MASTER

HOLE HISTORY

CORE HOLE DC-2

HANFORD, WASHINGTON

SEPTEMBER, 1977

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INTRODUCTION

Core hole DC-2 was completed in September 1977 by Boyles Brothers Drilling Company, Spokane, Washington, under subcontract to Rockwell Hanford Operations. The intermediate section of core hole DC-2 was completed by Continental Drilling Company, Seattle, Washington, under subcontract to Rockwell Hanford Operations. The hole was cored for the U.S. Department of Energy and the Rockwell Hanford Operations' Department of Waste Isolation. Fenix & Scisson, Inc. furnished the daily supervision of the core drilling activities for hole DC-2.

Core hole DC-2 is located north of the 200 East Barricaded Area on the Hanford reservation. The Hanford reservation coordinates for DC-2 are North 47,947 feet and West 48,253 feet. Core hole DC-2 location is depicted on Figure 1.

The purpose of core hole DC-2 was to core drill vertically through the basalt and interbed units for stratigraphic depth determination and core collection and to provide a borehole for hydrological testing. The total depth of core hole DC-2 was 3,300 feet. Core recovery exceeded 99 percent of the total footage cored. The coring record is presented in Table I.

CORING SUMMARY

Continental Drilling Company utilized a Chicago Pneumatic Type 50 coring rig to drill the intermediate section of core hole DC-2. Mobilization of the rig began May 9, 1977. Demobilization was completed on August 6, 1977.

Continental Drilling Company rigged up their coring rig over 6-5/8-inch outside diameter casing which had been previously set by a cable tool rig at 205 feet (all depths recorded in this report are those measured from ground level). Casing, 4-1/2-inch outside diameter, was run inside the 6-5/8-inch casing to 205 feet in order to decrease the hole diameter for rod stabilization. Coring operations commenced May 18, 1977 using NC oversize (3.927-inch outside diameter and 2.4-inch inside diameter) diamond core bits.

The NC oversize hole was cored to a depth of 1,203 feet. Lost circulation occurred at 654 feet, 1,105 feet and 1,144 feet. The 4-1/2-inch casing run to 205 feet was dropped while coring at 1,144 feet. Fishing operations proved to be unsuccessful. Washover pipe, 5-1/2-inch outside diameter, with a washover shoe was used to free the stuck 4-1/2-inch casing. The washover pipe then

parted leaving 20 feet of 5-1/2-inch washover pipe in the hole on the outside of the 4-1/2-inch casing. Both the 4-1/2-inch pipe and 5-1/2-inch pipe were eventually fished from the hole using a combination swedge inside a side-wall hook. Thirty-five days were utilized for fishing.

As such, the NC oversize hole was reamed to 5-1/2 inches and 4-1/2-inch outside diameter casing was set and cemented at 1,203 feet. Ten sacks or approximately 15 cubic feet of Type II neat cement were utilized to cement the casing in place. The cement was pumped to total depth where it was allowed to set and stabilize hydrostatically. Eighty feet of cement was encountered upon tripping into the hole. The cementing details are presented in Table II.

The NC oversize hole was cored from the 4-1/2-inch casing set at 1,203 feet. The hole was advanced to 2,200 feet. No significant hole problems were encountered. Continental Drilling Company demobilized their coring rig on August 6, 1977.

Boyles Brothers Drilling Company completed mobilization of a Chicago Pneumatic Type 50 coring rig on August 22, 1977. Coring operations commenced August 24, 1977 using NC oversize core bits. The NC oversize hole was cored to 2,260 feet where continual caving sand and a water flow observed at surface hampered inner barrel retrieval. NX size (3-1/2-inch outside diameter and 3.062-inch inside diameter) casing was run and cemented at 2,253 feet. Twenty sacks of Type II neat cement were used to cement the casing. The cementing details are presented in Table II.

The cement top was encountered 180 feet from total depth. NX oversize (3.062-inch outside diameter and 1.875-inch inside diameter) bits were used to core drill through the cement. Coring of new formation commenced September 9, 1978 with the NX oversize bits. The bit record for the core bits utilized by Boyles Brothers Drilling Company is presented in Table III.

Coring proceeded to the total depth of 3,300 feet. No hole problems were encountered while coring from 2,260 feet to 3,300 feet. The mud system utilized for all coring operations consisted of water, bentonite, starch, and lignite.

ORIENTED CORING SUMMARY

Seven cores, directionally oriented, were cut between 2,600 feet to 3,300 feet. The cores were oriented by using a magnetic multishot instrument with scribe knife for directionally marking the cores. The oriented coring runs were cut over the following depth intervals.

2,600 to 2,610 feet
2,922 to 2,928 feet
2,928 to 2,932 feet
3,102 to 3,107 feet
3,150 to 3,158 feet
3,200 to 3,210 feet
3,292 to 3,300 feet

Core recovery for the oriented coring runs was 100 percent. The oriented cores were cut to enable directional orientation of fracture-joint systems observed in the recovered cores.

FIGURE 1

SITE MAP CORE HOLE DC-2

FIGURE 2
CORING PROGRESS CURVE CORE HOLE DC-2

FIGURE 3

AS-BUILT DIAGRAM CORE HOLE DC-2

TABLE I
CORING RECORD

HOLE: DC-2

CONTRACTOR: Continental Drilling Company

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	%	L'NG'ST PIECE		FEET CORED	CORE REC'D	
5-18	A	1	207	211	4	100					
5-18	B	2	211	219	8	100					
5-18	B	3	219	226	7	100					
5-18	B	4	226	229	3	100					
5-18	B	5	229	231	2	100					
5-18	B	6	231	232	1	100					
5-18	B	7	232	236	4	100					
5-18	B	8	236	240	4	25					
5-18	B	9	240	250	10	40					
5-19	A	10	250	260	10	100					
5-19	A	11	260	270	10	100					
5-19	A	12	270	280	10	100					
5-19	A	13	280	290	10	100					
5-19	A	14	290	300	10	100					
5-19	B	15	300	303	3	100					
5-19	B	16	303	310	7	100					
5-19	B	17	310	319	9	100					
5-19	B	18	319	321	2	100					
5-19	B	19	321	331	10	100					
5-19	B	20	331	337	6	100					
5-20	A	21	337	343	6	100					
5-20	A	22	343	353	10	100					
5-20	A	23	353	356	3	100					
5-20	A	24	356	361	5	100					
5-20	A	25	361	366	5	100					
5-20	A	26	366	375	9	100					
5-20	A	27	375	385	10	100					
5-20	B	28	385	390	5	100					
5-20	B	29	390	400	10	100					
5-20	B	30	400	410	10	100					
5-20	B	31	410	420	10	100					
5-20	B	32	420	430	10	100					
5-20	B	33	430	435	5	100					
5-23	A	34	435	445	10	100					
5-23	A	35	445	452	7	100					
5-23	A	36	452	458	6	100					
5-23	A	37	458	468	10	100					
5-23	A	38	468	477	9	100					
5-23	B	39	477	483	6	100					
5-23	B	40	483	486	3	100					

TABLE I (Continued)

CORING RECORD

HOLE: DC-2CONTRACTOR: Continental Drilling Company

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	%	LONGEST PIECE		FEET CORED	CORE REC'D	
5-23	B	41	486	496	10	100					
5-23	B	42	496	500	4	100					
5-23	B	43	500	508	8	100					
5-23	B	44	508	516	8	100					
5-24	A	45	516	526	10	100					
5-24	A	46	526	536	10	100					
5-24	A	47	536	546	10	100					
5-24	A	48	546	556	10	100					
5-24	R	49	556	566	10	100					
5-24	B	50	566	576	10	100					
5-24	R	51	576	586	10	100					
5-24	B	52	586	596	10	100					
5-24	B	53	596	606	10	100					
5-24	B	54	606	616	10	100					
5-25	A	55	616	626	10	100					
5-25	A	56	626	636	10	100					
5-25	A	57	636	639	3	100					
5-25	A	58	639	648	9	100					
5-25	A	59	648	654	6	100					
5-31	B	60	654	659	5	100					
5-31	B	61	659	669	10	100					
5-31	B	62	669	679	10	100					
6-02	A	63	679	685	6	100					
6-02	B	64	685	695	10	100					
6-02	B	65	695	698	3	100					
6-02	B	66	698	705	7	100					
6-03	A	67	705	715	10	100					
6-03	A	68	715	718	3	100					
6-03	A	69	718	726	8	100					
6-03	A	70	726	736	10	100					
6-03	A	71	736	746	10	100					
6-03	A	72	746	756	10	100					
6-03	B	73	756	766	10	100					
6-06	A	74	766	776	10	100					
6-06	A	75	776	786	10	100					
6-06	A	76	786	796	10	100					
6-06	B	77	796	806	10	100					
6-06	B	78	806	816	10	100					
6-06	B	79	816	826	10	100					

TABLE I (Continued)

CORING RECORD

HOLE: DC-2CONTRACTOR: Continental Drilling Company

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	%	LONGST PIECE		FEET CORED	CORE REC'D	
6-06	B	80	826	836	10	100					
6-07	A	81	836	846	10	100					
6-07	A	82	846	856	10	100					
6-07	A	83	856	866	10	100					
6-07	B	84	866	876	10	100					
6-07	B	85	876	886	10	100					
6-07	B	86	886	896	10	100					
6-07	B	87	896	906	10	100					
6-07	B	88	906	916	10	100					
6-08	A	89	916	925	9	100					
6-13	A	90	925	935	10	100					
6-13	B	91	935	945	10	100					
6-13	B	92	945	955	10	100					
6-13	B	93	955	965	10	100					
6-13	B	94	965	975	10	100					
6-13	B	95	975	985	10	100					
6-14	A	96	985	995	10	100					
6-14	A	97	995	1005	10	100					
6-14	A	98	1005	1015	10	100					
6-14	A	99	1015	1025	10	100					
6-14	A	100	1025	1035	10	100					
6-14	A	101	1035	1045	10	100					
6-14	A	102	1045	1055	10	100					
6-14	B	103	1055	1065	10	100					
6-14	B	104	1065	1075	10	100					
6-14	B	105	1075	1085	10	100					
6-14	B	106	1085	1095	10	100					
6-14	B	107	1095	1105	10	100					
6-14	B	108	1105	1115	10	100					
6-15	A	109	1115	1125	10	100					
6-15	A	110	1125	1134	9	100					
6-15	B	111	1134	1144	10	100					
6-15	B	112	1144	1154	10	100					
6-15	B	113	1154	1164	10	100					
6-16	A	114	1164	1174	10	100					
6-16	A	115	1174	1184	10	100					
6-16	A	116	1184	1194	10	100					
6-16	A	117	1194	1204	10	100					
7-20	A	118	1204	1208	4	100					

TABLE I (Continued)

CORING RECORD

HOLE: DC-2CONTRACTOR: Continental Drilling Company

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	%	L'NG'ST PIECE		FEET CORED	CORE REC'D	
7-20	B	119	1208	1214	6	100					
7-20	B	120	1214	1224	10	100					
7-20	B	121	1224	1234	10	100					
7-20	B	121	1234	1244	10	100					
7-20	B	122	1244	1254	10	100					
7-20	B	123	1254	1264	10	100					
7-20	B	124	1264	1273	9	100					
7-21	A	125	1273	1283	10	100					
7-21	A	126	1283	1287	4	100					
7-21	A	127	1287	1297	10	100					
7-21	A	128	1297	1303	6	100					
7-21	A	129	1303	1313	10	100					
7-21	A	130	1313	1323	10	100					
7-21	A	131	1323	1333	10	100					
7-21	B	132	1333	1343	10	100					
7-21	B	133	1343	1353	10	100					
7-21	B	134	1353	1363	10	100					
7-21	B	135	1363	1373	10	100					
7-21	B	136	1373	1383	10	100					
7-22	A	137	1383	1393	10	100					
7-22	A	138	1393	1403	10	100					
7-22	A	139	1403	1413	10	100					
7-22	B	140	1413	1423	10	100					
7-22	B	141	1423	1433	10	100					
7-22	B	142	1433	1453	10	100					
7-22	A	143	1443	1453	10	100					
7-22	A	144	1453	1463	10	100					
7-22	A	144	1463	1473	10	100					
7-25	B	145	1473	1483	10	100					
7-25	B	146	1483	1493	10	100					
7-25	B	147	1493	1503	10	100					
7-25	B	148	1503	1513	10	100					
7-25	B	149	1513	1523	10	100					
7-25	B	150	1523	1533	10	100					
7-26	A	151	1533	1543	10	100					
7-26	A	152	1543	1553	10	100					
7-26	A	153	1553	1563	10	100					
7-26	A	154	1563	1573	10	100					
7-26	A	155	1573	1583	10	100					
7-26	A	156	1583	1593	10	100					
7-26	B	157	1593	1603	10	100					

TABLE I (Continued)

CORING RECORD

HOLE: DC-2CONTRACTOR: Continental Drilling Company

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	X	LONGST PIECE		FEET CORED	CORE REC'D	
7-26	B	158	1603	1613	10	100					
7-26	D	159	1613	1623	10	100					
7-26	B	160	1623	1633	10	100					
7-26	B	161	1633	1643	10	100					
7-26	B	162	1643	1653	10	100					
7-27	B	163	1653	1663	10	100					
7-27	A	164	1663	1673	10	100					
7-27	A	165	1673	1683	10	100					
7-27	B	166	1683	1693	10	100					
7-27	B	167	1693	1703	10	100					
7-27	B	168	1703	1713	10	100					
7-27	B	169	1713	1723	10	100					
7-27	B	170	1723	1734	11	100					
7-27	B	171	1733	1744	10	100					
7-27	B	172	1744	1754	10	100					
7-28	A	173	1754	1765	11	100					
7-27	A	174	1765	1776	11	100					
7-28	A	175	1776	1786	10	100					
7-28	A	176	1786	1796	10	100					
7-24	A	177	1796	1806	10	100					
7-24	A	178	1806	1816	10	100					
7-24	B	179	1816	1826	10	100					
7-24	B	180	1826	1836	10	100					
7-24	B	181	1836	1846	10	100					
7-24	B	182	1846	1855	9	100					
7-29	A	183	1855	1865	10	100					
7-29	A	184	1865	1875	10	100					
7-29	A	185	1875	1885	10	100					
7-29	A	186	1885	1895	10	100					
7-29	A	187	1895	1905	10	100					
7-20	B	188	1905	1915	10	100					
7-29	B	189	1915	1925	10	100					
7-29	B	190	1925	1935	10	100					
8-01	A	191	1935	1945	10	100					
8-01	A	192	1945	1955	10	100					
8-01	A	193	1955	1965	10	100					
8-01	A	194	1965	1969	4	100					
8-01	B	195	1969	1979	10	100					
8-01	B	196	1979	1989	10	100					
8-01	B	197	1989	1999	10	100					

TABLE I (Continued)

CURING RECORD

HOLE: DC-2

CONTRACTOR: Continental Drilling Company (Core No. 198-218)
Boyles Brothers Drilling Company (Core No. 219-240)

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	X	LONG'ST PIECE		FEET CORED	CORE REC'D	
8-01	B	198	1999	2009	10	100					
8-01	B	199	2009	2019	10	100					
8-01	B	200	2019	2029	10	100					
8-01	B	201	2029	2040	11	100					
8-02	A	202	2040	2050	10	100					
8-02	A	203	2050	2060	10	100					
8-02	A	204	2060	2070	10	100					
8-02	A	205	2070	2080	10	100					
8-02	A	206	2080	2090	10	100					
8-02	A	207	2090	2100	10	100					
8-02	B	208	2100	2111	11	100					
8-02	B	209	2111	2121	10	100					
8-02	B	210	2121	2129	8	100					
8-02	B	211	2129	2139	10	100					
8-02	B	212	2139	2149	10	100					
8-02	B	213	2149	2159	10	100					
8-02	B	214	2159	2169	10	100					
8-03	A	215	2169	2170	1	100					
8-03	A	216	2170	2180	10	100					
8-03	A	217	2180	2190	10	100					
8-03	A	218	2190	2200	10	100					
8-24	A	219	2200	2210	10	100					
8-24	A	220	2210	2220	10	100					
8-25	A	221	2220	2230	10	100					
8-25	A	222	2230	2240	10	100					
8-25	A	223	2240	2249	9	90					
8-26	A	224	2249	2259	10	100					
8-29	A	225	2250	2260	10	100					
9-09	A	225	2260	2262	2	20					
9-10	A	226	2262	2289	27	170					
9-12	A	227	2289	2299	10	100					
9-12	A	228	2299	2309	10	100					
9-12	A	229	2309	2319	10	100					
9-12	A	230	2319	2329	10	100					
9-13	A	231	2329	2339	10	100					
9-13	A	232	2339	2349	10	100					
9-13	A	233	2349	2359	10	100					
9-13	A	234	2359	2369	10	100					
9-13	A	239	2369	2379	10	100					
9-13	A	240	2379	2389	10	100					

TABLE I (Continued)

CORING RECORD

HOLE: DC-2CONTRACTOR: Boyles Brothers Drilling Company

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	%	L'NG'ST PIECE		FEET CORED	CORE REC'D	
9-14	A	241	2389	2399	10	100					
9-14	A	242	2399	2409	10	100					
9-14	A	243	2409	2419	10	100					
9-14	A	244	2419	2429	10	100					
9-14	A	245	2429	2439	10	100					
9-14	A	246	2439	2449	10	100					
9-14	A	247	2449	2459	10	100					
9-14	B	248	2459	2469	10	100					
9-14	B	249	2469	2479	10	100					
9-15	A	250	2479	2489	10	100					
9-15	A	251	2489	2499	10	100					
9-15	A	252	2499	2509	10	100					
9-15	A	253	2509	2519	10	100					
9-15	A	254	2519	2529	10	100					
9-15	B	255	2529	2532	3	15					
9-15	B	256	2532	2535	3	15					
9-16	A	257	2535	2545	10	50					
9-16	A	258	2545	2552	7	70					
9-16	B	259	2552	2562	10	100					
9-16	B	260	2562	2572	10	100					
9-16	B	261	2572	2582	10	100					
9-16	B	262	2582	2592	10	100					
9-17	A	263	2592	2600	8	80					
9-19	A	264	2600	2610	10	100					
9-19	A	265	2610	2620	10	100					
9-19	B	266	2620	2630	10	100					
9-19	B	267	2630	2640	10	100					
9-20	A	268	2640	2650	10	100					
9-20	A	269	2650	2660	10	100					
9-20	A	270	2660	2670	10	100					
9-20	A	271	2670	2680	10	100					
9-20	B	272	2680	2690	10	100					
9-20	B	273	2690	2700	10	100					
9-21	A	274	2700	2710	10	100					
9-21	A	275	2710	2720	10	100					
9-21	A	276	2720	2730	10	100					
9-21	A	277	2730	2740	10	100					
9-21	B	278	2740	2750	10	100					
9-21	B	279	2750	2760	10	100					
9-21	B	280	2760	2770	10	100					

TABLE I (Continued)

CORING RECORD

HOLE: DC-2CONTRACTOR: Boyles Brothers Drilling Company

DATE	SHIFT	CORE NO.	INTERVAL		CORE REC'D			CORE TIME MIN	CUMULATIVE		REMARKS
			FROM	TO	FT	X	LONGST PIECE		FEET COR'D	CORE REC'D	
9-21	B	281	2770	2780	10	100					
9-22	A	282	2780	2790	10	100					
9-22	A	283	2790	2800	10	100					
9-22	A	284	2800	2810	10	100					
9-22	A	285	2810	2820	10	100					
9-22	A	286	2820	2830	10	100					
9-22	B	287	2830	2840	10	100					
9-22	B	288	2840	2850	10	100					
9-23	A	289	2850	2852	2	10					
9-23	A	290	2857	2871	19	95					
9-23	A	291	2871	2889	19	95					
9-23	A	292	2889	2908	19	95					
9-23	B	293	2908	2922	14	70					
9-23	B	294	2922	2928	6	30					
9-24	A	295	2928	2932	4	20					
9-24	A	296	2932	2950	18	90					
9-24	B	297	2950	2969	19	95					
9-24	B	298	2969	2988	19	95					
9-25	A	299	2988	3007	19	95					
9-25	A	300	3007	3024	17	85					
9-25	A	301	3024	3034	10	50					
9-25	B	302	3034	3052	18	90					
9-25	B	303	3052	3062	10	50					
9-26	A	304	3062	3071	19	96					
9-26	A	305	3071	3089	18	90					
9-26	A	306	3089	3102	13	65					
9-26	B	307	3102	3107	5						
9-26	B	308	3107	3126	19	95					
9-27	A	309	3126	3145	19	95					
9-27	A	310	3145	3150	5						
9-27	A	311	3150	3158	8						
9-27	B	312	3158	3172	14	70					
9-27	B	313	3172	3175	3						
9-27	B	314	3175	3179	4						
9-28	A	315	3179	3192	13	65					
9-28	A	316	3192	3200	8						
9-28	A	317	3200	3210	10						
9-28	B	318	3210	3229	9	95					
9-28	B	319	3229	3230	1	05					
9-29	B	320	3230	3243	13	65					

CORING RECORD

CONTRACTOR: Boyles Brothers Drilling Company

[illegible]

TABLE II
CEMENTING DETAILS

	<u>7-19-77</u>	<u>9-1-77</u>
CASING SIZE (in.)	4-1/2	3-1/2
CASING DEPTH (ft.)	1,203	2,253
CEMENT UTILIZED	Type II	Type II
CEMENT VOLUME (cu.ft.)	15	30
DISPLACEMENT VOLUME (cu.ft.)		
SLURRY YIELD (cu.ft./sack)	1.50	1.50
SLURRY WEIGHT (lb./gal.)	15.20	15.20
ADMIXTURES	--	--
CEMENT METHOD	Displace- Hydrostatic Balance	Displace- Hydrostatic Balance
CEMENT STAGES	1	1
WAIT ON CEMENT TIME (hr.)	23	162

HOLE: DC-2
CONTRACTOR: Continental Drilling Company/Boyles Brothers Drilling Company

[illegible]

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