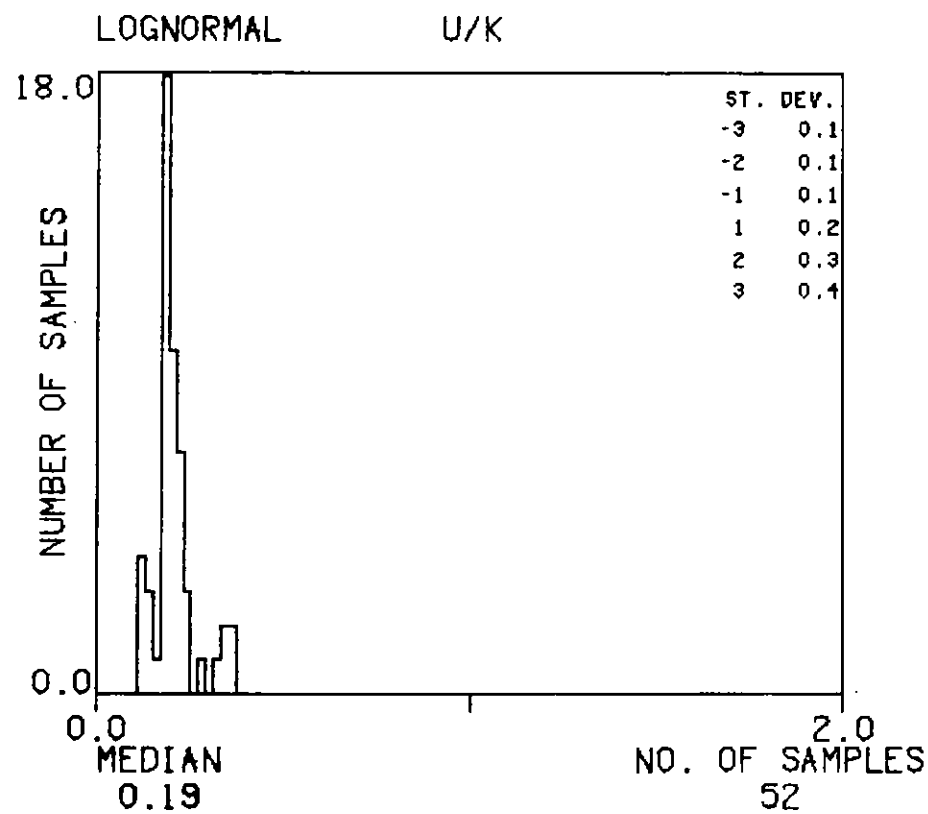
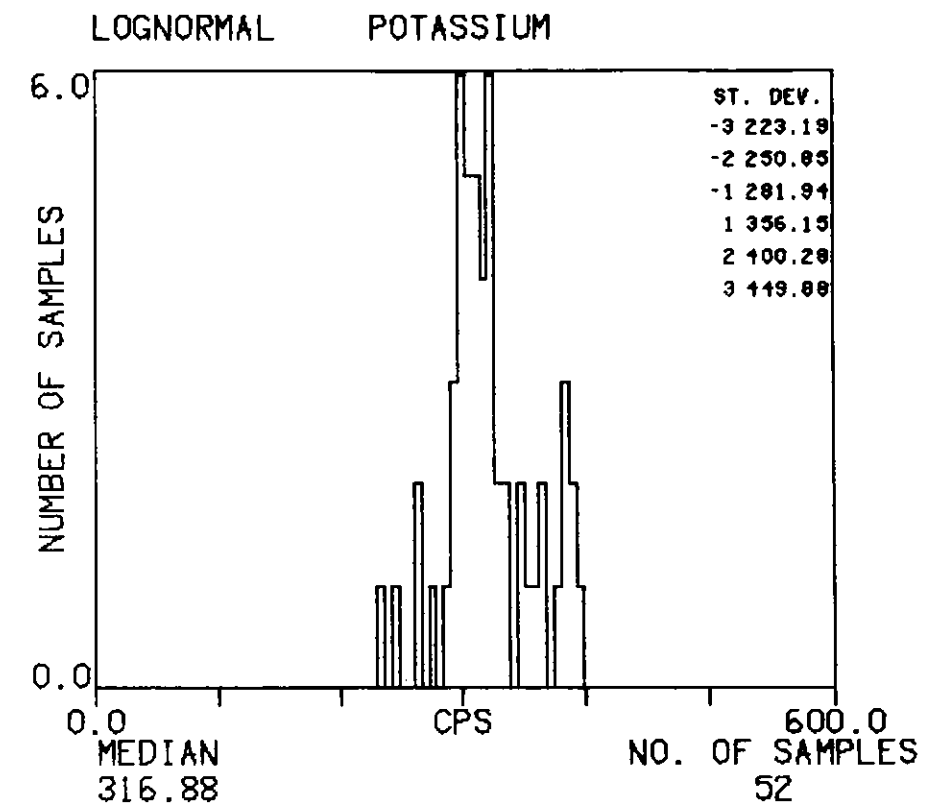
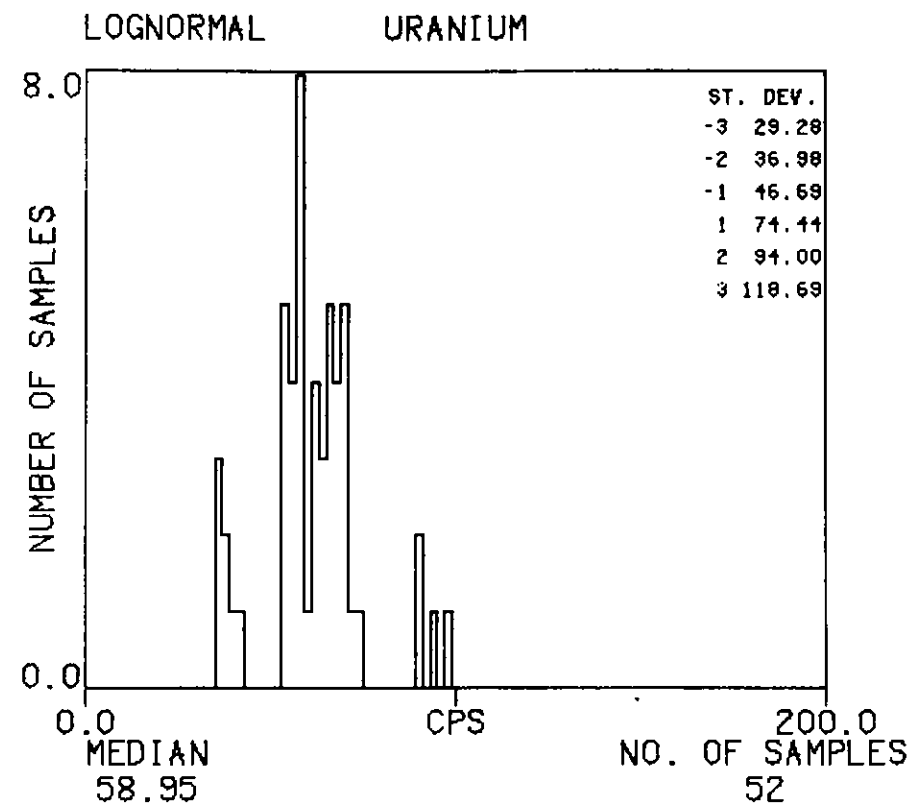
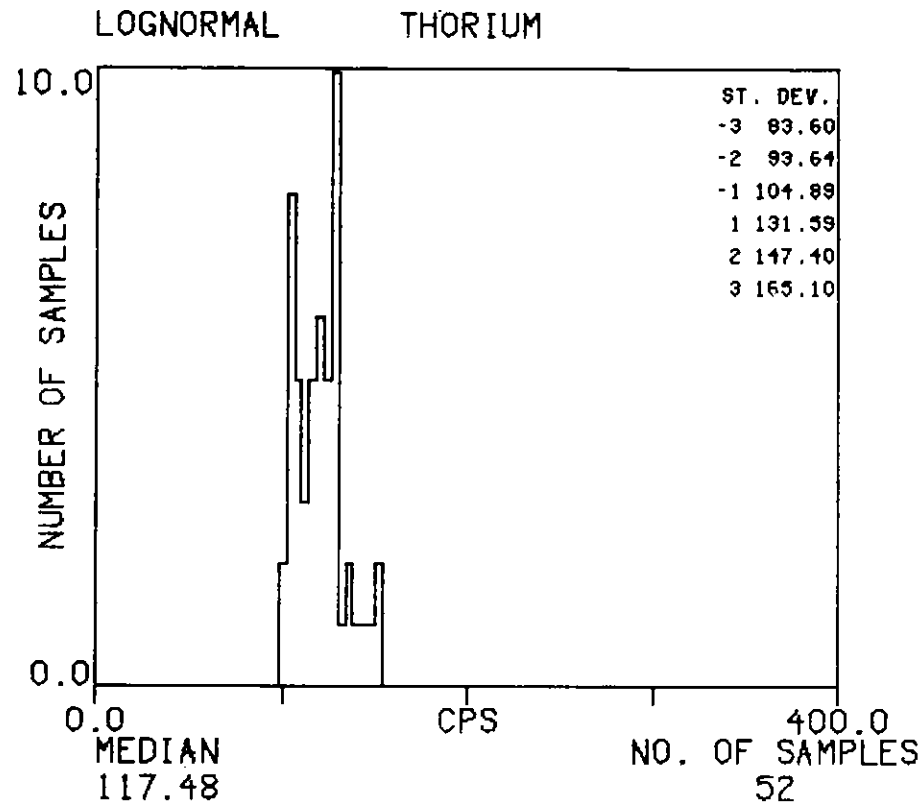
HISTOGRAMS : PCSC-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



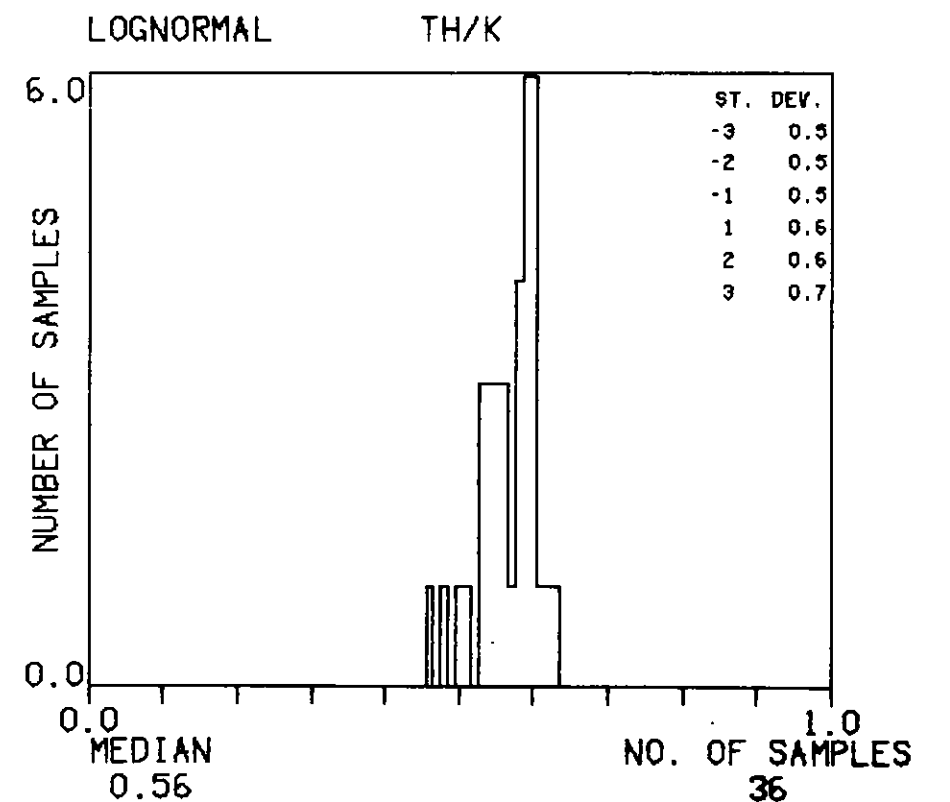
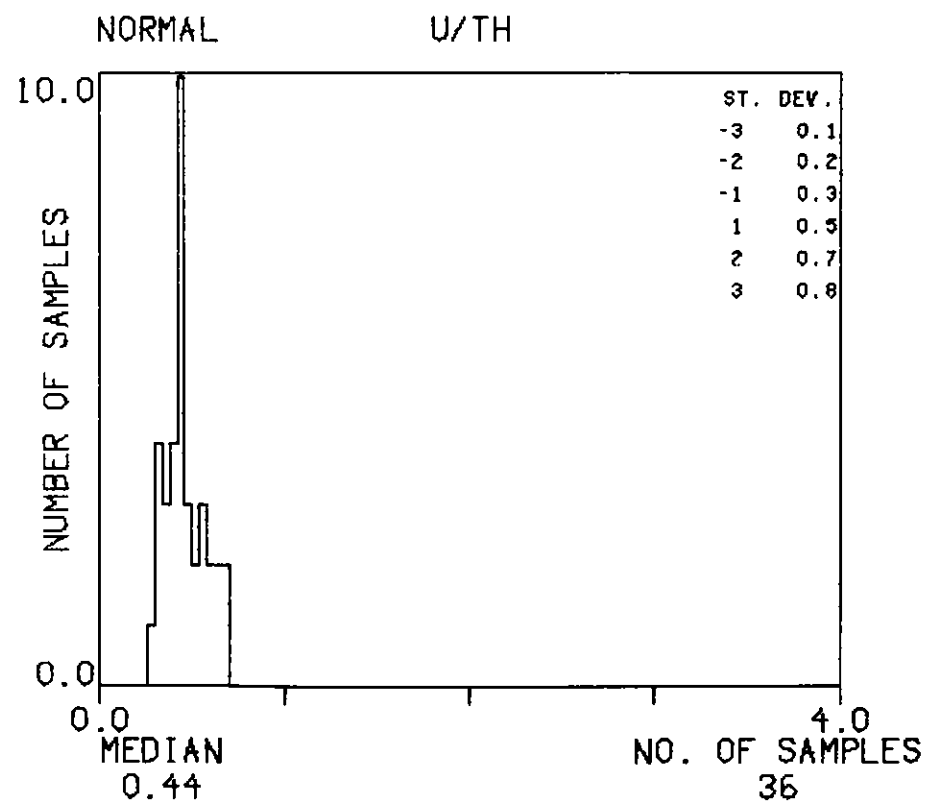
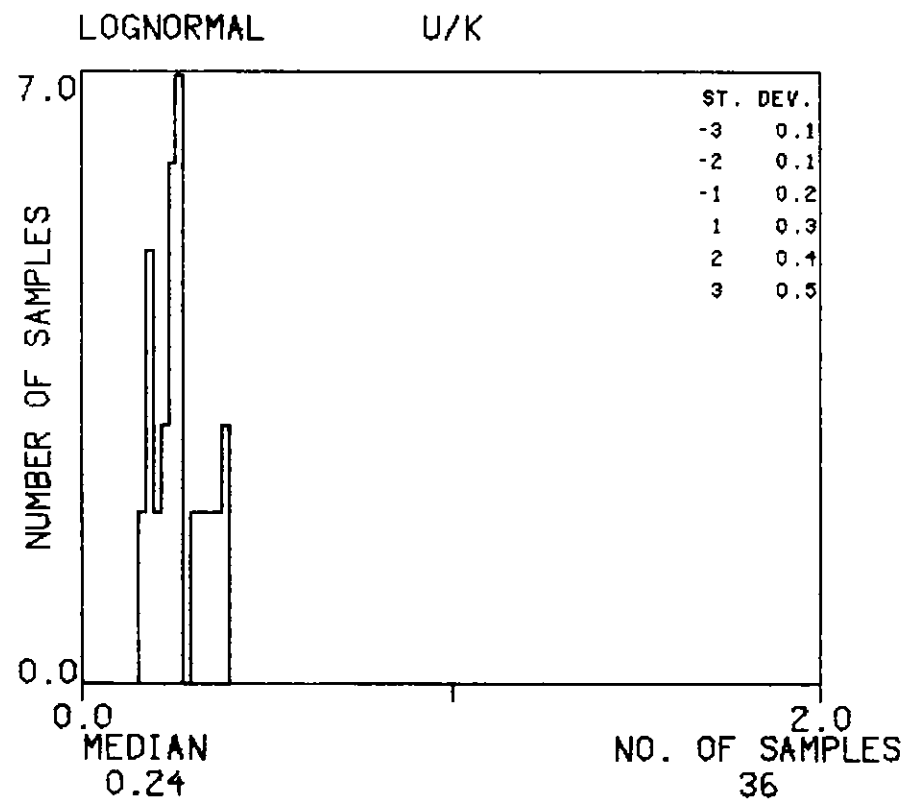
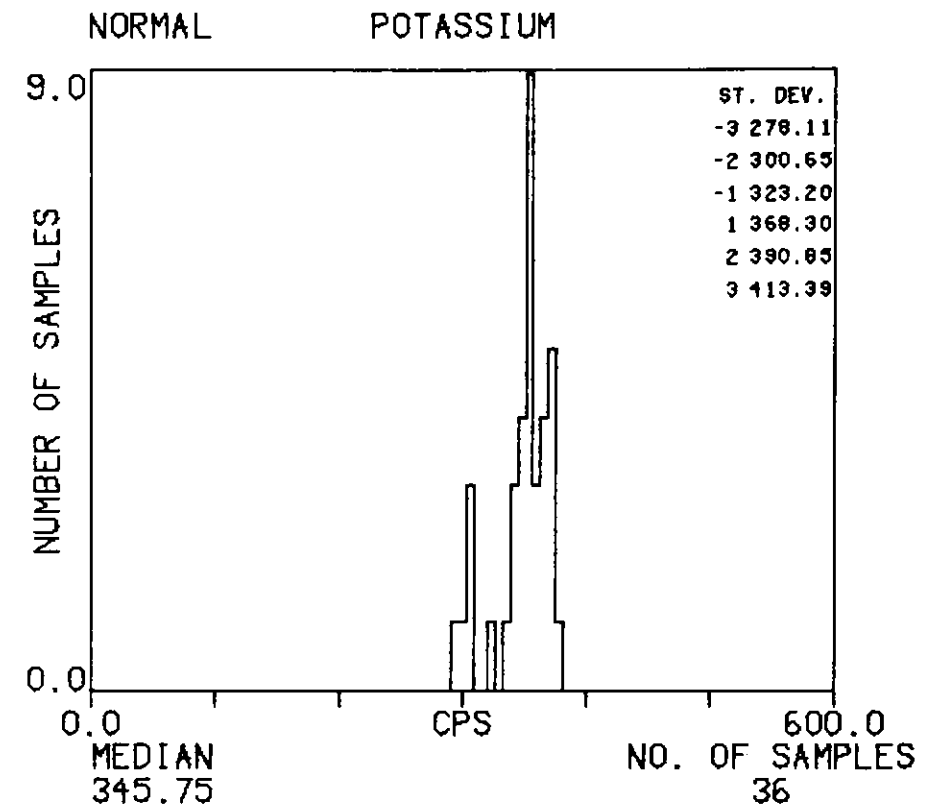
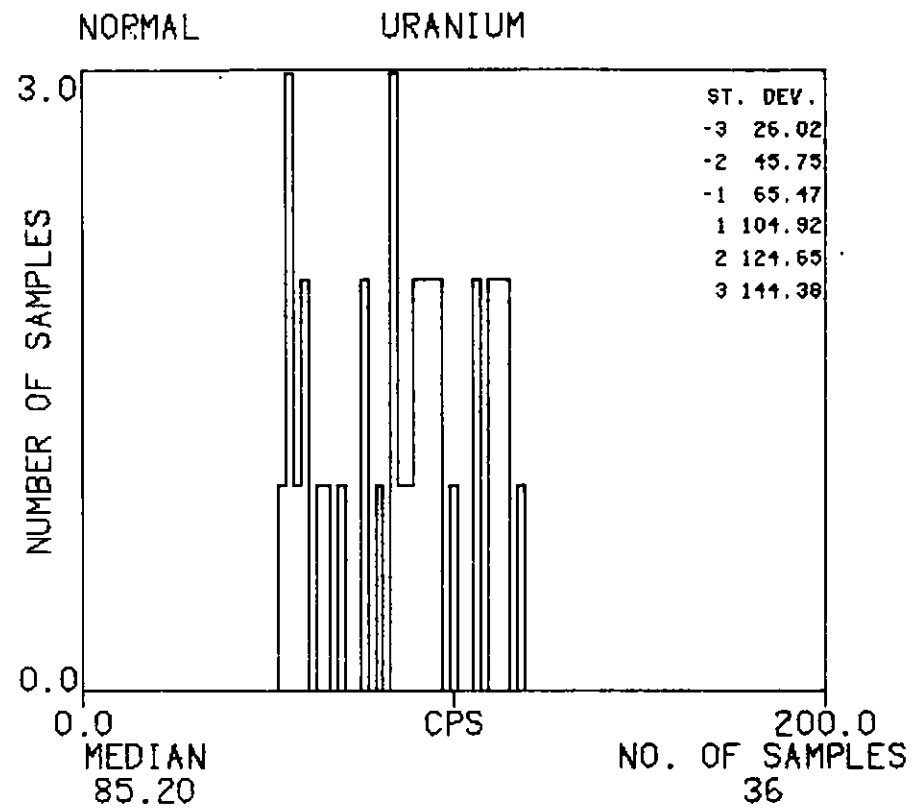
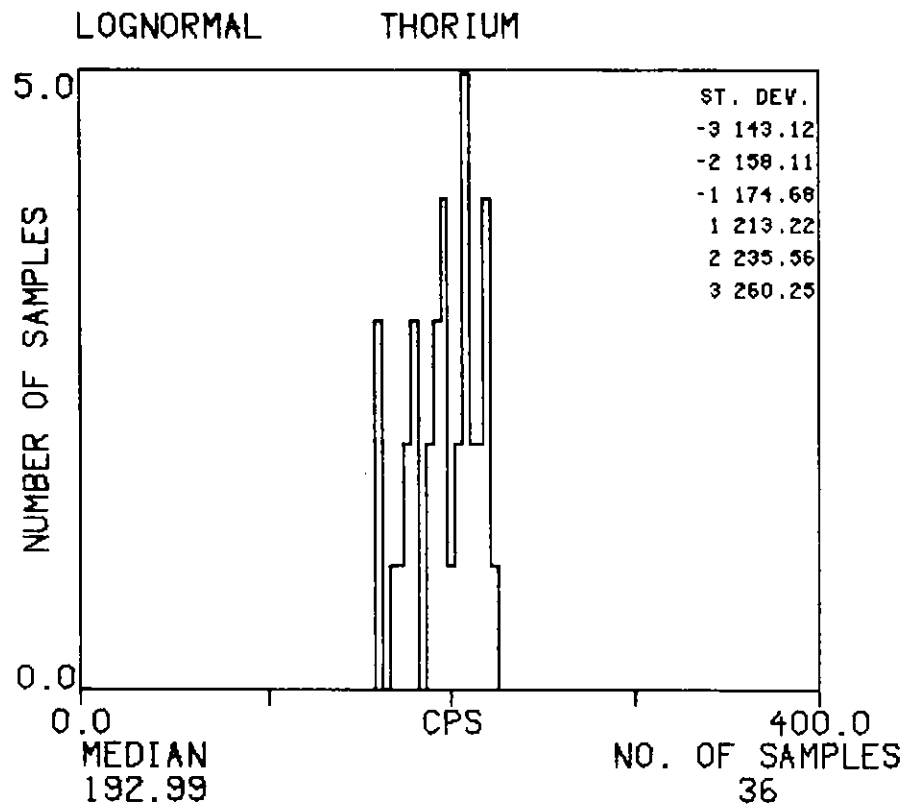
HISTOGRAMS : PCSC-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



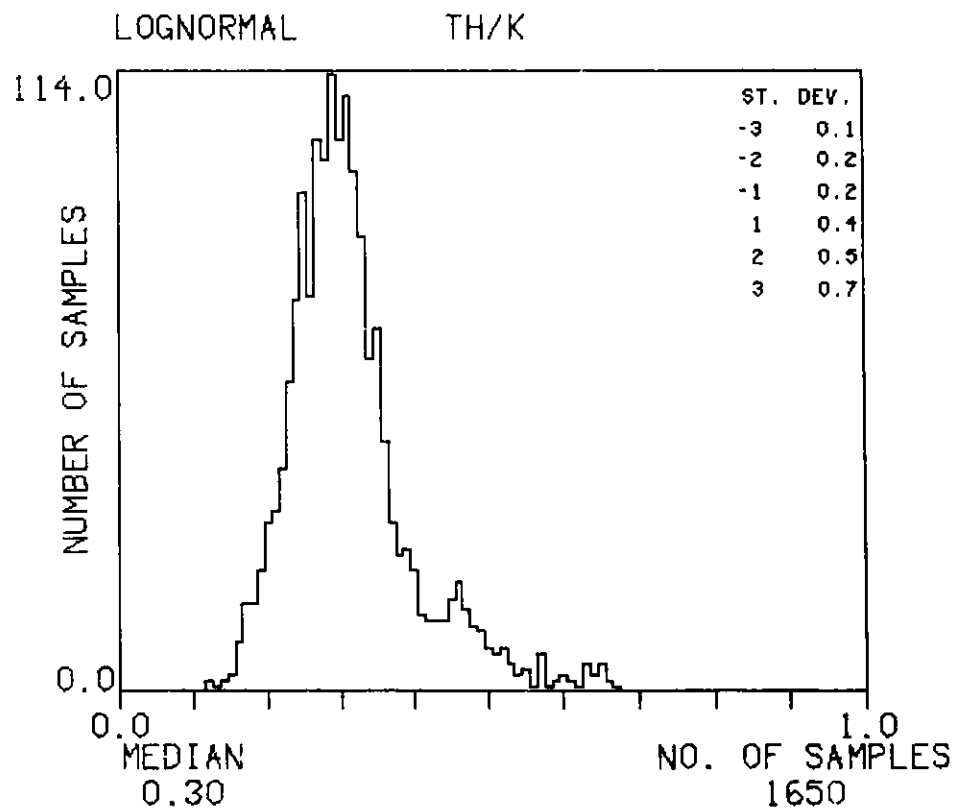
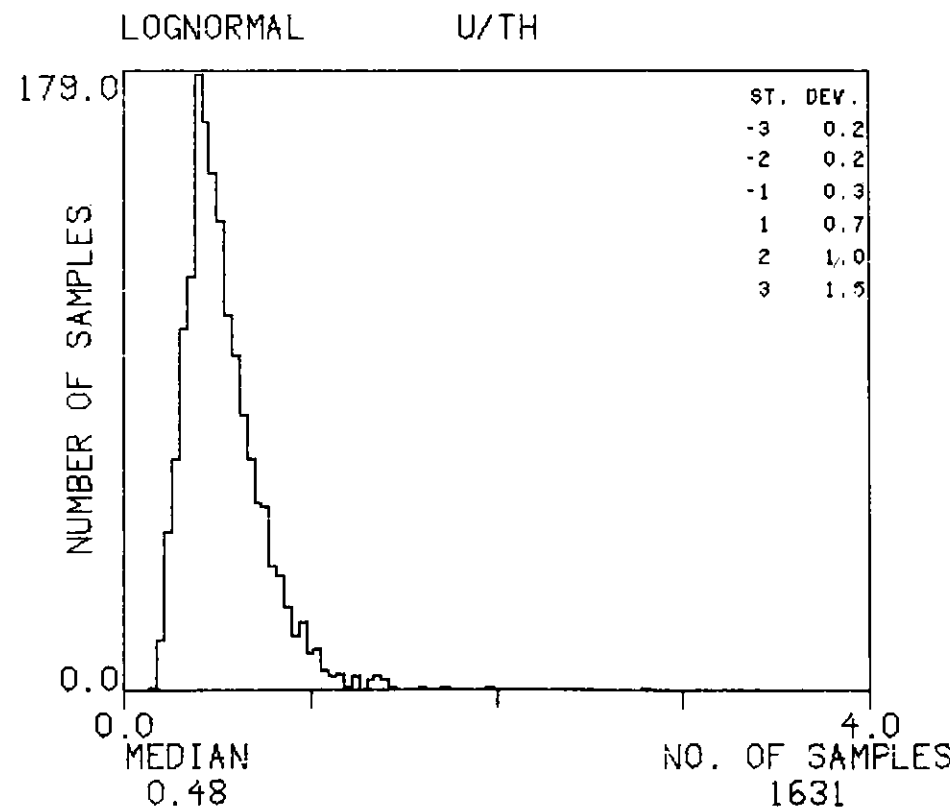
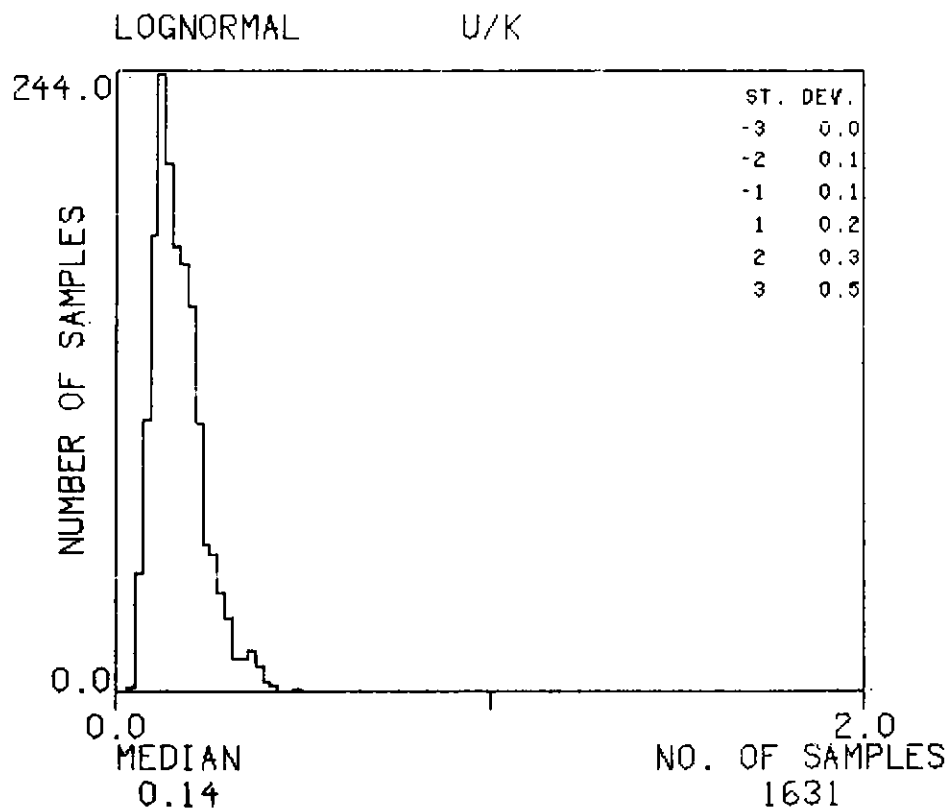
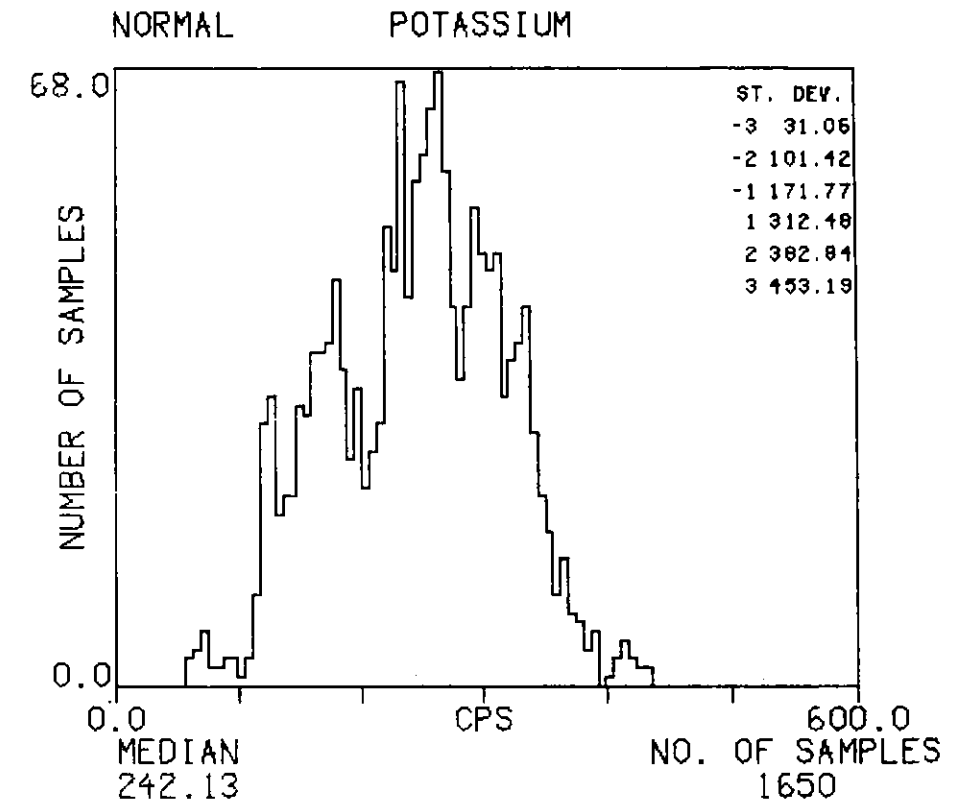
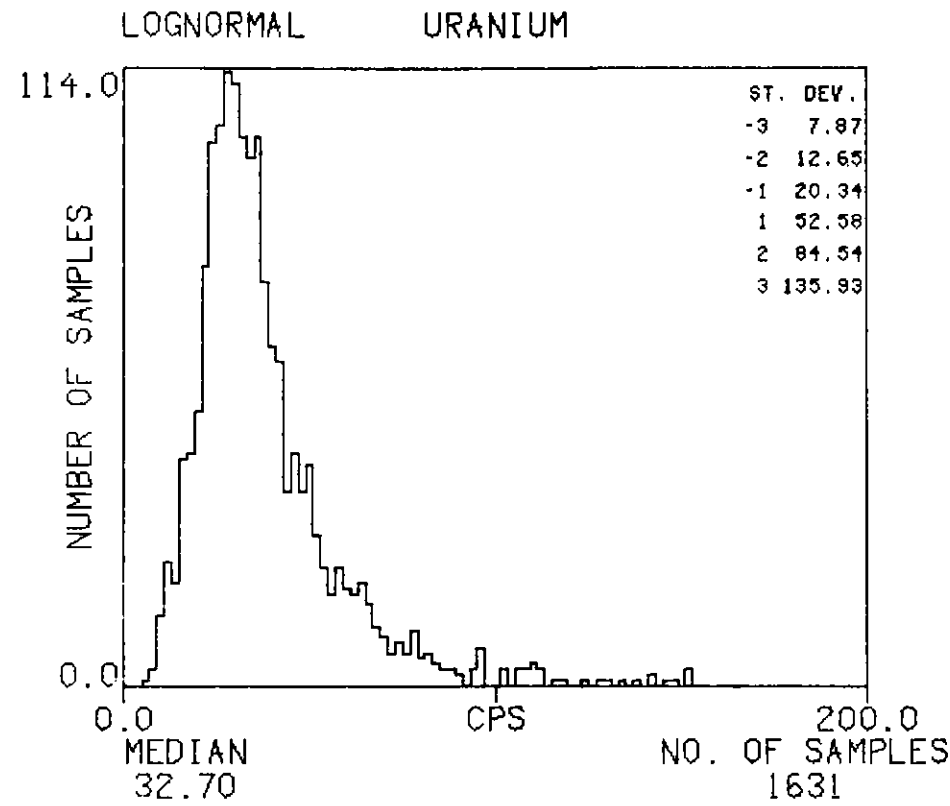
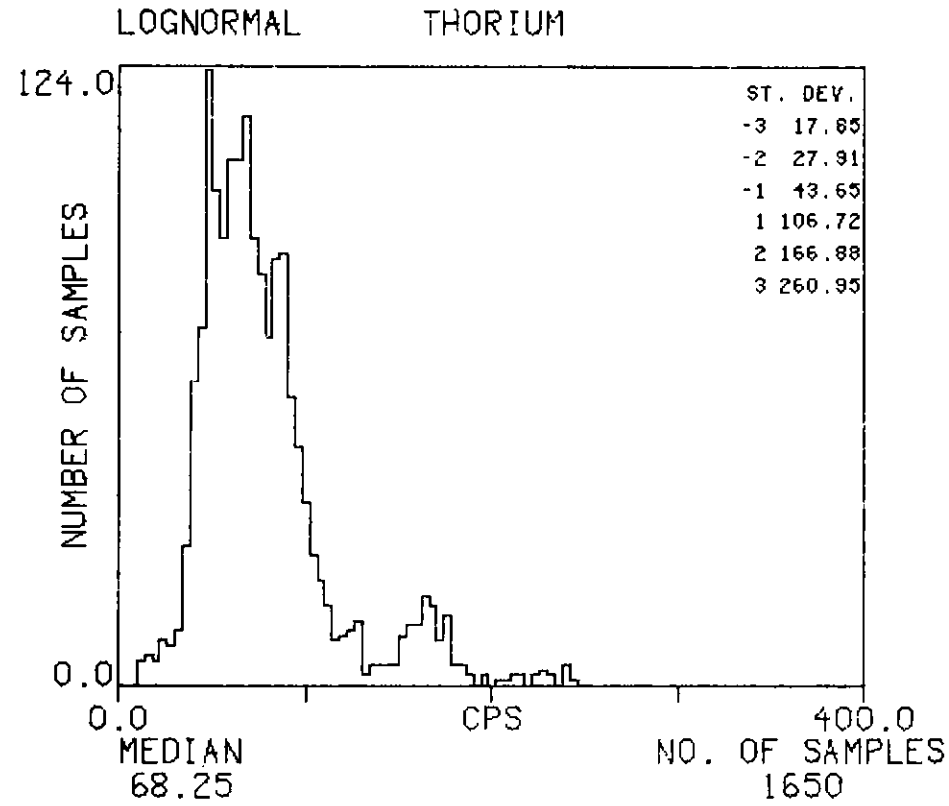
HISTOGRAMS : PCSC-3

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978



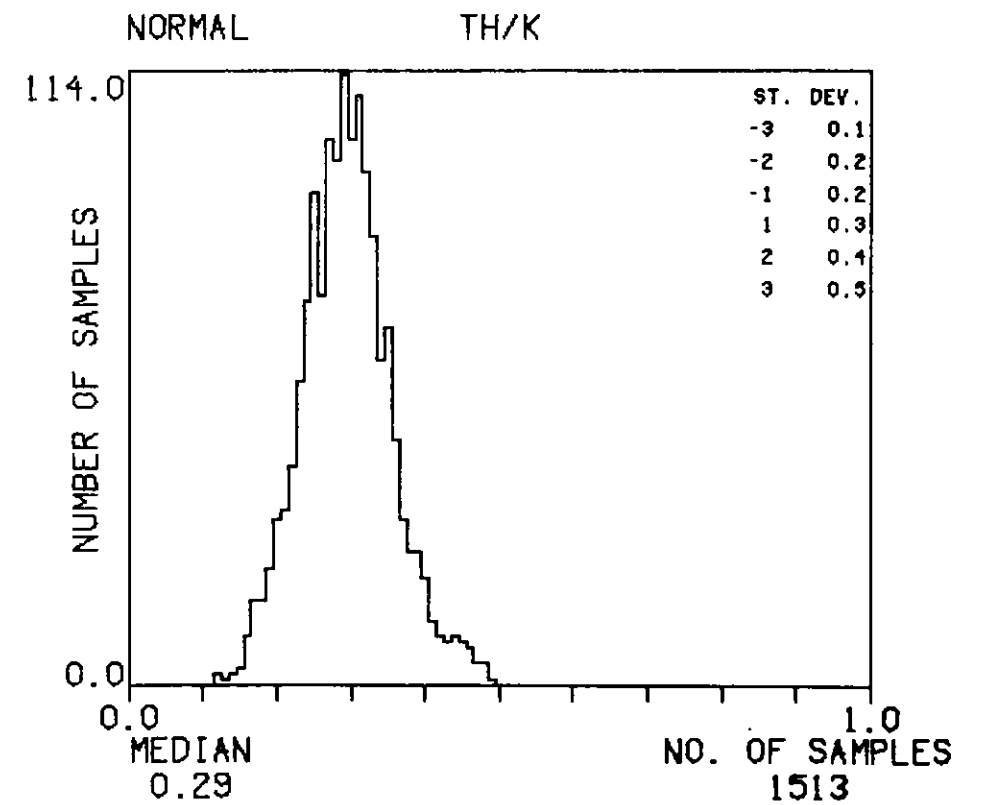
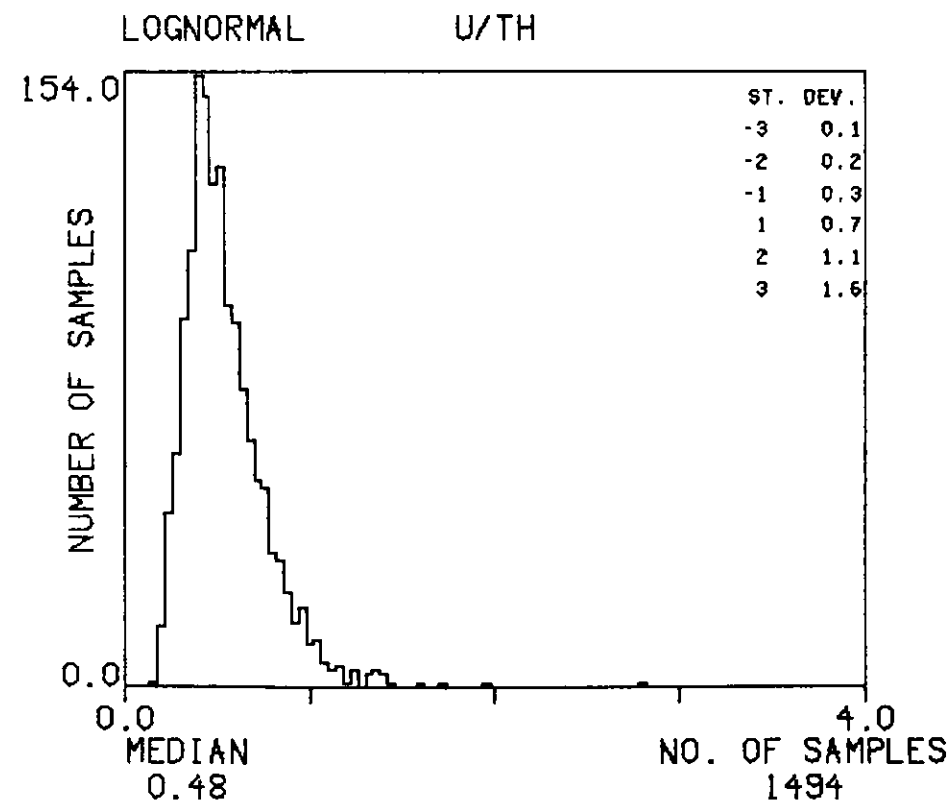
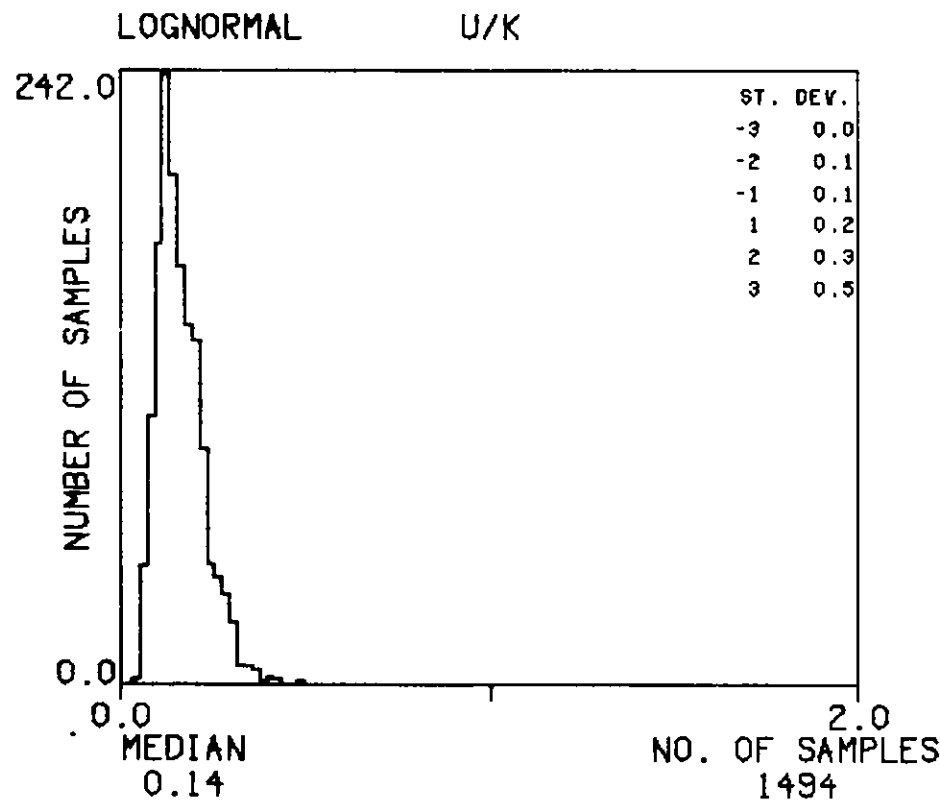
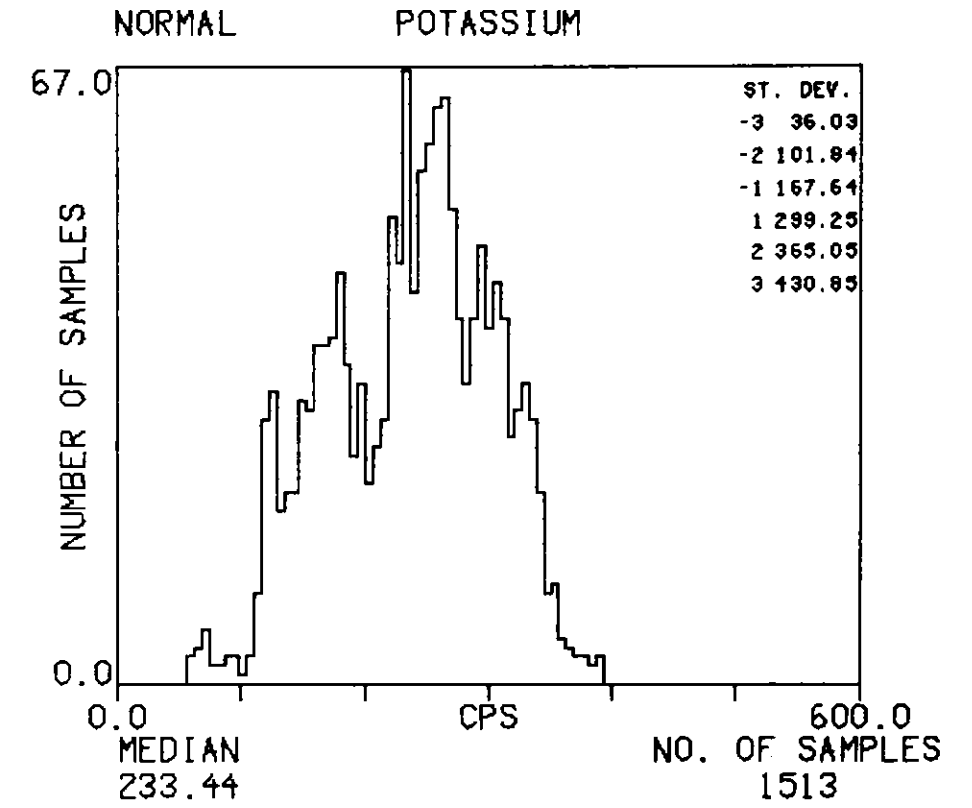
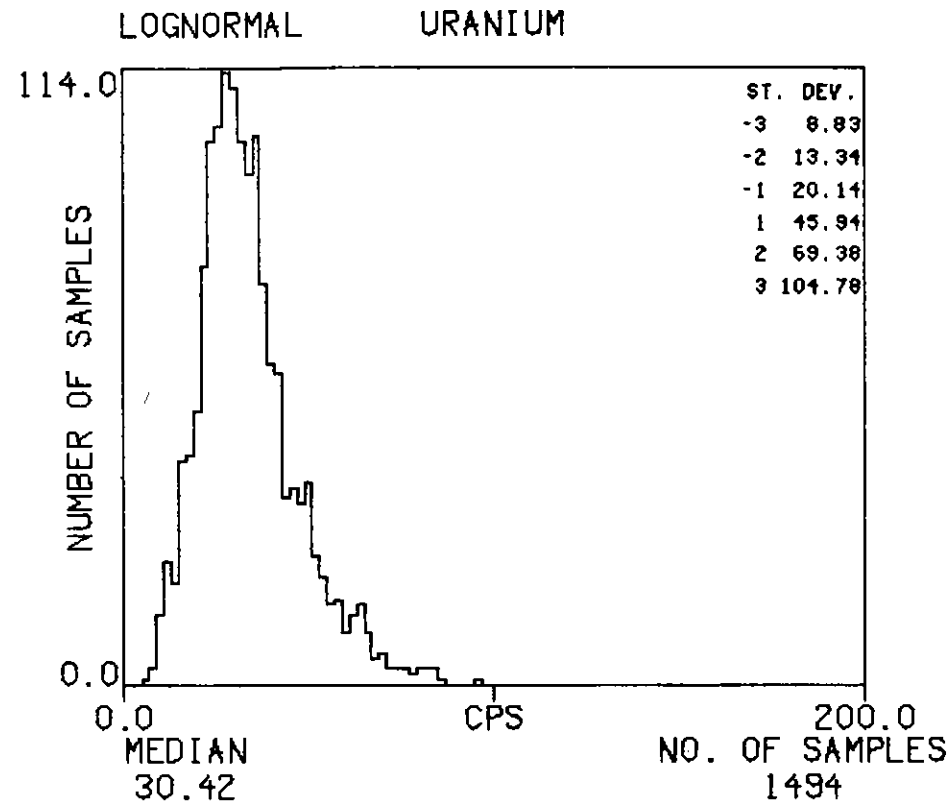
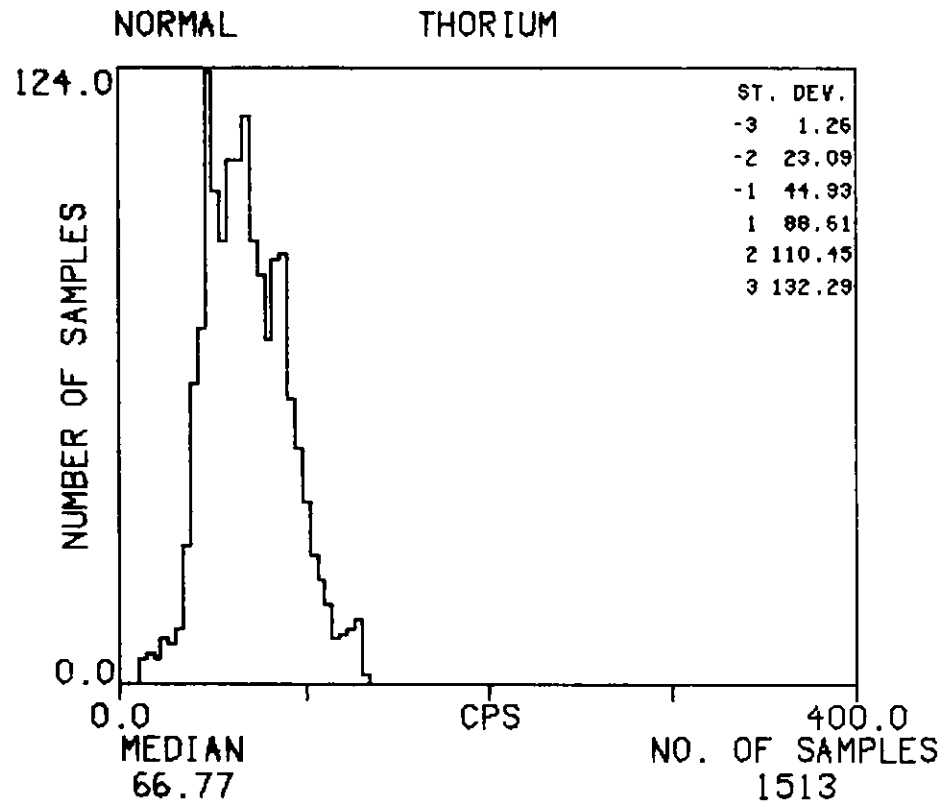
HISTOGRAMS : PCGN

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



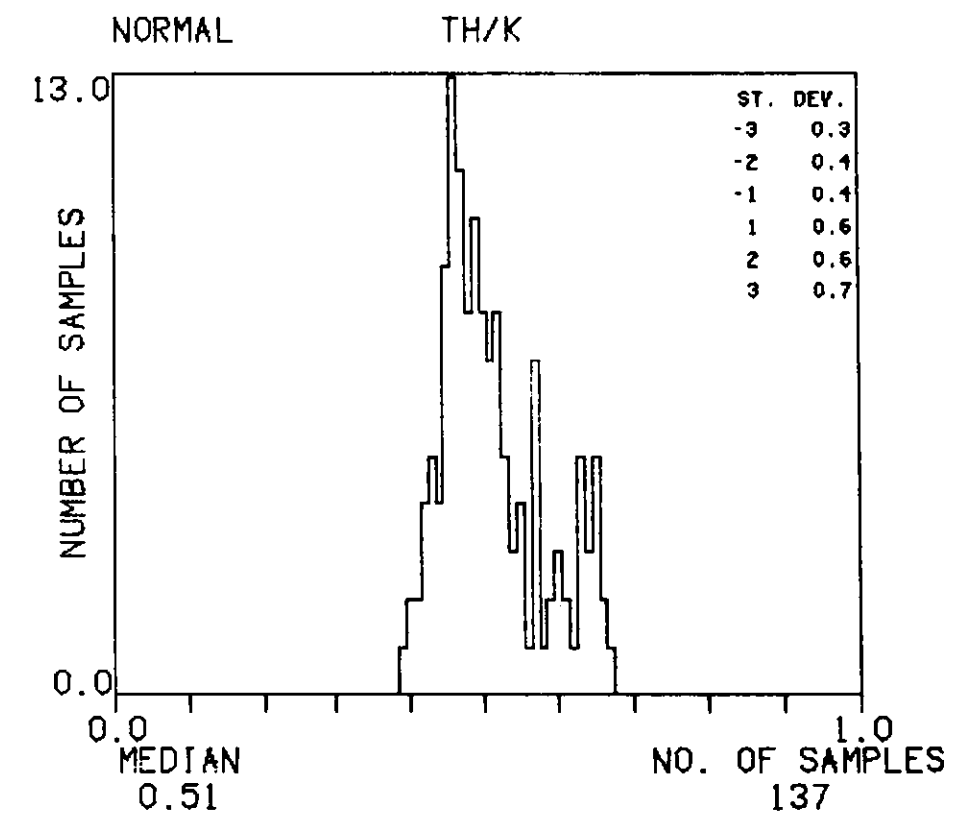
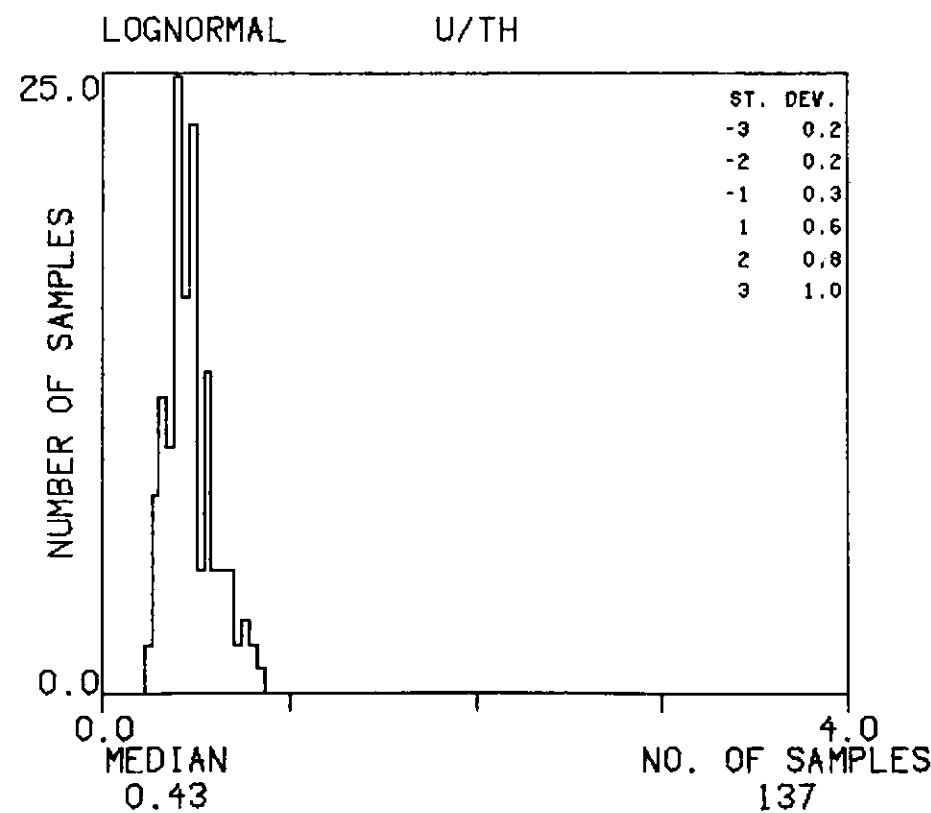
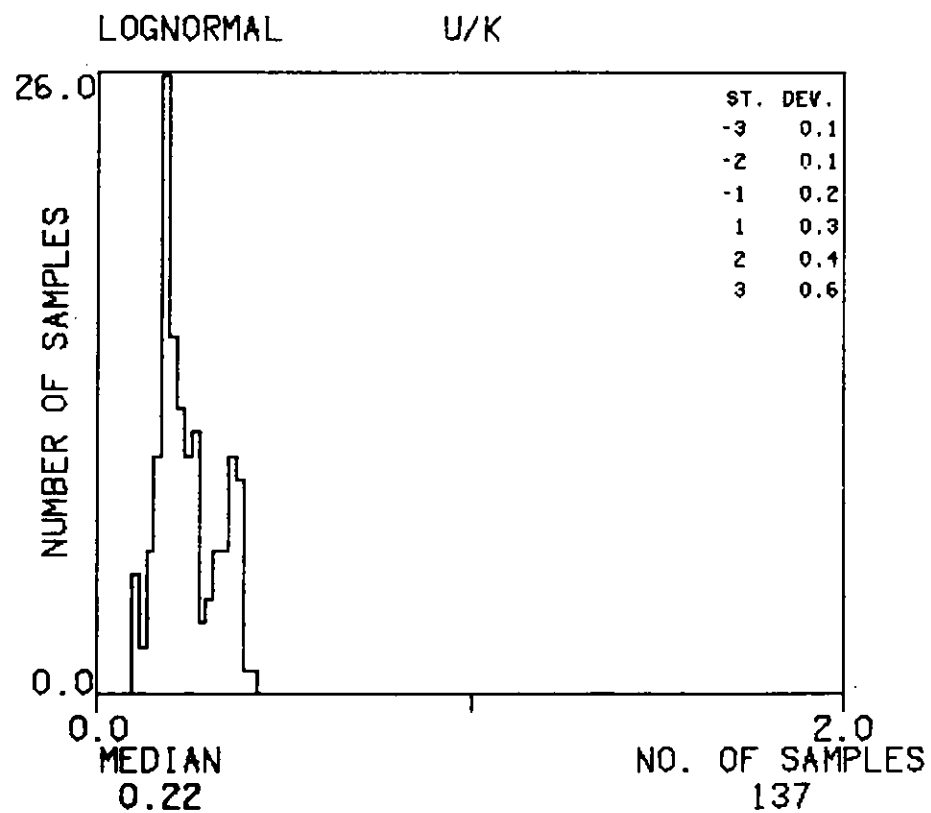
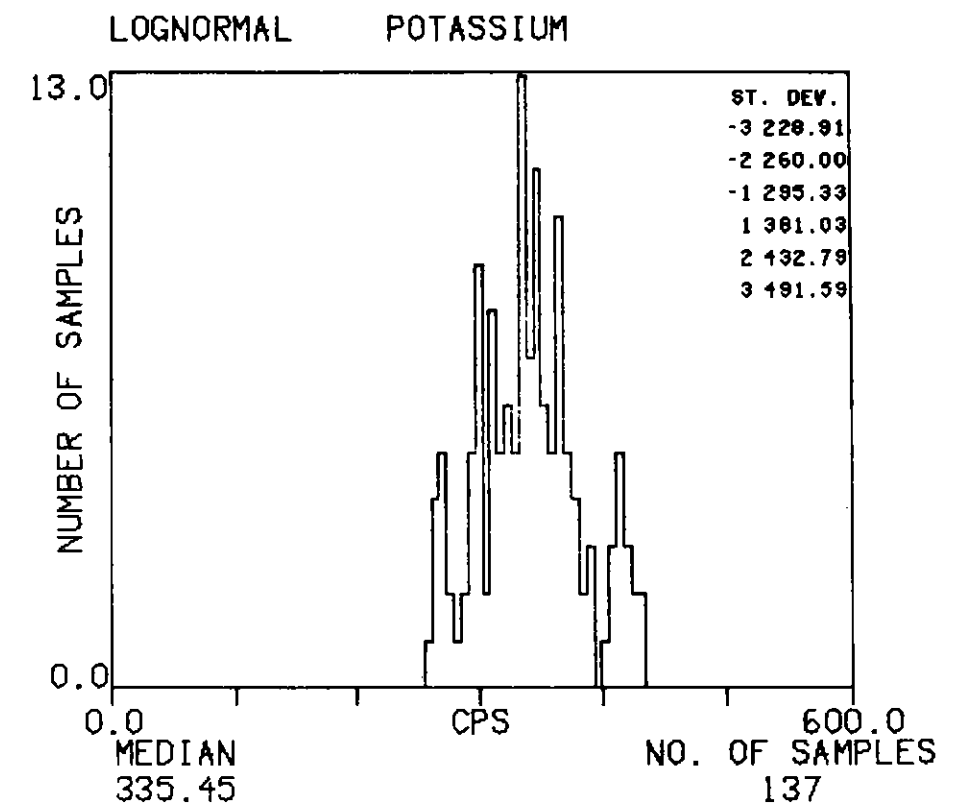
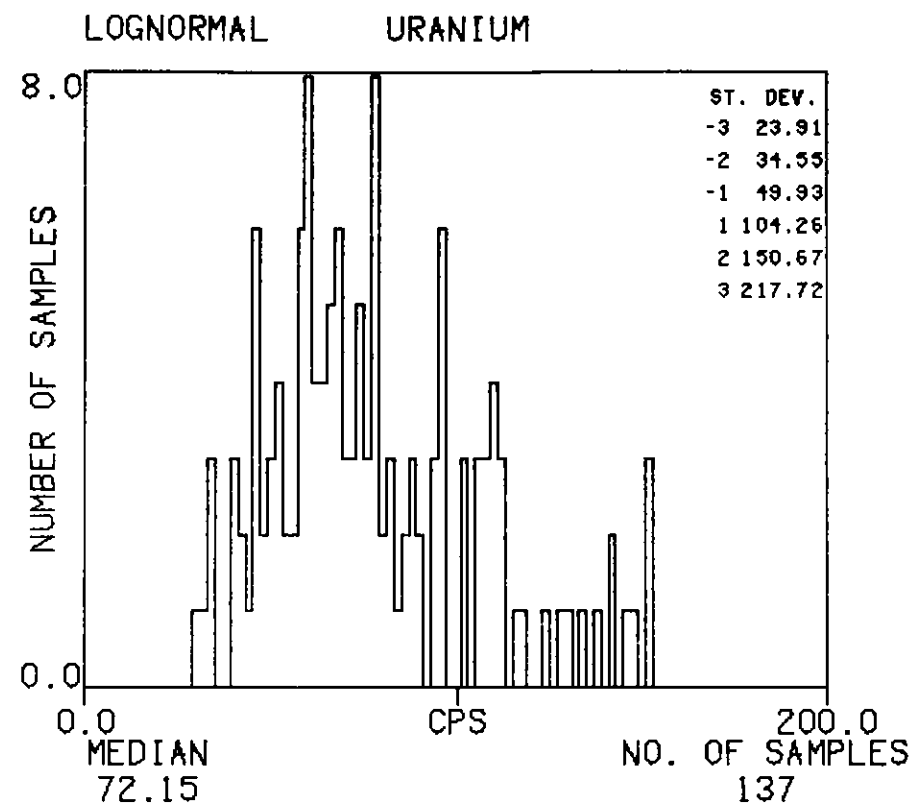
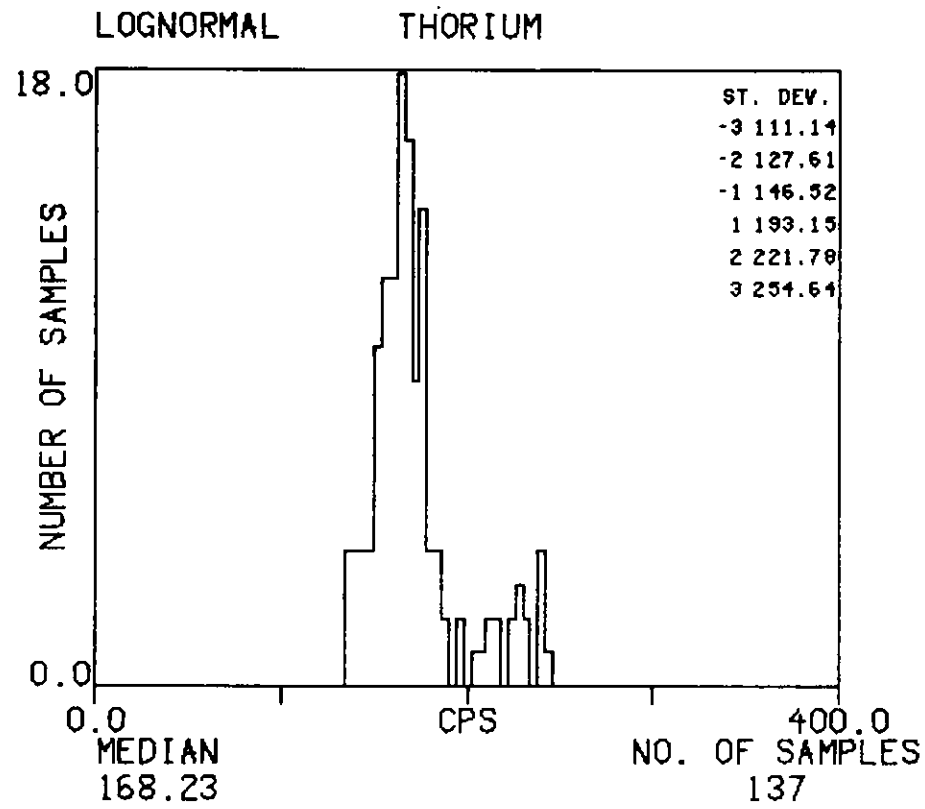
HISTOGRAMS : PCGN-1

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



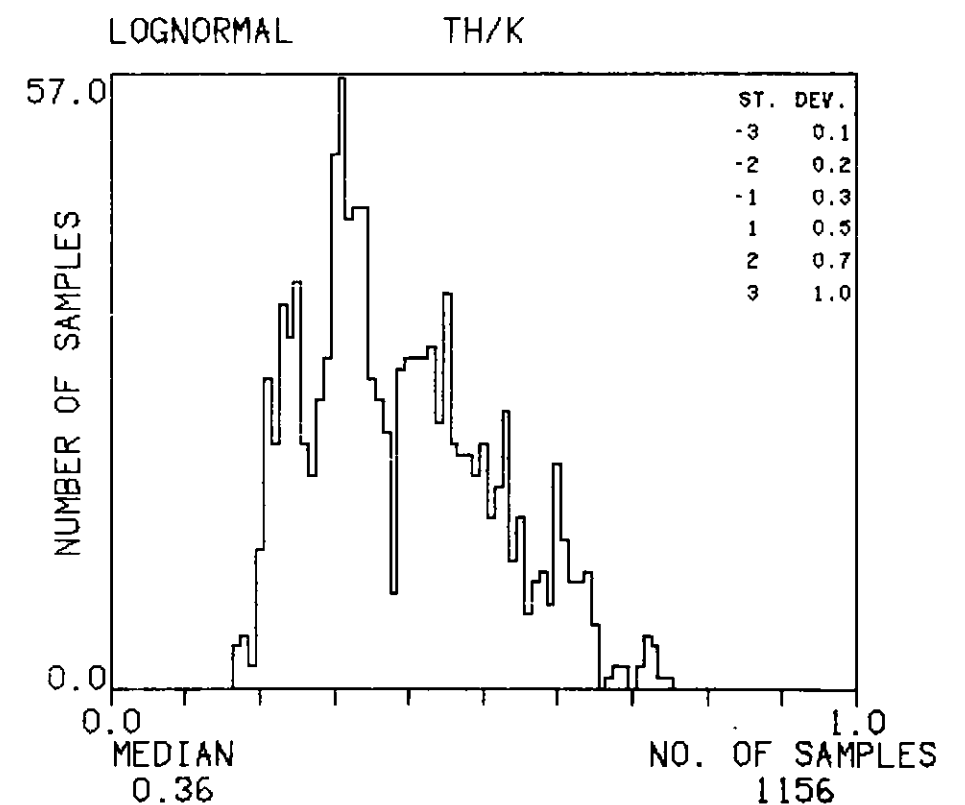
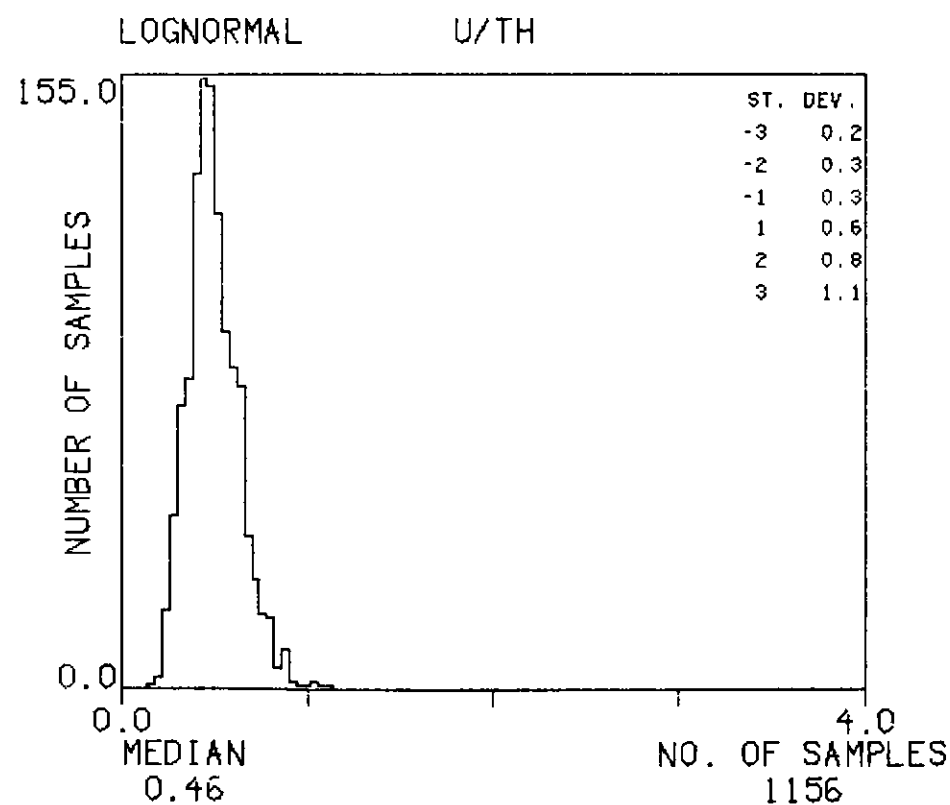
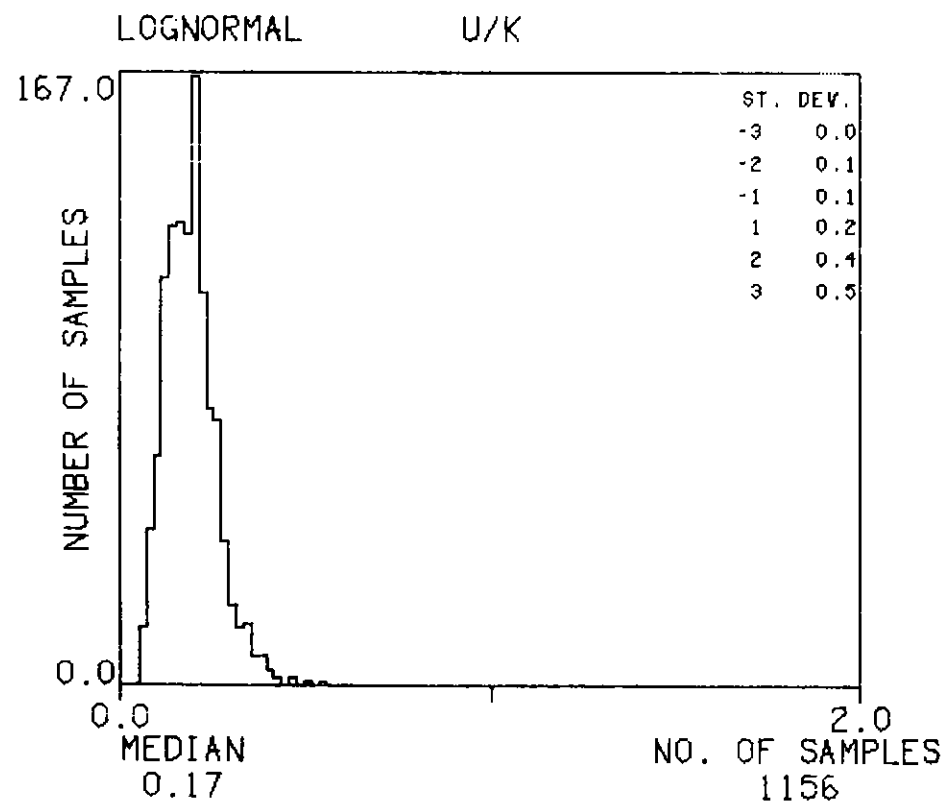
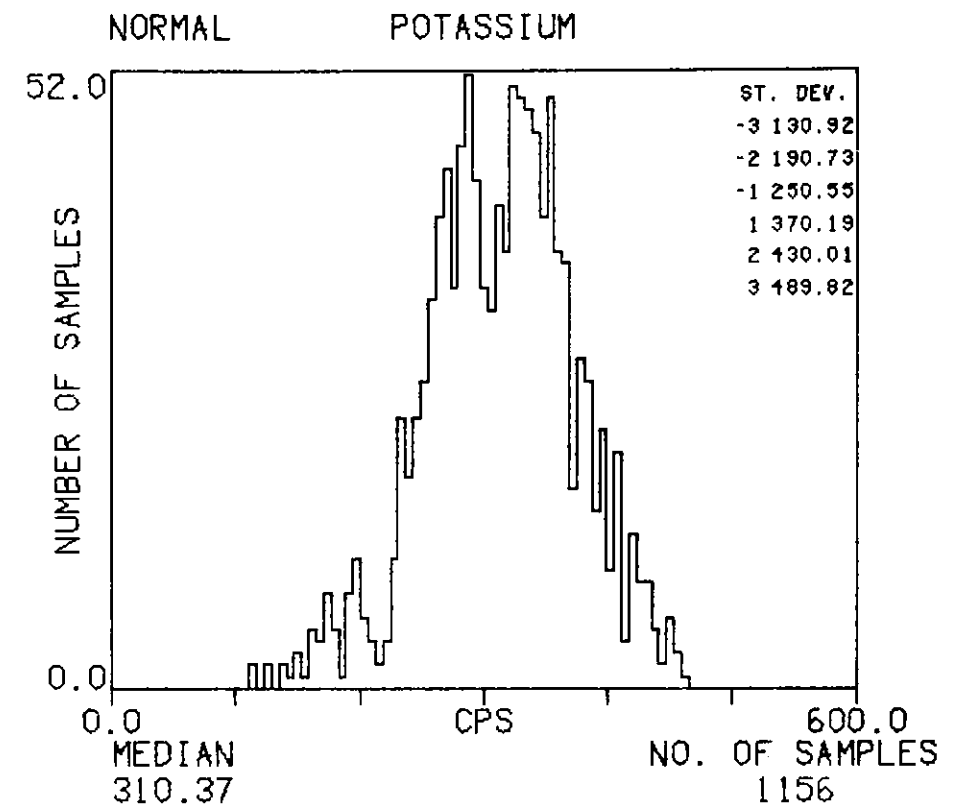
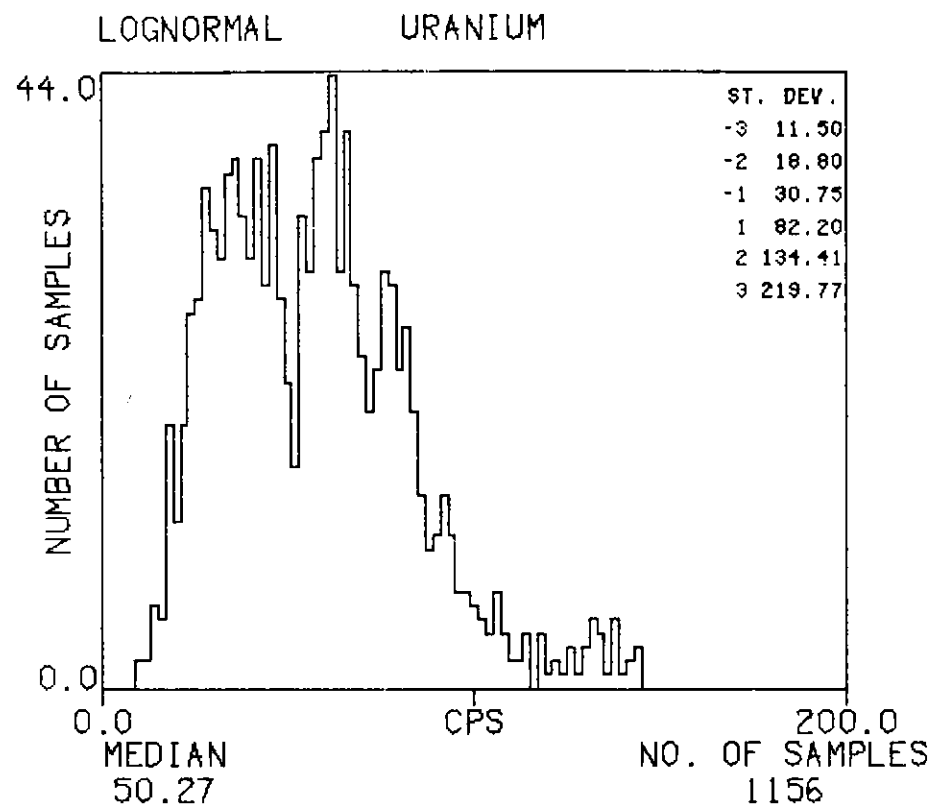
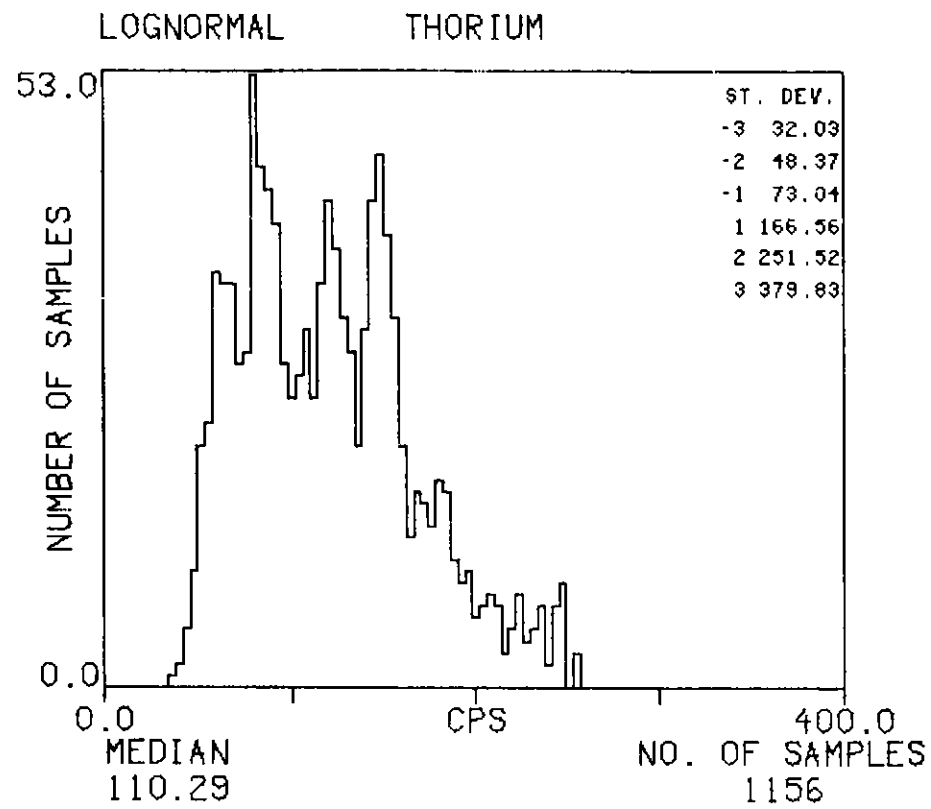
HISTOGRAMS : PCGN-2

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



HISTOGRAMS : PCGR

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-ARIZONA SURVEY 1978



HISTOGRAMS : TM

TEXAS INSTRUMENTS INC. SILVER CITY NI12-12 UTAH-AZIZONA SURVEY 1978

