UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

OIL-SHALE FISCHER ASSAY DATA, TABLES OF AVERAGE OIL-YIELD VALUES, AND OIL-YIELD HISTOGRAMS OF U.S. GEOLOGICAL SURVEY COREHOLES CR-1 AND CR-2, PICEANCE CREEK BASIN, COLORADO

By JOHN R. DONNELL and JANET K. PITMAN

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1975

OIL-SHALE FISCHER ASSAY DATA, TABLES OF AVERAGE OIL-YIELD VALUES, AND OIL-YIELD HISTOGRAMS OF U.S. GEOLOGICAL SURVEY COREHOLES CR-1 AND CR-2, PICEANCE CREEK BASIN, COLORADO

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Two coreholes, CR-1 and CR-2, were drilled by the U.S. Geological Survey in 1975 to evaluate the oil-shale and associated mineral-resource potential of the eastern part of the Piceance Creek basin. The Laramie Energy Research Center assayed the core samples using the mofified Fischer assay method (Stanfield and Frost, 1949), and the U.S. Geological Survey prepared computer-drawn, oil-yield histograms (figs. 1, 2) and calculated

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Figures 1 and 2--NEAR HERE

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thickness and resource of shale sequences averaging 10, 15, 20, 25, 30, 35, and 40 gallons of oil per ton. Excluded from the 20, 25, 30, 35, and 40 gallon-per-ton averages are sequences of shale greater than 10 feet thick that average 15 gallons per ton or less. For the 10 and 15 gallon-per-ton averages, sequences of oil shale greater than 10 feet thick that average less than 5 gallons per ton and 10 gallons per ton, respectively, are excluded.

The variable headings on the computer listing of the Fischer assay data are as follows:

1. U.S.B.M. Fischer assay sample number
2. Starting depth (in feet)
3. Ending depth (in feet)
4. Oil yield (in weight percent)
5. Water yield (in weight percent)

6. Spent shale (in weight percent)

7. Gas + loss (in weight percent)

8. Oil yield (in gallons per ton)

9. Water yield (in gallons per ton)

10. Specific gravity (or oil at 60°/60°F)
11. Tendency to coke (1 = none, 2 = slight, 3 = medium, 4 = heavy)

The oil yield (gallons per ton) was estimated for intervals where core was not recovered and the remaining analyses are shown as 0.0B.

CONVERSION OF MEASUREMENT UNITS

English unit		Metric unit
To convert	Multiply by	To obtain
Feet	0.3048	Metres
Inches	2.54	Centimetres
Gallons per ton	4.172	Litres per metric ton
Barrels per acre	.3928	Kilolitres per hectare

REFERENCES

Stanfield, K. E., and Frost, I. C., 1949, Method of assaying oil shale by a modified Fischer retort: U.S. Bureau Mines Rept. Inv. 4477, p. 1-13.

LE/SALINE D: ANALYSIS = U S G S(07/01/75) DATE 10/ 3/75

USGS COREHOLE CR-1 13 96W 31

SO	SAMPLE ID	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1	75-15886	900.0	901.0	2.5	2.2	94.7	0.6	6.5	5.3	0.915	1.0
2	75-15887	901.0	902.4	2.8	2.1	94.3	0.8	7.4	5.0	0.000B	1.0
3	75-15888	902.4	903.7	4.3	2.3	92.1	1.3	11.3	5.5	0.915	1.0
4	75-15889	903.7	905.2	4.9	3.2	90.3	1.6	12.6	7.7	0.928	1.0
5	75-15890	905.2	906.6	4.2	2.9	91.4	1.5	10.9	7.0	0.933	1.0
6	75-15891	906.6	908.5	4.0	2.6	92.4	1.0	10.3	6.2	0.928	1.0
7	75-	908.5	911.0	0.0B	0.0B	0.0B	0.0B	16.1	0.0B	0.000B	0.0B
8	75-15892	911.0	912.0	8.5	1.6	87.0	2.9	22.0	3.8	0.923	1.0
9	75-15893	912.0	913.0	10.6	1.9	84.9	2.6	27.6	4.6	0.921	1.0
10	75-15894	913.0	914.2	4.7	2.2	91.8	1.3	12.4	5.3	0.914	1.0
11	75-15895	914.2	915.6	4.2	2.5	92.3	1.0	11.1	6.0	0.919	1.0
12	75-15896	915.6	916.6	11.1	1.5	84.8	2.6	28.9	3.6	0.921	1.0
13	75-15897	916.6	918.3	4.2	2.0	91.4	2.4	11.0	4.8	0.921	1.0
14	75-15898	918.3	920.0	3.6	2.0	92.8	1.6	9.3	4.8	0.919	1.0
15	75-15899	920.0	922.0	3.1	2.2	93.3	1.4	8.2	5.3	0.918	1.0
16	75-15900	922.0	923.5	3.4	2.5	93.2	0.9	9.0	6.0	0.922	1.0
17	75-15901	923.5	924.6	4.3	3.1	91.7	0.9	11.3	7.4	0.921	1.0
18	75-15902	924.6	925.6	4.2	2.4	91.5	1.9	10.7	5.8	0.934	1.0
19	75-15903	925.6	926.6	2.9	2.5	93.1	1.5	7.4	6.0	0.935	1.0
20	75-15904	926.6	927.6	2.7	2.6	93.4	1.2	7.0	6.2	0.940	1.0
21	75-15905	927.6	928.7	3.9	2.2	92.7	1.2	10.0	5.3	0.932	1.0
22	75-15906	928.7	929.8	6.4	2.0	89.4	2.2	16.6	4.8	0.925	1.0
23	75-15907	929.8	930.8	12.0	2.2	88.2	3.6	31.1	5.3	0.924	1.0
24	75-15908	930.8	931.7	5.2	1.7	91.8	1.3	13.2	4.1	0.935	1.0
25	75-15909	931.7	932.6	4.1	1.5	92.7	1.7	10.4	3.6	0.942	1.0
26	75-15910	932.6	933.6	2.8	2.2	94.1	0.9	7.1	5.3	0.948	1.0
27	75-15911	933.6	935.0	3.5	2.0	93.4	1.1	8.8	4.8	0.951	1.0
28	75-15912	935.0	936.3	3.2	2.2	93.4	1.2	7.9	5.3	0.953	1.0
29	75-15913	936.3	937.5	2.8	2.2	94.0	1.0	7.0	5.3	0.950	1.0
30	75-15914	937.5	938.7	2.7	2.1	94.1	1.1	6.9	5.0	0.944	1.0
31	75-	938.7	940.0	0.0B	0.0B	0.0B	0.0B	6.4	0.0B	0.000B	0.0B
32	75-15915	940.0	941.3	2.3	1.1	95.2	1.4	6.0	2.6	0.941	1.0
33	75-15916	941.3	942.3	7.4	1.7	88.8	2.1	19.1	4.1	0.930	1.0
34	75-15917	942.3	943.4	7.0	1.8	88.6	2.6	18.0	4.3	0.930	1.0
35	75-15918	943.4	944.4	3.5	0.7	94.8	1.0	9.1	1.7	0.930	1.0
36	75-15919	944.4	945.4	3.4	0.7	95.0	0.9	8.8	1.7	0.932	1.0
37	75-15920	945.4	946.5	2.2	0.7	96.6	0.5	5.7	1.7	0.932	1.0
38	75-15921	946.5	947.5	2.9	0.6	95.6	0.9	7.5	1.4	0.924	1.0
39	75-15922	947.5	948.5	14.1	1.2	81.5	3.2	36.6	2.9	0.924	1.0
40	75-15923	948.5	949.5	12.7	1.5	82.8	3.0	33.0	3.6	0.915	1.0
41	75-15924	949.5	950.6	5.6	1.6	91.2	1.6	14.5	3.8	0.927	1.0
42	75-15925	950.6	951.6	8.5	1.8	87.0	2.7	22.2	4.3	0.918	1.0
43	75-15926	951.6	952.6	5.1	2.2	91.0	1.7	13.1	5.3	0.929	1.0
44	75-15927	952.6	953.6	6.0	1.9	90.5	1.6	15.5	4.7	0.928	1.0
45	75-15928	953.6	954.7	4.4	1.4	92.8	1.4	11.4	3.4	0.936	1.0
46	75-15929	954.7	955.7	9.1	1.8	86.6	2.5	23.7	4.3	0.922	1.0
47	75-15930	955.7	957.0	11.8	2.0	83.3	2.9	30.5	4.8	0.924	1.0
48	75-15931	957.0	958.5	4.4	1.6	92.9	1.1	11.4	3.8	0.923	1.0
49	75-	958.5	971.0	0.0B	0.0B	0.0B	0.0B	6.7	0.0B	0.000B	0.0B
50	75-15932	971.0	972.1	0.8	0.4	98.3	0.5	2.0	1.0	0.000B	1.0

USGS COREHOLE CH-1 1S 96W 31

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
51	75-15933	972.1	973.1	5.5	1.1	92.3	1.1	13.8	2.6	0.950	1.0
52	75-15934	973.1	974.1	4.3	1.3	93.3	1.1	10.8	3.1	0.947	1.0
53	75-15935	974.1	975.1	3.8	1.7	93.4	1.1	9.6	4.1	0.947	1.0
54	75-15936	975.1	976.2	3.2	2.0	93.3	1.5	8.0	4.8	0.954	1.0
55	75-15937	976.2	977.3	3.5	2.3	93.2	1.0	8.8	5.5	0.956	1.0
56	75-15938	977.3	978.3	3.5	2.2	93.2	1.1	8.8	5.3	0.946	1.0
57	75-15939	978.3	979.3	2.8	1.8	94.6	0.8	7.1	4.3	0.946	1.0
58	75-15940	979.3	980.3	2.6	1.4	95.2	0.8	6.7	3.4	0.943	1.0
59	75-15941	980.3	981.3	2.2	1.4	94.6	1.8	5.6	3.4	0.947	1.0
60	75-15942	981.3	982.3	4.1	1.6	93.1	1.2	10.4	3.8	0.941	1.0
61	75-15943	982.3	983.3	4.5	1.7	91.8	2.0	12.0	4.1	0.906	1.0
62	75-15944	983.3	985.7	1.6	1.2	96.4	0.8	4.1	2.9	0.0008	1.0
63	75-	985.7	990.0	0.08	0.08	0.08	0.08	9.7	0.08	0.0008	0.08
64	75-15945	990.0	991.0	6.0	1.9	90.5	1.6	15.4	4.6	0.936	1.0
65	75-15946	991.0	992.0	5.3	1.4	90.9	2.4	13.4	3.4	0.938	1.0
66	75-15947	992.0	993.0	3.3	1.1	94.7	0.9	8.6	2.6	0.936	1.0
67	75-15948	993.0	994.0	1.4	1.6	97.3	0.7	3.8	1.4	0.0008	1.0
68	75-	994.0	994.2	0.08	0.08	0.08	0.08	6.9	0.08	0.0008	0.08
69	75-15949	994.2	995.4	4.3	1.7	92.9	1.1	11.0	4.1	0.942	1.0
70	75-15950	995.4	996.6	4.5	1.5	92.9	1.1	11.5	3.6	0.932	1.0
71	75-15951	996.6	998.0	3.9	1.6	93.2	1.3	10.0	3.8	0.932	1.0
72	75-15952	998.0	999.0	4.3	2.1	92.6	1.0	10.9	5.0	0.935	1.0
73	75-15953	999.0	1000.0	4.0	1.4	93.7	0.9	10.2	3.4	0.935	1.0
74	75-15954	1000.0	1001.0	3.4	1.1	94.8	0.7	8.7	2.6	0.937	1.0
75	75-15955	1001.0	1002.0	3.9	1.7	92.7	1.7	9.9	4.1	0.940	1.0
76	75-15956	1002.0	1003.0	4.7	2.3	91.9	1.1	12.1	5.5	0.939	1.0
77	75-15957	1003.0	1004.0	5.3	2.2	91.0	1.5	13.5	5.3	0.938	1.0
78	75-15958	1004.0	1005.0	4.9	1.5	92.5	1.1	12.7	3.6	0.926	1.0
79	75-15959	1005.0	1006.0	5.1	1.0	90.7	1.2	13.2	2.4	0.918	1.0
80	75-15960	1006.0	1007.0	14.2	1.9	80.3	3.6	36.2	4.6	0.938	1.0
81	75-15961	1007.0	1008.0	8.0	1.0	89.1	1.9	22.1	2.4	0.869	1.0
82	75-15962	1008.0	1009.0	6.6	1.0	90.8	1.6	17.3	2.4	0.914	1.0
83	75-15963	1009.0	1010.2	8.9	1.2	87.7	2.2	23.3	2.9	0.920	1.0
84	75-15964	1010.2	1011.2	6.5	0.9	91.2	1.4	17.1	2.2	0.917	1.0
85	75-15965	1011.2	1012.2	11.0	1.4	85.0	2.6	28.6	3.4	0.918	1.0
86	75-15966	1012.2	1013.5	5.5	1.0	91.9	1.6	14.4	2.4	0.916	1.0
87	75-	1013.5	1017.5	0.08	0.08	0.08	0.08	18.0	0.08	0.0008	0.08
88	75-15967	1017.5	1018.5	8.3	1.2	88.6	1.9	21.6	2.9	0.919	1.0
89	75-15968	1018.5	1020.2	5.9	0.7	92.0	1.4	15.4	1.7	0.917	1.0
90	75-15969	1020.2	1021.6	4.3	0.6	93.8	1.3	11.3	1.4	0.912	1.0
91	75-15970	1021.6	1023.0	3.7	0.6	94.8	0.9	9.8	1.4	0.910	1.0
92	75-15971	1023.0	1024.5	4.1	0.7	93.7	1.5	10.7	1.7	0.914	1.0
93	75-15972	1024.5	1025.6	4.7	1.1	92.8	1.4	12.1	2.6	0.930	1.0
94	75-15973	1025.6	1026.7	5.1	1.2	92.2	1.5	13.1	2.9	0.925	1.0
95	75-15974	1026.7	1027.8	5.5	0.9	92.4	1.2	14.3	2.2	0.920	1.0
96	75-15975	1027.8	1029.1	1.8	0.3	97.2	0.6	4.8	0.7	0.0008	1.0
97	75-15976	1029.1	1030.3	3.6	0.3	95.5	0.6	9.6	0.7	0.911	1.0
98	75-15977	1030.3	1031.2	12.0	1.7	83.5	2.8	31.1	4.1	0.949	1.0
99	75-15978	1031.2	1032.6	6.2	1.2	91.5	1.1	15.9	2.9	0.925	1.0
100	75-	1032.6	1035.9	0.08	0.08	0.08	0.08	17.9	0.08	0.0008	0.08

LE/SAL. DA` ANALYSIS - U S G S(07/01/75) DAI 10/ 3/79

USGS COREHOLE CH-1 18 96W 31

SO	SAMPLE ID	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCUKE
1	75-15979	1035.9	1037.0	7.8	1.9	88.5	1.8	20.0	4.6	0.934	1.0
2	75-15980	1037.0	1038.2	5.1	1.9	91.6	1.4	13.1	4.6	0.935	1.0
3	75-15981	1038.2	1039.2	4.5	1.9	92.2	1.4	11.6	4.4	0.935	1.0
4	75-15982	1039.2	1040.3	2.6	1.8	94.6	1.0	6.7	4.3	0.934	1.0
5	75-15983	1040.3	1041.4	4.2	1.6	93.1	1.1	10.8	3.8	0.931	1.0
6	75-15984	1041.4	1042.5	4.0	1.3	93.1	1.6	10.3	3.1	0.935	1.0
7	75-15985	1042.5	1043.6	4.4	2.0	92.5	1.1	11.3	4.8	0.938	1.0
8	75-15986	1043.6	1044.6	6.1	2.2	90.1	1.6	15.7	5.3	0.936	1.0
9	75-15987	1044.6	1046.0	6.5	1.9	90.0	1.6	16.8	4.7	0.928	1.0
0	75-15988	1045.0	1047.0	5.8	1.8	90.7	1.7	14.9	4.3	0.937	1.0
1	75-15989	1047.0	1048.0	5.5	1.5	91.1	1.9	14.1	3.6	0.944	1.0
2	75-15990	1048.0	1049.0	4.6	0.9	93.2	1.3	11.8	2.0	0.941	1.0
3	75-15991	1049.0	1050.1	3.9	0.8	94.1	1.2	10.0	1.9	0.934	1.0
4	75-15992	1050.1	1051.8	5.4	1.1	92.0	1.5	14.2	2.6	0.915	1.0
5	75-15993	1051.8	1052.8	4.3	1.8	92.8	1.1	11.0	4.3	0.941	1.0
6	75-15994	1052.8	1053.9	4.1	1.6	92.8	1.5	10.5	3.8	0.942	1.0
7	75-15995	1053.9	1054.9	4.0	1.3	93.8	0.9	10.2	3.1	0.935	1.0
8	75-	1054.9	1058.9	0.0B	0.0B	0.0B	0.0B	10.9	0.0B	0.000B	0.0B
9	75-15996	1058.9	1059.9	4.6	1.8	92.5	1.1	11.6	4.3	0.944	1.0
0	75-15997	1059.9	1060.9	5.2	2.1	91.5	1.1	13.4	5.0	0.943	1.0
1	75-15998	1060.9	1061.9	6.0	2.0	90.1	1.9	15.3	4.8	0.941	1.0
2	75-15999	1061.9	1063.0	6.2	1.7	88.0	2.1	21.0	4.1	0.935	1.0
3	75-16000	1063.0	1064.0	6.5	1.7	89.8	2.0	16.8	4.1	0.933	1.0
4	75-16001	1064.0	1065.0	8.1	1.7	88.0	2.2	20.8	4.1	0.934	1.0
5	75-16002	1065.0	1066.0	6.3	1.4	90.5	1.8	16.0	3.4	0.938	1.0
6	75-16003	1066.0	1067.0	4.7	1.1	92.5	1.7	12.0	2.6	0.933	1.0
7	75-16004	1067.0	1068.0	5.3	1.6	91.7	1.4	13.4	3.8	0.940	1.0
8	75-16005	1068.0	1069.0	4.7	1.2	92.1	2.0	12.0	2.9	0.936	1.0
9	75-16006	1069.0	1070.0	4.8	1.1	92.8	1.3	12.1	2.6	0.945	1.0
0	75-16007	1070.0	1072.0	4.6	1.0	92.8	1.6	11.8	2.4	0.939	1.0
1	75-16008	1072.0	1073.0	4.2	0.7	93.9	1.2	10.8	1.7	0.928	1.0
2	75-16009	1073.0	1073.6	6.2	1.5	90.6	1.7	15.8	3.6	0.940	1.0
3	75-	1073.6	1076.0	0.0B	0.0B	0.0B	0.0B	13.6	0.0B	0.000B	0.0B
4	75-16010	1076.0	1077.3	4.5	1.2	93.6	0.7	11.5	2.9	0.934	1.0
5	75-16011	1077.3	1078.7	4.8	1.3	92.3	1.6	12.2	3.1	0.942	1.0
6	75-16012	1078.7	1079.9	4.9	1.4	92.7	1.0	12.6	3.4	0.940	1.0
7	75-16013	1079.9	1081.1	4.3	1.3	93.4	1.0	11.1	3.1	0.941	1.0
8	75-16014	1081.1	1082.1	5.0	1.5	92.5	1.0	12.8	3.6	0.942	1.0
9	75-16015	1082.1	1083.1	4.7	1.7	92.6	1.0	11.9	4.1	0.944	1.0
0	75-16016	1083.1	1084.6	4.1	1.7	93.2	1.0	10.4	4.1	0.936	1.0
1	75-16017	1084.6	1086.0	4.6	1.4	92.7	1.3	11.8	3.4	0.934	1.0
2	75-16018	1086.0	1087.3	4.5	1.2	93.0	1.3	11.4	2.9	0.944	1.0
3	75-16019	1087.3	1089.0	4.8	1.0	92.9	1.3	12.3	2.4	0.941	1.0
4	75-16020	1089.0	1091.0	7.8	1.2	89.3	1.7	20.2	2.9	0.930	1.0
5	75-16021	1091.0	1092.0	5.4	1.1	91.4	2.1	13.9	2.6	0.930	1.0
6	75-16022	1092.0	1093.1	3.3	1.9	93.7	1.1	8.5	4.6	0.934	1.0
7	75-	1093.1	1096.0	0.0B	0.0B	0.0B	0.0B	16.1	0.0B	0.000B	0.0B
8	75-16023	1096.0	1097.8	9.2	1.3	87.5	2.0	23.7	3.2	0.926	1.0
9	75-	1097.8	1098.4	0.0B	0.0B	0.0B	0.0B	11.8	0.0B	0.000B	0.0B
0	75-16024	1098.4	1100.1	7.7	1.2	89.2	1.9	19.9	3.0	0.927	1.0

USGS COREHOLE CR-1 1S 96W 31

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
151	75-16025	1100.1	1101.3	6.0	1.6	90.7	1.5	15.3	4.3	0.939	1.0
152	75-16026	1101.3	1102.3	3.9	1.6	93.3	1.2	10.1	3.8	0.937	1.0
153	75-16027	1102.3	1103.3	4.5	1.4	93.0	1.1	11.5	3.4	0.940	1.0
154	75-16028	1103.3	1104.3	4.7	1.8	92.0	1.5	12.0	4.3	0.935	1.0
155	75-16029	1104.3	1107.0	2.4	0.5	96.2	0.9	6.3	1.2	0.924	1.0
156	75-16030	1107.0	1109.0	4.4	0.8	93.6	1.2	11.4	1.9	0.924	1.0
157	75-16031	1109.0	1110.7	8.6	1.3	88.0	2.1	22.4	3.1	0.923	1.0
158	75-16032	1110.7	1111.7	5.4	1.1	90.9	2.6	13.9	2.5	0.936	1.0
159	75-16033	1111.7	1112.7	5.4	1.2	91.6	1.8	13.9	2.9	0.933	1.0
160	75-16034	1112.7	1113.7	5.0	1.3	92.1	1.6	12.9	3.1	0.932	1.0
161	75-16035	1113.7	1114.6	4.9	1.3	92.7	1.1	12.5	3.1	0.932	1.0
162	75-16036	1114.6	1115.5	4.4	0.9	93.0	1.7	11.4	2.2	0.932	1.0
163	75-16037	1115.5	1116.6	3.1	0.5	95.3	1.1	8.1	1.2	0.930	1.0
164	75-16038	1116.6	1118.0	4.0	0.6	94.6	0.8	10.3	1.4	0.927	1.0
165	75-16039	1118.0	1119.9	4.4	0.8	93.5	1.3	11.3	1.9	0.925	1.0
166	75-	1119.9	1120.0	0.0B	0.0B	0.0B	0.0B	14.1	0.0B	0.000B	0.0B
167	75-16040	1120.0	1129.3	6.4	0.7	91.6	1.3	16.9	1.7	0.912	1.0
168	75-16041	1129.3	1130.5	5.6	0.7	92.6	1.1	14.6	1.7	0.914	1.0
169	75-16042	1130.5	1131.7	5.5	1.5	90.6	2.4	14.3	3.6	0.926	1.0
170	75-16043	1131.7	1133.0	5.3	1.9	91.3	1.5	13.5	4.6	0.934	1.0
171	75-16044	1133.0	1134.3	6.6	1.9	89.6	1.9	16.8	4.6	0.938	1.0
172	75-16045	1134.3	1135.3	4.7	1.1	92.7	1.5	12.0	2.6	0.936	1.0
173	75-16046	1135.3	1137.1	5.1	1.4	92.1	1.4	13.1	3.4	0.940	1.0
174	75-16047	1137.1	1138.2	8.1	1.7	88.0	2.2	20.9	4.1	0.932	1.0
175	75-16048	1138.2	1139.2	8.4	1.6	87.5	2.5	21.6	3.8	0.932	1.0
176	75-16049	1139.2	1140.3	8.1	1.7	88.0	2.2	21.0	4.1	0.931	1.0
177	75-16050	1140.3	1141.4	8.2	1.5	88.1	2.2	21.2	3.6	0.933	1.0
178	75-16051	1141.4	1142.8	6.8	1.1	89.8	2.3	17.5	2.6	0.934	1.0
179	75-16052	1142.8	1144.3	7.5	1.5	88.8	2.2	19.5	3.6	0.929	1.0
180	75-16053	1144.3	1145.4	7.7	1.3	88.5	2.5	19.8	3.1	0.930	1.0
181	75-16054	1145.4	1146.4	8.1	1.5	88.5	1.9	20.9	3.6	0.927	1.0
182	75-16055	1146.4	1147.6	9.9	1.4	86.2	2.5	25.8	3.4	0.923	1.0
183	75-16056	1147.6	1148.9	13.7	1.4	81.4	3.5	35.5	3.4	0.927	1.0
184	75-16057	1148.9	1149.9	9.4	1.5	86.6	2.5	24.3	3.6	0.926	1.0
185	75-16058	1149.9	1151.0	8.9	1.5	87.3	2.3	22.9	3.6	0.926	1.0
186	75-16059	1151.0	1152.0	10.1	1.3	85.7	2.9	26.2	3.1	0.924	1.0
187	75-16060	1152.0	1153.0	7.1	1.6	89.4	1.9	18.3	3.8	0.930	1.0
188	75-16061	1153.0	1154.0	5.3	1.4	91.9	1.4	13.5	3.4	0.933	1.0
189	75-16062	1154.0	1155.0	4.7	1.4	92.6	1.3	12.0	3.4	0.936	1.0
190	75-16063	1155.0	1156.0	5.1	1.5	91.9	1.5	13.1	3.6	0.937	1.0
191	75-16064	1156.0	1157.4	5.3	1.4	91.8	1.5	13.6	3.4	0.935	1.0
192	75-	1157.4	1167.0	0.0B	0.0B	0.0B	0.0B	14.6	0.0B	0.000B	0.0B
193	75-16065	1167.0	1168.3	6.1	1.4	91.0	1.5	15.6	3.4	0.933	1.0
194	75-16066	1168.3	1169.3	4.5	1.5	92.7	1.3	11.7	3.6	0.933	1.0
195	75-16067	1169.3	1170.5	3.3	2.0	93.6	1.1	8.5	4.8	0.931	1.0
196	75-16068	1170.5	1171.8	4.0	1.6	93.2	1.2	10.2	3.8	0.934	1.0
197	75-16069	1171.8	1173.1	3.7	0.9	93.9	1.5	9.6	2.2	0.934	1.0
198	75-16070	1173.1	1174.4	2.4	0.8	95.8	1.0	6.3	1.9	0.931	1.0
199	75-16071	1174.4	1175.4	4.9	1.3	92.3	1.5	12.7	3.1	0.930	1.0
200	75-16072	1175.4	1176.9	6.8	1.6	89.6	2.0	17.7	3.8	0.927	1.0

LE/SALI DA ANALYSIS - U S G S(07/01/75) ...A. 10/ 3/75

USGS COREHOLE CR-1 1S 96W 31

SO	SAMPLE ID	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1	75-16073	1176.9	1178.0	6.0	1.2	91.0	1.8	15.7	2.9	0.922	1.0
2	75-16074	1178.0	1179.0	9.2	1.4	87.0	2.4	24.0	3.4	0.924	1.0
3	75-16075	1179.0	1180.0	7.3	1.4	89.4	1.9	18.8	3.4	0.926	1.0
4	75-16076	1180.0	1181.0	6.5	1.6	90.0	1.9	16.7	3.8	0.930	1.0
5	75-16077	1181.0	1182.0	4.6	1.7	92.1	1.6	11.9	4.1	0.934	1.0
6	75-16078	1182.0	1183.0	4.3	1.6	92.8	1.3	11.1	3.8	0.937	1.0
7	75-16079	1183.0	1184.0	4.4	1.7	92.4	1.5	11.5	4.1	0.931	1.0
8	75-16080	1184.0	1185.0	4.7	1.5	91.3	2.5	12.1	3.6	0.934	1.0
9	75-16081	1185.0	1186.3	4.9	1.6	91.8	1.7	12.7	3.8	0.926	1.0
0	75-16082	1186.3	1187.7	5.5	1.8	91.3	1.4	14.2	4.3	0.934	1.0
1	75-16083	1187.7	1189.1	10.1	1.4	86.5	2.0	26.0	3.4	0.928	1.0
2	75-16084	1189.1	1190.3	6.4	1.6	90.5	1.5	16.5	3.8	0.930	1.0
3	75-16085	1190.3	1191.5	9.2	1.7	86.0	3.1	23.7	4.1	0.935	1.0
4	75-16086	1191.5	1193.0	6.1	1.9	90.3	1.7	15.6	4.6	0.937	1.0
5	75-16087	1193.0	1194.0	4.9	1.8	92.0	1.3	12.6	4.3	0.934	1.0
6	75-16088	1194.0	1195.0	7.7	1.5	88.3	2.5	19.8	3.6	0.928	1.0
7	75-16089	1195.0	1196.0	7.4	1.6	88.5	2.5	19.1	4.0	0.928	1.0
8	75-16090	1196.0	1197.3	5.9	1.3	90.2	2.6	15.1	3.1	0.931	1.0
9	75-16091	1197.3	1198.6	6.0	0.9	91.2	1.9	15.5	2.2	0.924	1.0
0	75-16092	1198.6	1199.7	3.9	1.2	93.3	1.6	10.0	2.9	0.926	1.0
1	75-16093	1199.7	1200.7	7.0	1.0	90.0	2.0	18.3	2.4	0.925	1.0
2	75-16094	1200.7	1201.6	4.7	0.6	93.5	1.2	12.2	1.4	0.923	1.0
3	75-	1201.6	1203.0	0.0B	0.0B	0.0B	0.0B	11.5	0.0B	0.000B	0.0B
4	75-16095	1203.0	1204.0	4.2	0.7	94.0	1.1	10.9	1.7	0.922	1.0
5	75-16096	1204.0	1205.0	4.5	0.5	93.8	1.2	11.8	1.2	0.919	1.0
6	75-16097	1205.0	1206.2	6.9	0.8	90.8	1.5	18.0	1.8	0.919	1.0
7	75-16098	1206.2	1207.4	12.6	1.1	83.4	2.9	33.0	2.6	0.914	1.0
8	75-16099	1207.4	1208.4	14.4	1.1	80.7	3.6	37.2	2.6	0.927	1.0
9	75-16100	1208.4	1209.7	8.7	1.2	87.7	2.4	22.5	2.9	0.923	1.0
0	75-16101	1209.7	1211.0	5.9	1.3	90.2	2.6	15.3	3.1	0.927	1.0
1	75-16102	1211.0	1212.3	9.0	1.1	87.3	2.6	23.3	2.6	0.922	1.0
2	75-16103	1212.3	1213.3	6.7	0.7	90.4	2.2	17.4	1.8	0.920	1.0
3	75-16104	1213.3	1214.4	13.6	1.3	78.9	6.2	35.6	3.1	0.919	1.0
4	75-16105	1214.4	1215.5	5.2	1.6	91.3	1.9	13.3	3.8	0.928	1.0
5	75-16106	1215.5	1217.0	4.4	1.1	93.2	1.3	11.3	2.6	0.926	1.0
6	75-16107	1217.0	1218.4	2.7	0.9	95.4	1.0	7.0	2.2	0.919	1.0
7	75-16108	1218.4	1219.4	13.0	1.0	83.0	3.0	34.2	2.4	0.911	1.0
8	75-16109	1219.4	1220.4	16.7	1.0	78.5	3.8	43.7	2.5	0.915	1.0
9	75-16110	1220.4	1221.6	11.0	1.0	85.2	2.8	29.0	2.4	0.915	1.0
0	75-16111	1221.6	1222.6	8.4	0.5	89.1	2.0	22.0	1.2	0.913	1.0
1		1222.6	1233.6	0.0B	0.0B	0.0B	0.0B	5.0	0.0B	0.000B	0.0B
2	75-16113	1233.6	1234.6	5.7	0.5	92.0	1.8	15.0	1.2	0.910	1.0
3	75-16114	1234.6	1235.9	7.5	0.5	89.7	2.3	19.6	1.2	0.914	1.0
4	75-16115	1235.9	1236.9	12.0	1.6	82.0	4.4	31.2	3.8	0.925	1.0
5	75-16116	1236.9	1237.9	12.1	1.0	83.3	3.6	31.4	2.4	0.922	1.0
6	75-16117	1237.9	1238.9	8.7	0.7	88.3	2.3	22.9	1.7	0.916	1.0
7	75-16118	1238.9	1239.9	8.6	0.9	88.5	2.0	22.5	2.2	0.915	1.0
8	75-16119	1239.9	1240.9	9.8	1.1	86.5	2.6	25.9	2.6	0.910	1.0
9	75-16120	1240.9	1241.9	13.4	1.1	82.3	3.2	35.4	2.6	0.907	1.0
0	75-16121	1241.9	1242.9	18.6	1.9	74.5	5.0	48.8	4.6	0.914	1.0

SHALE/SALINE DA ANALYSIS - U S G S(07/01/75)

USGS COREHOLE CH-1 18 96W 31

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
251	75-16122	1242.9	1243.9	18.4	1.4	75.0	5.2	49.0	3.4	0.902	4.0
252	75-16123	1243.9	1244.9	15.7	0.9	80.4	3.0	41.9	2.2	0.896	4.0
253	75-16124	1244.9	1246.0	13.5	0.7	83.3	2.5	36.2	1.6	0.894	1.0
254	75-16125	1246.0	1247.1	10.3	0.7	86.7	2.3	27.5	1.7	0.901	1.0
255	75-16126	1247.1	1248.3	8.8	0.6	88.4	2.2	23.2	1.4	0.912	1.0
256	75-16127	1248.3	1249.3	5.3	0.6	91.9	2.2	13.7	1.4	0.920	1.0
257	75-16128	1249.3	1250.4	5.9	0.6	91.8	1.7	15.3	1.4	0.923	1.0
258	75-16129	1250.4	1251.8	9.9	0.9	86.9	2.3	26.1	2.2	0.912	1.0
259	75-	1251.8	1262.0	0.0B	0.0B	0.0B	0.0B	30.0	0.0B	0.000B	0.0B
260	75-16130	1262.0	1263.2	5.6	0.5	92.8	1.1	14.5	1.2	0.920	1.0
261	75-16131	1263.2	1264.2	6.0	0.6	92.1	1.3	15.6	1.4	0.920	1.0
262	75-16132	1264.2	1265.2	4.7	0.7	92.8	1.8	12.2	1.7	0.924	1.0
263	75-16133	1265.2	1266.2	5.0	1.1	92.6	1.3	13.0	2.6	0.919	1.0
264	75-16134	1266.2	1267.2	4.1	1.0	93.7	1.2	10.7	2.5	0.919	1.0
265	75-16135	1267.2	1268.3	3.8	0.7	94.4	1.1	10.0	1.7	0.915	1.0
266	75-16136	1268.3	1269.3	4.9	0.5	93.3	1.3	12.9	1.2	0.911	1.0
267	75-16137	1269.3	1270.3	17.1	1.1	77.5	4.3	44.3	2.6	0.923	1.0
268	75-16138	1270.3	1271.4	11.9	0.7	84.5	2.9	31.1	1.7	0.915	1.0
269	75-16139	1271.4	1272.5	8.0	0.5	89.6	1.9	21.1	1.2	0.907	1.0
270	75-16140	1272.5	1273.6	9.0	0.4	88.6	2.0	23.8	1.0	0.907	1.0
271	75-16141	1273.6	1274.7	5.5	0.2	92.6	1.7	14.4	0.5	0.908	1.0
272	75-16142	1274.7	1275.9	9.3	0.8	87.8	2.1	24.2	1.9	0.918	1.0
273	75-16143	1275.9	1277.2	9.9	0.6	86.9	2.6	25.9	1.4	0.914	1.0
274	75-16144	1277.2	1278.5	10.0	1.1	86.5	2.4	26.2	2.6	0.916	1.0
275	75-16145	1278.5	1279.7	11.0	1.5	84.9	2.6	26.5	3.6	0.924	1.0
276	75-16146	1279.7	1280.8	10.5	0.7	86.5	2.3	27.6	1.7	0.911	1.0
277	75-16147	1280.8	1282.0	21.3	0.9	73.0	4.8	56.5	2.0	0.906	1.0
278	75-16148	1282.0	1283.0	14.1	0.8	81.1	4.0	37.3	1.9	0.904	2.0
279	75-16149	1283.0	1284.0	21.8	1.0	71.6	5.6	57.5	2.4	0.907	2.0
280	75-16150	1284.0	1284.9	25.5	1.2	67.3	6.0	67.5	2.9	0.907	3.0
281	75-	1284.9	1286.0	0.0B	0.0B	0.0B	0.0B	71.6	0.0B	0.000B	0.0B
282	75-16151	1286.0	1287.0	28.7	1.3	63.6	6.4	75.8	3.1	0.908	4.0
283	75-16152	1287.0	1288.0	23.3	1.0	70.0	5.7	61.6	2.4	0.905	3.0
284	75-16153	1288.0	1289.0	21.7	1.0	71.8	5.5	57.5	2.4	0.907	4.0
285	75-16154	1289.0	1290.0	17.4	0.8	78.2	3.6	45.5	1.9	0.916	1.0
286	75-16155	1290.0	1291.0	11.4	0.7	85.3	2.6	29.7	1.7	0.917	1.0
287	75-16156	1291.0	1292.0	10.5	0.7	86.4	2.4	27.4	1.7	0.921	1.0
288	75-16157	1292.0	1293.0	11.2	0.8	85.5	2.5	29.1	1.9	0.921	1.0
289	75-16158	1293.0	1294.0	16.6	0.7	79.1	3.6	42.9	1.7	0.929	1.0
290	75-16159	1294.0	1295.0	19.6	0.8	75.2	4.4	51.2	1.9	0.921	2.0
291	75-16160	1295.0	1296.0	14.4	0.9	81.5	3.2	37.4	2.2	0.924	1.0
292	75-16161	1296.0	1297.3	9.1	0.7	87.2	3.0	23.5	1.7	0.927	1.0
293	75-16162	1297.3	1298.5	9.7	0.8	87.2	2.3	25.4	1.9	0.917	1.0
294	75-16163	1298.5	1299.5	8.6	0.7	89.0	1.7	22.5	1.7	0.913	1.0
295	75-16164	1299.5	1300.5	9.2	0.9	87.7	2.2	24.0	2.2	0.916	1.0
296	75-	1300.5	1300.8	0.0B	0.0B	0.0B	0.0B	27.7	0.0B	0.000B	0.0B
297	75-16165	1300.8	1301.8	12.0	0.8	84.5	2.7	31.4	1.9	0.913	1.0
298	75-16166	1301.8	1302.8	9.0	0.9	87.8	2.3	23.5	2.2	0.916	1.0
299	75-16167	1302.8	1303.8	15.4	0.6	80.2	3.8	41.1	1.4	0.899	1.0
300	75-16168	1303.8	1304.8	16.4	0.6	79.2	3.8	44.5	1.4	0.884	1.0

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SO	SAMPLE ID	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
1	75-16169	1304.8	1305.8	12.3	0.7	83.9	3.1	33.1	1.7	0.892	1.0
2	75-16170	1305.8	1307.0	9.2	0.5	87.6	2.7	25.0	1.2	0.884	1.0
3	75-16171	1307.0	1308.0	8.9	0.6	88.3	2.2	24.2	1.4	0.886	1.0
4	75-16172	1308.0	1309.0	11.2	0.5	85.9	2.4	30.4	1.2	0.886	1.0
5	75-16173	1309.0	1310.0	14.6	0.6	81.6	3.2	39.6	1.4	0.886	1.0
6	75-16174	1310.0	1311.0	14.6	0.7	81.6	3.1	39.6	1.7	0.887	1.0
7	75-16175	1311.0	1312.0	10.4	0.6	86.1	2.9	28.1	1.4	0.891	1.0
8	75-16176	1312.0	1313.0	8.2	0.8	88.5	2.5	21.7	1.9	0.904	1.0
9	75-16177	1313.0	1314.0	9.3	0.5	88.0	2.2	24.6	1.2	0.907	1.0
0	75-16178	1314.0	1315.0	11.2	0.7	85.5	2.6	29.6	1.7	0.908	1.0
1	75-16179	1315.0	1316.0	10.5	0.5	86.7	2.3	27.5	1.2	0.912	1.0
2	75-16180	1316.0	1317.0	10.0	0.4	87.2	2.4	26.4	1.0	0.909	1.0
3	75-16181	1317.0	1318.0	11.4	0.6	85.2	2.8	30.1	1.4	0.909	1.0
4	75-16182	1318.0	1319.0	9.1	0.6	87.6	2.7	23.8	1.4	0.913	1.0
5	75-16183	1319.0	1320.0	6.5	0.4	91.0	2.1	17.2	1.0	0.911	1.0
6	75-16184	1320.0	1321.0	5.6	0.5	92.4	1.5	14.8	1.2	0.912	1.0
7	75-16185	1321.0	1322.2	14.6	0.6	82.0	2.8	38.9	1.4	0.898	1.0
8	75-16186	1322.2	1323.3	14.5	0.5	82.1	2.9	38.8	1.2	0.897	1.0
9	75-16187	1323.3	1324.5	13.7	0.6	83.1	2.6	36.7	1.4	0.895	2.0
20	75-	1324.5	1340.0	0.0B	0.0B	0.0B	0.0B	39.4	0.0B	0.000B	0.0B
21	75-16188	1340.0	1341.0	15.8	0.7	79.9	3.6	42.1	1.7	0.903	2.0
22	75-16189	1341.0	1342.0	16.4	0.6	79.1	3.9	43.8	1.4	0.899	2.0
23	75-16190	1342.0	1343.1	13.7	0.7	82.5	3.1	36.0	1.7	0.909	1.0
24	75-16191	1343.1	1344.1	14.8	0.7	80.8	3.7	39.4	1.7	0.903	1.0
25	75-16192	1344.1	1345.1	14.5	0.8	81.4	3.3	38.4	1.9	0.906	1.0
26	75-16193	1345.1	1346.1	11.6	0.8	84.8	2.8	30.9	1.9	0.899	1.0
27	75-16194	1346.1	1347.1	11.2	0.8	85.1	2.9	29.6	1.9	0.906	1.0
28	75-16195	1347.1	1348.1	12.9	1.0	83.1	3.0	34.0	2.4	0.909	1.0
29	75-16196	1348.1	1349.1	12.7	0.8	83.8	2.7	33.5	1.9	0.908	1.0
30	75-	1349.1	1355.0	0.0B	0.0B	0.0B	0.0B	25.0	0.0B	0.000B	0.0B
31	75-16197	1355.0	1356.2	9.0	0.7	87.9	2.4	23.6	1.7	0.915	1.0
32	75-16198	1356.2	1357.4	6.4	0.4	91.5	1.7	16.9	0.9	0.914	1.0
33	75-16199	1357.4	1358.7	6.2	0.6	91.6	1.6	16.0	1.4	0.921	1.0
34	75-16200	1358.7	1361.0	6.8	0.7	90.9	1.6	17.9	1.7	0.911	1.0
35	75-16201	1361.0	1363.0	8.2	0.4	89.6	1.8	22.0	1.0	0.896	1.0
36	75-16202	1363.0	1364.4	8.8	0.5	88.2	2.5	23.6	1.2	0.896	1.0
37	75-16203	1364.4	1365.5	4.9	0.5	91.8	2.8	13.2	1.2	0.894	1.0
38	75-16204	1365.5	1366.8	4.2	0.6	93.3	1.9	11.3	1.3	0.899	1.0
39	75-16205	1366.8	1368.2	7.0	0.5	90.4	2.1	18.4	1.2	0.914	1.0
40	75-16206	1368.2	1369.8	5.8	0.3	91.8	2.1	15.3	0.7	0.903	1.0
41	75-16207	1369.8	1371.0	9.4	0.5	87.2	2.9	25.0	1.2	0.905	1.0
42	75-16208	1371.0	1372.4	9.0	0.4	88.7	1.9	24.0	1.0	0.905	1.0
43	75-16209	1372.4	1373.4	17.4	0.8	77.9	3.9	45.7	1.9	0.915	3.0
44	75-16210	1373.4	1374.8	14.6	0.7	81.5	3.2	38.4	1.7	0.910	2.0
45	75-16211	1374.8	1376.0	9.8	0.5	87.5	2.2	25.8	1.2	0.912	1.0
46	75-16212	1376.0	1378.7	8.7	0.5	89.0	1.8	22.9	1.2	0.913	1.0
47	75-16213	1378.7	1379.8	11.0	0.4	86.6	2.0	29.1	1.0	0.904	2.0
48	75-16214	1379.8	1380.8	12.6	0.7	83.9	2.8	33.3	1.7	0.906	1.0
49	75-	1380.8	1394.3	0.0B	0.0B	0.0B	0.0B	28.0	0.0B	0.000B	0.0B
50	75-16215	1394.3	1395.0	12.8	0.8	83.2	3.2	33.7	1.9	0.908	1.0

SHALE/SALINE DATA ANALYSIS - U S G S(07/01/75)

DATE 10/ 3/75

USGS CORE HOLE CH-1 15 96N 31

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
351	75-16216	1395.0	1396.0	10.2	0.7	87.1	2.0	26.9	1.7	0.909	1.0
352	75-16217	1396.0	1397.0	11.8	0.6	87.3	3.3	31.0	1.4	0.909	1.0
353	75-16218	1397.0	1398.0	13.9	0.6	82.2	3.3	36.5	1.6	0.912	2.0
354	75-16219	1398.0	1399.0	12.6	0.6	83.9	2.7	33.8	1.4	0.908	1.0
355	75-16220	1399.0	1400.0	9.4	0.6	87.6	2.4	24.9	1.4	0.908	1.0
356	75-16221	1400.0	1401.0	5.8	0.4	91.8	2.0	15.3	1.0	0.909	1.0
357	75-16222	1401.0	1402.0	7.2	0.5	89.4	2.9	19.1	1.2	0.910	1.0
358	75-16223	1402.0	1403.0	7.1	0.6	90.2	2.1	18.7	1.4	0.910	1.0
359	75-16224	1403.0	1404.0	9.3	0.4	88.3	2.0	24.5	1.0	0.912	1.0
360	75-	1404.0	1410.0	0.0B	0.0B	0.0B	0.0B	23.8	0.0B	0.0008	0.0B
361	75-16225	1410.0	1411.0	8.8	0.5	89.0	1.7	23.1	1.2	0.911	1.0
362	75-16226	1411.0	1412.0	7.1	0.4	91.3	1.2	18.6	1.0	0.908	1.0
363	75-16227	1412.0	1413.4	7.2	0.3	90.5	2.0	19.0	0.7	0.908	1.0
364	75-	1413.4	1413.7	0.0B	0.0B	0.0B	0.0B	20.9	0.0B	0.0008	0.0B
365	75-16228	1413.7	1415.2	8.7	0.5	88.9	1.9	22.8	1.2	0.909	1.0
366	75-16229	1415.2	1417.0	8.2	0.7	89.4	1.7	21.7	1.7	0.910	1.0
367	75-16230	1417.0	1420.0	6.6	1.0	90.9	1.5	17.2	2.4	0.915	1.0
368	75-16231	1420.0	1422.0	5.4	1.1	92.4	1.1	14.2	2.6	0.919	1.0
369	75-16232	1422.0	1424.0	2.6	0.6	96.2	0.6	6.8	1.4	0.922	1.0
370	75-	1424.0	1440.0	0.0B	0.0B	0.0B	0.0B	4.0	0.0B	0.0008	0.0B
371	75-16233	1440.0	1444.0	3.8	0.3	95.1	0.8	9.9	0.7	0.912	1.0
372	75-16234	1444.0	1445.0	13.5	0.7	82.6	3.2	35.5	1.7	0.914	1.0
373	75-16235	1445.0	1446.0	15.1	0.7	80.5	3.7	39.6	1.7	0.916	2.0
374	75-16236	1446.0	1447.0	8.5	0.2	89.4	1.9	22.5	0.5	0.909	1.0
375	75-16237	1447.0	1448.0	12.0	0.6	84.8	2.6	31.6	1.4	0.914	1.0
376	75-16238	1448.0	1449.3	10.9	0.5	85.6	3.0	28.8	1.2	0.907	1.0
377	75-16239	1449.3	1450.9	7.2	0.7	90.1	2.0	19.0	1.7	0.907	1.0
378	75-16240	1450.9	1452.0	19.0	0.8	76.3	3.9	50.1	2.0	0.910	3.0
379	75-16241	1452.0	1453.0	13.2	0.8	82.6	3.4	34.9	1.9	0.909	1.0
380	75-16242	1453.0	1454.0	16.2	0.7	79.5	3.6	42.9	1.7	0.905	1.0
381	75-16243	1454.0	1455.0	17.3	0.8	77.9	4.0	46.1	1.8	0.901	1.0
382	75-16244	1455.0	1456.0	13.6	0.7	82.0	3.7	36.3	1.7	0.899	1.0
383	75-16245	1456.0	1457.0	13.7	0.8	82.4	3.2	36.5	1.8	0.898	1.0
384	75-16246	1457.0	1458.0	9.2	0.8	87.6	2.4	24.5	1.8	0.899	1.0
385	75-16247	1458.0	1459.4	6.2	0.6	91.3	1.9	16.3	1.5	0.908	1.0
386	75-16248	1459.4	1460.4	7.3	0.8	89.9	2.0	19.3	1.9	0.905	1.0
387	75-16249	1460.4	1461.5	6.1	0.7	91.3	1.9	16.1	1.7	0.904	1.0
388	75-16250	1461.5	1462.5	10.2	0.6	86.7	2.5	26.9	1.4	0.906	1.0
389	75-16251	1462.5	1463.6	7.4	0.6	89.8	2.2	19.6	1.4	0.907	1.0
390	75-16252	1463.6	1464.9	14.0	0.8	81.2	4.0	36.7	1.9	0.914	4.0
391	75-16253	1464.9	1466.2	8.9	0.6	87.8	2.7	23.7	1.4	0.907	1.0
392	75-	1466.2	1473.0	0.0B	0.0B	0.0B	0.0B	21.0	0.0B	0.0008	0.0B
393	75-16254	1473.0	1474.7	7.0	0.3	90.7	2.0	18.4	0.8	0.904	1.0
394	75-	1474.7	1475.0	0.0B	0.0B	0.0B	0.0B	17.4	0.0B	0.0008	0.0B
395	75-16255	1475.0	1477.0	6.2	0.5	91.6	1.7	16.4	1.2	0.902	1.0
396	75-	1477.0	1477.5	0.0B	0.0B	0.0B	0.0B	23.5	0.0B	0.0008	0.0B
397	75-16256	1477.5	1478.3	7.4	0.6	90.0	2.0	19.6	1.4	0.907	1.0
398	75-16257	1478.3	1479.3	13.7	1.1	80.5	4.7	35.8	2.6	0.918	1.0
399	75-16258	1479.3	1480.3	16.1	1.4	76.9	5.6	42.4	3.4	0.911	1.0
400	75-16259	1480.3	1481.0	7.5	1.0	89.3	2.2	19.8	2.4	0.907	1.0

ALE/8A E P A ANALYSIS - U S G S(07/01/75) DA 10/ 3/79

USGS COREHOLE CR-1 1S 96W 31

BB NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
01	75-16260	1481.0	1482.0	5.1	1.4	91.0	2.5	13.5	3.4	0.906	1.0
02	75-16261	1482.0	1483.0	5.3	0.9	91.9	1.9	14.1	2.2	0.899	1.0
03	75-16262	1483.0	1484.0	10.8	0.7	85.9	2.6	28.6	1.7	0.901	1.0
04	75-16263	1484.0	1485.0	8.9	0.7	88.3	2.1	23.7	1.7	0.896	1.0
05	75-16264	1485.0	1486.0	8.9	0.7	88.0	2.4	23.8	1.7	0.895	1.0
06	75-16265	1486.0	1487.2	8.0	0.7	88.1	3.2	21.6	1.7	0.890	1.0
07	75-16266	1487.2	1488.4	7.1	0.5	90.3	2.1	19.0	1.2	0.889	1.0
08	75-16267	1488.4	1489.4	9.3	0.9	87.2	2.6	24.8	2.2	0.896	1.0
09	75-	1489.4	1489.7	0.0B	0.0B	0.0B	0.0B	24.8	0.0B	0.000B	0.0B
10	75-16268	1489.7	1490.8	9.3	0.6	87.3	2.8	24.9	1.4	0.893	1.0
11	75-16269	1490.8	1491.9	10.4	0.6	85.9	3.1	28.1	1.4	0.890	1.0
12	75-16270	1491.9	1492.9	10.0	0.7	85.3	4.0	26.7	1.7	0.901	1.0
13	75-	1492.9	1493.3	0.0B	0.0B	0.0B	0.0B	28.1	0.0B	0.000B	0.0B
14	75-16271	1493.3	1494.2	11.0	0.9	84.4	3.7	29.6	2.2	0.890	1.0
15	75-16272	1494.2	1495.1	11.5	0.8	84.2	3.5	31.1	1.9	0.890	1.0
16	75-16273	1495.1	1496.0	11.3	0.8	83.3	4.6	30.2	1.9	0.895	1.0
17	75-16274	1496.0	1497.3	12.2	0.7	83.7	3.4	32.8	1.7	0.895	1.0
18	75-16275	1497.3	1498.5	11.3	0.6	84.8	3.3	30.3	1.4	0.895	1.0
19	75-16276	1498.5	1500.0	9.6	0.8	86.7	2.9	25.7	1.9	0.901	1.0
20	75-	1500.0	1503.0	0.0B	0.0B	0.0B	0.0B	22.4	0.0B	0.000B	0.0B
21	75-16277	1503.0	1504.0	7.3	2.0	89.1	1.6	19.1	4.8	0.911	1.0
22	75-16278	1504.0	1505.0	14.5	1.0	80.8	3.7	38.0	2.4	0.914	1.0
23	75-16279	1505.0	1506.1	14.7	0.6	81.0	3.7	38.9	1.4	0.908	1.0
24	75-16280	1506.1	1507.3	14.8	0.8	81.0	3.4	39.0	1.9	0.914	1.0
25	75-16281	1507.3	1508.3	12.6	0.7	84.1	2.6	33.0	1.7	0.914	1.0
26	75-16282	1508.3	1509.3	13.1	1.0	82.5	3.4	34.4	2.4	0.914	1.0
27	75-16283	1509.3	1510.2	12.9	1.0	82.4	3.9	34.0	2.4	0.910	1.0
28	75-16284	1510.2	1511.8	3.4	0.5	94.3	1.8	8.8	1.2	0.917	1.0
29	75-16285	1511.8	1513.0	14.3	0.9	81.5	3.3	37.1	2.2	0.923	1.0
30	75-16286	1513.0	1514.0	14.4	0.6	81.2	3.8	37.5	1.4	0.922	1.0
31	75-16287	1514.0	1515.4	7.6	0.6	89.6	2.2	20.2	1.4	0.899	1.0
32	75-16288	1515.4	1516.4	14.2	0.7	81.6	3.5	37.6	1.7	0.903	1.0
33	75-16289	1516.4	1517.5	14.9	0.9	80.2	4.0	39.4	2.0	0.905	1.0
34	75-16290	1517.5	1518.6	12.2	0.7	83.4	3.7	32.5	1.7	0.899	1.0
35	75-16291	1518.6	1520.2	9.0	0.6	88.6	1.8	24.4	1.4	0.880	1.0
36	75-16292	1520.2	1521.9	9.8	0.5	87.6	2.1	26.2	1.2	0.896	2.0
37	75-16293	1521.9	1522.9	13.1	0.6	83.6	2.7	34.5	1.4	0.913	2.0
38	75-16294	1522.9	1524.0	16.6	0.7	79.1	3.6	43.4	1.7	0.915	3.0
39	75-16295	1524.0	1525.0	17.7	0.8	77.8	3.7	46.2	1.9	0.917	3.0
40	75-16296	1525.0	1526.0	16.8	0.8	76.3	4.1	49.1	1.9	0.919	3.0
41	75-16297	1526.0	1527.0	10.4	0.5	86.2	2.9	27.3	1.2	0.909	2.0
42	75-16298	1527.0	1527.9	11.0	0.6	85.5	2.9	29.0	1.4	0.910	1.0
43	75-16299	1527.9	1528.8	12.2	0.6	84.2	3.0	32.2	1.4	0.906	1.0
44	75-	1528.8	1546.0	0.0B	0.0B	0.0B	0.0B	33.9	0.0B	0.000B	0.0B
45	75-16300	1546.0	1547.2	13.5	0.5	82.4	3.6	35.7	1.2	0.905	2.0
46	75-	1547.2	1547.5	0.0B	0.0B	0.0B	0.0B	34.6	0.0B	0.000B	0.0B
47	75-16301	1547.5	1549.4	12.8	0.5	82.8	3.9	33.6	[illegible]	[illegible]	1.0
48	75-16302	1549.4	1550.3	12.2	0.8	82.8	[illegible]	32.1	1.9	0.910	2.0
49	75-16303	1550.3	1551.3	7.0	0.5	90.2	2.3	18.4	1.2	0.912	1.0
50	75-16304	1551.3	1552.3	4.5	0.8	91.5	3.2	11.8	1.9	0.912	1.0

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IBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
151	75-	1552.3	1552.7	0.0B	0.0B	0.0B	0.0B	12.1	0.0B	0.000B	0.0B
152	75-16305	1552.7	1554.2	4.7	0.5	91.0	3.8	12.5	1.2	0.904	1.0
153	75-16306	1554.2	1555.6	4.9	0.7	91.1	3.3	13.0	1.7	0.900	1.0
154	75-16307	1555.6	1556.6	5.0	0.6	92.2	2.2	13.2	1.4	0.903	1.0
155	75-16308	1556.6	1557.6	8.2	0.5	88.9	2.4	21.7	1.2	0.909	1.0
156	75-16309	1557.6	1558.1	16.1	1.1	79.2	3.6	41.8	2.6	0.924	1.0
157	75-16310	1558.1	1559.2	10.6	0.9	85.6	2.9	27.8	2.2	0.919	1.0
158	75-16311	1559.2	1562.0	9.6	0.7	86.5	3.2	25.1	1.7	0.919	1.0
159	75-	1562.0	1567.0	0.0B	0.0B	0.0B	0.0B	24.0	0.0B	0.000B	0.0B
160	75-16312	1567.0	1568.8	8.8	0.8	87.0	3.4	23.0	1.9	0.917	1.0
161	75-16313	1568.8	1569.9	13.2	0.8	83.1	2.9	34.3	1.9	0.921	1.0
162	75-16314	1569.9	1571.0	13.0	0.5	83.6	2.9	33.8	1.2	0.920	1.0
163	75-16315	1571.0	1573.3	9.8	0.5	87.1	2.6	25.8	1.4	0.913	1.0
164	75-	1573.3	1580.0	0.0B	0.0B	0.0B	0.0B	30.0	0.0B	0.000B	0.0B
165	75-16316	1580.0	1581.0	9.9	0.6	86.4	3.1	26.1	1.5	0.912	1.0
166	75-16317	1581.0	1582.0	8.7	0.5	89.0	1.8	23.1	1.2	0.901	1.0
167	75-16318	1582.0	1583.0	8.5	0.7	88.9	1.9	22.5	1.7	0.904	1.0
168	75-16319	1583.0	1584.0	6.0	0.8	91.4	1.8	15.7	2.0	0.907	1.0
169	75-	1584.0	1587.0	0.0B	0.0B	0.0B	0.0B	13.8	0.0B	0.000B	0.0B
170	75-16320	1587.0	1588.0	4.5	0.9	93.4	1.2	11.9	2.2	0.907	1.0
171	75-16321	1588.0	1589.7	5.1	0.9	91.0	3.0	13.5	2.0	0.908	1.0
172	75-16322	1589.7	1591.2	5.2	1.0	91.9	1.9	13.7	2.4	0.910	1.0
173	75-16323	1591.2	1593.0	3.3	0.6	94.5	1.6	8.8	1.4	0.906	1.0
174	75-16324	1593.0	1595.0	6.9	0.8	89.8	2.5	18.2	1.9	0.912	1.0
175	75-16325	1595.0	1597.0	10.4	0.6	96.7	2.3	27.7	1.4	0.903	1.0
176	75-16326	1597.0	1598.0	10.9	0.6	85.5	3.0	28.8	1.4	0.909	1.0
177	75-16327	1598.0	1599.0	9.9	0.4	87.0	2.7	26.3	1.0	0.904	1.0
178	75-16328	1599.0	1600.0	9.0	0.6	88.4	2.0	23.8	1.4	0.903	1.0
179	75-	1600.0	1606.0	0.0B	0.0B	0.0B	0.0B	17.0	0.0B	0.000B	0.0B
180	75-16329	1606.0	1607.0	8.3	1.6	86.8	3.3	22.1	3.8	0.900	1.0
181	75-	1607.0	1612.0	0.0B	0.0B	0.0B	0.0B	22.7	0.0B	0.000B	0.0B
182	75-16330	1612.0	1614.8	8.0	0.5	89.1	2.4	21.3	1.2	0.905	1.0
183	75-16331	1614.8	1616.0	7.4	0.3	90.8	1.5	19.4	0.7	0.910	1.0
184	75-16332	1616.0	1617.2	7.7	0.3	90.3	1.7	20.2	0.7	0.909	1.0
185	75-16333	1617.2	1619.2	5.8	0.9	91.8	1.5	15.2	2.2	0.912	1.0
186	75-16334	1619.2	1620.2	10.2	0.7	86.7	2.4	26.9	1.7	0.908	1.0
187	75-16335	1620.2	1621.3	12.1	0.8	84.1	3.0	31.9	1.9	0.914	1.0
188	75-16336	1621.3	1623.3	13.7	0.7	82.3	3.3	36.2	1.7	0.908	1.0
189	75-16337	1623.3	1624.3	17.3	0.8	78.5	3.4	46.0	1.9	0.904	1.0
190	75-16338	1624.3	1625.3	14.7	0.6	80.5	4.2	38.8	1.4	0.906	1.0
191	75-16339	1625.3	1626.3	12.0	0.6	85.0	2.4	31.7	1.4	0.903	1.0
192	75-16340	1626.3	1627.3	8.2	0.5	89.4	1.9	22.0	1.2	0.895	1.0
193	75-16341	1627.3	1628.3	7.1	0.4	90.6	1.9	19.1	1.0	0.895	1.0
194	75-16342	1628.3	1629.4	10.0	0.4	87.3	2.3	26.6	1.0	0.896	1.0
195	75-16343	1629.4	1630.4	9.2	0.9	87.8	2.1	24.6	2.2	0.898	1.0
196	75-16344	1630.4	1632.0	10.4	1.2	85.3	3.1	27.5	2.9	0.904	1.0
197	75-16345	1632.0	1633.8	14.3	0.7	81.7	3.3	37.6	1.7	0.914	1.0
198	75-16346	1633.8	1635.4	10.5	0.7	86.3	2.5	27.9	1.6	0.902	1.0
199	75-16347	1635.4	1636.7	16.6	1.1	77.7	4.6	43.5	2.6	0.915	1.0
500	75-16348	1636.7	1637.9	15.1	0.6	79.9	4.4	39.9	1.5	0.906	1.0

SHALE/S. ANI ATA ANALYSIS - U S G S(07/01/75) IE 10/ 3/75

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
501	75-16349	1637.9	1639.0	6.9	0.5	90.5	2.1	18.2	1.2	0.906	1.0
502	75-16350	1639.0	1640.0	10.4	0.7	86.3	2.6	27.7	1.7	0.904	1.0
503	75-16351	1640.0	1641.5	6.4	0.5	90.0	3.1	17.1	1.2	0.895	1.0
504	75-	1641.5	1659.0	0.0B	0.0B	0.0B	0.0B	20.0	0.0B	0.000B	0.0B
505	75-16352	1659.0	1660.5	12.0	0.6	84.5	2.9	31.8	1.5	0.903	1.0
506	75-16353	1660.5	1661.5	9.5	0.7	86.8	3.0	25.4	1.7	0.899	1.0
507	75-16354	1661.5	1662.6	8.3	0.5	88.2	3.0	22.2	1.2	0.900	1.0
508	75-16355	1662.6	1663.6	8.3	0.6	87.8	3.3	22.1	1.4	0.899	1.0
509	75-16356	1663.6	1664.8	8.0	0.6	88.2	3.2	21.2	1.4	0.898	1.0
510	75-16357	1664.8	1666.0	7.1	0.4	90.1	2.4	18.8	1.1	0.901	1.0
511	75-16358	1666.0	1667.0	4.6	0.5	92.9	2.0	12.2	1.1	0.904	1.0
512	75-16359	1667.0	1668.0	3.7	0.4	93.6	2.3	9.7	1.0	0.907	1.0
513	75-16360	1668.0	1669.0	4.9	0.4	92.2	2.5	12.8	1.0	0.908	1.0
514	75-16361	1669.0	1670.0	5.4	0.5	92.3	1.8	14.3	1.2	0.903	1.0
515	75-16362	1670.0	1671.0	4.4	0.5	93.2	1.9	11.8	1.2	0.904	1.0
516	75-16363	1671.0	1672.0	5.5	0.5	91.8	2.2	14.6	1.2	0.897	1.0
517	75-16364	1672.0	1673.0	4.9	0.5	92.4	2.2	13.1	1.2	0.903	1.0
518	75-16365	1673.0	1674.0	4.6	0.6	92.7	2.1	12.3	1.4	0.903	1.0
519	75-16366	1674.0	1675.0	3.8	0.3	94.5	1.4	10.0	0.7	0.905	1.0
520	75-16367	1675.0	1676.0	2.7	0.3	96.3	0.7	7.0	0.7	0.906	1.0
521	75-16368	1676.0	1677.0	1.7	0.4	97.2	0.7	4.5	1.0	0.000B	1.0
522	75-16369	1677.0	1678.0	1.7	0.1	97.2	1.0	4.5	0.2	0.000B	1.0
523	75-16370	1678.0	1679.0	3.4	0.3	95.3	1.0	9.1	0.7	0.905	1.0
524	75-16371	1679.0	1680.0	6.3	0.7	90.7	2.3	16.7	1.7	0.907	1.0
525	75-16372	1680.0	1681.0	5.1	0.6	92.2	2.1	13.7	1.4	0.899	1.0
526	75-16373	1681.0	1682.0	6.9	0.6	89.9	2.5	18.4	1.7	0.896	1.0
527	75-16374	1682.0	1683.0	5.1	0.8	91.3	2.8	14.1	1.9	0.898	1.0
528	75-16375	1683.0	1684.0	5.0	0.7	91.6	2.7	13.5	1.7	0.898	1.0
529	75-16376	1684.0	1685.0	5.0	0.9	93.0	1.1	14.2	2.2	0.845	1.0
530	75-16377	1685.0	1686.0	5.3	0.8	92.5	1.4	14.1	1.9	0.907	1.0
531	75-16378	1686.0	1687.0	5.8	0.7	91.3	2.2	15.3	1.7	0.908	1.0
532	75-16379	1687.0	1688.0	5.7	0.3	92.2	1.8	15.2	0.7	0.906	1.0
533	75-16380	1688.0	1689.0	2.9	0.3	95.7	1.1	7.7	0.7	0.908	1.0
534	75-16381	1689.0	1690.0	3.0	0.4	95.3	1.3	8.0	1.0	0.908	1.0
535	75-16382	1690.0	1691.0	3.5	0.5	94.2	1.8	9.3	1.2	0.907	1.0
536	75-16383	1691.0	1692.0	6.5	0.6	90.6	2.3	17.1	1.4	0.908	1.0
537	75-16384	1692.0	1693.0	5.1	0.4	92.4	2.1	13.4	1.0	0.908	1.0
538	75-16385	1693.0	1694.0	5.3	0.4	91.8	2.5	14.1	1.0	0.907	1.0
539	75-16386	1694.0	1695.0	4.9	0.6	91.9	2.6	13.0	1.4	0.899	1.0
540	75-16387	1695.0	1696.0	5.5	0.7	90.8	3.0	14.6	1.7	0.903	1.0
541	75-16388	1696.0	1697.0	3.5	0.3	94.3	1.9	9.2	0.7	0.910	1.0
542	75-16389	1697.0	1698.0	3.9	0.4	93.9	1.8	10.3	1.0	0.913	1.0
543	75-	1698.0	1717.0	0.0B	0.0B	0.0B	0.0B	13.5	0.0B	0.000B	0.0B
544	75-16390	1717.0	1719.0	6.2	0.7	91.1	2.0	16.7	1.7	0.895	1.0
545	75-16391	1719.0	1720.4	5.6	0.4	91.9	2.1	15.0	1.0	0.898	1.0
546	75-	1720.4	1721.0	0.0B	0.0B	0.0B	0.0B	14.8	0.0B	0.000B	0.0B
547	75-16392	1721.0	1722.6	5.5	0.7	91.7	2.1	14.7	1.7	0.896	1.0
548	75-16393	1722.6	1725.6	4.5	0.7	93.2	1.6	11.9	1.7	0.898	1.0
549	75-16394	1725.6	1726.7	3.6	2.1	92.2	2.1	9.6	5.0	0.898	1.0
550	75-16395	1726.7	1728.0	3.9	1.7	91.8	2.6	10.3	4.1	0.910	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
551	75-16396	1728.0	1729.0	4.1	1.0	93.2	1.7	10.9	2.4	0.905	1.0
552	75-16397	1729.0	1730.3	4.6	1.1	92.5	1.8	12.2	2.6	0.905	1.0
553	75-16398	1730.3	1731.4	9.2	0.6	83.1	7.1	24.3	1.4	0.911	2.0
554	75-16399	1731.4	1732.6	4.6	0.5	93.0	1.9	12.1	1.2	0.905	1.0
555	75-	1732.6	1733.2	0.0B	0.0B	0.0B	0.0B	11.3	0.0B	0.000B	0.0B
556	75-16400	1733.2	1734.3	4.0	0.5	93.9	1.6	10.6	1.2	0.907	1.0
557	75-16401	1734.3	1735.6	3.7	0.7	94.3	1.3	9.8	1.8	0.899	1.0
558	75-16402	1735.6	1736.9	2.7	1.4	94.6	1.3	7.2	3.4	0.899	1.0
559	75-	1736.9	1737.2	0.0B	0.0B	0.0B	0.0B	7.7	0.0B	0.000B	0.0B
560	75-16403	1737.2	1738.1	3.1	0.9	94.4	1.6	8.2	2.2	0.906	1.0
561	75-16404	1738.1	1741.0	3.0	0.6	94.9	1.5	7.9	1.4	0.901	1.0
562	75-	1741.0	1767.0	0.0B	0.0B	0.0B	0.0B	13.7	0.0B	0.000B	0.0B
563	75-16405	1767.0	1768.2	7.4	0.5	89.9	2.2	19.6	1.2	0.902	1.0
564	75-16406	1768.2	1769.3	5.5	0.3	92.5	1.7	14.5	0.7	0.906	1.0
565	75-16407	1769.3	1770.6	3.7	0.4	94.4	1.5	9.7	1.0	0.906	1.0
566	75-16408	1770.6	1772.0	2.5	0.5	95.8	1.2	6.7	1.1	0.904	1.0
567	75-16409	1772.0	1773.2	2.7	0.5	95.5	1.3	7.2	1.2	0.904	1.0
568	75-16410	1773.2	1774.7	1.8	0.3	95.7	2.2	4.8	0.7	0.000B	1.0
569	75-16411	1774.7	1776.0	1.7	0.3	96.7	1.3	4.4	0.7	0.000B	1.0
570	75-16412	1776.0	1777.6	4.8	0.6	92.8	1.8	12.7	1.4	0.906	1.0
571	75-16413	1777.6	1778.7	7.6	1.9	88.0	2.5	20.1	4.0	0.903	1.0
572	75-16414	1778.7	1779.8	14.8	1.0	79.7	4.5	39.3	2.4	0.905	1.0
573	75-16415	1779.8	1781.0	16.3	1.2	77.6	4.9	43.2	2.9	0.907	1.0
574	75-16416	1781.0	1782.0	18.6	0.9	74.7	5.8	49.4	2.2	0.904	3.0
575	75-16417	1782.0	1783.0	10.2	0.5	86.3	3.0	27.2	1.3	0.896	1.0
576	75-16418	1783.0	1784.5	3.7	1.2	92.8	2.3	9.8	2.9	0.910	1.0
577	75-16419	1784.5	1785.5	3.7	1.5	92.4	2.4	9.9	3.6	0.908	1.0
578	75-16420	1785.5	1786.6	5.3	1.3	90.7	2.7	13.9	3.1	0.906	1.0
579	75-16421	1786.6	1787.7	14.5	0.9	78.5	6.1	38.3	2.2	0.909	1.0
580	75-16422	1787.7	1788.7	14.3	1.3	79.1	5.3	37.6	3.1	0.910	1.0
581	75-16423	1788.7	1790.0	14.1	1.4	79.3	5.2	37.4	3.4	0.902	1.0
582	75-16424	1790.0	1791.0	12.3	1.4	81.4	4.9	32.5	3.4	0.906	1.0
583	75-16425	1791.0	1792.3	13.7	0.9	82.4	3.0	36.1	2.2	0.910	1.0
584	75-16426	1792.3	1793.5	14.7	1.4	78.5	5.4	38.8	3.4	0.907	2.0
585	75-16427	1793.5	1794.7	4.0	0.6	93.2	2.2	10.8	1.4	0.896	1.0
586	75-16428	1794.7	1796.0	5.8	0.7	90.7	2.8	15.4	1.8	0.895	1.0
587	75-16429	1796.0	1797.0	6.6	0.8	89.5	3.1	17.7	1.9	0.893	1.0
588	75-16430	1797.0	1798.0	6.3	1.0	88.7	4.0	16.8	2.4	0.898	1.0
589	75-16431	1798.0	1799.0	6.5	1.0	87.8	4.7	17.4	2.4	0.898	1.0
590	75-16432	1799.0	1800.0	7.3	2.0	84.8	5.9	19.5	4.8	0.898	1.0
591	75-16433	1800.0	1801.0	9.8	1.0	83.8	5.4	26.2	2.3	0.899	1.0
592	75-16434	1801.0	1802.0	11.3	0.6	83.9	4.2	30.1	1.4	0.897	1.0
593	75-	1802.0	1811.0	0.0B	0.0B	0.0B	0.0B	30.6	0.0B	0.000B	0.0B
594	75-16435	1811.0	1812.0	11.7	1.1	81.8	5.4	31.2	2.6	0.899	1.0
595	75-16436	1812.0	1813.0	12.1	1.0	82.1	4.8	32.3	2.4	0.896	1.0
596	75-16437	1813.0	1814.0	12.4	1.3	81.1	5.2	33.0	3.1	0.898	1.0
597	75-16438	1814.0	1815.0	11.7	1.7	81.5	5.1	31.2	4.1	0.897	1.0
598	75-16439	1815.0	1816.0	12.6	0.4	81.6	5.4	33.4	1.0	0.901	1.0
599	75-16440	1816.0	1817.0	10.0	1.8	83.5	4.7	26.5	4.3	0.902	1.0
600	75-16441	1817.0	1818.0	7.5	2.3	84.9	5.3	20.2	5.5	0.896	1.0

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S D	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
1	75-16442	1818.0	1819.0	10.9	1.7	80.1	7.3	29.2	4.1	0.899	1.0
2	75-16443	1819.0	1820.0	12.2	1.3	80.7	5.8	32.6	3.1	0.897	1.0
3	75-16444	1820.0	1821.0	7.1	1.9	86.0	5.0	18.9	4.6	0.899	1.0
4	75-16445	1821.0	1822.3	7.5	1.8	85.1	5.6	19.9	4.3	0.901	1.0
5	75-16446	1822.3	1823.5	7.4	1.0	85.7	5.9	19.7	2.4	0.893	1.0
6	75-16447	1823.5	1824.7	10.3	1.1	82.9	5.7	27.4	2.6	0.897	1.0
7	75-16448	1824.7	1825.8	8.1	1.2	87.0	3.7	21.6	2.9	0.903	2.0
8	75-16449	1825.8	1827.0	8.9	0.5	87.9	2.7	23.6	1.2	0.899	1.0
9	75-16450	1827.0	1828.0	10.5	0.7	86.2	2.6	28.1	1.7	0.898	1.0
0	75-	1828.0	1828.3	0.0B	0.0B	0.0B	0.0B	29.3	0.0B	0.0008	0.0B
1	75-16451	1828.3	1829.6	11.5	1.0	84.4	3.1	30.5	2.4	0.902	1.0
2	75-16452	1829.6	1831.0	11.3	1.0	84.0	3.7	30.1	2.4	0.902	1.0
3	75-	1831.0	1836.0	0.0B	0.0B	0.0B	0.0B	27.1	0.0B	0.0008	0.0B
4	75-16453	1836.0	1837.0	9.0	0.5	87.7	2.8	24.1	1.2	0.899	1.0
5	75-16454	1837.0	1838.0	10.9	1.0	83.6	4.5	29.0	2.4	0.902	1.0
6	75-16455	1838.0	1839.0	11.8	1.9	78.7	7.6	31.3	4.6	0.904	1.0
7	75-16456	1839.0	1840.0	11.6	1.6	80.8	6.0	30.7	3.8	0.903	1.0
8	75-16457	1840.0	1841.0	10.9	2.4	80.6	6.1	29.1	5.8	0.896	1.0
9	75-16458	1841.0	1842.0	11.6	1.4	77.9	9.1	30.8	3.4	0.903	1.0
0	75-16459	1842.0	1843.0	11.9	1.3	79.1	7.7	31.5	3.1	0.903	1.0
1	75-16460	1843.0	1844.0	12.1	1.3	80.0	6.6	32.1	3.1	0.900	1.0
2	75-16461	1844.0	1845.0	12.2	1.3	79.9	6.6	32.6	3.1	0.901	1.0
3	75-16462	1845.0	1846.0	10.2	1.7	82.6	5.5	27.1	4.1	0.898	1.0
4	75-16463	1846.0	1847.0	10.4	2.1	80.5	7.0	27.7	5.0	0.898	1.0
5	75-16464	1847.0	1848.0	15.3	1.9	74.4	8.4	40.8	4.6	0.900	1.0
6	75-16465	1848.0	1849.0	15.8	1.5	76.0	6.7	42.1	3.6	0.900	1.0
7	75-16466	1849.0	1850.1	10.6	4.5	78.1	6.8	28.2	10.8	0.904	1.0
8	75-16467	1850.1	1851.4	10.6	0.9	83.4	5.1	28.4	2.2	0.897	1.0
9	75-16468	1851.4	1852.7	10.6	1.2	84.9	3.3	28.4	2.9	0.893	1.0
0	75-16469	1852.7	1854.0	9.2	1.3	86.9	2.6	24.6	3.1	0.896	1.0
1	75-16470	1854.0	1855.0	9.8	1.7	85.7	2.8	26.3	4.1	0.898	1.0
2	75-16471	1855.0	1856.0	9.9	1.9	86.3	1.9	26.5	4.6	0.897	1.0
3	75-16472	1856.0	1857.0	10.2	1.5	85.8	2.5	27.4	3.6	0.898	1.0
4	75-16473	1857.0	1858.0	10.0	1.3	86.9	1.8	26.7	3.1	0.896	1.0
5	75-16474	1858.0	1859.0	9.8	1.6	85.8	2.8	26.5	3.8	0.892	1.0
6	75-16475	1859.0	1860.0	10.4	1.3	85.5	2.8	27.8	3.1	0.896	1.0
7	75-16476	1860.0	1861.0	10.9	1.8	84.9	2.4	29.1	4.3	0.897	1.0
8	75-16477	1861.0	1862.0	12.8	1.7	83.5	2.0	34.0	4.1	0.901	1.0
9	75-16478	1862.0	1863.0	10.7	2.5	83.5	3.3	28.5	6.0	0.901	1.0
0	75-16479	1863.0	1864.0	12.3	2.1	82.0	3.5	33.1	5.0	0.900	1.0
1	75-16480	1864.0	1864.6	6.5	1.5	89.7	2.3	17.5	3.6	0.894	1.0
2	75-	1864.6	1868.0	0.0B	0.0B	0.0B	0.0B	20.1	0.0B	0.0008	0.0B
3	75-16481	1868.0	1869.0	8.5	1.0	88.3	2.2	22.8	2.4	0.893	1.0
4	75-16482	1869.0	1870.0	8.2	1.3	88.8	1.7	21.9	3.1	0.898	1.0
5	75-16483	1870.0	1871.0	8.3	1.6	88.3	1.8	22.4	3.8	0.892	1.0
6	75-16484	1871.0	1872.0	8.7	1.3	86.5	3.5	23.3	3.1	0.895	1.0
7	75-16485	1872.0	1873.0	7.7	1.6	88.2	2.5	20.7	3.8	0.893	1.0
8	75-16486	1873.0	1874.0	8.0	1.3	86.5	4.2	21.3	3.1	0.899	1.0
9	75-16487	1874.0	1875.0	9.0	1.2	86.8	3.0	23.9	2.9	0.902	1.0
0	75-16488	1875.0	1876.0	6.9	1.8	88.7	2.6	18.5	4.3	0.896	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
651	75-16489	1876.0	1877.0	6.7	1.9	89.8	1.6	17.9	4.6	0.894	1.0
652	75-16490	1877.0	1878.4	10.7	1.7	83.8	3.8	28.2	4.1	0.908	1.0
653	75-16491	1878.4	1879.7	8.7	1.4	86.1	3.8	23.1	3.4	0.906	1.0
654	75-16492	1879.7	1881.0	15.5	0.9	78.4	5.2	41.6	2.2	0.893	1.0
655	75-16493	1881.0	1882.1	19.5	1.3	72.7	6.5	51.9	3.1	0.903	4.0
656	75-16494	1882.1	1882.9	20.1	1.2	69.3	9.4	53.2	2.9	0.906	4.0
657	75-16495	1882.9	1884.1	11.8	1.5	80.1	6.6	31.4	3.6	0.901	1.0
658	75-16496	1884.1	1885.6	8.2	2.0	83.0	6.8	21.9	4.8	0.897	1.0
659	75-	1885.6	1896.3	0.0B	0.0B	0.0B	0.0B	21.2	0.0B	0.000B	0.0B
660	75-16497	1896.3	1897.4	7.6	1.4	85.9	5.1	20.5	3.4	0.897	1.0
661	75-16498	1897.4	1898.5	7.4	1.6	86.5	5.5	17.0	3.8	0.900	1.0
662	75-16499	1898.5	1899.5	7.1	1.8	85.9	5.2	19.0	4.3	0.899	1.0
663	75-16500	1899.5	1900.6	7.9	1.7	85.0	5.4	21.1	4.1	0.894	1.0
664	75-16501	1900.6	1901.6	7.1	1.7	85.8	5.4	18.9	4.1	0.902	1.0
665	75-16502	1901.6	1902.6	7.2	1.6	85.1	6.1	19.3	3.8	0.899	1.0
666	75-16503	1902.6	1903.7	7.0	1.7	85.4	5.9	18.7	4.1	0.897	1.0
667	75-16504	1903.7	1904.7	7.6	2.0	83.5	6.7	20.7	4.8	0.901	1.0
668	75-16505	1904.7	1905.8	10.0	1.5	82.4	6.1	26.4	3.6	0.905	1.0
669	75-	1905.8	1906.0	0.0B	0.0B	0.0B	0.0B	23.5	0.0B	0.000B	0.0B
670	75-16506	1906.0	1906.8	7.8	1.4	85.6	5.2	20.7	3.4	0.904	1.0
671	75-16507	1906.8	1908.0	10.5	1.1	79.7	8.7	27.9	2.6	0.902	1.0
672	75-16508	1908.0	1909.1	10.3	1.5	81.3	6.9	27.4	3.6	0.902	1.0
673	75-16509	1909.1	1910.3	11.1	1.7	80.2	7.0	29.5	4.0	0.902	1.0
674	75-16510	1910.3	1911.5	13.0	1.4	80.8	4.8	34.5	3.4	0.902	1.0
675	75-16511	1911.5	1912.5	13.7	1.3	79.3	5.7	36.3	3.1	0.906	1.0
676	75-16512	1912.5	1913.7	12.2	1.6	80.6	5.7	32.5	3.5	0.900	1.0
677	75-16513	1913.7	1914.7	11.2	1.5	81.8	5.5	29.7	3.6	0.902	1.0
678	75-16514	1914.7	1915.7	14.6	1.3	77.7	6.4	38.3	3.1	0.905	2.0
679	75-16515	1915.7	1917.0	7.1	1.2	87.3	4.4	18.9	2.8	0.903	1.0
680	75-	1917.0	1917.2	0.0B	0.0B	0.0B	0.0B	16.2	0.0B	0.000B	0.0B
681	75-16516	1917.2	1918.2	5.1	1.4	89.3	4.2	13.5	3.4	0.898	1.0
682	75-16517	1918.2	1919.2	7.6	1.3	86.8	4.3	20.4	3.1	0.897	1.0
683	75-16518	1919.2	1920.9	10.6	0.8	84.1	4.5	28.2	1.9	0.901	1.0
684	75-	1920.9	1921.2	0.0B	0.0B	0.0B	0.0B	23.7	0.0B	0.000B	0.0B
685	75-16519	1921.2	1922.5	7.1	1.1	87.7	4.1	19.2	2.6	0.894	1.0
686	75-16520	1922.5	1923.7	8.9	1.1	85.6	4.4	23.7	2.6	0.896	1.0
687	75-16521	1923.7	1924.7	9.7	1.1	83.8	5.4	25.9	2.6	0.894	1.0
688	75-16522	1924.7	1925.7	10.0	1.4	83.2	5.4	26.9	3.4	0.893	1.0
689	75-16523	1925.7	1926.7	10.8	1.3	81.3	6.6	28.9	3.1	0.897	1.0
690	75-16524	1926.7	1927.7	10.4	1.6	81.6	6.4	28.0	3.7	0.897	1.0
691	75-16525	1927.7	1928.7	10.5	1.5	82.1	5.9	28.1	3.5	0.898	1.0
692	75-16526	1928.7	1930.0	7.9	1.4	84.0	6.7	21.0	3.4	0.900	1.0
693	75-16527	1930.0	1932.0	4.7	1.7	88.1	5.5	12.4	4.1	0.902	1.0
694	75-	1932.0	1941.0	0.0B	0.0B	0.0B	0.0B	26.2	0.0B	0.000B	0.0B
695	75-16528	1941.0	1942.2	15.2	0.6	79.8	4.4	40.0	1.5	0.908	2.0
696	75-16529	1942.2	1943.4	15.4	0.8	78.5	5.3	40.6	1.8	0.910	2.0
697	75-16530	1943.4	1944.6	14.6	0.8	79.0	5.6	38.6	2.0	0.906	2.0
698	75-16531	1944.6	1945.6	10.9	0.9	83.5	4.7	29.1	2.2	0.902	2.0
699	75-16532	1945.6	1946.6	8.0	1.1	86.3	4.6	21.3	2.6	0.898	1.0
700	75-16533	1946.6	1947.8	13.6	2.5	74.3	9.6	36.0	6.0	0.908	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
701	75-16534	1947.8	1949.0	12.9	2.7	75.5	8.9	34.0	6.5	0.909	1.0
702	75-16535	1949.0	1950.0	15.8	1.4	76.3	6.5	41.5	3.4	0.912	1.0
703	75-16536	1950.0	1951.0	15.2	1.3	77.3	6.2	39.8	3.1	0.914	2.0
704	75-16537	1951.0	1951.6	11.6	1.4	81.2	5.8	30.6	3.4	0.912	1.0
705	75-16538	1951.6	1952.4	7.2	1.3	87.9	3.6	19.0	3.1	0.913	1.0
706	75-16539	1952.4	1953.4	12.3	0.5	83.3	3.9	32.5	1.2	0.907	1.0
707	75-16540	1953.4	1954.4	12.5	0.7	83.3	3.5	32.8	1.6	0.912	1.0
708	75-16541	1954.4	1955.4	10.6	0.6	84.8	4.0	28.0	1.4	0.909	1.0
709	75-16542	1955.4	1956.4	8.6	0.8	84.0	6.6	22.8	1.9	0.906	1.0
710	75-16543	1956.4	1957.4	8.0	2.1	81.4	8.5	21.1	5.0	0.913	1.0
711	75-16544	1957.4	1958.7	5.8	1.2	86.0	7.0	15.5	2.9	0.897	1.0
712	75-16545	1958.7	1960.0	5.1	1.6	86.2	7.1	13.5	3.6	0.900	1.0
713	75-16546	1960.0	1961.0	5.3	1.7	86.3	6.7	14.3	4.1	0.897	1.0
714	75-16547	1961.0	1962.0	4.5	1.5	89.2	4.8	12.0	3.6	0.895	1.0
715	75-16548	1962.0	1963.0	5.3	1.3	88.6	4.8	14.2	3.1	0.898	1.0
716	75-16549	1963.0	1964.0	6.3	1.6	85.7	6.4	16.7	3.9	0.902	1.0
717	75-16550	1964.0	1965.0	5.4	2.3	83.6	8.7	14.5	5.5	0.901	1.0
718	75-16551	1965.0	1966.0	5.8	2.5	82.9	8.8	15.4	6.0	0.907	1.0
719	75-16552	1966.0	1967.0	4.8	3.0	83.9	8.3	12.7	7.2	0.900	1.0
720	75-16553	1967.0	1968.4	3.1	3.2	85.2	8.5	8.3	7.7	0.897	1.0
721	75-	1968.4	1968.6	0.0B	0.0B	0.0B	0.0B	9.2	0.0B	0.000B	0.0B
722	75-16554	1968.6	1969.7	3.8	3.1	81.8	11.3	10.2	7.4	0.899	1.0
723	75-	1969.7	1970.0	0.0B	0.0B	0.0B	0.0B	12.2	0.0B	0.000B	0.0B
724	75-16555	1970.0	1970.9	5.4	2.1	83.1	9.4	14.2	5.0	0.906	1.0
725	75-16556	1970.9	1971.6	9.2	2.2	85.8	2.8	24.3	5.3	0.909	1.0
726	75-16557	1971.6	1972.5	16.2	1.6	74.3	7.9	43.1	3.8	0.904	2.0
727	75-16558	1972.5	1973.8	9.0	1.2	84.0	5.8	23.8	2.9	0.904	1.0
728	75-	1973.8	1978.3	0.0B	0.0B	0.0B	0.0B	30.8	0.0B	0.000B	0.0B
729	75-16559	1978.3	1979.3	14.2	0.9	80.0	4.9	37.8	2.2	0.900	1.0
730	75-16560	1979.3	1980.4	18.6	0.8	75.0	5.6	49.3	1.9	0.907	1.0
731	75-16561	1980.4	1981.0	6.4	1.5	86.2	5.9	17.0	3.6	0.906	1.0
732	75-	1981.0	1981.2	0.0B	0.0B	0.0B	0.0B	23.9	0.0B	0.000B	0.0B
733	75-16562	1981.2	1982.5	14.2	1.0	78.2	6.6	37.9	2.4	0.900	2.0
734	75-16563	1982.5	1983.5	18.1	0.8	75.8	5.3	48.1	1.9	0.903	2.0
735	75-16564	1983.5	1984.5	19.1	1.3	72.5	7.1	50.5	3.1	0.904	2.0
736	75-16565	1984.5	1985.8	21.5	1.1	70.8	6.6	56.9	2.6	0.905	4.0
737	75-16566	1985.8	1986.8	24.9	1.0	66.9	7.2	65.8	2.4	0.905	4.0
738	75-	1986.8	1990.0	0.0B	0.0B	0.0B	0.0B	51.5	0.0B	0.000B	0.0B
739	75-16567	1990.0	1991.3	14.0	0.6	82.2	3.2	37.2	1.4	0.900	2.0
740	75-16568	1991.3	1993.3	6.2	1.8	86.4	5.6	16.6	4.3	0.898	1.0
741	75-16569	1993.3	1994.3	7.0	1.4	85.9	5.7	18.6	3.5	0.897	1.0
742	75-16570	1994.3	1995.4	8.2	1.8	84.0	6.0	22.0	4.2	0.897	1.0
743	75-16571	1995.4	1996.4	8.6	2.1	82.4	6.9	22.9	5.2	0.898	1.0
744	75-16572	1996.4	1998.0	14.8	1.6	76.8	6.8	39.3	3.8	0.904	3.0
745	75-	1998.0	2011.0	0.0B	0.0B	0.0B	0.0B	40.0	0.0B	0.000B	0.0B
746	75-16573	2011.0	2012.0	15.2	2.2	74.0	8.6	40.4	5.3	0.902	1.0
747	75-16574	2012.0	2013.0	23.3	1.7	68.4	6.6	61.8	4.1	0.904	2.0
748	75-16575	2013.0	2014.4	9.3	1.9	78.9	9.9	24.4	4.6	0.910	2.0
749	75-16576	2014.4	2015.4	6.7	1.8	81.8	9.7	17.9	4.2	0.899	1.0
750	75-16577	2015.4	2016.5	7.3	1.7	84.6	6.4	19.7	4.1	0.894	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TEMPCORE
751	75-16578	2016.5	2017.6	7.4	1.6	84.4	6.6	19.9	3.8	0.898	1.0
752	75-16579	2017.6	2018.8	7.4	1.2	86.2	5.2	19.8	2.9	0.897	1.0
753	75-16580	2018.8	2020.0	8.3	1.3	84.5	5.9	22.1	3.1	0.900	1.0
754	75-16581	2020.0	2021.0	9.4	1.1	84.5	5.0	25.3	2.6	0.893	1.0
755	75-16582	2021.0	2022.0	9.1	1.3	84.5	5.1	24.2	3.1	0.899	1.0
756	75-16583	2022.0	2023.0	9.3	1.0	85.2	4.5	24.6	2.4	0.903	1.0
757	75-16584	2023.0	2024.0	7.3	0.9	86.8	5.0	19.5	2.2	0.899	1.0
758	75-16585	2024.0	2025.0	7.0	1.4	86.3	5.3	18.6	3.4	0.899	1.0
759	75-16586	2025.0	2026.0	8.6	1.6	84.4	5.4	23.2	3.8	0.895	1.0
760	75-16587	2026.0	2029.0	3.4	2.1	89.1	5.4	8.9	5.0	0.000B	1.0
761	75-16588	2029.0	2030.0	4.2	3.0	85.9	6.9	11.4	7.2	0.893	1.0
762	75-16589	2030.0	2031.0	6.6	2.9	84.3	6.2	17.6	7.0	0.894	1.0
763	75-16590	2031.0	2032.0	6.8	2.0	85.8	5.4	18.1	4.8	0.895	1.0
764	75-16591	2032.0	2033.0	6.2	2.3	83.7	7.8	16.5	5.5	0.896	1.0
765	75-16592	2033.0	2034.0	6.4	2.3	85.7	5.6	17.1	5.5	0.895	1.0
766	75-16593	2034.0	2035.0	6.2	2.4	86.0	5.4	16.5	5.8	0.894	1.0
767	75-16594	2035.0	2036.0	4.5	2.9	85.5	7.1	12.0	7.0	0.889	1.0
768	75-16595	2036.0	2037.0	4.3	2.7	83.5	9.5	11.6	6.5	0.895	1.0
769	75-16596	2037.0	2038.0	4.4	2.3	83.7	9.6	11.8	5.5	0.899	1.0
770	75-16597	2038.0	2039.0	4.6	2.4	86.0	7.0	12.4	5.8	0.893	1.0
771	75-16598	2039.0	2041.0	5.7	2.0	86.4	5.9	15.2	4.8	0.900	1.0
772	75-	2041.0	2042.0	0.0B	0.0B	0.0B	0.0B	13.7	0.0B	0.000B	0.0B
773	75-16599	2042.0	2043.0	4.5	3.1	87.6	4.8	12.2	7.4	0.896	1.0
774	75-16600	2043.0	2044.0	5.5	1.7	88.6	4.2	14.7	4.1	0.892	1.0
775	75-16601	2044.0	2045.0	4.3	1.3	89.7	4.7	11.7	3.1	0.891	1.0
776	75-16602	2045.0	2046.0	4.5	1.6	89.8	4.1	12.1	3.8	0.890	1.0
777	75-16603	2046.0	2047.0	7.1	1.6	87.0	4.3	18.9	3.8	0.896	1.0
778	75-16604	2047.0	2048.0	6.8	1.6	85.8	5.8	18.4	3.8	0.891	1.0
779	75-16605	2048.0	2049.0	6.1	2.6	86.1	5.2	16.5	6.2	0.890	1.0
780	75-16606	2049.0	2050.0	6.6	2.4	84.8	6.2	17.8	5.8	0.890	1.0
781	75-16607	2050.0	2051.2	6.8	2.1	83.9	7.2	18.2	5.0	0.892	1.0
782	75-16608	2051.2	2052.3	6.1	2.4	85.9	5.6	16.4	5.8	0.894	1.0
783	75-16609	2052.3	2053.6	6.8	1.7	88.8	2.7	18.2	4.1	0.895	1.0
784	75-16610	2053.6	2054.7	7.0	1.3	87.2	4.5	18.8	3.1	0.889	1.0
785	75-16611	2054.7	2056.0	5.1	2.3	87.3	5.3	13.8	5.5	0.885	1.0
786	75-16612	2056.0	2058.0	5.1	2.4	88.7	3.8	13.9	5.8	0.883	1.0
787	75-16613	2058.0	2060.0	4.8	1.9	88.6	4.7	12.9	4.6	0.887	1.0
788	75-16614	2060.0	2061.3	4.9	1.8	88.9	4.4	13.1	4.3	0.889	1.0
789	75-16615	2061.3	2062.4	6.1	1.5	87.5	4.9	16.4	3.6	0.893	1.0
790	75-16616	2062.4	2063.6	5.7	1.6	89.4	3.3	15.5	3.8	0.891	1.0
791	75-16617	2063.6	2064.8	5.6	1.2	90.5	2.7	15.2	2.9	0.890	1.0
792	75-16618	2064.8	2066.0	7.7	1.6	86.2	4.5	20.5	3.8	0.896	1.0
793	75-16619	2066.0	2067.2	9.5	2.2	83.6	4.7	25.3	5.3	0.897	1.0
794	75-16620	2067.2	2068.4	12.0	2.2	81.9	3.9	31.8	5.3	0.902	1.0
795	75-16621	2068.4	2069.9	8.2	1.7	87.5	2.6	21.9	4.1	0.895	1.0
796	75-16622	2069.9	2071.2	7.4	2.3	86.8	3.5	19.9	5.4	0.894	1.0
797	75-16623	2071.2	2072.4	3.2	1.5	92.7	2.6	8.5	3.6	0.894	1.0
798	75-	2072.4	2073.0	0.0B	0.0B	0.0B	0.0B	12.6	0.0B	0.000B	0.0B
799	75-16624	2073.0	2074.0	6.3	1.7	87.6	4.4	16.8	4.1	0.894	1.0
800	75-16625	2074.0	2075.4	9.3	2.1	82.7	5.9	24.8	5.0	0.901	1.0

HALE/SA E DATA ANALYSIS - U S G S(07/01/75) 10/ 3/75

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
801	75-10626	2075.4	2076.8	9.1	1.6	83.4	5.9	24.4	3.8	0.900	1.0
802	75-10627	2076.8	2079.1	9.3	1.7	83.1	5.9	24.7	4.1	0.904	1.0
803	75-	2079.1	2102.0	0.0B	0.0B	0.0B	0.0B	26.3	0.0B	0.000B	0.0B
804	75-10628	2102.0	2103.0	10.4	1.6	83.5	4.5	27.9	3.8	0.893	1.0
805	75-10629	2103.0	2104.1	9.9	1.6	83.6	4.9	26.6	3.8	0.894	1.0
806	75-10630	2104.1	2105.4	7.9	2.3	85.0	4.8	21.2	5.5	0.897	1.0
807	75-10631	2105.4	2106.7	10.5	1.2	84.9	3.4	28.0	2.9	0.902	1.0
808	75-10632	2106.7	2107.8	11.0	1.9	82.3	4.8	29.2	4.5	0.904	1.0
809	75-10633	2107.8	2108.4	16.2	1.5	75.2	7.1	43.0	3.6	0.906	4.0
810	75-10634	2108.4	2109.6	10.3	2.8	80.4	6.5	27.4	6.8	0.900	1.0
811	75-10635	2109.6	2110.8	10.3	2.0	79.9	7.2	27.5	6.2	0.900	1.0
812	75-10636	2110.8	2112.0	9.7	2.9	80.5	6.9	26.0	7.0	0.899	1.0
813	75-10637	2112.0	2113.0	9.8	2.4	81.0	6.8	26.3	5.8	0.898	1.0
814	75-10638	2113.0	2114.0	10.0	1.6	81.6	6.8	26.6	3.8	0.900	1.0
815	75-10639	2114.0	2115.0	10.2	2.3	81.0	6.5	26.9	5.5	0.911	1.0
816	75-10640	2115.0	2116.0	6.9	2.2	87.4	3.5	18.4	5.3	0.900	1.0
817	75-10641	2116.0	2117.0	5.9	2.0	89.5	2.6	15.7	4.6	0.897	1.0
818	75-10642	2117.0	2118.0	4.4	2.1	90.3	3.4	11.8	5.0	0.898	1.0
819	75-10643	2118.0	2119.0	4.0	2.2	92.9	0.9	10.6	5.3	0.895	1.0
820	75-10644	2119.0	2120.0	7.6	1.7	88.4	2.1	20.7	4.1	0.903	1.0
821	75-	2120.0	2120.2	0.0B	0.0B	0.0B	0.0B	18.7	0.0B	0.000B	0.0B
822	75-10645	2120.2	2121.5	6.2	1.7	91.0	1.1	18.7	4.1	0.898	1.0
823	75-10646	2121.5	2122.5	7.1	1.1	89.3	2.5	19.1	2.6	0.894	1.0
824	75-10647	2122.5	2123.7	6.7	1.8	89.1	2.4	17.8	4.3	0.898	1.0
825	75-10648	2123.7	2124.9	8.9	2.1	86.0	3.0	23.9	5.0	0.898	1.0
826	75-	2124.9	2125.1	0.0B	0.0B	0.0B	0.0B	20.5	0.0B	0.000B	0.0B
827	75-10649	2125.1	2126.5	6.5	1.6	89.9	2.0	17.2	3.8	0.898	1.0
828	75-10650	2126.5	2127.6	7.4	1.5	88.7	2.4	19.7	3.6	0.901	1.0
829	75-10651	2127.6	2128.7	7.1	1.6	88.2	3.1	18.9	3.8	0.899	1.0
830	75-10652	2128.7	2129.8	8.7	2.0	84.6	4.7	23.3	4.8	0.897	1.0
831	75-10653	2129.8	2131.0	9.4	1.9	83.5	5.2	25.0	4.6	0.899	1.0
832	75-10654	2131.0	2132.2	8.2	1.0	86.7	4.1	22.0	2.4	0.895	1.0
833	75-10655	2132.2	2133.2	8.4	1.1	87.5	3.0	22.4	2.6	0.893	1.0
834	75-10656	2133.2	2135.0	11.4	2.5	77.8	8.3	30.1	6.0	0.906	1.0
835	75-10657	2135.0	2136.0	10.6	1.6	81.5	6.3	28.2	3.8	0.899	1.0
836	75-10658	2136.0	2137.0	12.1	1.2	80.8	5.9	32.4	2.9	0.898	1.0
837	75-10659	2137.0	2138.0	11.0	2.4	77.8	8.8	29.2	5.8	0.900	1.0
838	75-10660	2138.0	2139.0	9.9	3.4	76.8	9.9	26.5	8.1	0.899	1.0
839	75-10661	2139.0	2140.0	11.6	1.7	80.9	5.8	30.9	4.1	0.898	1.0
840	75-10662	2140.0	2140.8	12.0	2.3	77.4	8.3	31.8	5.5	0.904	1.0
841	75-10663	2140.8	2142.3	9.2	3.6	75.1	11.9	24.4	9.1	0.909	1.0
842	75-10664	2142.3	2143.8	12.7	1.7	79.5	6.1	33.6	4.1	0.904	1.0
843	75-10665	2143.8	2144.5	14.8	1.9	75.9	7.4	36.9	4.4	0.915	1.0
844	75-10666	2144.5	2145.8	15.6	1.2	75.6	7.6	40.9	2.9	0.914	1.0
845	75-10667	2145.8	2147.0	2.6	8.0	67.6	21.8	6.8	19.2	0.926	1.0
846	75-10668	2147.0	2148.0	4.9	7.1	69.6	18.4	13.1	17.0	0.901	1.0
847	75-10669	2148.0	2149.0	15.3	2.4	73.7	8.6	40.6	5.7	0.906	1.0
848	75-10670	2149.0	2150.0	14.4	2.0	76.5	7.1	38.0	4.8	0.910	1.0
849	75-10671	2150.0	2151.0	15.5	1.8	75.1	7.6	40.9	4.3	0.914	1.0
850	75-10672	2151.0	2152.0	15.0	2.4	74.4	8.2	39.3	5.6	0.914	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
851	75-16673	2152.0	2153.0	17.1	2.2	72.5	8.2	44.7	5.3	0.914	2.0
852	75-16674	2153.0	2154.0	20.7	2.0	68.9	8.4	54.2	4.6	0.916	2.0
853	75-16675	2154.0	2155.0	11.4	2.2	77.9	8.5	30.0	5.3	0.910	1.0
854	75-16676	2155.0	2156.0	15.7	2.0	75.6	6.7	41.5	4.6	0.907	1.0
855	75-16677	2156.0	2157.0	14.9	1.8	76.9	6.4	39.4	4.3	0.910	1.0
856	75-16678	2157.0	2158.0	10.2	1.4	79.0	9.4	26.8	3.4	0.911	1.0
857	75-16679	2158.0	2159.0	10.2	1.6	83.0	5.2	27.1	3.8	0.907	1.0
858	75-16680	2159.0	2160.0	7.7	3.9	77.1	11.3	20.2	9.3	0.910	1.0
859	75-16681	2160.0	2161.0	11.8	1.3	81.6	5.3	31.3	3.1	0.904	1.0
860	75-16682	2161.0	2162.0	13.6	1.8	78.1	6.5	35.9	4.3	0.909	1.0
861	75-16683	2162.0	2163.0	14.0	1.5	76.8	5.7	36.7	3.6	0.911	1.0
862	75-16684	2163.0	2164.0	13.9	1.7	78.1	6.3	36.4	4.1	0.915	1.0
863	75-16685	2164.0	2165.0	13.5	1.7	79.3	5.5	35.6	4.0	0.909	1.0
864	75-16686	2165.0	2166.0	13.6	1.7	77.3	7.4	35.5	4.1	0.910	1.0
865	75-16687	2166.0	2167.0	14.2	2.0	76.4	7.4	37.2	4.8	0.913	1.0
866	75-16688	2167.0	2168.5	13.8	2.6	75.1	8.5	36.4	6.2	0.911	1.0
867	75-16689	2168.5	2170.0	14.0	2.5	74.7	8.8	36.8	6.0	0.911	1.0
868	75-16690	2170.0	2171.0	14.8	2.4	72.4	10.4	38.8	5.8	0.912	1.0
869	75-16691	2171.0	2172.0	15.4	1.9	73.5	9.2	40.4	4.6	0.915	1.0
870	75-16692	2172.0	2173.0	15.7	1.6	75.0	7.5	41.2	4.3	0.914	1.0
871	75-16693	2173.0	2174.0	13.5	1.6	78.4	6.5	35.3	3.8	0.916	1.0
872	75-16694	2174.0	2175.0	8.2	1.9	81.2	8.7	21.4	4.6	0.918	1.0
873	75-16695	2175.0	2176.0	9.3	2.1	81.6	7.0	24.2	5.0	0.916	1.0
874	75-16696	2176.0	2177.0	10.6	1.5	81.1	6.8	27.9	3.6	0.914	1.0
875	75-16697	2177.0	2178.0	9.9	1.4	82.8	5.9	25.9	3.4	0.914	1.0
876	75-16698	2178.0	2179.0	10.4	2.0	80.9	6.7	27.4	4.8	0.914	1.0
877	75-16699	2179.0	2180.0	11.3	1.4	81.6	5.7	29.7	3.3	0.912	1.0
878	75-16700	2180.0	2181.0	11.4	1.3	82.1	5.2	29.9	3.1	0.913	1.0
879	75-16701	2181.0	2182.0	11.2	1.5	83.1	4.2	29.8	3.5	0.908	1.0
880	75-16702	2182.0	2183.0	7.2	1.4	86.5	2.9	19.5	3.4	0.907	1.0
881	75-16703	2183.0	2184.0	6.2	1.6	88.2	4.0	16.9	3.7	0.904	1.0
882	75-16704	2184.0	2185.0	6.6	1.7	87.8	3.9	17.7	4.1	0.890	1.0
883	75-16705	2185.0	2186.0	7.4	1.9	84.8	5.9	19.6	4.6	0.899	1.0
884	75-16706	2186.0	2187.0	14.6	2.7	74.5	6.2	38.5	6.5	0.910	1.0
885	75-16707	2187.0	2188.0	22.4	1.9	67.7	8.0	58.6	4.6	0.910	4.0
886	75-16708	2188.0	2189.0	18.2	1.1	75.3	5.4	47.7	2.6	0.910	4.0
887	75-16709	2189.0	2190.0	13.7	0.9	80.7	4.7	36.3	2.2	0.905	2.0
888	75-16710	2190.0	2191.0	15.6	1.4	77.3	5.7	41.5	3.4	0.901	1.0
889	75-16711	2191.0	2192.0	11.1	1.6	83.9	3.4	29.7	3.8	0.896	1.0
890	75-16712	2192.0	2193.0	13.5	0.8	83.7	2.0	36.0	1.9	0.898	1.0
891	75-16713	2193.0	2194.0	13.6	1.7	79.9	4.8	36.2	4.1	0.903	1.0
892	75-16714	2194.0	2195.0	14.3	1.7	79.5	4.5	38.0	4.1	0.900	1.0
893	75-16715	2195.0	2196.0	15.4	1.8	78.3	4.5	40.7	4.3	0.904	1.0
894	75-16716	2196.0	2197.0	14.3	2.3	78.9	4.5	38.0	5.5	0.902	1.0
895	75-16717	2197.0	2198.0	13.3	2.5	82.3	1.9	35.4	6.0	0.903	1.0
896	75-16718	2198.0	2199.0	17.3	2.4	74.5	5.8	45.5	5.8	0.914	1.0
897	75-16719	2199.0	2200.2	25.0	1.7	67.3	6.0	66.1	4.0	0.908	1.0
898	75-16720	2200.2	2201.5	10.6	7.5	77.3	4.6	28.0	18.0	0.909	1.0
899	75-16721	2201.5	2202.2	20.9	2.5	66.2	10.4	55.3	6.0	0.907	1.0
900	75-16722	2202.2	2203.1	12.1	2.6	78.0	7.3	32.2	6.2	0.901	1.0

HALE/BA ...E TA ANALYSIS - U S G S(07/01/75) D...E 10/ 3/75

USGS COREHOLE CR-1 15 96W 31

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
901	75-16723	2203.1	2204.2	8.7	3.3	78.5	9.5	23.1	7.9	0.902	1.0
902	75-16724	2204.2	2205.0	7.0	5.1	72.4	15.5	18.6	12.2	0.904	1.0
903	75-16725	2205.0	2206.0	6.5	5.9	72.0	15.6	17.4	14.1	0.908	1.0
904	75-16726	2206.0	2206.5	1.9	8.5	63.9	25.7	4.8	20.4	0.000B	1.0
905	75-16727	2206.5	2207.5	11.6	2.2	78.8	7.2	31.2	5.3	0.905	1.0
906	75-16728	2207.5	2208.5	10.8	2.3	80.1	6.8	28.7	5.5	0.899	1.0
907	75-16729	2208.5	2209.3	10.2	1.9	80.6	7.3	27.3	4.6	0.898	1.0
908	75-16730	2209.3	2210.3	11.1	2.1	77.8	9.0	29.7	5.0	0.899	1.0
909	75-16731	2210.3	2211.3	11.1	2.3	80.0	6.6	29.7	5.5	0.901	1.0
910	75-16732	2211.3	2212.3	11.3	1.9	78.9	7.9	29.9	4.6	0.905	1.0
911	75-16733	2212.3	2213.3	11.3	1.9	80.8	6.0	29.8	4.6	0.911	1.0
912	75-16734	2213.3	2214.3	11.2	2.2	81.2	5.4	29.6	5.3	0.898	1.0
913	75-16735	2214.3	2215.0	5.0	6.4	72.3	16.3	13.3	15.3	0.901	1.0
914	75-16736	2215.0	2216.0	1.9	8.5	66.2	23.4	5.0	20.4	0.000B	1.0
915	75-16737	2216.0	2217.0	11.5	1.8	79.3	7.4	30.7	4.3	0.901	1.0
916	75-16738	2217.0	2218.0	11.9	2.1	78.6	7.4	31.6	5.0	0.902	1.0
917	75-16739	2218.0	2218.6	10.1	2.7	80.0	7.2	26.7	6.5	0.903	1.0
918	75-16740	2218.6	2219.8	4.3	6.2	73.7	15.8	11.5	14.9	0.894	1.0
919	75-16741	2219.8	2221.4	11.9	3.1	73.6	11.4	31.5	7.4	0.906	1.0
920	75-	2221.4	2221.6	0.0B	0.0B	0.0B	0.0B	30.4	0.0B	0.000B	0.0B
921	75-16742	2221.6	2223.0	11.1	2.1	79.8	7.0	29.3	5.0	0.911	1.0
922	75-16743	2223.0	2224.0	10.1	2.0	79.7	8.2	26.5	4.8	0.913	1.0
923	75-16744	2224.0	2225.0	12.1	2.1	78.0	7.8	31.6	5.0	0.916	1.0
924	75-16745	2225.0	2226.0	11.4	2.0	80.6	6.0	30.1	4.8	0.906	1.0
925	75-16746	2226.0	2227.0	12.8	2.1	77.8	7.3	33.7	5.0	0.914	1.0
926	75-16747	2227.0	2228.0	14.4	1.9	75.5	8.2	37.9	4.6	0.911	1.0
927	75-16748	2228.0	2229.0	13.3	2.2	76.7	7.8	34.9	5.3	0.910	1.0
928	75-16749	2229.0	2230.0	10.0	1.6	83.1	5.3	26.7	3.8	0.903	1.0
929	75-16750	2230.0	2231.0	9.6	1.5	83.1	5.8	25.3	3.6	0.906	1.0
930	75-16751	2231.0	2231.8	8.0	1.9	84.9	5.2	19.4	4.6	0.996	1.0
931	75-16752	2231.8	2232.8	11.0	1.1	83.3	4.6	29.4	2.6	0.896	1.0
932	75-16753	2232.8	2233.6	10.8	1.4	82.2	5.6	28.7	3.4	0.899	1.0
933	75-16754	2233.6	2235.0	8.2	4.0	77.2	10.6	22.0	9.6	0.895	1.0
934	75-16755	2235.0	2236.0	11.7	1.7	81.0	5.6	31.1	4.1	0.904	1.0
935	75-16756	2236.0	2237.0	11.9	1.4	81.2	5.5	31.6	3.4	0.904	1.0
936	75-16757	2237.0	2238.0	11.5	1.4	84.0	3.1	30.8	3.4	0.896	1.0
937	75-16758	2238.0	2239.0	10.6	1.3	81.0	6.9	28.9	3.1	0.898	1.0
938	75-16759	2239.0	2240.0	9.8	2.7	77.6	9.9	26.3	6.5	0.896	1.0
939	75-16760	2240.0	2241.0	10.2	1.7	81.8	6.3	27.3	4.1	0.891	1.0
940	75-16761	2241.0	2242.0	9.1	2.5	80.7	7.7	24.4	6.0	0.895	1.0
941	75-16762	2242.0	2243.0	10.2	2.6	78.0	9.2	27.1	6.2	0.905	1.0
942	75-16763	2243.0	2244.0	12.3	2.4	77.6	7.7	32.5	5.8	0.907	1.0
943	75-16764	2244.0	2245.0	7.8	3.2	80.0	9.0	20.9	7.7	0.897	1.0
944	75-16765	2245.0	2246.0	12.9	2.0	78.6	6.5	34.1	4.8	0.908	1.0
945	75-16766	2246.0	2247.0	10.2	1.4	86.1	2.3	27.3	3.4	0.896	1.0
946	75-16767	2247.0	2248.0	13.5	1.5	78.7	6.4	35.6	3.6	0.906	1.0
947	75-16768	2248.0	2249.0	12.7	1.9	77.9	7.5	33.8	4.6	0.899	1.0
948	75-16769	2249.0	2250.0	12.7	2.0	78.6	6.7	34.0	4.8	0.896	1.0
949	75-16770	2250.0	2251.0	13.0	1.7	79.1	6.2	34.9	4.1	0.894	1.0
950	75-16771	2251.0	2252.0	12.8	1.9	76.6	8.7	34.1	4.6	0.903	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
951	75-16772	2252.0	2253.0	14.4	1.8	76.6	7.2	38.3	4.8	0.899	1.0
952	75-16773	2253.0	2254.0	13.4	2.2	76.5	7.9	35.9	5.3	0.896	1.0
953	75-16774	2254.0	2255.0	13.5	1.9	77.5	7.1	36.0	4.6	0.901	1.0
954	75-16775	2255.0	2256.0	12.4	1.9	78.8	6.9	33.4	4.6	0.893	1.0
955	75-16776	2256.0	2257.0	12.9	1.5	79.0	6.6	34.3	3.6	0.903	1.0
956	75-16777	2257.0	2258.0	13.4	1.4	78.7	6.5	35.6	3.4	0.905	1.0
957	75-16778	2258.0	2259.0	14.6	1.3	78.3	5.8	39.0	3.1	0.897	1.0
958	75-16779	2259.0	2260.0	13.9	1.4	77.9	6.8	36.9	3.4	0.905	1.0
959	75-16780	2260.0	2261.3	14.0	1.4	77.8	6.8	37.0	3.4	0.906	1.0
960	75-16781	2261.3	2262.8	14.3	1.4	78.5	5.8	37.8	3.4	0.908	1.0
961	75-16782	2262.8	2264.0	12.9	1.8	77.9	7.4	34.0	4.3	0.907	1.0
962	75-16783	2264.0	2265.0	7.8	2.5	78.8	10.9	20.9	6.0	0.898	1.0
963	75-16784	2265.0	2266.0	12.7	1.4	77.6	8.3	33.5	3.4	0.910	1.0
964	75-16785	2266.0	2267.0	11.5	1.8	79.5	7.2	30.4	4.3	0.906	1.0
965	75-16786	2267.0	2268.0	8.4	2.5	80.7	8.4	22.6	6.0	0.898	1.0
966	75-16787	2268.0	2269.0	7.6	1.8	88.8	1.8	20.0	4.3	0.906	1.0
967	75-16788	2269.0	2270.0	9.2	2.6	85.7	2.5	24.6	6.2	0.898	1.0
968	75-16789	2270.0	2271.0	14.9	1.7	80.3	3.1	39.3	4.1	0.910	1.0
969	75-16790	2271.0	2272.0	12.7	1.1	84.0	2.2	33.3	2.5	0.916	1.0
970	75-16791	2272.0	2273.0	10.8	1.2	85.1	2.9	28.4	2.9	0.915	1.0
971	75-16792	2273.0	2274.0	9.9	1.0	87.8	1.3	26.1	2.4	0.914	1.0
972	75-16793	2274.0	2275.0	10.4	0.9	86.6	2.1	27.5	2.2	0.902	1.0
973	75-16794	2275.0	2276.0	11.3	0.9	84.6	3.2	29.7	2.2	0.911	1.0
974	75-16795	2276.0	2277.0	14.2	1.0	81.9	2.9	37.2	2.4	0.913	1.0
975	75-16796	2277.0	2278.0	14.8	1.2	80.8	3.2	38.7	2.9	0.915	1.0
976	75-16797	2278.0	2279.0	13.0	1.1	83.0	2.3	34.1	2.6	0.913	1.0
977	75-16798	2279.0	2280.0	13.6	0.9	82.1	3.4	35.5	2.2	0.915	1.0
978	75-16799	2280.0	2281.0	12.9	1.1	81.5	4.5	34.3	2.6	0.904	1.0
979	75-16800	2281.0	2282.3	13.3	0.7	82.5	3.5	35.1	1.7	0.908	1.0
980	75-16801	2282.3	2283.6	9.1	0.9	87.5	2.5	24.1	2.2	0.908	1.0
981	75-16802	2283.6	2285.0	7.8	1.2	87.1	3.9	21.0	2.9	0.894	1.0
982	75-16803	2285.0	2286.0	9.1	2.3	84.3	4.3	24.1	5.5	0.901	1.0
983	75-16804	2286.0	2287.0	10.4	2.1	79.6	7.7	27.3	5.0	0.910	1.0
984	75-16805	2287.0	2288.0	15.1	1.2	77.3	6.4	39.7	2.9	0.914	1.0
985	75-16806	2288.0	2289.0	19.0	1.0	73.7	6.3	50.6	2.4	0.901	1.0
986	75-16807	2289.0	2290.0	21.0	1.5	70.6	6.9	55.6	3.6	0.906	1.0
987	75-16808	2290.0	2291.0	16.4	1.3	75.7	6.6	43.6	3.1	0.900	2.0
988	75-16809	2291.0	2292.3	11.4	1.0	83.2	4.4	30.1	2.4	0.906	1.0
989	75-16810	2292.3	2293.0	9.6	0.9	85.0	4.3	25.7	2.2	0.908	1.0
990	75-16811	2293.0	2294.0	7.2	0.8	89.5	2.5	19.4	1.9	0.888	1.0
991	75-16812	2294.0	2295.0	7.1	0.8	89.6	2.5	19.3	1.9	0.887	1.0
992	75-16813	2295.0	2296.0	5.8	1.8	86.5	5.9	15.6	4.3	0.886	1.0
993	75-16814	2296.0	2297.0	5.3	1.9	88.1	4.7	14.5	4.6	0.880	1.0
994	75-16815	2297.0	2298.0	5.1	1.9	87.3	5.7	13.9	4.6	0.882	1.0
995	75-16816	2298.0	2299.0	5.0	1.8	88.4	6.8	13.6	4.3	0.887	1.0
996	75-16817	2299.0	2300.0	5.0	1.6	88.3	4.9	13.5	4.3	0.885	1.0
997	75-16818	2300.0	2301.0	6.3	1.5	86.5	5.7	17.0	3.6	0.888	1.0
998	75-16819	2301.0	2302.0	8.1	1.2	83.6	7.1	21.9	3.0	0.880	1.0
999	75-16820	2302.0	2303.0	7.9	1.4	84.3	6.4	21.2	3.4	0.891	1.0
000	75-16821	2303.0	2304.0	7.2	0.9	88.3	3.6	19.6	2.1	0.885	1.0

HALE/SA E TA ANALYSIS - U S G S(07/01/75)

USGS COREHOLE CR-1 1S 96W 31

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
001	75-10822	2304.0	2305.0	9.4	1.5	83.3	5.8	24.5	3.8	0.890	1.0
002	75-10823	2305.0	2306.0	7.7	2.7	81.1	8.5	20.7	6.5	0.869	1.0
003	75-10824	2306.0	2307.0	5.2	3.2	81.1	10.5	14.1	7.7	0.892	1.0
004	75-10825	2307.0	2308.0	5.9	3.3	81.1	9.7	15.9	7.9	0.888	1.0
005	75-10826	2308.0	2309.0	6.6	2.6	81.5	9.3	17.8	6.2	0.893	1.0
006	75-10827	2309.0	2310.0	6.4	2.9	80.6	9.9	17.2	7.0	0.895	1.0
007	75-10828	2310.0	2311.0	6.2	2.9	82.2	8.7	16.8	7.0	0.889	1.0
008	75-10829	2311.0	2312.0	5.7	2.3	84.1	7.9	15.2	5.5	0.895	1.0
009	75-10830	2312.0	2313.0	5.8	2.1	82.1	10.0	15.5	5.0	0.894	1.0
010	75-10831	2313.0	2314.0	5.4	2.0	83.1	9.5	14.6	4.8	0.895	1.0
011	75-10832	2314.0	2315.0	6.7	2.2	82.2	8.9	17.9	5.3	0.899	1.0
012	75-10833	2315.0	2316.0	10.1	2.1	79.3	8.5	26.6	5.0	0.909	1.0
013	75-10834	2316.0	2317.0	6.2	2.2	84.0	7.6	16.5	5.3	0.903	1.0
014	75-10835	2317.0	2318.0	7.5	2.3	82.3	7.9	19.8	5.5	0.904	1.0
015	75-10836	2318.0	2319.0	8.0	2.6	82.2	7.2	21.1	6.2	0.905	1.0
016	75-10837	2319.0	2320.0	5.1	1.3	90.5	3.1	13.8	3.1	0.888	1.0
017	75-10838	2320.0	2321.0	4.8	1.4	89.2	4.6	12.9	3.4	0.888	1.0
018	75-10839	2321.0	2322.0	6.8	1.5	86.7	5.0	18.0	3.6	0.899	1.0
019	75-10840	2322.0	2323.0	5.0	1.6	89.4	4.0	13.3	3.8	0.894	1.0
020	75-10841	2323.0	2324.0	5.2	2.1	86.4	6.3	13.9	5.0	0.893	1.0
021	75-10842	2324.0	2325.0	7.2	1.7	82.8	8.3	19.1	4.1	0.896	1.0
022	75-10843	2325.0	2326.0	7.0	2.2	82.7	8.1	18.7	5.3	0.899	1.0
023	75-10844	2326.0	2327.0	10.9	2.6	77.6	8.9	29.2	6.2	0.897	1.0
024	75-10845	2327.0	2328.0	7.0	3.5	77.7	11.8	18.8	8.4	0.899	1.0
025	75-10846	2328.0	2329.0	8.2	1.6	84.9	5.3	22.1	3.8	0.894	1.0
026	75-10847	2329.0	2330.0	7.3	2.4	82.6	7.7	19.4	5.8	0.904	1.0
027	75-10848	2330.0	2331.0	7.5	2.6	82.6	7.3	19.9	6.2	0.898	1.0
028	75-10849	2331.0	2332.0	6.5	2.3	84.3	6.9	17.3	5.5	0.897	1.0
029	75-10850	2332.0	2333.0	6.6	3.4	81.0	9.0	17.8	8.1	0.887	1.0
030	75-10851	2333.0	2334.0	5.4	2.2	85.4	7.2	14.0	5.3	0.895	1.0
031	75-10852	2334.0	2335.0	2.6	5.2	75.9	16.3	7.0	12.5	0.901	1.0
032	75-10853	2335.0	2336.0	8.6	3.5	76.8	11.1	22.9	8.4	0.902	1.0
033	75-10854	2336.0	2337.0	12.9	2.4	76.1	8.6	34.0	5.8	0.908	1.0
034	75-10855	2337.0	2338.0	10.5	3.0	77.0	9.5	27.9	7.2	0.899	1.0
035	75-10856	2338.0	2339.0	9.2	2.5	79.1	9.2	24.5	6.0	0.902	1.0
036	75-10857	2339.0	2340.0	4.5	5.7	75.1	14.7	11.9	13.7	0.903	1.0
037	75-10858	2340.0	2341.0	17.6	1.8	73.6	7.0	47.1	4.3	0.896	1.0
038	75-10859	2341.0	2342.0	15.3	2.4	74.1	8.2	40.9	5.8	0.897	1.0
039	75-10860	2342.0	2343.0	11.0	5.5	68.9	14.6	29.2	13.2	0.901	1.0
040	75-10861	2343.0	2344.0	7.8	6.0	69.7	16.5	20.7	14.4	0.902	1.0
041	75-10862	2344.0	2345.0	7.2	6.0	71.0	15.8	19.4	14.4	0.891	1.0
042	75-10863	2345.0	2346.0	13.3	1.9	78.8	6.0	35.2	4.6	0.908	1.0
043	75-10864	2346.0	2347.0	12.1	2.4	75.6	9.9	32.2	5.8	0.901	1.0
044	75-10865	2347.0	2348.0	16.0	1.5	76.0	6.5	42.3	3.6	0.906	1.0
045	75-10866	2348.0	2349.0	10.1	4.5	72.5	12.9	26.8	10.8	0.902	1.0
046	75-10867	2349.0	2350.0	15.6	1.6	76.5	6.3	41.7	3.8	0.899	1.0
047	75-10868	2350.0	2351.0	15.7	1.4	77.1	5.8	41.9	3.4	0.900	1.0
048	75-10869	2351.0	2352.0	14.9	1.6	77.3	6.2	39.7	3.8	0.900	1.0
049	75-10870	2352.0	2353.0	8.5	4.7	74.5	12.3	22.5	11.3	0.902	1.0
050	75-10871	2353.0	2354.0	13.7	2.1	76.7	7.5	36.4	5.0	0.903	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
1051	75-16872	2354.0	2355.0	14.0	1.9	75.0	9.1	37.2	4.6	0.903	1.0
1052	75-16873	2355.0	2356.0	13.7	2.0	75.2	9.1	36.3	4.8	0.905	1.0
1053	75-16874	2356.0	2357.0	14.0	1.9	76.8	7.3	37.3	4.6	0.901	1.0
1054	75-16875	2357.0	2358.0	10.3	3.5	75.4	10.8	27.3	8.4	0.901	1.0
1055	75-16876	2358.0	2359.0	8.1	4.9	73.5	13.5	21.4	11.7	0.905	1.0
1056	75-16877	2359.0	2360.0	5.3	6.7	72.2	15.8	14.2	16.1	0.902	1.0
1057	75-16878	2360.0	2361.0	3.0	8.0	67.4	21.8	8.0	19.2	0.908	1.0
1058	75-16879	2361.0	2362.0	6.3	6.4	69.7	17.6	16.7	15.3	0.901	1.0
1059	75-16880	2362.0	2363.0	13.5	3.2	74.1	9.2	35.8	7.7	0.903	1.0
1060	75-16881	2363.0	2364.0	5.9	7.2	68.2	18.7	15.6	17.3	0.903	1.0
1061	75-16882	2364.0	2365.0	17.9	1.9	72.8	7.4	47.9	4.6	0.897	4.0
1062	75-16883	2365.0	2366.0	13.9	2.3	75.5	8.3	36.9	5.5	0.902	1.0
1063	75-16884	2366.0	2367.0	13.6	1.3	79.4	5.7	36.2	3.1	0.902	1.0
1064	75-16885	2367.0	2368.0	14.0	3.5	71.2	11.3	37.3	8.4	0.900	1.0
1065	75-16886	2368.0	2369.0	4.7	7.3	67.1	20.9	12.5	17.5	0.898	1.0
1066	75-16887	2369.0	2370.0	10.2	3.3	76.2	10.3	27.2	7.9	0.900	1.0
1067	75-16888	2370.0	2371.0	10.0	4.5	72.1	13.4	26.8	10.8	0.898	1.0
1068	75-16889	2371.0	2372.0	10.5	4.7	71.3	13.5	27.9	11.3	0.904	1.0
1069	75-16890	2372.0	2373.0	8.2	3.8	77.2	10.8	21.8	9.1	0.900	1.0
1070	75-16891	2373.0	2374.0	6.5	4.5	76.0	13.0	17.2	10.8	0.899	1.0
1071	75-16892	2374.0	2375.0	11.4	2.2	78.0	8.4	30.3	5.3	0.902	1.0
1072	75-16893	2375.0	2376.0	9.7	3.0	77.3	10.0	25.9	7.2	0.902	1.0
1073	75-16894	2376.0	2377.0	7.7	4.1	75.1	13.1	20.6	9.8	0.903	1.0
1074	75-16895	2377.0	2378.0	5.6	6.5	70.9	17.0	14.7	15.6	0.905	1.0
1075	75-16896	2378.0	2379.0	8.1	4.5	75.7	11.7	21.4	10.8	0.903	1.0
1076	75-16897	2379.0	2380.0	7.8	4.5	75.3	12.4	20.8	10.8	0.901	1.0
1077	75-16898	2380.0	2381.0	7.2	3.9	78.1	10.8	19.1	9.3	0.905	1.0
1078	75-16899	2381.0	2382.0	6.8	4.7	75.6	12.9	18.1	11.3	0.907	1.0
1079	75-16900	2382.0	2383.0	4.7	5.6	74.8	14.9	12.4	13.4	0.907	1.0
1080	75-16901	2383.0	2384.0	4.0	7.0	71.7	17.3	10.6	16.8	0.906	1.0
1081	75-16902	2384.0	2385.0	7.9	2.9	80.8	8.4	20.9	7.0	0.904	1.0
1082	75-16903	2385.0	2386.0	5.6	6.0	71.9	16.5	14.8	14.4	0.908	1.0
1083	75-16904	2386.0	2387.0	5.5	5.0	76.0	13.5	14.5	12.0	0.907	1.0
1084	75-16905	2387.0	2388.0	6.7	4.0	76.9	12.4	17.9	9.6	0.905	1.0
1085	75-16906	2388.0	2389.0	7.7	4.0	76.5	11.8	20.4	9.6	0.906	1.0
1086	75-16907	2389.0	2390.0	8.5	3.3	78.7	9.5	22.6	7.9	0.904	1.0
1087	75-16908	2390.0	2391.0	10.9	0.8	85.1	3.2	29.5	1.9	0.887	1.0
1088	75-16909	2391.0	2392.0	10.7	1.2	83.6	4.5	28.9	2.9	0.887	1.0
1089	75-16910	2392.0	2393.1	8.1	3.0	78.7	10.2	21.6	7.2	0.893	1.0
1090	75-16911	2393.1	2394.0	11.4	0.7	84.4	3.5	30.6	1.7	0.889	1.0
1091	75-16912	2394.0	2395.1	11.4	0.9	82.8	4.9	30.4	2.2	0.897	1.0
1092	75-16913	2395.1	2396.8	10.0	3.0	77.5	9.5	26.8	7.2	0.896	1.0
1093	75-16914	2396.8	2398.0	11.1	1.8	81.5	5.6	30.1	4.3	0.887	1.0
1094	75-16915	2398.0	2399.0	11.9	0.7	84.2	3.2	32.2	1.7	0.889	1.0
1095	75-16916	2399.0	2400.0	11.1	0.6	84.7	3.6	30.1	1.4	0.887	1.0
1096	75-16917	2400.0	2401.0	11.3	0.5	84.5	3.7	30.3	1.2	0.892	1.0
1097	75-16918	2401.0	2402.0	10.7	1.0	84.3	4.0	29.0	2.4	0.887	1.0
1098	75-16919	2402.0	2403.0	11.5	0.7	84.4	3.4	31.1	1.7	0.886	1.0
1099	75-16920	2403.0	2404.2	12.2	0.5	82.6	4.7	32.7	1.2	0.894	1.0
1100	75-16921	2404.2	2406.1	4.6	7.9	67.8	19.7	12.4	18.9	0.896	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
101	75-16922	2406.1	2407.1	5.9	6.3	62.8	25.0	15.6	19.9	0.908	1.0
102	75-16923	2407.1	2408.1	7.5	7.0	66.3	19.2	19.7	16.8	0.908	1.0
103	75-16924	2408.1	2409.2	14.2	2.0	75.8	8.0	37.6	4.8	0.908	1.0
104	75-16925	2409.2	2410.2	9.4	2.0	79.7	8.9	24.7	4.8	0.909	1.0
105	75-16926	2410.2	2411.2	8.2	1.8	84.9	5.1	21.9	4.3	0.900	1.0
106	75-16927	2411.2	2412.0	9.0	3.7	76.2	11.1	23.8	8.9	0.905	1.0
107	75-16928	2412.0	2413.2	11.6	3.6	73.2	11.6	30.8	8.6	0.904	1.0
108	75-16929	2413.2	2414.6	14.9	1.1	78.6	5.4	39.4	2.6	0.911	1.0
109	75-16930	2414.6	2415.8	16.6	1.1	77.1	5.2	43.3	2.6	0.917	1.0
110	75-16931	2415.8	2417.0	15.0	1.1	78.1	5.8	39.4	4.6	0.918	1.0
111	75-16932	2417.0	2418.0	13.2	1.5	80.1	5.2	35.4	3.6	0.903	1.0
112	75-16933	2418.0	2419.0	15.0	0.9	79.8	4.3	39.7	2.4	0.904	1.0
113	75-16934	2419.0	2420.0	15.0	1.1	78.9	5.0	39.7	2.6	0.908	1.0
114	75-16935	2420.0	2421.3	14.6	1.1	78.5	5.8	38.7	2.6	0.907	1.0
115	75-16936	2421.3	2422.8	19.3	0.8	75.3	4.6	51.3	1.9	0.903	1.0
116	75-16937	2422.8	2423.8	14.1	1.0	80.2	4.7	37.2	2.4	0.906	1.0
117	75-16938	2423.8	2424.8	14.2	0.9	80.7	4.2	37.7	2.2	0.906	1.0
118	75-16939	2424.8	2425.9	14.0	0.8	80.4	4.8	36.7	1.9	0.911	1.0
119	75-16940	2425.9	2427.0	10.4	1.2	84.0	4.4	27.7	2.9	0.902	1.0
120	75-16941	2427.0	2428.0	8.9	1.3	84.9	4.9	23.8	3.1	0.898	1.0
121	75-16942	2428.0	2429.0	6.8	1.2	86.2	5.8	18.0	2.9	0.900	1.0
122	75-16943	2429.0	2430.0	11.5	1.0	81.1	6.4	30.5	2.4	0.903	1.0
123	75-16944	2430.0	2431.0	8.2	0.4	89.2	2.2	21.9	1.0	0.902	1.0
124	75-16945	2431.0	2432.0	6.9	0.2	91.3	1.6	18.1	0.5	0.913	1.0
125	75-16946	2432.0	2433.0	6.8	0.4	90.8	2.0	18.2	1.0	0.899	1.0
126	75-16947	2433.0	2434.0	7.9	0.5	89.5	2.1	21.1	1.2	0.894	1.0
127	75-16948	2434.0	2435.0	6.6	0.5	89.2	3.7	17.7	1.2	0.899	1.0
128	75-16949	2435.0	2436.0	6.6	0.7	89.9	2.8	17.7	1.7	0.897	1.0
129	75-16950	2436.0	2437.0	7.2	0.3	90.5	2.0	19.2	0.7	0.898	1.0
130	75-16951	2437.0	2438.0	6.5	0.5	90.2	2.8	17.3	1.2	0.904	1.0
131	75-16952	2438.0	2439.0	7.9	0.8	88.1	3.2	21.1	1.9	0.896	1.0
132	75-16953	2439.0	2440.0	8.3	0.9	87.0	3.8	22.1	2.2	0.898	1.0
133	75-16954	2440.0	2440.8	8.3	0.9	86.1	4.7	22.2	2.2	0.897	1.0
134	75-16955	2440.8	2442.0	7.2	1.1	85.1	6.6	19.3	2.6	0.895	1.0
135	75-16956	2442.0	2443.0	8.1	1.5	84.5	5.9	21.8	3.6	0.894	1.0
136	75-16957	2443.0	2444.0	7.3	1.3	85.7	5.7	19.8	3.1	0.891	1.0
137	75-16958	2444.0	2445.0	7.0	1.3	87.0	4.7	18.7	3.1	0.894	1.0
138	75-16959	2445.0	2446.0	8.1	1.3	84.8	5.8	21.6	3.1	0.895	1.0
139	75-16960	2446.0	2447.0	6.2	0.7	90.9	2.2	16.7	1.7	0.890	1.0
140	75-16961	2447.0	2448.0	3.9	0.7	92.9	2.5	10.4	1.7	0.895	1.0
141	75-16962	2448.0	2449.0	4.2	0.8	92.7	2.3	11.1	1.9	0.904	1.0
142	75-16963	2449.0	2450.0	4.4	0.6	92.9	2.1	12.0	1.4	0.889	1.0
143	75-16964	2450.0	2451.0	9.9	0.6	85.6	3.7	26.5	1.4	0.897	2.0
144	75-16965	2451.0	2452.0	10.1	0.8	84.1	5.0	27.2	1.9	0.893	1.0
145	75-16966	2452.0	2453.0	7.7	1.2	87.5	3.6	21.0	2.6	0.884	1.0
146	75-16967	2453.0	2454.0	8.4	1.2	86.1	4.3	22.7	2.9	0.884	1.0
147	75-16968	2454.0	2455.0	5.5	1.7	86.5	6.3	15.0	4.1	0.885	1.0
148	75-16969	2455.0	2456.0	5.0	1.8	86.8	6.4	13.5	4.3	0.895	1.0
149	75-16970	2456.0	2457.0	4.3	1.5	88.8	5.4	11.5	3.6	0.897	1.0
150	75-16971	2457.0	2458.0	4.1	1.8	86.2	7.9	10.7	4.5	0.905	1.0

SHALE/SALINE DATA ANALYSIS - U S G S(07/01/75)

USGS COREHOLE CR-1 18 96W 31

OBS NO	SAMPLE ID	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1151	75-16972	2458.0	2459.0	4.5	1.4	88.8	5.3	12.0	3.4	0.890	1.0
1152	75-16973	2459.0	2460.0	6.1	1.3	87.1	5.5	16.4	3.1	0.892	1.0
1153	75-16974	2460.0	2461.0	6.8	2.0	83.8	7.4	18.2	4.8	0.895	1.0
1154	75-16975	2461.0	2462.0	10.1	2.1	80.4	7.4	26.9	5.0	0.897	1.0
1155	75-16976	2462.0	2463.0	8.3	2.2	80.4	9.1	22.2	5.3	0.898	1.0
1156	75-16977	2463.0	2464.0	10.0	2.5	77.5	10.0	26.6	6.0	0.902	1.0
1157	75-16978	2464.0	2465.0	9.0	2.2	80.6	8.2	23.8	5.3	0.904	1.0
1158	75-16979	2465.0	2466.0	12.6	1.5	80.0	5.9	33.3	3.6	0.903	1.0
1159	75-16980	2466.0	2467.0	9.1	1.2	85.5	4.2	24.6	2.9	0.887	1.0
1160	75-16981	2467.0	2468.0	7.2	0.9	89.2	2.7	19.4	2.2	0.886	1.0
1161	75-16982	2468.0	2469.0	7.0	0.8	90.0	2.2	19.1	1.9	0.884	1.0
1162	75-16983	2469.0	2470.0	7.7	1.0	87.7	3.6	20.9	2.4	0.884	1.0
1163	75-16984	2470.0	2471.0	6.0	0.9	89.4	3.7	16.4	2.2	0.889	1.0
1164	75-16985	2471.0	2472.0	7.9	1.2	86.4	4.5	21.4	2.9	0.889	1.0
1165	75-16986	2472.0	2473.0	8.4	1.3	85.3	5.0	22.8	3.1	0.888	1.0
1166	75-16987	2473.0	2474.0	8.8	1.4	84.9	4.9	23.9	3.4	0.883	1.0
1167	75-16988	2474.0	2475.0	9.3	1.5	83.3	5.9	25.1	3.6	0.886	1.0
1168	75-16989	2475.0	2476.0	10.1	1.3	80.7	7.9	27.0	3.1	0.895	1.0
1169	75-16990	2476.0	2477.0	8.8	1.8	82.9	6.6	23.7	4.3	0.895	1.0
1170	75-16991	2477.0	2478.0	10.4	1.9	80.7	7.0	27.9	4.6	0.894	1.0
1171	75-16992	2478.0	2479.0	10.6	1.9	80.6	6.9	28.5	4.6	0.894	1.0
1172	75-16993	2479.0	2480.0	14.6	2.0	75.8	7.6	38.9	4.8	0.898	1.0
1173	75-16994	2480.0	2481.0	17.5	1.2	75.8	5.5	46.2	2.9	0.908	1.0
1174	75-16995	2481.0	2482.0	18.6	0.7	75.3	5.2	49.6	1.7	0.912	1.0
1175	75-16996	2482.0	2483.0	15.3	0.9	79.9	3.9	40.4	2.2	0.906	1.0
1176	75-16997	2483.0	2484.0	18.2	1.0	75.5	5.3	47.8	2.4	0.913	1.0
1177	75-16998	2484.0	2485.0	18.1	1.0	76.1	4.8	47.7	2.4	0.914	1.0
1178	75-16999	2485.0	2486.0	19.2	1.0	75.0	4.8	51.1	2.4	0.903	1.0
1179	75-17000	2486.0	2487.0	15.5	0.7	80.3	3.5	41.5	1.7	0.896	1.0
1180	75-17001	2487.0	2488.0	13.3	0.6	80.0	6.1	35.5	1.4	0.899	1.0
1181	75-17002	2488.0	2489.0	11.2	0.9	82.1	5.8	29.8	2.2	0.899	1.0
1182	75-17003	2489.0	2490.0	10.7	1.5	81.7	6.1	28.7	3.6	0.892	1.0
1183	75-17004	2490.0	2491.0	10.7	1.4	81.9	6.0	28.8	3.4	0.894	1.0
1184	75-17005	2491.0	2492.0	11.3	1.4	82.0	5.3	30.3	3.4	0.892	1.0
1185	75-17006	2492.0	2493.0	11.3	1.5	82.2	5.0	30.5	3.6	0.889	1.0
1186	75-17007	2493.0	2494.0	11.2	1.4	81.7	5.7	30.0	3.4	0.895	1.0
1187	75-17008	2494.0	2495.0	10.7	1.2	83.1	5.0	28.8	2.9	0.891	1.0
1188	75-17009	2495.0	2496.0	10.7	1.6	82.1	5.6	28.5	3.8	0.897	1.0
1189	75-17010	2496.0	2497.0	14.5	0.9	80.1	4.5	38.7	2.2	0.897	1.0
1190	75-17011	2497.0	2498.0	9.3	0.9	86.8	3.0	25.0	2.0	0.897	1.0
1191	75-17012	2498.0	2499.0	14.8	0.7	80.5	4.0	39.1	1.7	0.907	1.0
1192	75-17013	2499.0	2500.0	19.1	0.8	75.2	4.9	50.0	1.9	0.918	1.0
1193	75-17014	2500.0	2501.0	17.2	1.0	76.4	5.4	45.2	2.4	0.913	1.0
1194	75-17015	2501.0	2502.0	15.5	0.7	79.7	4.1	40.7	1.7	0.915	1.0
1195	75-17016	2502.0	2503.0	14.6	0.8	80.5	4.1	38.4	1.9	0.913	1.0
1196	75-17017	2503.0	2504.0	7.2	1.0	88.9	2.9	19.5	2.4	0.887	1.0
1197	75-17018	2504.0	2505.0	8.9	1.1	86.1	3.9	24.1	2.6	0.889	1.0
1198	75-17019	2505.0	2506.0	7.0	2.3	83.5	7.2	18.7	5.5	0.894	1.0
1199	75-17020	2506.0	2507.0	12.8	1.4	80.5	5.3	34.1	3.4	0.902	1.0
1200	75-17021	2507.0	2508.0	20.4	0.9	74.0	4.7	53.3	2.2	0.917	1.0

ALE/SAL. A "A ANALYSIS - U S G S(07/01/75)

USGS COREHOLE CR-1 18 96W 31

BS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
01	75-17022	2508.0	2509.0	15.7	0.6	80.1	3.6	41.1	1.4	0.914	1.0
02	75-17023	2509.0	2510.0	7.4	1.0	89.2	2.4	19.8	2.4	0.894	1.0
03	75-17024	2510.0	2511.0	5.7	1.2	89.9	3.2	15.4	2.9	0.889	1.0
04	75-17025	2511.0	2512.0	3.9	2.0	89.3	4.8	10.5	4.8	0.884	1.0
05	75-17026	2512.0	2513.0	4.6	2.1	87.2	6.1	12.3	5.0	0.884	1.0
06	75-17027	2513.0	2514.0	8.4	2.1	82.4	7.1	22.5	5.0	0.900	1.0
07	75-17028	2514.0	2515.0	4.9	1.6	91.2	2.3	13.2	3.8	0.886	1.0
08	75-17029	2515.0	2516.0	3.7	1.2	94.0	1.1	9.9	2.9	0.886	1.0
09	75-17030	2516.0	2517.0	5.4	2.0	87.3	5.3	14.5	4.8	0.888	1.0
10	75-17031	2517.0	2518.0	5.5	1.9	86.6	6.0	14.8	4.6	0.893	1.0
11	75-17032	2518.0	2519.0	5.6	1.9	89.4	3.1	15.0	4.6	0.893	1.0
12	75-17033	2519.0	2520.0	6.4	1.4	90.2	2.0	17.1	3.4	0.894	1.0
13	75-17034	2520.0	2521.0	20.0	0.9	73.2	5.9	53.1	2.2	0.904	1.0
14	75-17035	2521.0	2522.0	16.7	0.7	79.2	3.4	44.5	1.7	0.901	1.0
15	75-17036	2522.0	2523.0	17.2	0.7	78.6	3.5	45.2	1.7	0.911	1.0
16	75-17037	2523.0	2524.0	18.3	0.7	76.9	4.1	51.6	1.7	0.852	1.0
17	75-17038	2524.0	2525.0	16.1	0.8	78.8	4.3	42.4	1.9	0.908	1.0
18	75-17039	2525.0	2526.0	6.0	1.7	89.9	2.4	16.3	4.1	0.889	1.0
19	75-17040	2526.0	2527.0	8.0	1.4	87.8	2.8	21.1	3.4	0.904	1.0
20	75-17041	2527.0	2528.0	8.0	1.3	88.3	2.4	21.5	3.1	0.891	1.0
21	75-17042	2528.0	2529.0	5.1	1.7	91.0	2.2	13.4	4.1	0.905	1.0
22	75-17043	2529.0	2530.0	2.7	0.3	90.3	6.7	7.4	0.7	0.894	1.0
23	75-17044	2530.0	2531.0	7.6	1.9	87.3	3.2	20.3	4.6	0.901	1.0
24	75-17045	2531.0	2532.0	9.4	2.1	83.6	4.9	24.9	5.0	0.906	1.0
25	75-17046	2532.0	2533.0	18.4	1.1	77.3	3.2	48.8	2.6	0.906	1.0
26	75-17047	2533.0	2534.0	5.4	1.3	91.4	1.9	14.3	3.1	0.907	1.0
27	75-17048	2534.0	2535.0	8.3	1.5	87.4	2.8	22.0	3.6	0.903	1.0
28	75-17049	2535.0	2536.0	7.4	1.6	85.9	5.1	19.7	3.8	0.900	1.0
29	75-17050	2536.0	2537.0	8.0	1.1	87.6	3.3	21.4	2.6	0.892	1.0
30	75-17050	2537.0	2538.0	6.6	1.4	89.0	3.0	17.4	3.4	0.911	1.0
31	75-17051	2538.0	2539.0	6.8	1.8	88.3	3.1	18.0	4.3	0.906	1.0
32	75-17052	2539.0	2540.0	9.8	1.1	86.5	2.6	25.8	2.6	0.910	1.0
33	75-17053	2540.0	2541.0	19.4	1.0	75.6	4.0	51.6	2.4	0.902	1.0
34	75-17054	2541.0	2542.0	20.8	0.9	74.4	3.9	54.5	2.2	0.913	1.0
35	75-17055	2542.0	2543.0	12.9	0.7	84.3	2.1	34.5	1.7	0.900	1.0
36	75-17056	2543.0	2544.0	6.5	1.9	88.8	2.8	17.2	4.6	0.907	1.0
37	75-17057	2544.0	2545.0	5.5	2.2	89.5	2.8	14.8	5.3	0.886	1.0
38	75-17058	2545.0	2546.0	2.6	2.9	92.6	1.9	7.2	7.9	0.872	1.0
39	75-17059	2546.0	2547.0	2.2	2.6	92.8	2.4	6.1	6.2	0.868	1.0
40	75-17060	2547.0	2548.0	3.1	2.4	91.1	3.4	8.6	5.8	0.873	1.0
41	75-17061	2548.0	2549.0	3.9	2.8	90.2	3.1	10.6	6.7	0.877	1.0
42	75-17062	2549.0	2550.0	4.6	2.2	91.2	2.0	12.6	5.3	0.881	1.0
43	75-17063	2550.0	2551.0	5.4	1.2	90.9	2.5	14.3	2.9	0.896	1.0
44	75-17064	2551.0	2552.0	3.8	2.2	91.1	2.9	10.1	5.4	0.890	1.0
45	75-17065	2552.0	2553.0	3.5	1.4	92.5	2.6	9.6	3.4	0.884	1.0
46	75-17066	2553.0	2554.0	4.6	2.1	90.0	3.3	12.3	5.0	0.890	1.0
47	75-17067	2554.0	2555.0	10.5	1.0	85.8	2.7	27.7	2.4	0.908	1.0
48	75-17068	2555.0	2556.0	9.6	1.3	85.8	3.3	25.4	3.1	0.908	1.0
49	75-17069	2556.0	2557.0	2.1	2.3	92.9	2.7	5.4	5.5	0.0008	1.0
50	75-17070	2557.0	2558.0	1.1	1.9	94.7	2.3	3.0	4.6	0.0008	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
251	75-17071	2558.0	2559.0	1.1	1.6	94.9	2.4	2.9	3.9	0.0008	1.0
252	75-17072	2559.0	2560.0	1.6	2.6	93.6	2.2	4.2	6.2	0.0008	1.0
253	75-17073	2560.0	2561.0	5.6	2.0	90.0	2.4	15.2	4.8	0.894	1.0
254	75-17074	2561.0	2562.0	16.7	1.0	79.2	3.1	43.9	2.4	0.913	1.0
255	75-17075	2562.0	2563.0	15.9	1.1	80.1	2.9	41.6	2.6	0.911	1.0
256	75-17076	2563.0	2564.0	5.4	1.8	90.3	2.5	14.4	4.3	0.890	1.0
257	75-17077	2564.0	2565.0	2.6	2.2	92.5	2.7	7.0	5.3	0.880	1.0
258	75-17078	2565.0	2566.0	1.8	1.9	93.3	3.0	4.6	4.6	0.0008	1.0
259	75-17079	2566.0	2567.0	1.6	2.2	94.2	2.0	4.2	5.3	0.0008	1.0
260	75-17080	2567.0	2568.0	3.3	2.1	91.4	3.2	9.1	5.0	0.872	1.0
261	75-17081	2568.0	2569.0	3.6	1.9	91.1	3.4	9.9	4.8	0.880	1.0
262	75-17082	2569.0	2570.0	4.9	2.3	89.5	3.3	13.2	5.5	0.880	1.0
263	75-17083	2570.0	2571.0	3.8	2.6	90.4	3.2	10.5	6.2	0.874	1.0
264	75-17084	2571.0	2572.0	4.7	2.1	90.5	2.7	12.9	5.0	0.881	1.0
265	75-17085	2572.0	2573.0	6.0	1.7	89.5	2.8	16.2	4.1	0.883	1.0
266	75-17086	2573.0	2574.0	7.2	1.9	88.2	2.7	19.4	4.6	0.893	1.0
267	75-17087	2574.0	2575.0	7.1	1.6	87.1	4.2	19.2	3.7	0.892	1.0
268	75-17088	2575.0	2576.0	7.0	2.2	87.3	3.5	18.9	5.3	0.885	1.0
269	75-17089	2576.0	2577.0	6.2	1.5	89.4	2.9	17.0	3.6	0.879	1.0
270	75-17090	2577.0	2578.0	6.9	1.1	90.2	1.8	18.8	2.6	0.883	1.0
271	75-17091	2578.0	2579.0	8.0	1.0	89.1	1.9	21.7	2.4	0.886	1.0
272	75-17092	2579.0	2580.0	9.5	1.7	85.4	3.4	25.5	4.1	0.895	1.0
273	75-17093	2580.0	2581.0	7.1	1.9	87.1	3.9	19.2	4.6	0.890	1.0
274	75-17094	2581.0	2582.0	8.1	2.0	87.3	4.6	16.4	4.8	0.888	1.0
275	75-17095	2582.0	2583.0	6.3	1.7	89.4	2.6	16.9	4.1	0.889	1.0
276	75-17096	2583.0	2584.0	7.6	1.4	88.3	2.7	20.3	3.4	0.895	1.0
277	75-17097	2584.0	2585.0	14.9	1.3	81.0	2.8	39.9	3.1	0.898	1.0
278	75-17098	2585.0	2586.0	15.8	1.5	78.9	3.8	42.3	3.6	0.896	1.0
279	75-17099	2586.0	2587.0	12.0	1.4	83.5	3.1	31.9	3.4	0.899	1.0
280	75-17100	2587.0	2588.0	13.2	1.4	82.0	3.4	35.2	3.4	0.901	1.0
281	75-17101	2588.0	2589.0	15.0	1.5	79.8	3.7	40.0	3.6	0.897	1.0
282	75-17102	2589.0	2590.0	14.3	1.7	80.3	3.7	38.3	4.1	0.899	1.0
283	75-17103	2590.0	2591.0	10.4	1.5	85.1	3.0	27.6	3.6	0.907	1.0
284	75-17104	2591.0	2592.0	11.2	1.4	84.3	3.1	29.5	3.3	0.911	1.0
285	75-17105	2592.0	2593.0	10.2	1.7	84.4	3.7	26.9	4.1	0.909	1.0
286	75-17106	2593.0	2594.0	11.5	1.8	82.7	4.0	30.5	4.3	0.907	1.0
287	75-17107	2594.0	2595.0	15.0	1.2	80.2	3.6	39.2	2.8	0.918	1.0
288	75-17108	2595.0	2596.0	15.5	1.0	79.6	3.9	40.8	2.4	0.913	1.0
289	75-17109	2596.0	2597.0	9.7	1.3	86.4	2.6	25.6	3.1	0.909	1.0
290	75-17110	2597.0	2598.0	5.5	1.4	91.3	1.8	14.8	3.4	0.896	1.0
291	75-17111	2598.0	2599.0	7.0	2.0	88.0	3.0	18.7	4.8	0.895	1.0
292	75-17112	2599.0	2600.0	5.2	2.2	89.7	2.9	14.1	5.3	0.891	1.0
293	75-17113	2600.0	2601.0	6.3	2.1	88.7	2.9	16.8	5.0	0.900	1.0
294	75-17114	2601.0	2602.0	7.3	1.5	88.8	2.4	19.4	3.7	0.905	1.0
295	75-17115	2602.0	2603.0	13.9	1.2	82.1	2.8	37.2	2.9	0.897	1.0
296	75-17116	2603.0	2604.0	14.9	0.9	81.0	3.2	39.9	2.1	0.898	1.0
297	75-17117	2604.0	2605.0	12.0	2.2	82.7	3.1	32.0	5.3	0.897	1.0
298	75-17118	2605.0	2606.0	7.2	1.7	88.2	2.9	19.5	4.1	0.879	1.0
299	75-17119	2606.0	2607.0	7.2	1.9	88.2	2.7	19.7	4.6	0.884	1.0
300	75-17120	2607.0	2608.0	7.1	2.3	87.1	3.5	19.2	5.5	0.885	1.0

S .0	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
01	75-17121	2608.0	2609.0	7.3	2.4	86.4	3.9	19.8	5.8	0.885	1.0
02	75-17122	2609.0	2610.0	8.1	1.6	87.4	2.9	21.7	3.8	0.888	1.0
03	75-17123	2610.0	2611.0	8.1	1.2	87.0	3.7	21.7	2.9	0.894	1.0
04	75-17124	2611.0	2612.0	9.1	1.8	86.0	3.1	24.5	4.3	0.888	1.0
05	75-17125	2612.0	2613.0	4.0	2.3	91.0	2.7	10.8	5.5	0.879	1.0
06	75-17126	2613.0	2614.0	4.0	2.1	91.0	2.9	10.9	5.0	0.877	1.0
07	75-17127	2614.0	2615.0	5.2	2.2	89.0	3.6	14.3	5.3	0.880	1.0
08	75-17128	2615.0	2616.0	5.8	2.1	91.4	0.7	15.6	5.0	0.891	1.0
09	75-17129	2616.0	2617.0	6.4	1.2	91.7	0.7	17.0	2.9	0.897	1.0
10	75-17130	2617.0	2618.0	4.5	2.4	90.4	2.7	12.0	5.8	0.897	1.0
11	75-17131	2618.0	2619.0	5.0	2.2	89.5	3.3	13.4	5.3	0.890	1.0
12	75-17132	2619.0	2620.0	4.6	2.1	91.0	2.3	12.5	5.0	0.894	1.0
13	75-17133	2620.0	2621.0	7.0	2.1	87.7	3.2	18.8	5.0	0.887	1.0
14	75-17134	2621.0	2622.0	10.0	0.9	86.2	2.9	26.8	2.2	0.893	1.0
15	75-17135	2622.0	2623.0	9.2	1.2	87.2	2.4	24.5	2.9	0.897	1.0
16	75-17136	2623.0	2624.0	10.9	0.9	85.9	2.3	29.4	2.2	0.886	1.0
17	75-17137	2624.0	2625.0	10.9	1.3	85.3	2.5	29.3	3.1	0.894	1.0
18	75-17138	2625.0	2626.0	6.4	1.7	86.8	3.1	17.4	4.1	0.886	1.0
19	75-17139	2626.0	2627.0	6.8	1.8	87.5	3.9	18.5	4.3	0.888	1.0
20	75-17140	2627.0	2628.0	6.0	1.4	89.9	2.7	16.0	3.4	0.892	1.0
21	75-17141	2628.0	2629.0	6.2	0.9	91.4	1.5	16.5	2.2	0.903	1.0
22	75-17142	2629.0	2629.8	7.7	1.6	88.2	2.5	20.6	3.8	0.894	1.0
23	75-17143	2629.8	2630.6	6.7	1.7	88.7	2.9	18.1	4.1	0.891	1.0
24	75-	2630.6	2632.0	0.0B	0.0B	0.0B	0.0B	21.4	0.0B	0.0008	0.0B
25	75-17144	2632.0	2633.0	13.0	1.6	82.0	3.4	34.7	3.8	0.901	1.0
26	75-17145	2633.0	2634.0	14.7	1.5	80.2	3.6	38.9	3.6	0.907	1.0
27	75-17146	2634.0	2635.0	11.4	2.0	82.9	3.7	30.4	4.8	0.902	1.0
28	75-17147	2635.0	2636.0	6.5	1.9	88.4	3.2	17.5	4.6	0.891	1.0
29	75-17148	2636.0	2637.0	6.5	1.6	89.7	2.2	17.3	3.8	0.897	1.0
30	75-17149	2637.0	2638.0	7.0	2.2	87.4	3.4	18.8	5.3	0.891	1.0
31	75-17150	2638.0	2639.0	9.3	2.1	83.2	5.4	24.9	5.0	0.895	1.0
32	75-17151	2639.0	2640.0	5.7	1.3	87.0	6.0	15.3	3.1	0.894	1.0
33	75-17152	2640.0	2641.0	6.0	2.4	88.2	3.4	16.3	5.8	0.888	1.0
34	75-17153	2641.0	2642.0	5.8	2.8	88.1	3.3	15.6	6.7	0.888	1.0
35	75-17154	2642.0	2643.6	3.6	2.8	90.5	3.1	9.7	6.7	0.880	1.0
36	75-17155	2643.6	2645.0	5.3	2.7	88.0	4.0	14.3	6.5	0.888	1.0
37	75-17156	2645.0	2646.0	8.0	1.7	85.4	4.9	21.1	4.1	0.907	1.0
38	75-17157	2646.0	2647.0	10.2	2.3	83.0	4.5	27.1	5.5	0.907	1.0
39	75-17158	2647.0	2648.0	8.8	1.6	85.2	4.4	23.2	3.8	0.907	1.0
40	75-17159	2648.0	2649.0	7.0	1.7	88.5	2.8	18.8	4.1	0.895	1.0
41	75-17160	2649.0	2650.0	5.0	2.5	90.2	2.3	13.5	6.0	0.896	1.0
42	75-17161	2650.0	2651.0	8.9	2.0	85.8	3.3	23.8	4.8	0.899	1.0
43	75-17162	2651.0	2652.0	14.1	1.3	80.5	4.1	37.0	3.1	0.913	1.0
44	75-17163	2652.0	2653.0	16.1	1.7	74.7	5.5	47.8	4.1	0.909	1.0
45	75-17164	2653.0	2654.0	16.6	2.0	77.2	4.2	43.6	4.8	0.913	1.0
46	75-17165	2654.0	2655.0	11.4	2.3	79.7	6.8	29.4	5.5	0.922	1.0
47	75-17166	2655.0	2656.0	14.7	1.2	80.9	3.2	38.7	2.9	0.908	1.0
48	75-17167	2656.0	2657.0	10.8	1.7	84.6	2.9	28.9	4.1	0.892	1.0
49	75-17168	2657.0	2658.0	9.5	1.7	85.8	3.0	25.7	4.1	0.889	1.0
50	75-17169	2658.0	2659.0	13.3	1.6	81.8	3.3	35.4	3.8	0.899	1.0

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
351	75-17170	2659.0	2660.0	13.3	1.3	82.2	3.2	35.8	3.1	0.893	1.0
352	75-17171	2660.0	2661.5	15.6	1.0	80.4	3.0	43.1	2.4	0.871	1.0
353	75-17172	2661.5	2663.1	11.7	1.5	83.7	3.1	31.6	3.6	0.889	1.0
354	75-17173	2663.1	2664.0	12.6	1.7	81.8	3.9	34.4	4.1	0.884	1.0
355	75-17174	2664.0	2665.0	6.8	3.0	87.3	2.9	18.6	7.2	0.878	1.0
356	75-17175	2665.0	2666.0	4.2	2.8	90.5	2.5	11.6	6.7	0.876	1.0
357	75-17176	2666.0	2667.0	4.5	2.8	90.0	2.7	12.4	6.7	0.887	1.0
358	75-17177	2667.0	2668.0	11.0	2.1	84.0	2.9	29.2	5.0	0.900	1.0
359	75-17178	2668.0	2669.0	12.4	1.9	82.3	3.4	33.0	4.6	0.899	1.0
360	75-17179	2669.0	2670.0	6.9	2.7	87.6	2.8	16.8	6.5	0.884	1.0
361	75-17180	2670.0	2671.0	6.1	2.9	87.0	4.0	16.0	7.0	0.884	1.0
362	75-17181	2671.0	2672.0	2.5	2.9	92.4	2.2	6.9	7.0	0.884	1.0
363	75-17182	2672.0	2673.0	3.0	2.7	91.6	2.7	8.0	6.5	0.901	1.0
364	75-17183	2673.0	2674.0	4.9	2.5	89.8	2.8	12.9	6.0	0.906	1.0
365	75-17184	2674.0	2675.0	7.9	1.9	88.2	3.0	18.3	4.6	0.909	1.0
366	75-17185	2675.0	2676.5	4.3	2.6	90.4	2.7	11.7	6.2	0.883	1.0
367	75-17186	2676.5	2677.6	1.7	2.8	92.6	2.9	4.5	6.7	0.0008	1.0
368	75-17187	2677.6	2678.7	9.8	1.5	83.6	5.1	26.2	3.6	0.901	1.0
369	75-17188	2678.7	2679.8	2.3	2.9	91.8	3.0	6.2	7.0	0.873	1.0
370	75-17189	2679.8	2680.9	2.9	2.7	91.0	3.4	8.1	6.5	0.874	1.0
371	75-17190	2680.9	2682.0	4.8	2.4	89.5	3.3	13.1	5.8	0.885	1.0
372	75-17191	2682.0	2683.0	12.4	1.6	81.7	4.3	33.1	3.8	0.900	1.0
373	75-17192	2683.0	2684.0	9.9	1.3	84.8	4.0	26.3	3.1	0.902	1.0
374	75-17193	2684.0	2685.0	9.0	1.8	85.6	3.6	24.4	4.3	0.886	1.0
375	75-17194	2685.0	2686.0	8.0	1.7	85.4	4.9	21.5	4.1	0.886	1.0
376	75-	2686.0	2690.0	0.08	0.08	0.08	0.08	17.1	0.08	0.0008	0.08
377	75-17195	2690.0	2691.0	4.7	2.3	89.5	3.5	12.8	5.5	0.878	1.0
378	75-17196	2691.0	2692.0	3.2	2.6	90.3	3.9	8.8	6.2	0.869	1.0
379	75-17197	2692.0	2693.0	3.1	2.5	89.6	4.8	8.7	6.0	0.865	1.0
380	75-17198	2693.0	2694.0	4.3	1.9	88.7	5.1	11.7	4.6	0.874	1.0
381	75-17199	2694.0	2695.0	7.7	1.1	86.4	4.8	20.8	2.6	0.890	1.0
382	75-17200	2695.0	2696.0	6.4	2.1	87.7	3.8	17.3	5.0	0.886	1.0
383	75-17201	2696.0	2697.0	7.6	2.1	85.3	4.8	20.9	5.0	0.869	1.0
384	75-17202	2697.0	2698.0	4.4	2.7	90.3	2.6	12.1	6.6	0.877	1.0
385	75-17203	2698.0	2699.0	3.4	2.2	90.1	4.3	9.4	5.3	0.874	1.0
386	75-17204	2699.0	2700.0	3.6	2.6	90.1	3.7	9.8	6.2	0.874	1.0
387	75-17205	2700.0	2701.0	5.3	1.8	90.5	2.4	14.6	4.3	0.879	1.0
388	75-17206	2701.0	2702.0	7.1	1.8	88.0	3.1	19.1	4.3	0.886	1.0
389	75-17207	2702.0	2703.0	7.3	1.8	87.8	3.1	19.9	4.4	0.885	1.0
390	75-17208	2703.0	2704.0	7.3	1.9	88.2	2.6	19.9	4.6	0.884	1.0
391	75-17209	2704.0	2705.0	5.4	1.9	89.6	3.1	14.8	4.6	0.881	1.0
392	75-17210	2705.0	2706.0	6.5	2.3	87.5	3.4	18.4	5.5	0.886	1.0
393	75-17211	2706.0	2707.0	8.2	2.3	86.2	3.3	22.3	5.5	0.884	1.0
394	75-17212	2707.0	2708.0	6.3	2.4	88.1	3.2	17.1	5.8	0.880	1.0
395	75-17213	2708.0	2709.0	5.5	2.2	88.4	3.9	15.1	5.3	0.881	1.0
396	75-17214	2709.0	2710.0	4.3	1.5	89.7	4.5	11.7	3.6	0.885	1.0
397	75-17215	2710.0	2711.0	4.6	2.2	88.9	4.3	12.7	5.3	0.874	1.0
398	75-17216	2711.0	2712.0	7.0	2.5	88.9	3.6	18.9	6.0	0.884	1.0
399	75-17217	2712.0	2713.0	6.9	2.5	88.7	3.9	18.5	5.9	0.891	1.0
400	75-17218	2713.0	2714.0	5.1	2.7	88.2	4.0	13.6	6.6	0.881	1.0

ALL/SAL. [illegible] ANALYSIS - U S G S(07/01/75)

-A-- 10/ 3/75

USGS COREHOLE CR-1 15 96W 31

RS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCUKE
01	75-17219	2714.0	2715.0	3.2	2.7	90.8	3.3	8.9	6.5	0.871	1.0
02	75-17220	2715.0	2716.0	4.8	2.3	89.7	3.2	13.2	5.5	0.873	1.0
03	75-17221	2716.0	2717.0	10.1	1.6	84.3	4.0	27.3	3.8	0.889	1.0
04	75-17222	2717.0	2718.0	15.5	1.6	79.0	3.9	41.9	3.8	0.889	1.0
05	75-17223	2718.0	2719.0	13.1	1.8	79.8	5.3	35.1	4.3	0.895	1.0
06	75-17224	2719.0	2720.0	10.1	1.6	84.8	3.5	27.2	3.8	0.890	1.0
07	75-17225	2720.0	2721.0	9.2	2.2	84.6	4.0	24.7	5.3	0.893	1.0
08	75-17226	2721.0	2722.0	8.4	1.8	86.7	3.1	22.9	4.3	0.883	1.0
09	75-17227	2722.0	2723.0	7.7	2.0	87.3	3.0	20.9	4.8	0.885	1.0
10	75-17228	2723.0	2724.0	5.6	1.9	90.2	2.3	15.1	4.6	0.880	1.0
11	75-17229	2724.0	2725.0	5.4	1.2	90.6	2.6	14.7	2.9	0.889	1.0
12	75-17230	2725.0	2726.0	11.0	1.4	83.7	3.9	29.5	3.4	0.896	1.0
13	75-17231	2726.0	2727.0	10.2	1.6	84.6	3.6	27.2	3.8	0.899	1.0
14	75-17232	2727.0	2728.3	12.3	1.5	83.2	3.0	32.8	3.6	0.901	1.0
15	75-	2728.3	2742.0	0.0B	0.0B	0.0B	0.0B	26.0	0.0B	0.000B	0.0B
16	75-17233	2742.0	2743.0	14.7	1.7	80.0	3.6	39.3	4.1	0.894	1.0
17	75-17234	2743.0	2744.0	11.6	1.6	82.7	4.1	31.0	3.8	0.899	1.0
18	75-17235	2744.0	2745.0	7.7	1.5	88.4	2.4	20.3	3.6	0.904	1.0
19	75-17236	2745.0	2746.0	8.4	2.1	85.8	3.7	22.5	5.0	0.891	1.0
20	75-17237	2746.0	2747.0	10.9	2.3	81.0	5.8	29.0	5.5	0.901	1.0
21	75-17238	2747.0	2748.0	14.0	1.8	81.0	3.2	37.1	4.3	0.904	1.0
22	75-17239	2748.0	2749.0	14.0	1.6	81.2	3.2	37.2	3.6	0.904	1.0
23	75-17240	2749.0	2750.0	13.9	1.3	80.9	3.9	37.0	3.1	0.901	1.0
24	75-17241	2750.0	2751.0	11.1	1.9	84.0	3.0	29.7	4.6	0.897	1.0
25	75-17242	2751.0	2752.0	8.4	1.6	86.1	3.9	22.3	3.8	0.903	1.0
26	75-17243	2752.0	2753.0	5.3	2.3	89.4	3.0	14.2	5.5	0.900	1.0
27	75-17244	2753.0	2754.0	2.9	3.1	92.8	2.2	7.9	5.0	0.891	1.0
28	75-17245	2754.0	2755.0	2.8	2.3	92.7	2.2	7.4	5.5	0.896	1.0
29	75-17246	2755.0	2756.0	2.4	2.2	92.5	2.9	6.4	5.3	0.889	1.0
30	75-17247	2756.0	2757.0	2.3	2.2	92.2	3.3	6.1	5.3	0.885	1.0
31	75-17248	2757.0	2758.0	1.6	2.7	93.2	2.5	4.2	6.5	0.000B	1.0
32	75-17249	2758.0	2759.0	0.8	2.1	96.4	0.7	2.1	5.0	0.000B	1.0
33	75-17250	2759.0	2760.0	3.0	2.1	92.5	2.4	7.9	5.0	0.901	1.0
34	75-17251	2760.0	2761.0	1.6	2.5	93.8	2.1	4.2	6.0	0.000B	1.0
35	75-17252	2761.0	2762.0	1.9	2.3	93.9	1.9	5.1	5.5	0.000B	1.0
36	75-17253	2762.0	2763.0	2.8	2.4	92.4	2.4	7.3	5.5	0.908	1.0
37	75-17254	2763.0	2764.0	3.7	2.4	91.5	2.4	10.2	5.8	0.861	1.0
38	75-17255	2764.0	2765.0	4.4	1.7	92.0	1.9	11.5	4.1	0.912	1.0
39	75-17256	2765.0	2766.0	2.8	2.0	93.5	1.7	7.5	4.8	0.897	1.0
40	75-17257	2766.0	2767.0	2.7	2.0	93.6	1.7	7.2	4.8	0.896	1.0
41	75-17258	2767.0	2768.0	3.3	2.3	91.8	2.6	8.9	5.5	0.898	1.0
42	75-17259	2768.0	2769.0	2.6	2.0	93.8	1.6	6.8	4.8	0.897	1.0
43	75-17260	2769.0	2770.0	2.8	2.3	93.6	1.3	7.4	5.5	0.897	1.0
44	75-17261	2770.0	2771.0	2.3	2.0	91.5	4.2	6.3	4.8	0.896	1.0
45	75-17262	2771.0	2772.0	2.2	1.9	94.3	1.6	5.9	4.6	0.899	1.0
46	75-17263	2772.0	2773.0	2.6	1.9	93.0	2.5	6.6	4.6	0.904	1.0
47	75-17264	2773.0	2774.0	2.6	1.9	93.8	1.7	6.8	4.6	0.902	1.0
48	75-17265	2774.0	2775.2	3.1	1.8	93.5	1.6	8.3	4.3	0.904	1.0
49	75-17266	2775.2	2776.0	3.6	2.4	92.1	1.9	9.5	5.8	0.905	1.0
50	75-17267	2776.0	2777.0	2.6	2.4	93.4	1.6	7.1	5.7	0.891	1.0

USGS COREHOLE CH-1 1S 96W 31

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
451	75-17268	2777.0	2778.0	3.7	1.8	93.0	1.5	10.0	4.3	0.891	1.0
452	75-17269	2778.0	2779.0	3.0	1.4	93.8	1.8	8.3	3.4	0.885	1.0
453	75-17270	2779.0	2780.4	2.8	0.8	95.4	1.0	7.6	1.9	0.880	1.0

ALL/6A E DATA ANALYSIS - U S G S(07/01/75) DATE 10/ 3/75

ELEMENT=OIL GPT
AVER YIELD=10.00

USGS COREHOLE CR-1 1S 96W 31

E DATA BELOW IS COMPUTED FOR AN AVERAGE OF 10.0
WITH A MINIMUM AVERAGE OF 5.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
1	900.0	901.0	369	1422.0	1424.0	19.34	524.0	728.0
371	1440.0	1446.0	1453	2779.0	2780.4	24.18	1340.4	2276.1
						TOTAL	1864.4	3004.1

HALE/SALINE DATA ANALYSIS - U S G S(07/01/75)

DATE 10/ 3/75

ELEMENT=OIL GPT
AVER YIELD=15.00

USGS COREHOLE CR-1 18 96W 31

HE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 15.0
WITH A MINIMUM AVERAGE OF 10.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
4	903.7	905.2	13	916.6	918.3	15.18	14.6	16.8
21	927.6	928.7	25	931.7	932.6	16.32	5.0	6.1
33	941.3	942.3	48	957.0	958.5	17.44	17.2	22.0
64	990.0	991.0	64	990.0	991.0	15.40	1.0	1.2
76	1002.0	1003.0	240	1221.6	1222.6	15.56	220.6	259.5
242	1233.6	1234.6	368	1420.0	1422.0	29.14	188.4	374.2
372	1444.0	1445.0	1426	2752.0	2753.0	24.58	1309.0	2256.8
						TOTAL	1755.8	2936.6

ELEMENT=OIL GPT
AVER YIELD=20.00

USGS COREHOLE CH-1 1S 96W 31

DATA BELOW IS COMPUTED FOR AN AVERAGE OF 20.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
7	906.5	911.0	9	912.0	913.0	19.97	4.5	6.6
12	915.6	916.6	12	915.6	916.6	28.90	1.0	2.0
22	926.7	929.8	23	929.8	930.8	23.50	2.1	3.5
39	947.5	948.5	47	955.7	957.0	22.34	9.5	15.2
80	1006.0	1007.0	89	1018.5	1020.2	20.26	14.2	21.1
98	1030.3	1031.2	99	1031.2	1032.6	21.85	2.3	3.6
101	1035.9	1037.0	101	1035.9	1037.0	20.00	1.1	1.6
122	1061.9	1063.0	122	1061.9	1063.0	21.00	1.1	1.7
124	1064.0	1065.0	124	1064.0	1065.0	20.80	1.0	1.5
144	1089.0	1091.0	144	1089.0	1091.0	20.20	2.0	3.0
148	1096.0	1097.8	148	1096.0	1097.8	23.70	1.8	3.1
157	1109.0	1110.7	157	1109.0	1110.7	24.40	1.7	2.8
174	1137.1	1138.2	187	1152.0	1153.0	22.55	15.9	26.0
202	1178.0	1179.0	203	1179.0	1180.0	21.40	2.0	3.1
211	1187.7	1189.1	214	1191.5	1193.0	20.38	5.3	7.9
226	1205.0	1206.2	240	1221.6	1222.6	23.32	17.6	29.0
242	1233.6	1234.6	367	1417.0	1420.0	29.30	186.4	372.0
372	1444.0	1445.0	468	1583.0	1584.0	27.93	140.0	271.0
474	1593.0	1595.0	510	1604.8	1606.0	23.88	73.0	124.5
553	1730.3	1731.4	553	1730.3	1731.4	24.30	1.1	1.9
571	1777.6	1778.7	711	1957.4	1958.7	20.88	181.1	340.4
725	1970.9	1971.6	759	2025.0	2026.0	34.45	55.1	124.9
789	2061.3	2062.4	1230	2543.0	2544.0	27.21	482.7	908.7
247	2554.0	2555.0	1246	2555.0	2556.0	20.55	2.0	3.8
253	2560.0	2561.0	1255	2564.0	2563.0	33.63	3.0	6.6
262	2569.0	2570.0	1368	2677.6	2678.7	22.93	109.7	178.7
372	2682.0	2683.0	1425	2751.0	2752.0	22.22	70.0	111.8
						TOTAL	1387.2	2576.3

ELEMENT=OIL GPT
AVER YIELD=25.00

USGS COREHOLE CH-1 1S 96W 31

E DATA BELOW IS COMPUTED FOR AN AVERAGE OF 25.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS	TOTAL INTERVAL	BARRELS PER
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)	PER TON	IN FEET	ACRE (THOUSAND)
9	912.0	913.0	9	912.0	913.0	27.60	1.0	1.9
12	915.6	916.6	12	915.6	916.6	28.90	1.0	2.0
23	929.8	930.8	23	929.8	930.8	31.10	1.0	2.1
39	947.5	948.5	40	948.5	949.5	34.80	2.0	4.7
46	954.7	955.7	47	955.7	957.0	27.54	2.3	4.5
80	1006.0	1007.0	82	1008.0	1009.0	25.20	3.0	5.3
85	1011.2	1012.2	85	1011.2	1012.2	28.60	1.0	2.0
98	1030.3	1031.2	98	1030.3	1031.2	31.10	0.9	1.9
180	1144.3	1145.4	186	1151.0	1152.0	25.39	7.7	13.9
211	1187.7	1189.1	211	1187.7	1189.1	26.00	1.4	2.6
227	1206.2	1207.4	233	1213.3	1214.4	25.95	8.2	14.9
236	1217.0	1218.6	240	1221.6	1222.6	25.80	5.6	9.9
242	1233.6	1234.6	367	1417.0	1420.0	29.30	186.4	372.0
372	1444.0	1445.0	466	1563.0	1564.0	27.93	140.0	271.0
475	1595.0	1597.0	476	1599.0	1600.0	26.66	5.0	9.5
483	1614.8	1616.0	510	1664.8	1666.0	24.91	51.2	90.3
571	1777.6	1778.7	711	1957.4	1958.7	26.88	181.1	340.4
725	1970.9	1971.6	759	2025.0	2026.0	34.45	55.1	124.9
789	2061.3	2062.4	1236	2543.0	2544.0	27.21	482.7	908.7
247	2554.0	2555.0	1246	2555.0	2556.0	26.55	2.0	3.8
253	2560.0	2561.0	1255	2562.0	2563.0	33.63	3.0	6.6
272	2579.0	2580.0	1272	2579.0	2580.0	25.50	1.0	1.8
275	2582.0	2583.0	1354	2663.1	2664.0	24.99	82.0	143.6
356	2667.0	2668.0	1360	2669.0	2670.0	27.00	3.0	5.7
372	2682.0	2683.0	1375	2685.0	2686.0	26.33	4.0	7.5
401	2714.0	2715.0	1425	2751.0	2752.0	26.65	38.0	71.1
						TOTAL	1269.6	2422.9

HALE/SA'INE DATA ANALYSIS - U S G S(07/01/75) DATE 10/ 3/75

ELEMENT=OIL GPT
AVER YIELD=0.00

USGS COREHOLE CR-1 1S 96W 31

HE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 30.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
23	929.8	930.8	23	929.8	930.8	31.10	1.0	2.1
39	947.5	948.5	40	948.5	949.5	34.80	2.0	4.7
47	955.7	957.0	47	955.7	957.0	30.50	1.3	2.7
60	1006.0	1007.0	60	1006.0	1007.0	30.20	1.0	2.4
98	1030.3	1031.2	98	1030.3	1031.2	31.10	0.9	1.9
163	1147.6	1148.9	164	1148.9	1149.9	30.63	2.3	4.8
227	1206.2	1207.4	228	1207.4	1208.4	34.91	2.2	5.2
233	1213.3	1214.4	233	1213.3	1214.4	35.60	1.1	2.6
237	1218.4	1219.4	240	1221.6	1222.6	32.07	4.2	9.1
242	1233.6	1234.6	359	1403.0	1404.0	30.04	170.4	346.9
372	1444.0	1445.0	390	1463.8	1464.9	30.11	20.9	42.8
396	1477.0	1477.5	450	1551.3	1552.3	29.95	75.3	154.5
456	1557.6	1558.1	457	1558.1	1559.2	32.18	1.6	3.5
461	1568.8	1569.9	464	1573.3	1580.0	29.93	11.2	23.2
488	1619.2	1620.2	503	1640.0	1641.5	30.49	22.3	46.4
505	1659.0	1660.5	505	1659.0	1660.5	31.80	1.5	3.3
572	1778.7	1779.8	585	1793.5	1794.7	29.93	16.0	32.1
591	1800.0	1801.0	602	1819.0	1820.0	30.06	20.0	41.6
610	1828.0	1828.3	612	1829.6	1831.0	30.19	3.0	6.3
615	1837.0	1838.0	640	1863.0	1864.0	29.91	27.0	55.8
649	1874.0	1875.0	658	1884.1	1885.6	30.52	11.6	23.9
668	1904.7	1905.8	678	1914.7	1915.7	30.37	11.0	23.0
694	1932.0	1941.0	710	1950.4	1957.4	30.13	25.4	52.6
725	1970.9	1971.6	759	2025.0	2026.0	34.45	55.1	124.9
794	2067.2	2068.4	794	2067.2	2068.4	31.80	1.2	2.6
804	2102.0	2103.0	996	2297.0	2298.0	29.92	196.0	400.3
1033	2336.0	2337.0	1034	2337.0	2338.0	30.95	2.0	4.3
1037	2340.0	2341.0	1071	2374.0	2375.0	29.94	35.0	71.3
1067	2390.0	2391.0	1125	2432.0	2433.0	30.04	43.0	88.2
1158	2465.0	2466.0	1158	2465.0	2466.0	33.30	1.0	2.3
1165	2472.0	2473.0	1230	2543.0	2544.0	29.91	72.0	144.9
1253	2560.0	2561.0	1255	2562.0	2563.0	33.63	3.0	6.6
1277	2564.0	2585.0	1298	2605.0	2606.0	30.00	22.0	45.0
1325	2632.0	2633.0	1328	2635.0	2636.0	30.36	4.0	8.3
1340	2648.0	2649.0	1359	2668.0	2669.0	29.94	21.0	42.8
1372	2662.0	2663.0	1372	2662.0	2663.0	33.10	1.0	2.2
1403	2716.0	2717.0	1407	2720.0	2721.0	31.24	5.0	10.7
1414	2725.0	2726.0	1414	2727.0	2728.3	30.10	3.3	6.9
1416	2742.0	2743.0	1425	2751.0	2752.0	30.54	10.0	20.9
						TOTAL	907.8	1873.7

ELEMENT=OIL GPT
AVER YIELD=35.00

USGS COREHOLE CR-1 1S 96W 31

IE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 35.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START-DEPTH OBS NO	START-DEPTH TOP (FT)	START-DEPTH BTM (FT)	END-DEPTH OBS NO	END-DEPTH TOP (FT)	END-DEPTH BTM (FT)	AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
39	947.5	948.5	39	947.5	948.5	36.60	1.0	2.4
80	1006.0	1007.0	80	1006.0	1007.0	36.20	1.0	2.4
183	1147.6	1148.9	183	1147.6	1148.9	35.50	1.3	3.1
227	1206.2	1207.4	226	1207.4	1208.4	34.91	2.2	5.2
233	1213.3	1214.4	233	1213.3	1214.4	35.00	1.1	2.6
237	1218.4	1219.4	239	1220.4	1221.6	35.42	3.2	7.5
248	1239.9	1240.9	255	1247.1	1248.3	35.58	8.4	19.7
265	1267.2	1268.3	329	1348.1	1349.1	34.94	81.9	187.8
342	1371.0	1372.4	344	1373.4	1374.8	35.02	3.8	8.8
353	1397.0	1398.0	354	1398.0	1399.0	35.15	2.0	4.7
372	1444.0	1445.0	373	1445.0	1446.0	37.55	2.0	5.0
378	1450.9	1452.0	385	1458.0	1459.4	35.19	8.5	19.7
390	1463.6	1464.9	390	1463.6	1464.9	36.70	1.3	3.2
398	1478.3	1479.3	399	1479.3	1480.3	39.10	2.0	5.1
424	1504.0	1505.0	427	1509.3	1510.2	36.39	6.2	15.0
429	1511.8	1513.0	430	1513.0	1514.0	37.28	2.2	5.4
432	1515.4	1516.4	434	1517.5	1518.6	36.47	3.2	7.7
437	1521.9	1522.9	447	1547.5	1549.4	34.91	27.5	64.3
456	1557.6	1558.1	456	1557.6	1558.1	41.80	0.5	1.3
488	1619.2	1620.2	491	1625.3	1626.3	35.34	7.1	16.7
497	1632.0	1633.8	500	1636.7	1637.9	36.74	5.9	14.3
571	1777.6	1778.7	575	1782.0	1783.0	35.89	5.4	12.7
579	1786.6	1787.7	584	1792.3	1793.5	36.86	6.9	16.9
624	1846.0	1847.0	626	1848.0	1849.0	36.87	3.0	7.3
653	1878.4	1879.7	658	1884.1	1885.6	35.32	7.2	16.7
674	1910.3	1911.5	675	1911.5	1912.5	35.32	2.2	5.2
676	1914.7	1915.7	676	1914.7	1915.7	36.30	1.0	2.5
695	1941.0	1942.2	704	1951.0	1951.6	35.58	10.6	25.1
725	1970.9	1971.6	757	2023.0	2024.0	34.96	53.1	121.8
809	2107.6	2108.4	809	2107.8	2108.4	43.00	0.6	1.6
842	2142.3	2143.8	844	2144.5	2145.8	37.37	3.5	8.6
848	2147.0	2148.0	900	2202.2	2203.1	35.03	56.1	129.8
925	2226.0	2227.0	927	2228.0	2229.0	35.50	3.0	7.1
944	2245.0	2246.0	961	2262.8	2264.0	35.20	19.0	44.8
968	2270.0	2271.0	969	2271.0	2272.0	36.30	2.0	4.8
973	2275.0	2276.0	979	2281.0	2282.3	34.95	7.3	17.1
982	2285.0	2286.0	990	2293.0	2294.0	35.27	9.0	20.8
1037	2340.0	2341.0	1039	2342.0	2343.0	39.07	3.0	7.0
1042	2345.0	2346.0	1053	2356.0	2357.0	35.79	12.0	28.5
1059	2362.0	2363.0	1064	2367.0	2368.0	34.95	6.0	13.9

ALLE/T 'NE DATA ANALYSIS - U S G S(07/01/75) DATE 10/ 3/75

ELEMENT=OIL GPT
AVER YIELD=35.00

USGS COREHOLE CR-1 1S 96W 31

IE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 35.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
103	2406.1	2409.2	1120	2427.0	2428.0	35.64	19.9	47.0
166	2475.0	2476.0	1202	2509.0	2510.0	35.11	35.0	81.3
211	2516.0	2519.0	1218	2525.0	2526.0	35.73	8.0	18.4
224	2531.0	2532.0	1225	2532.0	2533.0	36.85	2.0	4.8
232	2539.0	2540.0	1236	2543.0	2544.0	36.72	5.0	11.8
254	2561.0	2562.0	1255	2562.0	2563.0	42.85	2.0	5.5
277	2584.0	2585.0	1268	2595.0	2596.0	35.16	12.0	26.2
295	2602.0	2603.0	1297	2604.0	2605.0	36.37	3.0	7.2
325	2632.0	2633.0	1326	2633.0	2634.0	36.80	2.0	4.9
342	2650.0	2651.0	1354	2663.1	2664.0	35.13	14.0	32.7
404	2717.0	2718.0	1405	2718.0	2719.0	38.50	2.0	5.0
416	2742.0	2743.0	1417	2743.0	2744.0	35.15	2.0	4.7
421	2747.0	2748.0	1424	2750.0	2751.0	35.25	4.0	9.4
						TOTAL	494.1	1155.7

ELEMENT=OIL GPT
AVER YIELD=40.00

USGS COREHOLE CR-1 1S 96W 31

E DATA BELOW IS COMPUTED FOR AN AVERAGE OF 40.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
238	1219.4	1220.4	238	1219.4	1220.4	43.70	1.0	2.8
249	1240.9	1241.9	253	1244.9	1246.0	42.14	5.1	13.7
267	1269.3	1270.3	267	1269.3	1270.3	44.30	1.0	2.8
274	1277.2	1278.5	300	1303.8	1304.8	40.40	27.6	70.0
321	1340.0	1341.0	322	1341.0	1342.0	44.95	2.0	5.5
343	1372.4	1373.4	344	1373.4	1374.8	41.44	2.4	6.4
378	1450.9	1452.0	383	1456.0	1457.0	41.28	6.1	16.2
399	1479.3	1480.3	399	1479.3	1480.3	42.40	1.0	2.7
437	1521.9	1522.9	440	1525.0	1526.0	43.30	4.1	11.3
456	1557.6	1558.1	456	1557.6	1558.1	41.80	0.5	1.3
489	1623.3	1624.3	490	1624.3	1625.3	42.40	2.0	5.4
499	1635.4	1636.7	500	1636.7	1637.9	41.77	2.5	6.7
572	1778.7	1779.8	574	1781.0	1782.0	43.78	3.3	9.2
625	1847.0	1848.0	626	1848.0	1849.0	41.45	2.0	5.3
654	1879.7	1881.0	657	1882.9	1884.1	43.50	4.4	12.1
695	1941.0	1942.2	696	1942.2	1943.4	40.30	2.4	6.3
702	1949.0	1950.0	703	1950.0	1951.0	40.65	2.0	5.3
726	1971.6	1972.5	726	1971.6	1972.5	43.10	0.9	2.5
729	1978.3	1979.3	747	2014.0	2013.0	40.11	34.7	88.8
809	2107.8	2108.4	809	2107.8	2108.4	43.00	0.6	1.6
843	2143.8	2144.5	844	2144.5	2145.8	40.20	2.0	5.2
847	2146.0	2149.0	855	2156.0	2157.0	40.96	9.0	23.7
868	2170.0	2171.0	870	2172.0	2173.0	40.13	3.0	7.8
894	2186.0	2187.0	901	2203.1	2204.2	40.16	16.2	46.6
964	2287.0	2288.0	969	2292.3	2293.0	41.10	6.0	15.7
037	2340.0	2341.0	1038	2341.0	2342.0	44.00	2.0	5.6
044	2347.0	2348.0	1044	2347.0	2348.0	42.30	1.0	2.7
046	2349.0	2350.0	1046	2351.0	2352.0	41.10	3.0	8.0
061	2364.0	2365.0	1063	2366.0	2367.0	40.33	3.0	7.8
108	2413.2	2414.6	1116	2421.8	2425.9	40.24	12.7	34.1
172	2479.0	2480.0	1183	2490.0	2491.0	40.50	12.0	31.2
190	2497.0	2498.0	1194	2501.0	2502.0	40.00	5.0	12.9
199	2506.0	2507.0	1201	2508.0	2509.0	42.83	3.0	8.1
213	2520.0	2521.0	1218	2525.0	2526.0	42.18	6.0	15.9
225	2532.0	2533.0	1225	2532.0	2533.0	48.80	1.0	3.0
232	2539.0	2540.0	1235	2542.0	2543.0	41.60	4.0	10.5
254	2561.0	2562.0	1255	2562.0	2563.0	42.85	2.0	5.5
277	2584.0	2585.0	1276	2585.0	2586.0	41.10	2.0	5.3
281	2588.0	2589.0	1281	2588.0	2589.0	40.00	1.0	2.6
287	2594.0	2595.0	1288	2595.0	2596.0	40.00	2.0	5.2

ALE/SALINE DATA ANALYSIS - U S G S(07/01/75)

DATE 10/ 3/75

ELEMENT=OIL GPT
AVER YIELD=40.00

USGS COREHOLE CR-1 18 96W 31

HE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 40.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
1343	2651.0	2652.0	1345	2653.0	2654.0	42.80	3.0	8.2
1351	2659.0	2660.0	1352	2660.0	2661.5	40.18	2.5	6.5
1404	2717.0	2718.0	1404	2717.0	2718.0	41.90	1.0	2.7
						TOTAL	210.0	549.8

F*LF/SALI A ANALYSIS - U S G S(03/23/75) DATE 7/29/75

TITLE CORE I D * OPTIONS *
SGS CR2 1N 97W 36 -C291 - 2 0 0 0 0 0

INPUT/OUTPUT FILE NAME = C291

ELECTED AVERAGE YIELDS

YIELD	MINIMUM AVERAGE	MAXIMUM DISTANCE
10.0	5.0	10.0
15.0	10.0	10.0
20.0	15.0	10.0
25.0	15.0	10.0
30.0	15.0	10.0
35.0	15.0	10.0
40.0	15.0	10.0

SHALE/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS CH2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1		507.0	508.0	0.9	1.2	97.3	0.6	2.4	2.9	0.920	1.0
2		508.0	509.0	1.6	1.9	95.7	0.8	4.1	4.6	0.920	1.0
3		509.0	510.1	1.7	1.9	95.7	0.7	4.3	4.6	0.920	1.0
4		510.1	511.1	2.7	1.0	94.6	1.7	7.0	2.4	0.937	1.0
5		511.1	512.1	3.1	0.9	94.8	1.2	7.9	2.2	0.932	1.0
6		512.1	513.5	2.9	0.8	95.4	0.9	7.5	1.9	0.933	1.0
7		513.5	514.5	3.5	1.2	94.6	0.7	9.0	2.9	0.933	1.0
8		514.5	515.6	4.4	1.4	92.8	1.4	11.2	3.4	0.935	1.0
9		515.6	516.6	4.1	1.9	92.3	1.7	10.6	4.6	0.939	1.0
10		516.6	517.6	4.0	2.2	92.7	1.1	10.3	5.3	0.938	1.0
11		517.6	518.6	3.5	1.8	92.6	2.1	8.9	4.3	0.940	1.0
12		518.6	519.6	3.6	1.5	92.5	2.4	9.2	3.6	0.941	1.0
13		519.6	520.9	2.5	1.6	95.2	0.7	6.4	3.8	0.943	1.0
14		520.9	521.9	3.3	1.1	93.9	1.7	8.3	2.6	0.959	1.0
15		521.9	522.9	3.9	2.0	93.1	1.0	9.7	4.8	0.952	1.0
16		522.9	523.9	3.9	1.9	93.3	0.9	9.8	4.6	0.953	1.0
17		523.9	525.3	2.6	1.8	94.4	1.2	6.5	4.3	0.952	1.0
18		525.3	527.3	0.3	1.0	98.5	0.2	0.8	2.4	0.920	1.0
19		527.3	529.3	0.3	1.2	98.0	0.5	0.9	2.9	0.920	1.0
20		529.3	531.2	0.0	2.0	97.4	0.6	0.0B	4.9	0.920	1.0
21		531.2	533.0	0.6	1.9	96.7	0.8	1.7	4.6	0.920	1.0
22		533.0	535.0	0.9	1.3	97.0	0.8	2.3	3.1	0.920	1.0
23		535.0	536.5	0.9	1.0	96.9	1.2	2.3	2.4	0.920	1.0
24		536.5	537.1	3.7	1.4	94.6	0.3	9.4	3.4	0.936	1.0
25		537.1	540.7	0.0B	0.0B	0.0B	0.0B	7.4	0.0B	0.000B	0.0B
26		540.7	541.7	2.0	1.2	96.1	0.7	5.3	2.9	0.936	1.0
27		541.7	542.7	1.3	0.6	97.3	0.8	3.5	1.4	0.920	1.0
28		542.7	544.6	2.5	0.8	95.7	1.0	6.4	1.9	0.937	1.0
29		544.6	546.0	1.6	0.7	96.8	0.9	4.2	1.7	0.920	1.0
30		546.0	547.8	0.7	1.6	96.9	0.8	1.9	3.8	0.920	1.0
31		547.8	549.3	3.6	0.7	94.9	0.8	9.3	1.7	0.937	1.0
32		549.3	550.9	0.2	2.3	96.9	0.6	0.4	5.5	0.920	1.0
33		550.9	552.9	2.9	1.4	94.7	1.0	7.4	3.4	0.934	1.0
34		552.9	554.9	0.5	2.1	96.9	0.5	1.4	5.0	0.920	1.0
35		554.9	555.9	2.8	2.0	93.3	1.9	7.2	4.8	0.941	1.0
36		555.9	557.0	0.0B	0.0B	0.0B	0.0B	7.7	0.0B	0.000B	0.0B
37		557.0	557.7	3.2	2.2	92.9	1.7	8.1	5.3	0.941	1.0
38		557.7	561.0	0.9	2.2	96.3	0.6	2.2	5.3	0.920	1.0
39		561.0	563.0	0.1	1.4	97.6	0.9	0.2	3.4	0.920	1.0
40		563.0	565.0	0.2	1.2	98.2	0.4	0.5	2.9	0.920	1.0
41		565.0	566.7	1.4	1.0	95.7	1.9	3.8	2.4	0.920	1.0
42		566.7	568.7	0.2	3.6	95.3	0.9	0.4	8.6	0.920	1.0
43		568.7	570.7	0.1	2.7	95.6	1.6	0.3	6.5	0.920	1.0
44		570.7	571.7	0.1	2.3	97.4	0.2	0.2	5.5	0.920	1.0
45		571.7	572.7	3.1	1.5	94.5	0.9	8.0	3.6	0.933	1.0
46		572.7	573.7	3.1	0.7	93.9	2.3	7.9	1.7	0.934	1.0
47		573.7	575.4	2.2	1.2	95.7	0.9	5.7	2.9	0.930	1.0
48		575.4	576.4	5.4	1.1	92.0	1.5	13.8	2.6	0.928	1.0
49		576.4	577.6	4.5	1.3	93.1	1.1	11.7	3.1	0.928	1.0
50		577.6	578.7	4.2	0.9	93.8	1.1	10.8	2.2	0.932	1.0

SHALE/BAL??E DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

SGS CF2 1N 97W 36

OHS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
51		578.7	579.7	2.6	0.9	95.7	0.8	6.8	2.2	0.934	1.0
52		579.7	580.9	3.2	1.1	94.7	1.0	8.1	2.6	0.941	1.0
53		580.9	582.0	3.3	1.0	94.8	0.9	8.3	2.4	0.949	1.0
54		582.0	587.0	0.0B	0.0B	0.0B	0.0B	5.4	0.0B	0.000B	0.0B
55		587.0	589.4	0.9	0.9	97.3	0.9	2.4	2.2	0.920	1.0
56		589.4	591.8	1.1	0.8	97.6	0.5	2.9	1.9	0.920	1.0
57		591.8	592.0	0.0B	0.0B	0.0B	0.0B	2.0	0.0B	0.000B	0.0B
58		592.0	595.0	0.4	0.5	98.3	0.8	1.1	1.2	0.920	1.0
59		595.0	598.0	0.7	1.1	97.6	0.6	1.8	2.6	0.920	1.0
60		598.0	601.0	1.2	0.6	97.3	0.9	3.1	1.4	0.920	1.0
61		601.0	604.2	0.7	0.8	97.5	1.0	1.9	1.9	0.920	1.0
62		604.2	605.3	4.6	1.3	90.2	3.9	11.9	3.1	0.931	1.0
63		605.3	606.4	4.1	1.5	92.9	1.5	10.4	3.6	0.939	1.0
64		606.4	607.5	4.0	1.3	93.7	1.0	10.2	3.1	0.941	1.0
65		607.5	609.0	2.6	1.3	95.6	0.5	6.5	3.1	0.941	1.0
66		609.0	610.0	0.9	2.7	95.8	0.6	2.3	6.5	0.920	1.0
67		610.0	611.3	1.7	1.8	96.0	0.5	4.3	4.3	0.920	1.0
68		611.3	612.6	1.8	1.2	96.3	0.7	4.8	2.9	0.920	1.0
69		612.6	613.8	3.6	0.9	94.4	1.1	9.1	2.2	0.932	1.0
70		613.8	615.0	3.2	0.4	95.5	0.9	8.3	1.0	0.931	1.0
71		615.0	616.0	3.8	0.3	95.2	0.7	9.8	0.7	0.927	1.0
72		616.0	617.0	3.2	0.3	95.8	0.7	8.1	0.7	0.930	1.0
73		617.0	618.0	3.4	0.4	95.4	0.8	8.8	1.0	0.933	1.0
74		618.0	619.0	3.0	0.4	95.9	0.7	7.7	1.0	0.939	1.0
75		619.0	620.2	0.6	1.5	97.0	0.9	1.6	3.6	0.920	1.0
76		620.2	621.4	1.1	2.3	96.0	0.6	2.8	5.5	0.920	1.0
77		621.4	623.1	4.6	2.2	92.1	1.1	11.7	5.3	0.933	1.0
78		623.1	624.5	4.6	2.6	91.9	0.9	11.7	6.2	0.936	1.0
79		624.5	625.8	4.8	2.3	91.9	1.0	12.3	5.5	0.937	1.0
80		625.8	627.3	4.3	1.6	93.0	1.1	11.0	3.8	0.939	1.0
81		627.3	629.0	0.0B	0.0B	0.0B	0.0B	7.2	0.0B	0.000B	0.0B
82		629.0	631.0	1.3	2.2	95.0	1.5	3.4	5.3	0.920	1.0
83		631.0	632.9	0.2	2.9	96.4	0.5	0.6	7.0	0.920	1.0
84		632.9	633.9	4.3	1.9	92.6	1.2	10.9	4.6	0.940	1.0
85		633.9	634.9	2.5	2.1	94.5	0.9	6.4	5.0	0.949	1.0
86		634.9	636.9	3.2	2.0	93.9	0.9	8.3	4.8	0.938	1.0
87		636.9	637.9	6.7	1.5	90.2	1.6	17.2	3.6	0.934	1.0
88		637.9	638.9	4.0	1.4	93.7	0.9	10.2	3.4	0.942	1.0
89		638.9	640.0	3.2	0.8	93.8	2.2	8.2	1.9	0.937	1.0
90		640.0	641.0	2.6	0.9	95.6	0.9	6.7	2.2	0.938	1.0
91		641.0	643.2	0.0B	0.0B	0.0B	0.0B	9.2	0.0B	0.000B	0.0B
92		643.2	644.2	4.5	1.5	92.9	1.1	11.6	3.6	0.937	1.0
93		644.2	645.9	4.8	0.4	93.9	0.9	12.2	1.0	0.932	1.0
94		645.9	647.0	1.0	0.3	98.2	0.5	2.6	0.7	0.920	1.0
95		647.0	648.0	1.4	0.2	97.6	0.8	3.6	0.5	0.920	1.0
96		648.0	649.0	2.7	0.3	95.9	1.1	6.8	0.7	0.933	1.0
97		649.0	650.0	1.9	0.5	96.7	0.9	5.0	1.2	0.920	1.0
98		650.0	651.0	2.5	0.9	95.8	0.8	6.4	2.2	0.933	1.0
99		651.0	652.0	2.0	1.1	96.4	0.5	5.1	2.6	0.920	1.0
100		652.0	653.0	2.4	0.9	96.0	0.7	6.1	2.2	0.938	1.0

:/SALINE DATA ANALYSIS - U S G S(03/23/75)

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SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
	653.0	654.0	1.5	0.6	97.4	0.5	3.8	1.4	0.920	1.0
	654.0	655.0	1.4	0.7	97.3	0.6	3.6	1.7	0.920	1.0
	655.0	656.0	1.9	0.7	96.4	1.0	4.9	1.7	0.920	1.0
	656.0	657.0	1.1	0.8	97.6	0.5	2.9	1.9	0.920	1.0
	657.0	658.0	1.2	0.2	97.8	0.8	3.1	0.5	0.920	1.0
	658.0	659.0	0.6	0.6	98.2	0.6	1.6	1.4	0.920	1.0
	659.0	660.0	0.4	0.6	98.2	0.8	1.2	1.4	0.920	1.0
	660.0	661.2	0.6	0.6	98.1	0.7	1.5	1.4	0.920	1.0
	661.2	662.4	0.5	0.8	98.3	0.4	1.2	1.9	0.920	1.0
	662.4	663.5	0.6	0.9	98.9	0.6	1.6	2.2	0.920	1.0
	663.5	664.5	1.6	1.2	96.7	0.5	4.1	2.9	0.920	1.0
	664.5	665.5	1.7	1.3	96.4	0.6	4.4	3.1	0.920	1.0
	665.5	667.1	0.8	0.9	97.6	0.7	2.0	2.2	0.920	1.0
	667.1	668.5	1.4	1.2	96.7	0.7	3.6	2.9	0.920	1.0
	668.5	670.0	0.0B	0.0B	0.0B	0.0B	3.4	0.0B	0.000B	0.0B
	670.0	671.0	0.9	1.1	97.3	0.7	2.2	2.6	0.920	1.0
	671.0	672.0	2.3	1.3	95.6	0.8	6.1	3.1	0.924	1.0
	672.0	673.0	1.6	1.2	96.7	0.5	4.3	2.9	0.920	1.0
	673.0	675.0	1.4	2.3	95.8	0.5	3.7	5.5	0.920	1.0
	675.0	677.4	0.9	2.9	95.4	0.9	2.3	7.0	0.920	1.0
	677.4	678.0	3.4	1.8	93.2	1.6	8.6	4.3	0.941	1.0
	678.0	680.0	4.1	1.7	92.7	1.5	10.6	4.1	0.939	1.0
	680.0	685.0	0.0B	0.0B	0.0B	0.0B	6.5	0.0B	0.000B	0.0B
	685.0	687.0	0.9	0.1	98.2	0.8	2.4	0.1	0.920	1.0
	687.0	689.0	1.7	0.9	96.5	0.9	4.4	2.2	0.920	1.0
	689.0	690.7	1.4	1.7	96.3	0.6	3.8	4.1	0.920	1.0
	690.7	691.7	4.7	0.6	93.1	1.6	12.1	1.4	0.923	1.0
	691.7	694.0	0.9	2.2	96.2	0.7	2.4	5.3	0.920	1.0
	694.0	696.0	0.5	2.8	95.8	0.9	1.3	6.7	0.920	1.0
	696.0	698.0	0.6	3.1	95.9	0.4	1.4	7.4	0.920	1.0
	698.0	700.0	0.4	1.9	97.0	0.7	1.1	4.6	0.920	1.0
	700.0	702.0	0.3	2.6	96.6	0.5	0.8	6.2	0.920	1.0
	702.0	703.4	0.5	2.7	96.2	0.6	1.2	6.5	0.920	1.0
	703.4	704.7	1.6	0.7	97.0	0.7	4.1	1.8	0.920	1.0
	704.7	706.1	1.5	4.0	92.8	1.7	3.9	9.6	0.920	1.0
	706.1	708.0	0.6	3.4	95.6	0.4	1.6	8.1	0.920	1.0
	708.0	710.0	0.5	2.3	96.8	0.4	1.3	5.5	0.920	1.0
	710.0	712.0	2.4	2.3	94.3	1.0	6.3	5.5	0.922	1.0
	712.0	714.0	0.4	3.0	96.0	0.6	1.1	7.2	0.920	1.0
	714.0	715.3	0.7	2.0	96.7	0.6	1.7	4.8	0.920	1.0
	715.3	720.0	0.0B	0.0B	0.0B	0.0B	1.8	0.0B	0.000B	0.0B
	720.0	722.0	0.7	3.0	95.7	0.6	1.8	7.2	0.920	1.0
	722.0	724.0	0.7	1.8	96.9	0.6	1.9	4.3	0.920	1.0
	724.0	726.0	1.4	1.1	97.1	0.4	3.5	2.6	0.920	1.0
	726.0	728.0	1.8	1.2	96.3	0.7	4.6	2.9	0.920	1.0
	728.0	730.0	0.6	0.9	97.3	1.2	1.7	2.0	0.920	1.0
	730.0	735.0	0.0B	0.0B	0.0B	0.0B	1.7	0.0B	0.000B	0.0B
	735.0	737.0	0.1	2.0	97.5	0.4	0.0B	4.8	0.920	1.0
	737.0	739.0	0.1	2.1	96.9	0.9	0.2	5.0	0.920	1.0
	739.0	741.0	0.2	1.7	97.6	0.5	0.5	4.1	0.920	1.0

SHALE/SAMPLE DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-FD	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
151		741.0	742.4	0.1	1.5	97.7	0.7	0.2	3.6	0.920	1.0
152		742.4	743.8	0.2	1.9	97.1	0.8	0.5	4.6	0.920	1.0
153		743.8	744.6	4.6	1.7	92.4	1.3	12.0	4.1	0.928	1.0
154		744.6	745.8	7.2	1.9	89.2	1.7	18.7	4.6	0.922	1.0
155		745.8	746.9	4.3	1.2	92.6	1.9	11.2	2.9	0.925	1.0
156		746.9	747.9	5.1	1.4	92.3	1.2	13.3	3.4	0.919	1.0
157		747.9	748.9	7.0	1.6	82.3	2.1	18.4	3.8	0.912	1.0
158		748.9	750.0	0.9	1.9	96.6	0.6	2.3	4.6	0.920	1.0
159		750.0	752.0	0.7	1.1	97.3	0.9	1.9	2.6	0.920	1.0
160		752.0	754.0	0.5	0.7	97.9	0.9	1.4	1.7	0.920	1.0
161		754.0	756.0	0.5	1.0	97.1	1.4	1.2	2.4	0.920	1.0
162		756.0	758.0	0.4	0.9	98.2	1.5	1.0	2.2	0.920	1.0
163		758.0	759.3	0.3	0.9	98.4	0.4	0.9	2.2	0.920	1.0
164		759.3	760.6	0.4	1.7	97.3	0.6	1.1	4.0	0.920	1.0
165		760.6	761.6	2.3	0.3	96.2	1.2	6.1	0.6	0.920	1.0
166		761.6	762.6	2.1	0.5	96.1	1.3	5.4	1.2	0.928	1.0
167		762.6	763.7	2.1	0.4	95.2	2.3	5.4	1.0	0.920	1.0
168		763.7	764.7	1.4	0.6	96.9	1.1	3.7	1.4	0.920	1.0
169		764.7	765.7	1.4	1.0	97.1	0.5	3.6	2.4	0.920	1.0
170		765.7	766.8	2.3	0.5	96.6	0.6	5.9	1.2	0.927	1.0
171		766.8	767.9	5.3	0.5	92.8	1.4	13.8	1.2	0.921	1.0
172		767.9	769.0	2.1	0.8	96.4	0.7	5.5	1.9	0.929	1.0
173		769.0	770.0	2.7	0.8	95.3	1.2	7.0	1.9	0.930	1.0
174		770.0	771.0	2.0	0.5	96.2	1.3	5.2	1.2	0.936	1.0
175		771.0	772.0	1.7	0.5	97.0	0.8	4.5	1.2	0.920	1.0
176		772.0	773.0	0.9	0.5	98.1	0.5	2.5	1.2	0.920	1.0
177		773.0	774.0	0.8	0.4	98.0	0.8	2.2	1.0	0.920	1.0
178		774.0	775.0	0.5	0.5	98.4	0.6	1.4	1.2	0.920	1.0
179		775.0	776.4	0.6	0.5	99.1	0.8	1.7	1.2	0.920	1.0
180		776.1	776.8	0.0B	0.0B	0.0B	0.0B	1.8	0.0B	0.000B	0.0B
181		776.8	778.0	0.7	0.7	97.9	0.7	1.8	1.7	0.920	1.0
182		778.0	779.0	1.7	0.5	96.9	0.9	4.3	1.2	0.920	1.0
183		779.0	780.4	4.4	1.0	92.9	1.7	11.4	2.4	0.926	1.0
184		780.4	781.0	0.0B	0.0B	0.0B	0.0B	0.0B	0.0B	0.000B	0.0B
185		781.0	782.0	6.7	1.8	89.2	2.3	17.7	4.2	0.915	1.0
186		782.0	783.0	3.6	1.4	93.9	1.1	9.4	3.4	0.924	1.0
187		783.0	784.0	7.4	1.4	88.6	2.6	19.5	3.4	0.913	1.0
188		784.0	785.0	7.2	1.5	89.4	1.9	18.8	3.6	0.915	1.0
189		785.0	786.0	12.0	1.3	84.3	2.4	31.6	3.1	0.912	1.0
190		786.0	787.0	6.4	1.3	90.6	1.7	16.8	3.1	0.914	1.0
191		787.0	788.0	7.8	1.4	88.7	2.1	20.5	3.4	0.913	1.0
192		788.0	789.0	6.1	1.4	90.9	1.6	16.0	3.4	0.914	1.0
193		789.0	790.0	4.4	2.3	91.8	1.5	11.5	5.5	0.922	1.0
194		790.0	791.0	4.5	1.4	92.2	1.9	11.7	3.4	0.921	1.0
195		791.0	792.0	5.0	2.4	91.1	1.5	12.9	5.8	0.924	1.0
196		792.0	793.0	6.4	2.0	90.1	1.5	16.6	4.8	0.924	1.0
197		793.0	794.2	5.5	1.0	90.8	2.7	14.1	2.4	0.931	1.0
198		794.2	795.9	9.5	1.4	86.1	3.0	24.7	3.4	0.924	1.0
199		795.9	797.0	5.8	1.1	90.3	2.8	15.0	2.6	0.925	1.0
200		797.0	798.0	8.2	1.5	88.5	1.8	21.4	3.6	0.912	1.0

E/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 1/29/75

USGS CR2 1N 97W 36

SAMPLE I D	DEPTH-ST	DEPTH-FD	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
	798.0	799.1	10.4	2.2	84.0	3.4	27.3	5.2	0.917	1.0
	799.1	800.2	13.9	2.0	79.5	4.6	36.4	4.8	0.918	1.0
	800.2	801.4	9.7	1.9	85.6	2.8	25.4	4.6	0.911	1.0
	801.4	802.7	11.0	1.5	84.6	2.9	29.0	3.6	0.907	1.0
	802.7	804.0	9.0	1.2	86.8	3.0	23.6	2.9	0.913	1.0
	804.0	805.0	8.2	1.5	87.9	2.4	21.3	3.6	0.916	1.0
	805.0	806.0	7.4	1.4	88.7	2.5	19.2	3.4	0.919	1.0
	806.0	807.0	5.1	1.7	91.8	1.4	13.2	4.1	0.924	1.0
	807.0	808.1	4.7	1.7	92.1	1.5	12.2	4.1	0.927	1.0
	808.1	809.2	7.6	1.6	88.6	2.2	19.8	3.8	0.923	1.0
	809.2	810.3	8.5	1.8	86.6	3.1	22.1	4.3	0.918	1.0
	810.3	811.4	7.2	1.6	89.7	1.5	18.7	3.8	0.919	1.0
	811.4	812.5	4.8	1.9	92.0	1.3	12.3	4.6	0.926	1.0
	812.5	813.5	5.0	1.8	91.7	1.5	13.0	4.3	0.924	1.0
	813.5	814.5	4.9	1.2	92.2	1.7	12.8	2.9	0.923	1.0
	814.5	815.5	3.7	2.0	92.6	1.7	9.6	4.8	0.927	1.0
	815.5	816.5	3.3	1.8	93.3	1.6	8.5	4.3	0.927	1.0
	816.5	817.5	3.4	1.9	93.1	1.6	8.8	4.6	0.925	1.0
	817.5	818.5	2.7	1.5	95.1	0.7	6.9	3.6	0.924	1.0
	818.5	819.6	3.2	1.8	93.6	1.4	8.3	4.3	0.925	1.0
	819.6	820.6	3.9	1.9	92.7	1.5	10.1	4.6	0.920	1.0
	820.6	821.7	3.0	1.5	94.5	1.0	7.8	3.6	0.925	1.0
	821.7	822.7	3.9	1.4	92.3	2.4	10.2	3.4	0.924	1.0
	822.7	823.9	11.7	1.5	83.0	3.8	30.4	3.6	0.924	1.0
	823.9	825.0	13.9	1.7	80.9	3.5	36.3	4.1	0.916	1.0
	825.0	826.0	9.5	1.6	86.5	2.4	24.8	3.8	0.917	1.0
	826.0	827.1	8.3	1.7	87.4	2.6	21.9	4.1	0.914	1.0
	827.1	828.2	7.9	1.6	88.5	2.0	20.9	3.8	0.909	1.0
	828.2	829.2	9.5	1.6	86.8	2.1	25.0	3.9	0.911	1.0
	829.2	830.5	6.4	1.1	91.1	1.4	17.1	2.6	0.906	1.0
	830.5	831.7	7.0	1.1	90.1	1.8	18.6	2.6	0.904	1.0
	831.7	832.7	10.2	1.9	84.7	3.2	26.5	4.6	0.922	1.0
	832.7	833.7	10.4	2.0	84.7	2.9	27.3	4.8	0.915	1.0
	833.7	834.8	9.7	1.9	85.6	2.8	25.2	4.6	0.924	1.0
	834.8	835.8	10.5	1.7	84.9	2.9	27.4	4.1	0.919	1.0
	835.8	836.9	7.2	1.5	89.1	2.2	19.0	3.6	0.903	1.0
	836.9	837.6	12.2	1.4	83.8	2.6	32.4	3.4	0.907	1.0
	837.6	841.0	0.0B	0.0B	0.0B	0.0B	27.4	0.0B	0.000B	0.0B
	841.0	842.0	20.0	1.7	73.9	4.4	52.4	4.1	0.913	2.0
	842.0	843.0	20.9	1.8	72.4	4.9	54.6	4.3	0.919	1.0
	843.0	844.0	19.1	1.6	74.5	4.8	50.0	3.8	0.916	1.0
	844.0	845.0	15.8	1.0	78.4	4.8	41.5	2.4	0.917	1.0
	845.0	846.0	14.9	0.6	79.5	5.0	39.2	1.4	0.914	1.0
	846.0	847.0	12.7	2.2	81.1	4.0	33.2	5.3	0.918	1.0
	847.0	848.0	15.0	2.0	79.9	3.1	39.2	4.8	0.914	1.0
	848.0	849.0	12.2	1.8	82.3	3.7	31.8	4.3	0.917	1.0
	849.0	850.0	11.2	2.1	83.5	3.2	29.2	5.0	0.921	1.0
	850.0	851.0	9.2	2.0	85.9	2.9	24.0	4.8	0.920	1.0
	851.0	852.0	9.5	1.2	87.1	2.2	24.8	2.9	0.915	1.0
	852.0	853.0	10.0	1.5	86.2	2.3	26.3	3.6	0.909	1.0

SHALE/... 'INF' DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS CR2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
251		853.0	854.0	14.8	1.8	80.1	3.3	39.2	4.3	0.907	1.0
252		854.0	855.0	16.9	1.6	77.4	4.1	44.4	3.8	0.913	1.0
253		855.0	856.0	16.1	1.6	74.3	8.0	41.9	3.8	0.921	1.0
254		856.0	857.0	15.8	1.6	77.7	4.9	40.8	3.8	0.925	1.0
255		857.0	858.0	9.4	1.5	86.2	2.9	24.6	3.6	0.920	1.0
256		858.0	859.0	9.2	1.0	87.1	2.7	23.9	2.4	0.918	1.0
257		859.0	860.3	7.8	1.3	88.7	2.2	20.3	3.1	0.916	1.0
258		860.3	861.9	8.6	1.3	87.5	2.6	22.4	3.1	0.921	1.0
259		861.9	863.0	9.5	1.0	86.8	2.7	25.0	2.4	0.911	1.0
260		863.0	864.0	16.9	1.8	76.2	5.1	44.9	4.3	0.904	1.0
261		864.0	865.0	17.5	1.3	76.4	4.8	46.5	3.1	0.901	1.0
262		865.0	866.0	17.1	1.1	77.9	3.9	45.5	2.6	0.902	1.0
263		866.0	867.0	15.1	1.1	80.8	3.0	40.0	2.6	0.902	1.0
264		867.0	868.0	14.7	0.8	80.7	3.8	39.4	1.9	0.894	1.0
265		868.0	869.0	11.0	1.0	85.2	2.8	29.3	2.4	0.899	1.0
266		869.0	870.0	9.1	1.4	85.7	3.8	24.4	3.4	0.894	1.0
267		870.0	871.0	9.7	1.4	84.5	4.4	26.1	3.4	0.894	1.0
268		871.0	872.0	10.1	1.1	84.8	4.0	27.3	2.6	0.889	1.0
269		872.0	873.5	13.8	0.7	81.9	3.6	36.8	1.7	0.901	1.0
270		873.5	874.6	16.7	0.9	77.3	5.1	43.8	2.2	0.915	1.0
271		874.6	875.9	7.2	1.4	89.2	2.2	19.0	3.4	0.915	1.0
272		875.9	877.2	9.5	0.8	87.4	2.3	24.9	1.9	0.914	1.0
273		877.2	878.9	5.4	0.4	92.4	1.8	14.3	1.0	0.914	1.0
274		878.9	880.0	11.3	0.6	85.3	2.8	29.7	1.4	0.913	1.0
275		880.0	881.0	12.0	0.5	84.9	2.6	31.5	1.2	0.911	1.0
276		881.0	882.0	11.1	0.5	85.5	2.9	29.3	1.2	0.912	1.0
277		882.0	883.2	9.6	0.5	87.3	2.6	25.2	1.2	0.914	1.0
278		883.2	884.4	6.0	1.2	90.7	2.1	15.7	2.9	0.917	1.0
279		884.4	885.6	6.0	1.2	90.7	2.1	15.6	2.9	0.924	1.0
280		885.6	886.6	6.7	0.5	91.3	1.5	17.7	1.2	0.912	1.0
281		886.6	889.0	0.0B	0.0B	0.0B	0.0B	15.9	0.0B	0.000B	0.0B
282		889.0	890.2	5.5	0.3	93.0	1.2	14.5	0.7	0.909	1.0
283		890.2	891.4	13.1	0.6	83.6	2.7	35.0	1.4	0.898	1.0
284		891.4	892.4	8.3	0.5	89.2	2.0	22.2	1.2	0.901	1.0
285		892.4	892.8	0.0B	0.0B	0.0B	0.0B	17.6	0.0B	0.000B	0.0B
286		892.8	893.5	7.5	0.6	90.2	1.7	19.9	1.4	0.898	1.0
287		893.5	894.5	12.4	0.7	84.0	2.9	33.2	1.7	0.898	1.0
288		894.5	895.5	14.0	0.7	82.3	3.0	37.6	1.7	0.893	1.0
289		895.5	896.8	15.1	0.8	80.8	3.3	40.2	1.9	0.900	1.0
290		896.8	897.7	12.5	0.8	82.8	3.9	33.1	1.9	0.904	1.0
291		897.7	898.7	12.2	0.7	84.1	3.0	32.3	1.7	0.904	1.0
292		898.7	899.7	11.6	1.0	84.5	2.9	30.7	2.4	0.910	1.0
293		899.7	900.7	12.8	1.0	83.0	3.2	33.7	2.4	0.911	1.0
294		900.7	902.0	0.0B	0.0B	0.0B	0.0B	36.5	0.0B	0.000B	0.0B
295		902.0	903.0	14.8	0.7	81.2	3.3	39.3	1.7	0.902	1.0
296		903.0	904.0	15.1	0.8	81.0	3.1	39.9	1.9	0.906	1.0
297		904.0	905.3	15.7	0.9	79.3	4.1	41.5	2.2	0.905	1.0
298		905.3	906.8	11.7	0.9	84.3	3.1	30.9	2.2	0.904	1.0
299		906.8	908.0	0.0B	0.0B	0.0B	0.0B	32.0	0.0B	0.000B	0.0B
300		908.0	909.0	12.8	1.0	82.8	3.4	33.5	2.4	0.912	1.0

HALE/SALINE A ANALYSIS - U S G S(03/23/75) D. 7/29/75

USGS CR2 .1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
301		909.0	910.0	10.3	1.1	86.1	2.5	26.9	2.6	0.919	1.0
302		910.0	911.0	7.5	0.8	89.7	2.0	19.5	1.9	0.924	1.0
303		911.0	912.0	6.6	0.6	91.3	1.5	17.0	1.4	0.924	1.0
304		912.0	913.0	5.0	0.5	93.3	1.2	12.9	1.2	0.922	1.0
305		913.0	914.0	6.8	0.6	90.8	1.8	17.8	1.4	0.921	1.0
306		914.0	915.0	7.4	0.5	89.7	2.4	19.3	1.2	0.923	1.0
307		915.0	916.0	10.2	0.8	86.4	2.6	26.3	1.9	0.930	1.0
308		916.0	917.0	9.6	1.0	86.6	2.8	25.0	2.4	0.921	1.0
309		917.0	918.1	6.7	1.8	89.1	2.4	17.3	4.3	0.922	1.0
310		918.1	919.1	8.7	1.1	87.6	2.6	22.6	2.6	0.920	1.0
311		919.1	923.0	0.0B	0.0B	0.0B	0.0B	11.4	0.0B	0.000B	0.0B
312		923.0	924.5	0.1	25.7	72.9	1.4	0.3	61.6	0.920	1.0
313		924.5	926.2	0.1	26.9	71.9	1.1	0.2	64.5	0.920	1.0
314		926.2	927.0	0.0B	0.0B	0.0B	0.0B	0.2	0.0B	0.000B	0.0B
315		927.0	928.6	0.0	18.3	81.3	0.4	0.0B	43.8	0.000B	1.0
316		928.6	930.3	0.1	17.1	82.6	0.2	0.2	41.0	0.920	1.0
317		930.3	930.9	0.0B	0.0B	0.0B	0.0B	9.8	0.0B	0.000B	0.0B
318		930.9	932.0	7.0	1.2	89.9	1.9	18.6	2.9	0.901	1.0
319		932.0	933.0	6.7	0.9	89.8	2.6	17.8	2.2	0.901	1.0
320		933.0	934.0	5.6	1.1	90.3	2.0	17.5	2.6	0.900	1.0
321		934.0	935.0	2.7	2.0	93.7	1.6	7.0	4.8	0.911	1.0
322		935.0	936.0	2.5	2.3	93.5	1.7	6.6	5.5	0.916	1.0
323		936.0	937.2	3.7	2.0	92.8	1.5	9.8	4.8	0.913	1.0
324		937.2	938.4	3.9	1.7	92.2	2.2	10.2	4.1	0.916	1.0
325		938.4	939.6	15.2	1.4	79.2	4.2	39.8	3.4	0.916	1.0
326		939.6	941.0	7.4	1.8	89.0	1.8	19.3	4.3	0.923	1.0
327		941.0	942.4	5.7	1.9	89.1	3.3	14.7	4.6	0.925	1.0
328		942.4	943.7	4.1	1.4	91.9	2.6	10.9	3.4	0.907	1.0
329		943.7	944.7	3.0	1.0	94.4	1.6	7.9	2.4	0.907	1.0
330		944.7	945.8	8.[illegible]	1.2	87.8	2.8	21.6	2.9	0.912	1.0
331		945.8	947.1	9.2	1.1	86.9	2.8	24.2	2.6	0.917	1.0
332		947.1	948.8	15.2	1.3	79.3	4.2	39.5	3.1	0.920	1.0
333		948.8	950.1	0.0B	0.0B	0.0B	0.0B	30.7	0.0B	0.000B	0.0B
334		950.1	951.0	8.3	1.0	88.4	2.3	21.9	2.4	0.915	1.0
335		951.0	953.0	0.0B	0.0B	0.0B	0.0B	22.3	0.0B	0.000B	0.0B
336		953.0	954.0	8.6	1.0	88.1	2.3	22.6	2.4	0.916	1.0
337		954.0	955.2	9.3	0.9	86.7	3.1	24.3	2.2	0.918	1.0
338		955.2	956.2	9.0	1.3	87.0	2.7	23.7	3.1	0.913	1.0
339		956.2	957.2	7.7	1.2	88.7	2.4	20.2	2.9	0.915	1.0
340		957.2	958.2	10.9	1.1	85.0	3.0	28.5	2.6	0.914	1.0
341		958.2	960.0	0.0B	0.0B	0.0B	0.0B	25.0	0.0B	0.000B	0.0B
342		960.0	961.4	8.4	1.1	88.5	2.0	22.0	2.5	0.916	1.0
343		961.4	962.6	7.2	1.0	89.9	1.9	19.0	2.4	0.917	1.0
344		962.6	973.0	0.0B	0.0B	0.0B	0.0B	17.9	0.0B	0.000B	0.0B
345		973.0	974.0	6.3	0.6	91.6	1.5	16.7	1.4	0.910	1.0
346		974.0	975.8	6.6	0.4	91.6	1.4	17.2	1.0	0.916	1.0
347		975.8	977.0	7.7	0.4	89.4	2.5	20.1	1.0	0.920	1.0
348		977.0	978.0	8.7	0.5	88.8	2.0	22.9	1.2	0.914	1.0
349		978.0	978.3	0.0B	0.0B	0.0B	0.0B	23.9	0.0B	0.000B	0.0B
350		978.3	979.5	9.4	0.7	87.8	2.1	24.8	1.7	0.911	1.0

SHALE/ .INE DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/

USGS CR2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
351		979.5	980.5	5.2	0.7	92.1	2.0	13.7	1.7	0.916	1.0
352		980.5	981.5	2.0	0.6	96.8	0.6	5.1	1.4	0.920	1.0
353		981.5	982.8	0.0B	0.0B	0.0B	0.0B	6.2	0.0B	0.000B	0.0B
354		982.8	984.0	2.8	0.7	95.5	1.0	7.3	1.7	0.921	1.0
355		984.0	985.5	1.4	0.6	96.7	1.1	3.7	1.9	0.920	1.0
356		985.5	987.0	0.0B	0.0B	0.0B	0.0B	4.0	0.0B	0.000B	0.0B
357		987.0	988.8	1.6	0.4	96.6	1.4	4.3	1.0	0.920	1.0
358		988.8	990.0	2.0	0.4	96.7	0.9	5.2	1.0	0.920	1.0
359		990.0	991.0	4.1	0.8	93.7	1.4	10.7	1.9	0.913	1.0
360		991.0	1002.0	0.0B	0.0B	0.0B	0.0B	7.4	0.0B	0.000B	0.0B
361		1002.0	1004.0	1.6	0.3	97.2	0.9	4.2	0.7	0.920	1.0
362		1004.0	1005.0	1.1	0.6	97.7	0.6	2.8	1.4	0.920	1.0
363		1005.0	1006.0	0.8	0.7	97.5	1.0	2.2	1.7	0.920	1.0
364		1006.0	1008.0	0.9	0.6	97.8	0.7	2.3	1.4	0.920	1.0
365		1008.0	1009.2	1.4	0.3	96.8	1.5	3.6	0.7	0.920	1.0
366		1009.2	1012.0	0.0B	0.0B	0.0B	0.0B	6.7	0.0B	0.000B	0.0B
367		1012.0	1013.4	3.7	0.8	94.2	1.3	9.8	1.9	0.906	1.0
368		1013.4	1014.8	1.7	0.3	96.6	1.4	4.5	0.7	0.920	1.0
369		1014.8	1016.0	11.0	0.3	85.8	2.9	29.2	0.7	0.907	1.0
370		1016.0	1017.2	11.5	0.4	85.1	3.0	30.3	1.0	0.907	1.0
371		1017.2	1018.3	9.7	0.6	86.6	3.1	25.8	1.4	0.902	1.0
372		1018.3	1019.6	6.2	0.6	91.3	1.9	16.4	1.4	0.900	1.0
373		1019.6	1021.0	6.1	0.5	91.2	2.2	16.3	1.2	0.902	1.0
374		1021.0	1022.0	18.0	0.8	77.8	3.4	47.7	1.9	0.904	2.0
375		1022.0	1023.0	16.3	0.7	79.9	3.1	43.2	1.7	0.904	1.0
376		1023.0	1024.0	16.0	0.6	79.6	3.8	42.5	1.4	0.905	1.0
377		1024.0	1025.0	13.2	0.5	83.5	2.8	35.2	1.3	0.898	1.0
378		1025.0	1026.0	13.0	0.6	83.5	2.9	34.6	1.4	0.893	1.0
379		1026.0	1027.0	11.7	0.6	84.9	2.8	31.3	1.4	0.895	1.0
380		1027.0	1028.0	10.0	0.5	87.0	2.5	26.7	1.2	0.894	1.0
381		1028.0	1029.0	6.5	0.6	90.9	2.0	17.4	1.4	0.901	1.0
382		1029.0	1030.0	5.6	0.6	92.1	1.7	14.7	1.4	0.906	1.0
383		1030.0	1031.0	6.0	0.7	91.3	2.0	15.8	1.7	0.909	1.0
384		1031.0	1032.3	6.3	0.6	91.2	1.9	16.6	1.4	0.907	1.0
385		1032.3	1033.3	4.4	0.8	93.1	1.7	11.7	1.8	0.909	1.0
386		1033.3	1034.3	8.9	0.6	88.5	2.0	23.4	1.4	0.909	1.0
387		1034.3	1035.3	5.4	0.4	92.7	1.5	14.3	1.0	0.909	1.0
388		1035.3	1036.3	6.5	0.5	90.6	2.4	17.0	1.2	0.914	1.0
389		1036.3	1038.0	4.2	0.2	94.1	1.5	10.9	0.6	0.914	1.0
390		1038.0	1044.0	0.0B	0.0B	0.0B	0.0B	13.0	0.0B	0.000B	0.0B
391		1044.0	1045.0	5.8	0.5	90.9	2.8	15.1	1.2	0.920	1.0
392		1045.0	1046.0	4.7	0.9	92.2	2.2	12.4	2.2	0.904	1.0
393		1046.0	1047.0	4.8	0.4	92.4	2.4	12.6	1.0	0.907	1.0
394		1047.0	1048.0	7.5	0.8	88.6	3.1	19.9	1.9	0.904	1.0
395		1048.0	1049.0	4.6	0.7	92.7	2.0	12.2	1.7	0.908	1.0
396		1049.0	1050.0	7.2	0.9	88.4	3.5	19.3	2.2	0.898	1.0
397		1050.0	1051.0	8.0	0.8	87.9	3.3	21.3	1.9	0.898	1.0
398		1051.0	1052.0	8.4	0.7	88.2	2.7	22.4	1.7	0.896	1.0
399		1052.0	1053.0	8.6	0.6	88.4	2.4	23.2	1.3	0.893	1.0
400		1053.0	1054.0	8.2	0.8	88.4	2.6	22.2	1.8	0.891	1.0

ALE/SALINE D. A ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS CP2 1N 97W 36

BS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
01		1054.0	1055.1	8.9	0.8	87.3	3.0	23.9	1.8	0.896	1.0
02		1055.1	1056.2	8.4	0.8	88.1	2.7	22.4	1.9	0.895	1.0
03		1056.2	1057.5	9.7	1.0	86.1	3.2	25.8	2.4	0.901	1.0
04		1057.5	1058.6	18.2	1.0	76.2	4.6	48.3	2.4	0.901	3.0
05		1058.6	1059.4	13.2	0.9	82.6	3.3	35.2	2.2	0.901	1.0
06		1059.4	1065.0	0.0B	0.0B	0.0B	0.0B	27.6	0.0B	0.0003	0.0B
07		1065.0	1066.5	7.5	0.8	89.2	2.5	19.9	1.9	0.905	1.0
08		1066.5	1067.7	6.1	0.5	91.5	1.9	16.1	1.2	0.904	1.0
09		1067.7	1068.7	4.5	0.7	91.0	3.8	11.9	1.7	0.912	1.0
10		1068.7	1069.7	4.1	0.7	93.2	2.0	10.8	1.7	0.911	1.0
11		1069.7	1070.7	4.8	0.8	91.9	2.5	12.8	1.9	0.911	1.0
12		1070.7	1071.7	6.8	0.8	91.8	1.6	15.2	1.9	0.911	1.0
13		1071.7	1073.0	6.0	0.9	90.8	2.3	15.8	2.2	0.920	1.0
14		1073.0	1074.2	6.1	0.9	89.3	3.7	16.0	2.2	0.919	1.0
15		1074.2	1075.2	10.0	1.1	84.4	4.5	26.1	2.6	0.921	1.0
16		1075.2	1076.3	4.6	0.5	93.1	1.8	12.0	1.2	0.922	1.0
17		1076.3	1077.4	4.3	1.2	91.3	3.2	11.2	2.9	0.915	1.0
18		1077.4	1078.5	3.9	0.5	93.2	2.4	10.3	1.2	0.909	1.0
19		1078.5	1079.5	7.3	0.9	88.5	3.3	19.4	2.2	0.901	1.0
20		1079.5	1080.5	6.8	0.7	89.5	3.0	18.2	1.7	0.902	1.0
21		1080.5	1081.4	5.7	0.8	89.6	3.9	15.3	1.9	0.898	1.0
22		1081.4	1082.1	0.0B	0.0B	0.0B	0.0B	27.4	0.0B	0.000B	0.0B
23		1082.1	1083.2	11.1	1.1	83.4	4.4	29.5	2.6	0.904	1.0
24		1083.2	1084.2	6.2	0.9	90.6	3.3	16.4	2.2	0.908	1.0
25		1084.2	1085.3	7.9	0.9	88.0	3.3	20.5	2.2	0.907	1.0
26		1085.3	1087.0	13.2	1.4	79.5	5.9	34.9	3.4	0.905	1.0
27		1087.0	1088.0	12.9	0.9	81.7	4.5	34.1	2.2	0.904	1.0
28		1088.0	1089.0	11.3	0.9	83.5	4.3	29.9	2.2	0.908	1.0
29		1089.0	1090.0	10.3	0.8	84.9	4.0	27.3	1.9	0.906	1.0
30		1090.0	1091.0	9.1	1.0	86.1	3.8	24.0	2.4	0.909	1.0
31		1091.0	1092.1	9.1	0.8	86.4	3.7	24.0	1.9	0.909	1.0
32		1092.1	1093.1	13.3	0.7	81.7	4.3	34.9	1.7	0.914	1.0
33		1093.1	1094.1	11.3	0.7	84.3	3.7	29.7	1.7	0.912	1.0
34		1094.1	1095.1	9.9	1.0	85.0	4.1	25.9	2.4	0.917	1.0
35		1095.1	1096.2	3.4	0.7	92.9	3.0	8.9	1.7	0.926	1.0
36		1096.2	1097.4	1.9	1.2	95.3	1.6	5.1	2.9	0.920	1.0
37		1097.4	1098.4	3.0	1.0	94.2	1.8	7.7	2.4	0.927	1.0
38		1098.4	1099.4	1.7	0.9	95.9	1.5	4.5	2.2	0.920	1.0
39		1099.4	1100.4	3.1	1.0	94.7	1.2	8.2	2.4	0.923	1.0
40		1100.4	1101.4	4.8	0.6	92.2	2.4	12.5	1.4	0.914	1.0
41		1101.4	1102.5	12.2	0.6	84.1	3.1	31.5	1.4	0.925	1.0
42		1102.5	1103.8	11.9	0.6	84.1	3.4	31.1	1.4	0.918	1.0
43		1103.8	1105.0	6.7	1.0	87.6	4.7	17.8	2.4	0.907	1.0
44		1105.0	1106.0	6.7	1.0	87.5	4.8	17.9	2.4	0.903	1.0
45		1106.0	1107.0	7.2	1.0	87.7	4.1	19.4	2.4	0.894	1.0
46		1107.0	1108.0	8.4	0.9	86.9	3.8	22.5	2.2	0.893	1.0
47		1108.0	1109.0	10.0	0.9	86.1	3.0	26.5	2.2	0.902	1.0
48		1109.0	1110.0	12.0	0.9	83.7	3.4	32.0	2.2	0.898	1.0
49		1110.0	1111.0	10.3	0.9	84.0	4.8	27.4	2.2	0.898	1.0
50		1111.0	1112.0	6.8	0.9	87.4	4.9	18.3	2.2	0.892	1.0

SHALE/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS C-2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
451		1112.0	1113.0	6.4	0.4	91.1	2.1	17.2	1.0	0.886	1.0
452		1113.0	1114.0	8.1	0.4	89.1	2.4	21.9	1.0	0.889	1.0
453		1114.0	1115.0	9.1	0.7	85.8	4.4	24.3	1.7	0.898	2.0
454		1115.0	1116.0	6.7	0.6	89.9	2.8	17.8	1.4	0.906	1.0
455		1116.0	1117.0	8.2	0.5	88.4	2.9	21.6	1.2	0.908	1.0
456		1117.0	1118.0	9.3	0.6	87.6	2.5	24.7	1.4	0.905	1.0
457		1118.0	1118.7	11.6	0.6	84.7	3.1	30.5	1.4	0.912	1.0
458		1118.7	1121.0	0.0B	0.0B	0.0B	0.0B	30.2	0.0B	0.0008	0.0B
459		1121.0	1122.3	11.4	0.8	84.3	3.5	29.9	1.9	0.917	1.0
460		1122.3	1123.7	7.3	0.8	87.3	4.6	19.2	1.9	0.911	1.0
461		1123.7	1125.0	9.3	0.9	85.8	4.0	24.6	2.2	0.906	1.0
462		1125.0	1126.0	6.4	0.5	89.3	3.8	17.0	1.2	0.911	1.0
463		1126.0	1127.0	4.2	0.7	92.5	2.6	10.9	1.7	0.916	1.0
464		1127.0	1128.0	11.3	0.5	85.5	2.7	29.6	1.2	0.910	1.0
465		1128.0	1129.0	13.4	0.5	82.5	3.6	35.5	1.2	0.909	1.0
466		1129.0	1130.0	11.8	0.5	84.5	3.2	31.2	1.2	0.907	1.0
467		1130.0	1131.0	10.9	0.5	85.8	2.8	28.7	1.2	0.907	1.0
468		1131.0	1132.0	10.7	0.5	85.5	3.3	28.3	1.3	0.903	1.0
469		1132.0	1133.0	12.9	0.9	80.2	6.0	34.1	2.2	0.909	1.0
470		1133.0	1134.0	12.4	0.8	84.2	2.6	32.7	1.9	0.908	1.0
471		1134.0	1135.0	12.3	0.5	84.1	3.1	32.5	1.3	0.905	1.0
472		1135.0	1136.1	12.1	0.4	84.8	2.7	31.9	1.0	0.907	1.0
473		1136.1	1137.2	13.8	0.9	81.0	4.3	36.4	2.2	0.910	1.0
474		1137.2	1138.4	5.7	1.6	88.1	4.6	15.0	3.8	0.914	1.0
475		1138.4	1139.5	5.2	1.8	88.8	4.2	13.6	4.3	0.920	1.0
476		1139.5	1141.0	3.5	2.0	89.1	5.4	9.1	4.8	0.926	1.0
477		1141.0	1142.3	2.1	1.6	90.1	6.2	5.4	3.8	0.920	1.0
478		1142.3	1143.5	2.3	2.2	88.7	6.8	5.9	5.3	0.920	1.0
479		1143.5	1144.7	1.1	2.3	87.8	8.8	3.0	5.5	0.920	1.0
480		1144.7	1146.0	0.9	2.3	87.1	9.7	2.3	5.5	0.920	1.0
481		1146.0	1147.0	2.4	2.0	88.6	7.0	6.2	4.8	0.920	1.0
482		1147.0	1148.0	3.1	1.7	88.7	6.5	8.1	4.1	0.917	1.0
483		1148.0	1149.0	8.0	1.7	83.8	6.5	20.9	4.1	0.914	1.0
484		1149.0	1150.0	3.0	1.2	91.8	4.0	7.7	2.9	0.919	1.0
485		1150.0	1151.0	2.1	1.1	92.6	4.2	5.5	2.6	0.920	1.0
486		1151.0	1152.0	6.1	0.6	90.9	2.4	16.1	1.4	0.912	1.0
487		1152.0	1153.1	8.7	0.5	87.5	3.3	22.9	1.2	0.913	1.0
488		1153.1	1154.2	10.1	0.5	86.8	2.6	26.6	1.2	0.911	1.0
489		1154.2	1155.3	8.9	0.9	86.3	3.9	23.3	2.2	0.916	1.0
490		1155.3	1156.3	10.6	0.8	84.8	3.8	27.8	1.9	0.913	1.0
491		1156.3	1157.5	4.7	0.5	93.7	1.1	12.5	1.2	0.912	1.0
492		1157.5	1158.7	3.2	0.8	94.6	1.4	8.4	1.9	0.913	1.0
493		1158.7	1159.7	8.4	0.5	88.8	2.3	22.1	1.2	0.912	1.0
494		1159.7	1161.0	0.0B	0.0B	0.0B	0.0B	24.3	0.0B	0.0008	0.0B
495		1161.0	1162.0	10.0	0.4	87.4	2.2	26.4	1.0	0.907	1.0
496		1162.0	1163.0	7.0	0.4	91.0	1.6	18.5	0.8	0.912	1.0
497		1163.0	1164.0	3.0	0.3	95.6	1.1	7.8	0.7	0.917	1.0
498		1164.0	1165.0	4.0	0.4	93.9	1.7	10.5	1.0	0.920	1.0
499		1165.0	1166.0	1.4	0.5	96.8	1.3	3.6	1.3	0.920	1.0
500		1166.0	1167.0	2.1	0.3	96.5	1.1	5.6	0.7	0.920	1.0

E/SALINE DAT. .NALYSIS - U S G S(03/23/75)

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SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
	1167.0	1168.0	10.5	0.4	86.3	2.8	27.6	1.0	0.908	1.0
	1168.0	1169.0	14.4	0.5	81.7	3.4	38.1	1.2	0.906	1.0
	1169.0	1170.0	11.5	0.4	84.3	3.8	30.5	1.0	0.906	1.0
	1170.0	1171.0	7.4	0.2	90.2	2.2	19.4	0.5	0.911	1.0
	1171.0	1172.0	12.4	0.4	83.2	4.0	32.6	1.0	0.910	1.0
	1172.0	1173.3	10.9	0.5	85.1	3.5	28.7	1.2	0.910	1.0
	1173.3	1174.5	9.3	0.5	87.7	2.5	24.5	1.2	0.910	1.0
	1174.5	1175.5	4.3	0.5	93.5	1.7	11.4	1.1	0.911	1.0
	1175.5	1176.6	7.5	0.4	90.0	2.1	19.6	1.0	0.912	1.0
	1176.6	1177.7	5.2	0.7	92.3	1.8	13.8	1.7	0.911	1.0
	1177.7	1178.9	5.8	0.6	91.5	2.1	15.2	1.4	0.909	1.0
	1178.9	1179.9	7.9	1.3	88.2	2.6	20.9	3.1	0.903	1.0
	1179.9	1180.9	6.7	1.5	89.6	2.2	17.9	3.6	0.902	1.0
	1180.9	1181.9	9.2	1.3	86.5	4.0	22.1	3.1	0.896	1.0
	1181.9	1183.0	5.6	1.5	87.4	5.5	14.8	3.6	0.905	1.0
	1183.0	1184.0	4.8	1.8	90.7	2.7	12.6	4.3	0.910	1.0
	1184.0	1185.1	4.9	1.3	90.7	3.1	12.9	3.1	0.909	1.0
	1185.1	1186.1	5.5	0.9	92.1	1.5	14.5	2.2	0.907	1.0
	1186.1	1187.1	2.8	0.8	95.6	0.8	7.5	1.9	0.909	1.0
	1187.1	1188.1	1.9	0.4	96.9	0.8	4.9	1.0	0.920	1.0
	1188.1	1189.1	1.3	0.2	98.1	0.4	3.3	0.5	0.920	1.0
	1189.1	1190.1	1.6	0.4	97.4	0.6	4.3	1.0	0.920	1.0
	1190.1	1192.0	0.0B	0.0B	0.0B	0.0B	4.6	0.0B	0.000B	0.0B
	1192.0	1193.0	1.9	0.6	96.8	0.7	5.0	1.4	0.920	1.0
	1193.0	1194.0	3.4	0.6	94.6	1.4	9.0	1.4	0.913	1.0
	1194.0	1195.0	3.9	0.8	93.7	1.6	10.3	1.9	0.907	1.0
	1195.0	1196.0	4.2	1.4	92.2	2.2	11.3	3.4	0.906	1.0
	1196.0	1197.0	4.2	1.3	91.6	2.9	11.1	3.1	0.916	1.0
	1197.0	1198.0	4.1	1.6	92.0	2.3	10.7	3.8	0.920	1.0
	1198.0	1199.0	3.0	1.5	92.5	3.0	7.8	3.5	0.924	1.0
	1199.0	1200.0	3.1	1.7	92.9	2.3	8.2	4.1	0.919	1.0
	1200.0	1201.0	2.7	1.3	95.1	0.9	7.0	3.1	0.916	1.0
	1201.0	1202.0	2.9	1.5	93.1	2.5	7.5	3.6	0.916	1.0
	1202.0	1203.0	3.7	1.9	92.3	2.1	9.6	4.6	0.921	1.0
	1203.0	1204.0	8.3	1.8	87.4	2.5	21.6	4.3	0.922	1.0
	1204.0	1205.2	9.7	1.8	85.8	2.7	25.4	4.3	0.916	1.0
	1205.2	1206.2	9.4	1.4	86.4	2.8	24.7	3.4	0.913	1.0
	1206.2	1207.2	2.9	0.7	95.6	0.8	7.6	1.7	0.913	1.0
	1207.2	1209.8	0.0B	0.0B	0.0B	0.0B	17.7	0.0B	0.000B	0.0B
	1209.8	1210.8	10.5	0.6	86.5	2.4	27.8	1.4	0.903	1.0
	1210.8	1212.0	12.0	0.5	83.3	4.2	31.7	1.2	0.904	1.0
	1212.0	1213.0	7.4	0.5	87.8	4.3	19.9	1.2	0.891	1.0
	1213.0	1214.0	8.0	0.7	86.1	5.2	21.6	1.7	0.887	1.0
	1214.0	1215.0	8.0	0.6	86.7	4.7	21.5	1.4	0.889	1.0
	1215.0	1216.0	10.0	0.9	85.2	3.9	27.0	2.2	0.889	1.0
	1216.0	1217.0	9.2	0.6	87.4	2.8	24.8	1.4	0.890	1.0
	1217.0	1218.0	5.7	0.2	92.5	1.6	15.3	0.5	0.897	1.0
	1218.0	1219.0	6.7	0.5	91.1	1.7	17.8	1.2	0.902	1.0
	1219.0	1220.0	5.4	0.4	92.7	1.5	14.3	1.0	0.905	1.0
	1220.0	1221.0	6.6	0.3	91.6	1.5	17.6	0.7	0.898	1.0

SHALE/SAI : DA ANALYSIS - U S G S(03/23/75)

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
551		1221.0	1221.9	3.3	0.4	95.1	1.2	8.7	1.0	0.912	1.0
552		1221.9	1222.2	0.0B	0.0B	0.0B	0.0B	9.0	0.0B	0.000B	0.0B
553		1222.2	1223.0	3.5	0.3	94.7	1.5	9.3	0.7	0.912	1.0
554		1223.0	1224.0	4.9	0.3	91.8	3.0	12.8	0.7	0.912	1.0
555		1224.0	1225.0	6.6	0.4	90.7	2.3	17.5	1.0	0.908	1.0
556		1225.0	1226.0	7.1	0.5	89.8	2.6	18.7	1.2	0.909	1.0
557		1226.0	1227.0	5.1	0.7	92.4	1.8	13.3	1.7	0.914	1.0
558		1227.0	1228.0	4.5	0.2	93.7	1.6	11.8	0.5	0.914	1.0
559		1228.0	1229.0	5.4	0.6	92.1	1.9	14.3	1.4	0.912	1.0
560		1229.0	1230.0	5.2	0.7	92.1	2.0	13.6	1.7	0.913	1.0
561		1230.0	1231.0	4.7	0.7	92.2	2.4	12.2	1.7	0.916	1.0
562		1231.0	1232.0	4.4	0.9	92.5	2.2	11.4	2.3	0.923	1.0
563		1232.0	1233.0	5.9	1.0	90.7	2.4	15.3	2.4	0.920	1.0
564		1233.0	1234.0	9.0	0.8	88.0	2.2	23.7	1.9	0.914	1.0
565		1234.0	1235.0	10.0	0.5	87.3	2.2	26.3	1.2	0.915	1.0
566		1235.0	1236.0	10.9	0.4	85.8	2.9	28.6	1.0	0.912	1.0
567		1236.0	1237.0	10.5	0.5	86.5	2.5	27.8	1.2	0.907	1.0
568		1237.0	1238.0	12.8	0.5	83.8	2.9	33.9	1.2	0.908	1.0
569		1238.0	1239.0	13.5	0.3	82.8	3.4	35.7	0.8	0.905	1.0
570		1239.0	1240.0	17.5	0.5	78.8	3.2	46.5	1.2	0.903	3.0
571		1240.0	1241.0	11.7	0.5	85.4	2.4	31.1	1.2	0.899	1.0
572		1241.0	1242.0	7.5	0.4	90.2	1.9	20.0	1.0	0.899	1.0
573		1242.0	1243.0	8.1	0.3	89.6	2.0	21.8	0.7	0.896	1.0
574		1243.0	1244.0	6.7	0.3	90.0	3.0	17.9	0.7	0.897	1.0
575		1244.0	1245.0	6.7	0.6	88.3	4.4	17.9	1.4	0.902	1.0
576		1245.0	1246.0	8.0	0.6	88.0	3.4	21.2	1.4	0.903	1.0
577		1246.0	1247.0	11.2	0.5	85.2	3.1	29.7	1.2	0.908	1.0
578		1247.0	1248.0	13.4	0.5	82.7	3.4	35.3	1.2	0.909	1.0
579		1248.0	1249.0	11.9	0.4	84.6	3.1	31.5	1.0	0.906	1.0
580		1249.0	1250.0	8.9	0.3	88.1	2.6	23.8	0.7	0.901	1.0
581		1250.0	1251.4	12.7	0.5	83.7	3.1	33.5	1.2	0.907	1.0
582		1251.4	1252.5	14.2	0.5	81.4	3.9	37.5	1.2	0.910	2.0
583		1252.5	1253.5	13.6	0.4	82.4	3.6	35.9	1.0	0.909	2.0
584		1253.5	1254.6	4.0	0.2	94.3	1.5	10.6	0.5	0.903	1.0
585		1254.6	1256.0	2.8	0.2	95.5	1.5	7.5	0.5	0.902	1.0
586		1256.0	1257.0	2.5	0.3	95.7	1.5	6.5	0.7	0.907	1.0
587		1257.0	1258.0	4.6	0.3	93.3	1.8	12.3	0.7	0.905	1.0
588		1258.0	1259.0	3.8	0.2	94.5	1.5	10.0	0.5	0.905	1.0
589		1259.0	1260.0	5.8	0.2	92.0	2.0	15.5	0.5	0.903	1.0
590		1260.0	1261.2	8.3	0.3	89.2	2.2	22.1	0.7	0.900	1.0
591		1261.2	1262.8	5.3	0.2	92.9	1.6	14.1	0.5	0.893	1.0
592		1262.8	1263.0	0.0B	0.0B	0.0B	0.0B	14.3	0.0B	0.000B	0.0B
593		1263.0	1263.7	5.4	0.7	91.5	2.4	14.4	1.7	0.907	1.0
594		1263.7	1265.4	3.9	0.7	93.5	1.9	10.4	1.7	0.908	1.0
595		1265.4	1266.5	5.8	0.7	91.5	2.0	15.3	1.7	0.903	1.0
596		1266.5	1267.7	4.4	0.1	94.0	1.5	11.7	0.2	0.900	1.0
597		1267.7	1269.0	3.4	0.2	95.2	1.2	8.9	0.5	0.909	1.0
598		1269.0	1270.0	2.8	0.2	96.0	1.0	7.2	0.5	0.912	1.0
599		1270.0	1271.0	2.6	0.3	95.9	1.2	6.8	0.7	0.909	1.0
600		1271.0	1272.0	3.5	0.4	94.6	1.5	9.3	1.0	0.908	1.0

E/SALINE DAT ANALYSIS - U S G S(03/23/75)

DAT 7/29/75

USGS CR2 1N 97W 36

SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	ZENDCOKE
	1272.0	1273.0	2.1	0.2	95.9	1.8	5.6	0.5	0.908	1.0
	1273.0	1274.0	5.9	0.1	92.2	1.8	15.6	0.2	0.907	1.0
	1274.0	1275.0	6.5	0.2	92.0	1.3	17.2	0.5	0.901	1.0
	1275.0	1276.0	7.0	0.3	90.9	1.8	18.6	0.7	0.907	1.0
	1276.0	1277.0	6.4	0.2	92.2	1.2	17.0	0.5	0.905	1.0
	1277.0	1278.0	5.2	0.2	93.4	1.2	13.9	0.5	0.905	1.0
	1278.0	1279.0	13.5	0.4	83.3	2.8	35.6	1.0	0.909	3.0
	1279.0	1280.0	11.8	0.4	85.4	2.4	31.2	1.0	0.909	1.0
	1280.0	1281.0	4.5	0.1	94.4	1.0	11.9	0.2	0.904	1.0
	1281.0	1282.0	5.7	0.4	92.2	1.7	15.3	1.0	0.902	1.0
	1282.0	1283.0	6.7	0.3	90.9	2.1	17.7	0.7	0.903	1.0
	1283.0	1284.0	5.6	0.4	92.3	1.7	14.8	1.0	0.904	1.0
	1284.0	1285.0	5.8	0.4	91.8	2.0	15.4	1.0	0.903	1.0
	1285.0	1286.0	5.5	0.4	92.0	2.1	14.7	1.0	0.901	1.0
	1286.0	1287.0	5.3	0.2	92.6	1.9	14.0	0.5	0.901	1.0
	1287.0	1288.0	4.5	0.2	94.1	1.2	12.0	0.5	0.903	1.0
	1288.0	1289.0	3.9	0.2	94.2	1.7	10.4	0.4	0.905	1.0
	1289.0	1290.1	3.4	0.2	95.3	1.1	8.9	0.6	0.906	1.0
	1290.1	1291.3	4.0	0.3	94.4	1.3	10.6	0.7	0.906	1.0
	1291.3	1293.0	4.2	0.3	93.5	2.0	11.2	0.7	0.904	1.0
	1293.0	1294.3	0.0B	0.0B	0.0B	0.0B	12.1	0.0B	0.000B	0.0B
	1294.3	1295.6	4.9	0.4	93.7	1.0	12.9	1.0	0.903	1.0
	1295.6	1297.0	3.8	0.3	94.9	1.0	10.1	0.7	0.904	1.0
	1297.0	1298.3	4.5	0.6	91.5	3.4	12.0	1.4	0.909	1.0
	1298.3	1299.9	2.1	0.2	97.0	0.7	5.5	0.6	0.907	1.0
	1299.9	1300.9	1.8	0.2	97.3	0.7	4.7	0.5	0.920	1.0
	1300.9	1302.4	2.0	0.2	94.4	3.4	5.1	0.6	0.920	1.0
	1302.4	1303.8	2.4	0.1	96.7	0.8	6.3	0.2	0.903	1.0
	1303.8	1304.0	0.0B	0.0B	0.0B	0.0B	7.6	0.0B	0.000B	0.0B
	1304.0	1306.0	3.4	0.3	95.0	1.3	8.9	0.7	0.906	1.0
	1306.0	1307.0	3.1	0.3	94.9	1.7	8.3	0.7	0.904	1.0
	1307.0	1308.8	3.4	0.4	93.4	2.8	9.2	1.0	0.903	1.0
	1308.8	1310.5	3.1	0.5	94.4	2.0	8.3	1.1	0.902	1.0
	1310.5	1311.7	4.2	0.3	93.4	2.1	11.1	0.8	0.907	1.0
	1311.7	1313.0	4.3	0.2	93.7	1.8	11.2	0.5	0.914	1.0
	1313.0	1314.0	2.9	0.1	95.7	1.3	7.8	0.2	0.905	1.0
	1314.0	1315.0	2.7	0.1	96.3	0.9	7.2	0.2	0.913	1.0
	1315.0	1316.0	2.4	0.2	96.3	1.1	6.5	0.5	0.903	1.0
	1316.0	1317.0	3.2	0.5	94.7	1.6	8.4	1.2	0.906	1.0
	1317.0	1318.0	4.6	0.2	93.2	2.0	12.2	0.5	0.905	1.0
	1318.0	1319.0	5.2	0.2	92.4	2.2	13.7	0.5	0.904	1.0
	1319.0	1320.0	3.6	0.1	94.3	2.0	9.6	0.4	0.898	1.0
	1320.0	1321.0	3.4	0.3	93.6	2.7	9.1	0.7	0.906	1.0
	1321.0	1322.0	3.3	0.3	94.2	2.2	8.7	0.7	0.901	1.0
	1322.0	1323.0	4.6	0.5	92.1	2.8	12.0	1.2	0.908	1.0
	1323.0	1324.0	3.7	0.1	94.5	1.7	9.7	0.2	0.907	1.0
	1324.0	1325.0	3.1	0.1	96.0	0.8	8.3	0.2	0.901	1.0
	1325.0	1326.0	2.9	0.2	96.1	0.8	7.6	0.5	0.899	1.0
	1326.0	1327.2	2.4	0.3	96.0	1.3	6.3	0.7	0.900	1.0
	1327.2	1328.4	4.9	0.2	93.8	1.1	13.2	0.5	0.897	1.0

SHALE/SALINE DATA ANALYSIS - U S G S(07/23/75)

USGS CR2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
651		1328.4	1329.4	2.7	0.2	95.9	1.2	7.3	0.5	0.898	1.0
652		1329.4	1330.8	3.6	0.2	95.2	1.0	9.5	0.5	0.897	1.0
653		1330.8	1331.8	0.0B	0.0B	0.0B	0.0B	9.5	0.0B	0.000B	0.0B
654		1331.8	1333.0	3.7	0.2	95.2	0.9	9.7	0.5	0.906	1.0
655		1333.0	1334.0	2.6	0.2	96.3	0.9	6.9	0.5	0.904	1.0
656		1334.0	1334.8	3.6	0.1	94.4	1.9	9.4	0.2	0.913	1.0
657		1334.8	1337.0	0.0B	0.0B	0.0B	0.0B	10.1	0.0B	0.000B	0.0B
658		1337.0	1338.2	4.1	0.2	93.7	2.0	10.8	0.5	0.902	1.0
659		1338.2	1339.4	4.0	0.2	94.0	1.8	10.7	0.6	0.897	1.0
660		1339.4	1341.0	5.1	0.3	93.3	1.3	13.6	0.6	0.900	1.0
661		1341.0	1342.0	3.9	0.3	93.6	2.2	10.4	0.7	0.898	1.0
662		1342.0	1343.0	4.0	0.4	93.3	2.3	10.6	1.0	0.901	1.0
663		1343.0	1344.0	3.3	0.3	94.9	1.5	8.7	0.7	0.903	1.0
664		1344.0	1345.0	2.9	0.2	96.0	0.9	7.6	0.5	0.899	1.0
665		1345.0	1346.0	3.2	0.3	95.1	1.4	8.4	0.7	0.908	1.0
666		1346.0	1347.0	2.6	0.3	96.4	0.7	6.8	0.7	0.907	1.0
667		1347.0	1348.0	1.9	0.2	97.0	0.9	5.1	0.5	0.920	1.0
668		1348.0	1349.0	1.9	0.2	97.1	0.8	5.0	0.5	0.920	1.0
669		1349.0	1350.0	1.7	0.3	97.3	0.7	4.3	0.7	0.920	1.0
670		1350.0	1351.0	1.4	0.1	97.5	1.0	3.8	0.2	0.920	1.0
671		1351.0	1352.0	1.8	0.3	95.9	2.0	4.8	0.7	0.920	1.0
672		1352.0	1353.0	1.7	0.2	96.4	1.7	4.3	0.5	0.920	1.0
673		1353.0	1354.0	2.4	0.1	96.7	0.8	6.3	0.2	0.898	1.0
674		1354.0	1355.3	4.3	0.3	93.2	2.2	11.5	0.6	0.904	1.0
675		1355.3	1356.6	3.1	0.2	94.8	1.9	8.4	0.4	0.899	1.0
676		1356.6	1357.8	2.8	0.2	95.6	1.4	7.5	0.5	0.897	1.0
677		1357.8	1358.8	3.5	0.3	93.9	2.3	9.4	0.6	0.898	1.0
678		1358.8	1359.8	3.5	0.1	94.3	2.1	9.3	0.2	0.902	1.0
679		1359.8	1360.8	3.1	0.2	95.4	1.3	8.5	0.5	0.891	1.0
680		1360.8	1380.0	0.0B	0.0B	0.0B	0.0B	7.6	0.0B	0.000B	0.0B
681		1380.0	1381.0	2.5	0.2	96.3	1.0	6.6	0.5	0.898	1.0
682		1381.0	1382.0	1.3	0.2	97.7	0.8	3.5	0.5	0.920	1.0
683		1382.0	1383.0	0.8	0.4	97.9	0.8	2.2	1.0	0.920	1.0
684		1383.0	1384.2	0.9	0.1	98.0	1.0	2.4	0.2	0.920	1.0
685		1384.2	1385.3	0.7	0.4	98.0	0.9	1.9	1.0	0.920	1.0
686		1385.3	1386.4	1.0	0.3	97.5	1.2	2.5	0.7	0.920	1.0
687		1386.4	1387.5	0.8	0.4	98.1	0.7	2.0	1.0	0.920	1.0
688		1387.5	1388.6	2.7	0.4	95.1	1.8	7.3	1.0	0.854	1.0
689		1388.6	1390.0	3.9	0.4	93.6	2.1	10.3	1.0	0.899	1.0
690		1390.0	1391.0	3.8	0.2	94.3	1.7	10.2	0.5	0.898	1.0
691		1391.0	1392.2	2.8	0.5	94.6	2.1	7.5	1.2	0.897	1.0
692		1392.2	1393.4	1.9	0.5	95.7	1.9	5.0	1.2	0.920	1.0
693		1393.4	1394.4	1.7	0.5	96.0	1.8	4.4	1.2	0.920	1.0
694		1394.4	1395.8	2.3	0.5	96.0	1.2	6.1	1.2	0.908	1.0
695		1395.8	1407.0	0.0B	0.0B	0.0B	0.0B	6.4	0.0B	0.000B	0.0B
696		1407.0	1408.3	2.5	0.3	95.5	1.7	6.7	0.7	0.903	1.0
697		1408.3	1409.5	3.0	0.3	94.6	2.1	8.1	0.7	0.901	1.0
698		1409.5	1409.9	0.0B	0.0B	0.0B	0.0B	9.4	0.0B	0.000B	0.0B
699		1409.9	1411.1	4.0	0.4	93.3	2.3	10.6	1.0	0.912	1.0
700		1411.1	1412.7	4.0	0.4	92.9	2.7	10.6	1.0	0.908	1.0

ALE/SALINE D.. A ANALYSIS - U S G S(03/23/75)

DA. 7/29/75

USGS CR2 1N 97W 36

BS NO	SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
01		1412.7	1414.4	8.7	0.5	87.7	3.1	23.2	1.2	0.904	1.0
02		1414.4	1415.5	4.9	0.4	91.7	3.0	13.0	1.0	0.902	1.0
03		1415.5	1416.7	4.4	0.3	93.0	2.3	11.7	0.7	0.911	1.0
04		1416.7	1418.0	2.9	0.1	95.5	1.5	7.6	0.2	0.901	1.0
05		1418.0	1420.0	4.2	0.2	93.8	1.8	11.1	0.5	0.902	1.0
06		1420.0	1421.0	11.9	0.6	83.6	3.9	31.5	1.4	0.903	1.0
07		1421.0	1422.0	11.3	0.6	84.0	4.1	29.9	1.4	0.907	1.0
08		1422.0	1423.0	7.8	0.7	87.9	3.6	20.7	1.7	0.908	1.0
09		1423.0	1425.2	0.0B	0.0B	0.0B	0.0B	27.5	0.0B	0.000B	0.0B
10		1425.2	1426.1	13.0	1.8	81.2	4.0	34.3	4.3	0.909	1.0
11		1426.1	1427.1	16.4	1.6	76.9	5.1	43.4	3.8	0.904	2.0
12		1427.1	1428.5	9.8	0.4	87.0	2.8	25.9	1.0	0.904	1.0
13		1428.5	1429.7	9.3	1.2	85.7	3.8	24.5	2.9	0.910	1.0
14		1429.7	1430.9	9.8	0.7	86.6	2.9	26.0	1.7	0.906	1.0
15		1430.9	1431.9	4.4	0.9	91.6	3.1	11.5	2.2	0.907	1.0
16		1431.9	1433.0	7.6	1.6	83.6	7.2	19.8	3.8	0.918	1.0
17		1433.0	1434.3	13.0	1.5	78.9	6.6	34.2	3.6	0.912	1.0
18		1434.3	1435.3	11.1	1.1	82.9	4.9	29.3	2.6	0.907	1.0
19		1435.3	1436.4	2.4	1.9	93.2	2.5	6.5	4.6	0.997	1.0
20		1436.4	1437.4	1.9	2.2	93.2	2.7	4.9	5.3	0.920	1.0
21		1437.4	1438.4	4.0	1.3	90.6	4.1	10.7	3.1	0.895	1.0
22		1438.4	1439.4	4.8	1.3	87.9	6.0	12.8	3.1	0.897	1.0
23		1439.4	1440.4	3.7	1.4	91.2	3.7	10.0	3.4	0.895	1.0
24		1440.4	1441.4	3.5	1.4	91.3	3.8	9.4	3.4	0.995	1.0
25		1441.4	1442.4	3.4	1.1	89.9	4.6	11.8	2.5	0.900	1.0
26		1442.4	1443.4	5.4	1.4	88.9	4.3	14.3	3.4	0.897	1.0
27		1443.4	1444.6	10.1	0.9	84.6	4.4	26.8	2.0	0.907	1.0
28		1444.6	1445.7	4.8	0.9	90.7	3.6	12.5	2.2	0.910	1.0
29		1445.7	1450.2	0.0B	0.0B	0.0B	0.0B	19.1	0.0B	0.000B	0.0B
30		1450.2	1451.2	9.7	0.8	85.8	3.7	25.7	1.9	0.901	1.0
31		1451.2	1453.6	9.6	1.1	84.7	4.6	25.6	2.6	0.902	1.0
32		1453.6	1454.9	9.4	1.1	85.7	3.8	25.2	2.6	0.900	1.0
33		1454.9	1456.0	9.3	1.2	83.3	6.2	24.7	2.9	0.903	1.0
34		1456.0	1457.3	8.8	1.4	83.4	6.4	23.5	3.4	0.904	1.0
35		1457.3	1458.6	6.5	1.8	84.4	7.3	17.3	4.3	0.903	1.0
36		1458.6	1459.9	9.8	1.2	80.8	8.2	26.1	2.9	0.903	1.0
37		1459.9	1460.9	7.1	0.8	87.9	4.0	19.2	2.0	0.908	1.0
38		1460.9	1461.9	4.2	0.8	92.2	2.8	11.2	1.9	0.902	1.0
39		1461.9	1462.8	8.1	0.6	87.4	3.9	21.6	1.4	0.904	1.0
40		1462.8	1463.9	3.4	0.7	93.2	2.7	8.9	1.7	0.910	1.0
41		1463.9	1465.1	0.0B	0.0B	0.0B	0.0B	16.1	0.0B	0.000B	0.0B
42		1465.1	1466.2	8.8	0.5	88.2	2.5	23.3	1.2	0.899	1.0
43		1466.2	1467.2	7.8	0.8	88.7	2.7	20.8	1.9	0.899	1.0
44		1467.2	1468.6	5.2	0.6	90.5	3.7	13.9	1.4	0.900	1.0
45		1468.6	1469.7	9.3	0.8	94.6	5.3	24.7	1.9	0.900	1.0
46		1469.7	1470.7	9.5	0.9	81.5	8.1	25.1	2.2	0.905	1.0
47		1470.7	1471.7	10.7	1.4	82.3	5.6	28.6	3.4	0.900	1.0
48		1471.7	1472.7	10.1	1.0	84.3	4.6	27.0	2.4	0.898	1.0
49		1472.7	1473.8	3.5	2.0	89.4	5.1	9.5	4.5	0.897	1.0
50		1473.8	1474.9	3.8	2.5	85.8	7.9	10.2	6.0	0.898	1.0

HALF/SALINE [illegible] A ANALYSIS - U S G S(03/23/75)

USGS CR2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
751		1474.9	1476.0	5.6	1.6	87.2	6.6	12.2	3.8	0.908	1.0
752		1476.0	1477.1	6.7	1.5	84.5	7.3	17.7	3.6	0.906	1.0
753		1477.1	1478.1	9.2	1.9	81.3	7.6	24.3	4.6	0.908	1.0
754		1478.1	1479.4	11.1	2.0	79.5	7.4	29.3	4.8	0.904	1.0
755		1479.4	1480.6	12.1	1.6	79.2	7.1	32.3	3.8	0.901	1.0
756		1480.6	1481.6	12.3	1.6	80.9	5.2	32.8	3.8	0.900	1.0
757		1481.6	1482.6	10.2	1.0	84.4	4.4	27.3	2.4	0.897	1.0
758		1482.6	1485.1	0.0B	0.0B	0.0B	0.0B	25.2	0.0B	0.000B	0.0B
759		1485.1	1486.0	8.5	1.1	85.5	4.9	23.0	2.6	0.893	1.0
760		1486.0	1487.0	8.5	0.9	87.2	3.4	23.0	2.2	0.887	1.0
761		1487.0	1488.0	7.3	1.0	89.6	2.1	19.7	2.4	0.891	1.0
762		1488.0	1489.0	8.2	1.1	88.1	2.6	22.2	2.6	0.892	1.0
763		1489.0	1490.0	7.9	1.2	87.9	3.0	21.2	2.8	0.894	1.0
764		1490.0	1491.0	8.2	1.1	88.4	2.3	22.2	2.6	0.891	1.0
765		1491.0	1492.0	8.3	1.3	87.7	2.7	22.3	3.1	0.896	1.0
766		1492.0	1493.0	9.1	1.2	86.5	3.2	24.3	2.9	0.899	1.0
767		1493.0	1494.0	8.5	1.0	87.9	2.6	23.0	2.4	0.892	1.0
768		1494.0	1495.0	9.7	1.2	85.4	3.7	26.0	2.9	0.899	1.0
769		1495.0	1496.0	9.4	1.7	84.6	4.3	24.9	4.1	0.905	1.0
770		1496.0	1497.0	8.9	2.2	85.2	3.7	23.7	5.3	0.903	1.0
771		1497.0	1498.0	8.7	2.3	86.3	2.7	23.3	5.5	0.894	1.0
772		1498.0	1499.2	8.8	1.4	87.6	2.2	23.4	3.4	0.899	1.0
773		1499.2	1500.3	7.2	0.8	88.5	3.5	19.4	1.9	0.895	1.0
774		1500.3	1500.8	1.8	1.9	95.2	1.1	4.8	4.6	0.920	1.0
775		1500.8	1505.1	0.0B	0.0B	0.0B	0.0B	10.1	0.0B	0.000B	0.0B
776		1505.1	1506.1	5.8	0.8	90.4	3.0	15.4	1.9	0.899	1.0
777		1506.1	1507.1	5.7	0.8	92.2	1.3	15.3	1.9	0.899	1.0
778		1507.1	1508.1	6.8	0.9	91.5	0.8	18.0	2.2	0.900	1.0
779		1508.1	1509.1	6.4	1.3	90.8	1.5	17.1	3.1	0.901	1.0
780		1509.1	1510.1	6.8	1.0	88.6	3.5	18.1	2.4	0.899	1.0
781		1510.1	1511.1	6.8	1.4	87.4	4.4	18.1	3.4	0.898	1.0
782		1511.1	1512.2	6.4	1.3	87.1	5.2	17.0	3.2	0.899	1.0
783		1512.2	1513.2	8.6	1.1	84.4	5.9	22.9	2.6	0.902	1.0
784		1513.2	1514.4	5.6	1.2	87.8	5.4	15.0	2.8	0.902	1.0
785		1514.4	1515.6	7.0	1.2	87.1	4.7	18.5	2.9	0.903	1.0
786		1515.6	1516.6	11.0	1.4	84.6	3.0	29.1	3.4	0.907	1.0
787		1516.6	1517.7	11.5	1.4	86.0	1.1	30.6	3.4	0.904	1.0
788		1517.7	1518.8	13.9	1.2	81.4	3.5	36.7	2.9	0.905	1.0
789		1518.8	1519.9	18.8	1.2	76.7	3.3	49.6	2.9	0.908	1.0
790		1519.9	1521.4	22.0	2.1	72.2	3.7	58.0	5.0	0.908	1.0
791		1521.4	1522.5	21.1	1.8	70.5	6.6	55.4	4.3	0.914	1.0
792		1522.5	1524.0	4.6	1.6	91.3	2.5	12.1	3.8	0.909	1.0
793		1524.0	1525.0	13.4	1.3	82.8	2.5	35.3	3.1	0.908	1.0
794		1525.0	1529.3	0.0B	0.0B	0.0B	0.0B	20.6	0.0B	0.000B	0.0B
795		1528.3	1529.5	2.2	1.8	94.7	1.3	5.8	4.3	0.920	1.0
796		1529.5	1530.6	5.6	1.5	90.9	2.0	14.9	3.6	0.905	1.0
797		1530.6	1531.8	5.2	1.8	92.4	0.6	13.7	4.3	0.904	1.0
798		1531.8	1533.0	7.0	1.7	90.8	0.5	18.6	4.1	0.899	1.0
799		1533.0	1534.0	6.9	1.6	87.7	3.8	18.5	3.8	0.893	1.0
800		1534.0	1535.0	6.6	1.6	90.1	1.7	17.7	3.8	0.896	1.0

SHALE/SALINE DATA ANALYSIS - U S G S(03/23/75)

USGS CP2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-FD	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
B01		1535.0	1536.0	6.5	1.5	89.9	2.1	17.4	3.6	0.897	1.0
B02		1536.0	1537.0	6.1	1.6	91.4	0.9	16.4	3.8	0.898	1.0
B03		1537.0	1538.0	6.9	1.7	89.5	1.9	18.3	4.1	0.901	1.0
B04		1538.0	1539.0	7.4	1.8	89.1	1.7	19.7	4.3	0.902	1.0
B05		1539.0	1540.0	5.2	1.1	88.4	5.3	13.8	2.6	0.911	1.0
B06		1540.0	1541.0	3.0	1.6	91.0	4.4	8.1	3.8	0.901	1.0
B07		1541.0	1542.0	6.5	0.9	87.1	5.5	17.1	2.2	0.905	1.0
B08		1542.0	1549.0	0.0B	0.0B	0.0B	0.0B	19.2	0.0B	0.000B	0.0B
B09		1549.0	1550.0	8.0	0.9	86.8	4.3	21.3	2.2	0.900	1.0
B10		1550.0	1551.0	8.2	1.1	83.9	6.8	21.8	2.6	0.902	1.0
B11		1551.0	1552.0	8.6	1.2	85.4	4.8	22.8	2.9	0.903	1.0
B12		1552.0	1553.2	10.1	1.2	85.5	3.2	26.8	2.9	0.901	1.0
B13		1553.2	1554.4	6.8	1.1	88.2	3.9	18.1	2.6	0.901	1.0
B14		1554.4	1555.6	4.1	1.1	88.9	5.9	11.0	2.6	0.900	1.0
B15		1555.6	1557.0	5.8	1.2	90.3	2.7	15.4	2.9	0.900	1.0
B16		1557.0	1558.0	10.4	0.9	83.7	5.0	27.3	2.2	0.910	1.0
B17		1558.0	1559.0	6.0	1.0	89.7	3.3	15.8	2.4	0.905	1.0
B18		1559.0	1560.0	5.9	0.6	90.7	2.8	15.8	1.4	0.900	1.0
B19		1560.0	1561.0	5.2	1.0	90.0	3.8	13.9	2.4	0.900	1.0
B20		1561.0	1562.0	7.8	1.2	85.5	5.5	20.8	2.9	0.903	1.0
B21		1562.0	1563.0	8.0	0.9	86.3	4.8	21.2	2.2	0.902	1.0
B22		1563.0	1564.0	8.5	1.4	82.9	7.2	22.6	3.4	0.901	1.0
B23		1564.0	1565.0	8.0	1.6	82.9	7.5	21.3	3.8	0.900	1.0
B24		1565.0	1566.0	7.2	1.5	86.6	4.7	19.2	3.6	0.897	1.0
B25		1566.0	1567.0	4.9	1.1	89.7	4.3	13.2	2.6	0.898	1.0
B26		1567.0	1569.0	0.0B	0.0B	0.0B	0.0B	10.5	0.0B	0.000B	0.0B
B27		1569.0	1570.0	2.9	0.9	92.2	4.0	7.7	2.2	0.906	1.0
B28		1570.0	1570.8	3.8	1.1	91.5	3.6	10.2	2.5	0.901	1.0
B29		1570.8	1572.5	13.2	0.5	82.2	4.1	35.0	1.2	0.903	1.0
B30		1572.5	1573.5	6.4	0.7	89.0	3.9	16.9	1.7	0.904	1.0
B31		1573.5	1574.5	6.3	0.6	90.1	3.0	16.7	1.4	0.903	1.0
B32		1574.5	1575.7	13.6	0.7	80.6	5.1	36.0	1.7	0.902	1.0
B33		1575.7	1576.8	12.9	1.5	79.5	6.1	34.2	3.5	0.905	1.0
B34		1576.8	1578.0	11.0	2.9	75.9	10.2	29.1	7.0	0.908	1.0
B35		1578.0	1579.2	14.2	1.5	76.6	7.7	37.6	3.6	0.909	1.0
B36		1579.2	1580.2	14.1	1.1	79.3	5.5	37.4	2.6	0.908	1.0
B37		1580.2	1581.3	8.7	0.8	87.4	3.1	23.1	1.9	0.905	1.0
B38		1581.3	1582.3	10.7	0.7	85.3	3.3	28.4	1.7	0.908	1.0
B39		1582.3	1583.3	12.5	0.6	82.3	4.6	32.8	1.4	0.914	1.0
B40		1583.3	1584.3	12.0	0.8	83.7	3.5	31.3	1.9	0.916	1.0
B41		1584.3	1585.3	8.0	1.1	85.4	4.6	23.5	2.6	0.907	2.0
B42		1585.3	1586.3	7.1	1.8	85.2	5.9	18.9	4.3	0.905	1.0
B43		1586.3	1587.4	4.5	1.8	90.2	3.5	12.1	4.3	0.891	1.0
B44		1587.4	1588.6	4.4	1.8	89.6	4.2	11.8	4.3	0.892	1.0
B45		1588.6	1589.8	4.1	1.0	91.1	3.8	11.0	2.4	0.889	1.0
B46		1589.8	1591.0	5.8	1.6	86.7	5.9	15.4	3.8	0.898	1.0
B47		1591.0	1592.0	4.1	2.1	87.1	6.6	11.0	5.0	0.902	1.0
B48		1592.0	1593.0	2.8	2.9	87.4	6.9	7.4	7.0	0.901	1.0
B49		1593.0	1594.0	4.5	2.3	85.6	7.6	11.9	5.5	0.908	1.0
B50		1594.0	1595.0	11.3	1.2	80.5	7.0	29.6	2.9	0.912	1.0

SHALE/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/7

USGS CR2 1N 97W 36

OBS NO	SAMPLE ID	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
851		1595.0	1596.0	5.9	1.3	87.3	5.5	15.5	3.1	0.912	1.0
852		1596.0	1597.0	9.1	0.6	87.4	2.9	24.1	1.4	0.907	1.0
853		1597.0	1598.0	5.3	0.8	89.6	4.3	13.9	1.9	0.911	1.0
854		1598.0	1599.0	7.4	0.6	88.9	3.1	19.5	1.4	0.910	1.0
855		1599.0	1600.0	3.1	1.1	91.8	4.0	8.2	2.6	0.909	1.0
856		1600.0	1603.5	0.0B	0.0B	0.0B	0.0B	14.8	0.0B	0.000B	0.0B
857		1603.5	1605.0	8.1	1.4	84.9	5.6	21.4	3.4	0.904	1.0
858		1605.0	1606.0	5.6	1.2	88.1	5.1	14.8	2.9	0.900	1.0
859		1606.0	1607.0	12.5	0.3	82.0	5.2	33.3	0.7	0.904	1.0
860		1607.0	1608.0	15.6	1.0	77.7	5.7	41.3	2.4	0.904	1.0
861		1608.0	1609.0	17.9	1.4	74.0	6.7	47.5	3.4	0.904	2.0
862		1609.0	1610.0	10.8	0.5	85.8	2.9	28.9	1.2	0.896	1.0
863		1610.0	1611.2	16.2	0.7	79.0	4.1	43.2	1.7	0.897	2.0
864		1611.2	1612.3	1.9	1.8	88.8	7.5	4.8	4.3	0.920	1.0
865		1612.3	1613.4	2.2	1.6	91.0	5.2	6.0	3.8	0.898	1.0
866		1613.4	1615.6	5.9	1.7	85.9	6.5	15.7	4.1	0.898	1.0
867		1615.6	1616.6	6.1	2.4	83.0	8.5	16.3	5.8	0.899	1.0
868		1616.6	1617.6	9.0	2.1	80.8	8.1	23.9	5.0	0.904	1.0
869		1617.6	1618.6	15.1	1.8	74.6	8.5	39.7	4.3	0.910	1.0
870		1618.6	1619.7	5.8	1.2	88.5	4.5	15.3	2.9	0.910	1.0
871		1619.7	1620.8	8.0	2.5	79.6	9.9	21.0	6.0	0.909	1.0
872		1620.8	1632.0	0.0B	0.0B	0.0B	0.0B	31.2	0.0B	0.000B	0.0B
873		1632.0	1633.5	15.7	1.3	76.1	6.9	41.3	3.1	0.912	1.0
874		1633.5	1634.5	4.9	1.7	87.5	5.9	13.0	4.1	0.904	1.0
875		1634.5	1635.5	5.3	1.0	89.1	4.6	14.1	2.5	0.900	1.0
876		1635.5	1636.5	5.4	0.8	90.3	3.5	14.5	1.9	0.896	1.0
877		1636.5	1637.5	6.5	0.8	88.1	4.6	17.2	1.9	0.902	1.0
878		1637.5	1638.7	6.5	1.1	87.6	4.8	17.4	2.6	0.898	1.0
879		1638.7	1639.9	7.3	1.2	83.8	7.7	19.4	2.9	0.903	1.0
880		1639.9	1640.4	0.0B	0.0B	0.0B	0.0B	18.2	0.0B	0.000B	0.0B
881		1640.4	1641.6	6.4	1.5	85.1	7.0	17.0	3.7	0.901	1.0
882		1641.6	1642.6	4.5	1.3	91.3	2.9	12.0	3.1	0.895	1.0
883		1642.6	1643.6	4.6	1.0	93.2	1.2	12.2	2.4	0.905	1.0
884		1643.6	1645.6	2.8	1.7	94.0	1.5	7.3	4.1	0.920	1.0
885		1645.6	1648.0	0.0B	0.0B	0.0B	0.0B	10.0	0.0B	0.000B	0.0B
886		1648.0	1649.0	4.7	1.4	90.9	3.0	12.6	3.4	0.904	1.0
887		1649.0	1650.0	4.7	1.5	92.4	1.4	12.5	3.6	0.903	1.0
888		1650.0	1651.0	6.2	1.0	91.8	1.0	16.7	2.4	0.897	1.0
889		1651.0	1652.0	7.7	0.8	90.1	1.4	20.7	1.9	0.892	1.0
890		1652.0	1653.0	5.1	1.9	91.1	1.9	13.7	4.6	0.892	1.0
891		1653.0	1654.0	4.5	2.2	91.6	1.7	12.0	5.3	0.892	1.0
892		1654.0	1655.0	3.1	2.5	92.9	1.5	8.3	6.0	0.892	1.0
893		1655.0	1656.0	3.6	2.0	94.2	0.2	9.6	4.8	0.898	1.0
894		1656.0	1657.0	3.4	2.1	88.0	6.5	9.1	5.0	0.895	1.0
895		1657.0	1658.0	3.8	1.6	86.3	8.3	10.3	3.8	0.898	1.0
896		1658.0	1659.0	4.6	1.0	92.2	2.2	12.2	2.4	0.898	1.0
897		1659.0	1660.0	3.3	1.2	93.3	2.2	8.8	3.0	0.894	1.0
898		1660.0	1661.0	3.3	0.9	92.3	3.5	8.7	2.2	0.900	1.0
899		1661.0	1662.0	4.3	0.9	92.1	2.7	11.5	2.2	0.903	1.0
900		1662.0	1663.0	3.8	1.6	90.0	4.6	10.1	3.8	0.901	1.0

SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS CH2 1N 97W 36

SAMPLE I D	DEPTH-ST	DEPTH-FD	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
	1663.0	1664.0	3.9	1.5	90.4	4.2	10.5	3.6	0.895	1.0
	1664.0	1665.0	3.8	1.1	91.4	3.7	10.2	2.6	0.894	1.0
	1665.0	1666.0	3.1	1.4	89.5	6.0	8.4	3.4	0.897	1.0
	1666.0	1667.0	4.7	1.6	89.0	4.7	12.7	3.8	0.893	1.0
	1667.0	1668.0	5.0	1.6	89.3	4.1	13.4	3.8	0.898	1.0
	1668.0	1669.0	4.8	1.7	89.0	4.5	12.9	4.1	0.897	1.0
	1669.0	1670.0	4.5	1.1	81.8	12.6	11.9	2.6	0.902	1.0
	1670.0	1674.4	0.0B	0.0B	0.0B	0.0B	11.0	0.0B	0.000B	0.0B
	1674.4	1675.5	3.8	1.2	91.5	3.5	10.1	2.9	0.894	1.0
	1675.5	1676.6	3.6	1.1	92.4	2.9	9.7	2.6	0.895	1.0
	1676.6	1677.7	4.0	1.0	91.9	3.1	10.8	2.4	0.893	1.0
	1677.7	1678.8	5.1	1.3	89.4	4.2	13.7	3.1	0.895	1.0
	1678.8	1679.9	5.8	1.7	86.8	5.7	15.6	4.1	0.898	1.0
	1679.9	1681.0	6.8	2.3	83.9	7.0	18.2	5.5	0.901	1.0
	1681.0	1682.0	8.3	2.0	82.6	7.1	22.2	4.8	0.903	1.0
	1682.0	1683.0	6.8	1.3	86.3	5.6	18.3	3.1	0.893	1.0
	1683.0	1684.0	5.5	1.0	90.4	3.1	14.7	2.4	0.898	1.0
	1684.0	1684.2	0.0B	0.0B	0.0B	0.0B	15.8	0.0B	0.000B	0.0B
	1684.2	1685.6	6.3	0.6	91.1	2.0	16.8	1.4	0.904	1.0
	1685.6	1687.5	0.0B	0.0B	0.0B	0.0B	18.2	0.0B	0.000B	0.0B
	1687.5	1688.7	7.4	1.4	86.9	4.3	19.6	3.4	0.906	1.0
	1688.7	1689.8	7.8	1.2	85.6	5.4	20.7	2.9	0.907	1.0
	1689.8	1690.9	8.2	1.1	86.7	4.0	21.7	2.5	0.905	1.0
	1690.9	1692.0	7.2	1.4	85.7	5.7	19.2	3.4	0.904	1.0
	1692.0	1693.0	5.7	1.2	88.5	4.6	15.2	2.9	0.900	1.0
	1693.0	1694.0	6.4	1.4	87.6	4.6	17.1	3.4	0.900	1.0
	1694.0	1695.0	6.9	1.3	86.6	5.2	18.4	3.1	0.900	1.0
	1695.0	1695.2	6.7	1.7	84.2	7.4	17.8	4.1	0.902	1.0
	1695.2	1697.4	7.2	2.0	84.2	6.6	19.2	4.7	0.901	1.0
	1697.4	1698.7	7.8	1.2	84.7	6.3	20.5	3.0	0.910	1.0
	1698.7	1700.0	9.4	1.3	84.5	4.8	24.9	3.1	0.909	1.0
	1700.0	1701.0	9.2	1.6	83.0	6.2	24.4	3.8	0.902	1.0
	1701.0	1702.0	9.4	1.9	82.1	5.6	25.2	4.6	0.895	1.0
	1702.0	1703.0	9.1	2.1	82.1	6.7	24.2	5.0	0.897	1.0
	1703.0	1704.0	8.8	2.1	82.3	6.8	23.4	5.2	0.897	1.0
	1704.0	1705.0	9.7	1.6	81.9	6.8	25.8	3.8	0.899	1.0
	1705.0	1706.0	9.0	1.7	83.0	6.3	24.1	4.1	0.897	1.0
	1706.0	1706.2	0.0B	0.0B	0.0B	0.0B	23.0	0.0B	0.000B	0.0B
	1706.2	1708.0	8.1	2.6	82.2	7.1	21.8	6.2	0.896	1.0
	1708.0	1715.0	0.0B	0.0B	0.0B	0.0B	23.3	0.0B	0.000B	0.0B
	1715.0	1716.0	9.3	1.7	83.0	6.0	24.8	4.1	0.897	1.0
	1716.0	1716.9	7.9	1.7	85.9	4.5	21.0	4.1	0.897	1.0
	1716.9	1717.4	0.0B	0.0B	0.0B	0.0B	20.5	0.0B	0.000B	0.0B
	1717.4	1718.2	7.5	0.9	88.0	3.6	19.9	2.2	0.898	1.0
	1718.2	1719.0	7.3	1.9	85.8	5.0	19.4	4.6	0.898	1.0
	1719.0	1719.3	0.0B	0.0B	0.0B	0.0B	19.6	0.0B	0.000B	0.0B
	1719.3	1719.4	7.4	1.9	84.8	5.9	19.8	4.6	0.899	1.0
	1719.4	1720.4	7.3	2.0	84.2	6.5	19.5	4.6	0.901	1.0
	1720.4	1721.6	8.0	1.8	84.9	5.3	21.4	4.3	0.897	1.0
	1721.6	1723.0	10.3	2.6	81.1	6.0	27.2	6.2	0.905	1.0

SHALE/SAL DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

USGS CR2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
951		1723.0	1724.3	8.7	1.7	84.0	5.6	23.2	4.1	0.901	1.0
952		1724.3	1724.6	0.0B	0.0B	0.0B	0.0B	24.7	0.0B	0.000B	0.0B
953		1724.6	1726.2	9.9	1.4	81.7	7.0	26.2	3.4	0.905	1.0
954		1726.2	1726.7	0.0B	0.0B	0.0B	0.0B	26.0	0.0B	0.000B	0.0B
955		1726.7	1728.4	9.7	1.5	83.8	5.0	25.7	3.6	0.902	1.0
956		1728.4	1729.4	5.0	2.0	87.7	5.3	13.3	4.8	0.898	1.0
957		1729.4	1730.6	4.3	1.7	88.8	5.2	11.6	4.1	0.994	1.0
958		1730.6	1731.6	5.1	1.5	88.0	5.4	13.5	3.6	0.901	1.0
959		1731.6	1732.7	3.8	0.8	91.6	3.8	10.0	1.9	0.905	1.0
960		1732.7	1733.8	5.0	0.8	91.2	3.0	13.4	1.9	0.899	1.0
961		1733.8	1734.9	6.2	1.2	88.8	3.8	16.6	2.9	0.903	1.0
962		1734.9	1735.1	0.0B	0.0B	0.0B	0.0B	21.1	0.0B	0.000B	0.0B
963		1735.1	1736.2	9.6	1.5	83.0	5.9	25.5	3.6	0.903	1.0
964		1736.2	1737.2	10.8	2.3	79.8	7.1	28.8	5.5	0.902	2.0
965		1737.2	1738.2	8.5	2.7	81.2	7.6	22.7	6.5	0.899	1.0
966		1738.2	1739.3	6.1	1.9	86.0	6.0	16.5	4.6	0.894	1.0
967		1739.3	1740.6	6.5	1.1	88.5	3.9	17.5	2.6	0.889	1.0
968		1740.6	1741.7	7.5	0.9	88.7	2.9	20.2	2.2	0.887	1.0
969		1741.7	1742.7	6.5	0.8	91.3	1.4	17.4	1.9	0.893	1.0
970		1742.7	1743.9	6.7	0.8	90.4	2.1	17.9	1.9	0.897	1.0
971		1743.9	1744.9	6.8	0.7	89.6	2.9	18.2	1.7	0.894	1.0
972		1744.9	1745.9	6.8	1.2	88.7	3.3	18.2	2.9	0.896	1.0
973		1745.9	1746.9	10.1	1.3	83.7	4.9	26.8	3.1	0.901	1.0
974		1746.9	1748.0	9.5	1.4	83.6	5.5	25.2	3.4	0.902	1.0
975		1748.0	1749.1	9.6	1.3	81.8	7.3	25.3	3.1	0.907	1.0
976		1749.1	1750.3	9.3	1.7	83.2	5.8	24.7	4.1	0.906	1.0
977		1750.3	1751.4	8.9	1.8	81.7	7.6	23.7	4.3	0.903	1.0
978		1751.4	1752.4	10.1	1.9	80.8	7.2	26.8	4.6	0.907	1.0
979		1752.4	1753.5	9.1	2.0	80.4	8.5	24.0	4.8	0.906	1.0
980		1753.5	1754.5	10.1	1.9	80.2	7.8	26.5	4.6	0.912	1.0
981		1754.5	1755.6	12.4	1.3	81.7	4.6	32.9	3.1	0.903	1.0
982		1755.6	1756.7	13.2	1.3	79.5	6.0	35.1	3.1	0.900	1.0
983		1756.7	1757.9	12.3	1.6	79.3	6.8	32.6	3.8	0.907	1.0
984		1757.9	1767.0	0.0B	0.0B	0.0B	0.0B	32.5	0.0B	0.000B	0.0B
985		1767.0	1768.6	12.3	1.8	79.1	6.8	32.4	4.3	0.910	1.0
986		1768.6	1769.8	11.9	2.2	79.3	6.6	31.4	5.3	0.907	1.0
987		1769.8	1771.4	11.2	1.5	83.2	4.1	29.6	3.6	0.908	1.0
988		1771.4	1772.5	10.3	1.3	85.3	3.1	27.3	3.1	0.906	1.0
989		1772.5	1773.5	10.8	1.6	84.4	3.2	28.6	3.8	0.907	1.0
990		1773.5	1774.6	6.2	1.1	91.0	1.7	16.4	2.6	0.906	1.0
991		1774.6	1775.7	8.5	1.5	87.3	2.7	22.3	3.6	0.911	1.0
992		1775.7	1776.9	13.7	1.4	81.8	3.1	36.1	3.4	0.908	1.0
993		1776.9	1778.0	9.0	1.5	86.9	2.6	23.6	3.6	0.909	1.0
994		1778.0	1779.0	7.7	1.2	90.1	1.0	20.2	2.9	0.910	1.0
995		1779.0	1780.0	8.1	1.3	87.0	3.6	21.5	3.1	0.908	1.0
996		1780.0	1781.0	4.6	1.0	92.5	1.9	12.3	2.4	0.899	1.0
997		1781.0	1782.0	4.5	1.7	92.1	1.7	12.0	4.1	0.891	1.0
998		1782.0	1783.0	4.6	1.4	92.1	1.9	12.2	3.4	0.892	1.0
999		1783.0	1784.0	5.5	1.9	90.2	2.4	14.7	4.6	0.901	1.0
1000		1784.0	1785.0	7.9	1.7	89.4	1.0	21.0	4.1	0.905	1.0

E/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS CR2 1N 97W 36

SAMPLE I D	DEPTH-ST	DEPTH-FD	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
	1785.0	1786.0	16.3	2.0	76.1	5.6	43.0	4.8	0.911	1.0
	1786.0	1787.0	19.2	1.5	74.2	5.1	50.8	3.6	0.906	1.0
	1787.0	1788.0	13.7	1.1	83.6	1.6	36.1	2.6	0.910	1.0
	1788.0	1789.0	11.6	1.2	83.9	3.3	30.7	2.9	0.908	1.0
	1789.0	1790.0	12.7	1.5	82.5	3.3	33.7	3.6	0.901	1.0
	1790.0	1791.0	11.6	1.4	84.6	2.4	30.9	3.4	0.901	1.0
	1791.0	1792.0	9.5	1.8	86.2	2.5	25.4	4.3	0.900	1.0
	1792.0	1793.0	10.3	1.5	87.2	1.0	27.6	3.6	0.898	1.0
	1793.0	1794.0	10.2	0.8	85.1	3.9	27.4	1.9	0.896	1.0
	1794.0	1795.0	12.3	1.9	80.7	5.1	32.5	4.6	0.903	1.0
	1795.0	1796.0	11.5	1.9	78.3	8.3	30.6	4.6	0.905	1.0
	1796.0	1797.0	11.0	2.3	83.9	2.8	29.3	5.5	0.901	1.0
	1797.0	1798.1	9.6	2.4	84.9	3.1	25.4	5.8	0.902	1.0
	1798.1	1799.2	10.0	2.3	82.8	4.9	26.7	5.5	0.901	1.0
	1799.2	1800.2	17.1	2.0	77.2	3.7	45.0	4.8	0.910	1.0
	1800.2	1801.6	8.4	0.8	85.0	5.8	22.1	1.9	0.907	1.0
	1801.6	1802.6	11.6	1.9	81.9	4.7	30.6	4.6	0.905	1.0
	1802.6	1803.7	13.0	1.6	79.8	5.6	34.4	3.8	0.905	1.0
	1803.7	1804.8	10.4	1.8	81.4	6.4	27.6	4.3	0.905	1.0
	1804.8	1805.9	11.5	1.9	80.9	5.7	30.5	4.6	0.904	1.0
	1805.9	1807.0	8.6	2.3	81.1	8.0	22.9	5.5	0.904	1.0
	1807.0	1808.0	7.3	2.2	82.0	8.5	19.5	5.3	0.905	1.0
	1808.0	1809.0	10.0	2.5	77.0	10.5	26.5	6.0	0.909	1.0
	1809.0	1810.0	7.1	2.3	82.3	8.3	18.8	5.5	0.904	1.0
	1810.0	1811.0	10.5	2.3	77.9	9.3	27.7	5.5	0.911	1.0
	1811.0	1812.0	11.2	2.4	78.6	7.8	29.6	5.8	0.911	1.0
	1812.0	1813.0	8.1	1.2	82.3	8.4	21.1	2.9	0.918	1.0
	1813.0	1814.0	8.7	1.8	82.5	7.0	22.9	4.3	0.915	1.0
	1814.0	1815.0	8.7	2.2	82.5	6.6	22.9	5.3	0.909	1.0
	1815.0	1816.0	8.8	1.9	79.3	10.0	23.3	4.6	0.909	1.0
	1816.0	1817.3	12.3	1.8	78.2	7.7	32.4	4.3	0.913	1.0
	1817.3	1818.5	8.4	1.4	85.1	5.1	22.2	3.4	0.908	1.0
	1818.5	1819.5	4.8	1.4	89.3	4.5	12.7	3.4	0.909	1.0
	1819.5	1820.5	7.0	1.2	87.4	4.4	18.5	2.9	0.907	1.0
	1820.5	1821.5	6.0	1.3	87.4	5.3	15.8	3.1	0.905	1.0
	1821.5	1822.6	8.2	1.2	84.9	5.7	21.9	2.9	0.906	1.0
	1822.6	1823.8	9.4	1.4	83.2	6.0	24.9	3.4	0.903	1.0
	1823.8	1825.2	7.2	2.0	84.1	6.7	19.4	4.8	0.896	1.0
	1825.2	1826.3	6.7	2.5	84.0	6.8	17.9	6.0	0.895	1.0
	1826.3	1827.4	7.6	2.2	83.5	6.7	20.3	5.3	0.895	1.0
	1827.4	1827.8	0.0B	0.0B	0.0B	0.0B	25.4	0.0B	0.000B	0.0B
	1827.8	1829.4	11.5	2.2	78.4	7.9	30.5	5.3	0.908	1.0
	1829.4	1830.7	8.5	1.3	84.1	6.1	22.5	3.1	0.904	1.0
	1830.7	1831.8	11.2	1.0	83.4	4.4	29.9	2.4	0.902	1.0
	1831.8	1832.9	8.1	1.3	86.2	4.4	21.6	3.1	0.901	1.0
	1832.9	1834.0	9.1	1.3	84.5	5.1	22.0	3.4	0.889	1.0
	1834.0	1835.0	11.0	1.3	81.8	5.9	29.4	3.1	0.901	1.0
	1835.0	1836.0	12.1	1.3	80.7	5.9	32.1	3.1	0.900	1.0
	1836.0	1837.0	12.1	1.4	80.8	5.7	32.1	3.4	0.903	1.0
	1837.0	1838.0	10.8	1.7	81.3	6.2	28.6	4.1	0.902	1.0

SHALE/SAMPLE DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/7

USGS CR2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1051		1838.0	1839.0	11.9	0.7	83.4	4.0	31.7	1.6	0.902	1.0
1052		1839.0	1840.0	11.9	1.2	81.5	5.4	31.7	2.9	0.903	1.0
1053		1840.0	1841.0	11.6	1.3	80.9	6.2	30.8	3.1	0.906	1.0
1054		1841.0	1842.1	10.7	1.6	81.7	6.0	28.2	3.8	0.908	1.0
1055		1842.1	1843.2	6.7	2.2	85.5	5.6	17.8	5.3	0.898	1.0
1056		1843.2	1844.3	6.6	2.4	83.9	7.1	17.8	5.8	0.894	1.0
1057		1844.3	1845.4	6.4	1.9	86.2	5.5	17.2	4.6	0.895	1.0
1058		1845.4	1846.6	11.6	1.7	79.0	7.7	30.6	4.1	0.909	1.0
1059		1846.6	1847.6	11.8	0.8	84.3	3.1	31.1	1.8	0.909	1.0
1060		1847.6	1848.7	11.7	0.9	83.8	3.6	31.1	2.2	0.902	1.0
1061		1848.7	1849.7	10.6	0.9	85.9	2.7	28.4	1.9	0.897	1.0
1062		1849.7	1850.7	13.3	0.7	82.8	3.2	35.1	1.7	0.907	1.0
1063		1850.7	1851.8	12.9	0.7	82.8	3.6	33.9	1.7	0.908	1.0
1064		1851.8	1852.8	12.3	0.8	83.3	3.6	32.8	1.9	0.904	1.0
1065		1852.8	1854.0	9.8	0.8	84.6	4.8	25.9	1.9	0.908	1.0
1066		1854.0	1855.1	6.7	1.4	88.5	3.4	17.8	3.4	0.905	1.0
1067		1855.1	1856.2	6.7	0.9	89.0	3.4	17.9	2.2	0.896	1.0
1068		1856.2	1857.3	6.8	1.6	87.5	4.1	18.1	3.8	0.898	1.0
1069		1857.3	1858.6	9.5	1.7	82.4	6.4	25.2	4.1	0.906	1.0
1070		1858.6	1859.7	19.0	1.2	73.4	6.4	50.2	2.9	0.909	2.0
1071		1859.7	1860.8	20.6	1.7	70.8	6.9	54.5	4.1	0.908	1.0
1072		1860.8	1862.5	11.9	1.2	82.8	4.1	31.4	2.9	0.905	1.0
1073		1862.5	1863.5	9.2	1.0	85.4	4.4	24.4	2.4	0.904	1.0
1074		1863.5	1865.2	5.2	1.3	90.2	3.3	13.8	3.1	0.898	1.0
1075		1865.2	1866.5	4.6	1.4	90.4	3.6	12.3	3.4	0.897	1.0
1076		1866.5	1867.6	3.7	2.1	87.8	6.4	9.9	5.0	0.892	1.0
1077		1867.6	1868.7	3.3	2.2	88.3	6.2	8.8	5.3	0.891	1.0
1078		1868.7	1869.8	3.2	1.9	87.8	7.1	8.7	4.6	0.891	1.0
1079		1869.8	1871.0	3.5	2.2	88.1	6.2	9.3	5.3	0.893	1.0
1080		1871.0	1872.0	4.8	1.9	87.1	6.2	12.8	4.6	0.894	1.0
1081		1872.0	1873.0	5.7	1.6	87.1	5.6	15.4	3.8	0.894	1.0
1082		1873.0	1874.0	5.4	1.1	89.5	4.0	14.5	2.6	0.893	1.0
1083		1874.0	1875.0	6.2	2.1	84.7	7.0	16.7	5.0	0.894	1.0
1084		1875.0	1876.0	5.0	2.6	84.6	7.8	13.6	6.2	0.886	1.0
1085		1876.0	1877.0	5.0	2.9	83.4	8.7	13.5	7.0	0.887	1.0
1086		1877.0	1878.0	5.0	2.5	83.2	9.3	13.6	6.0	0.889	1.0
1087		1878.0	1879.0	4.5	2.4	85.5	7.6	12.1	5.8	0.889	1.0
1088		1879.0	1880.0	4.1	2.2	86.4	7.3	11.2	5.3	0.890	1.0
1089		1880.0	1881.0	4.3	2.3	85.8	7.6	11.5	5.5	0.896	1.0
1090		1881.0	1882.3	5.2	2.1	84.5	8.2	13.8	5.0	0.901	1.0
1091		1882.3	1883.5	5.6	1.8	85.2	7.4	14.8	4.3	0.908	1.0
1092		1883.5	1884.6	5.3	1.8	85.1	7.8	13.9	4.3	0.909	1.0
1093		1884.6	1885.8	7.2	2.2	82.6	8.0	19.1	5.3	0.906	1.0
1094		1885.8	1886.0	0.0B	0.0B	0.0B	0.0B	13.5	0.0B	0.000B	0.0B
1095		1886.0	1887.0	3.0	1.0	90.7	5.3	8.1	2.4	0.898	1.0
1096		1887.0	1888.0	2.9	1.6	89.0	6.5	7.5	3.8	0.920	1.0
1097		1888.0	1889.0	4.2	1.9	87.7	6.2	11.3	4.6	0.903	1.0
1098		1889.0	1890.0	5.2	2.0	85.7	7.1	13.9	4.8	0.903	1.0
1099		1890.0	1891.0	4.1	2.3	86.6	7.0	10.8	5.5	0.904	1.0
1100		1891.0	1892.0	4.0	2.3	86.5	7.2	10.7	5.5	0.903	1.0

ALF/SALINE FA ANALYSIS - U S G S(03/23/75)

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PS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
01		1892.0	1893.0	7.8	1.8	84.6	5.8	20.8	4.3	0.902	1.0
02		1893.0	1894.0	7.0	1.7	84.9	6.4	18.5	4.1	0.900	1.0
03		1894.0	1895.0	6.0	1.8	85.4	6.8	16.0	4.3	0.900	1.0
04		1895.0	1896.0	6.2	1.6	86.0	6.2	16.4	3.8	0.901	1.0
05		1896.0	1897.0	4.5	0.9	91.0	3.6	11.9	2.2	0.899	1.0
06		1897.0	1898.0	4.2	1.1	89.8	4.9	11.2	2.6	0.903	1.0
07		1898.0	1899.0	5.3	0.8	91.2	2.7	14.1	1.9	0.896	1.0
08		1899.0	1900.0	4.3	0.8	91.9	3.0	11.5	1.9	0.903	1.0
09		1900.0	1901.0	7.2	1.1	86.4	5.3	19.1	2.6	0.910	1.0
10		1901.0	1902.3	8.0	1.1	86.8	4.1	21.2	2.6	0.902	1.0
11		1902.3	1903.7	13.3	1.2	79.0	6.5	35.4	2.9	0.901	1.0
12		1903.7	1904.7	9.9	1.8	82.0	6.3	26.3	4.3	0.903	1.0
13		1904.7	1905.9	2.3	5.3	77.0	15.4	6.0	12.7	0.926	1.0
14		1905.9	1907.0	8.1	2.3	81.0	8.6	21.5	5.5	0.908	1.0
15		1907.0	1908.0	6.9	2.8	83.1	7.2	18.3	6.7	0.901	1.0
16		1908.0	1909.0	7.3	3.8	75.8	13.1	19.3	9.1	0.911	1.0
17		1909.0	1910.0	10.6	2.3	78.8	8.3	27.9	5.5	0.911	1.0
18		1910.0	1911.0	8.5	4.6	73.4	13.5	22.5	11.0	0.908	1.0
19		1911.0	1912.0	11.0	2.8	77.2	9.0	29.2	6.7	0.904	1.0
20		1912.0	1913.0	3.6	7.0	72.1	17.3	9.7	16.8	0.904	1.0
21		1913.0	1914.0	9.8	2.4	77.2	10.6	26.0	5.8	0.907	1.0
22		1914.0	1915.0	13.7	1.7	79.3	5.3	36.4	4.1	0.905	1.0
23		1915.0	1916.0	11.7	2.2	78.3	7.8	30.8	5.3	0.908	1.0
24		1916.0	1917.0	12.3	2.1	78.4	7.2	32.7	5.0	0.904	1.0
25		1917.0	1918.0	9.3	3.8	75.0	11.9	24.7	9.1	0.903	1.0
26		1918.0	1919.0	12.1	1.8	81.6	4.5	32.2	4.3	0.902	1.0
27		1919.0	1920.0	10.8	1.7	81.6	5.9	28.6	4.1	0.904	1.0
28		1920.0	1921.0	5.3	4.1	81.0	9.6	14.0	9.8	0.903	1.0
29		1921.0	1922.0	6.8	3.6	81.0	8.6	18.1	8.6	0.903	1.0
30		1922.0	1923.0	6.3	4.0	80.8	8.9	16.8	9.6	0.901	1.0
31		1923.0	1924.0	9.0	1.3	86.8	2.9	23.9	3.1	0.900	1.0
32		1924.0	1925.0	8.2	3.3	78.0	10.5	21.8	7.9	0.898	1.0
33		1925.0	1926.0	7.1	3.8	77.3	11.8	18.9	9.1	0.899	1.0
34		1926.0	1927.0	6.4	3.7	75.6	14.3	17.0	8.9	0.900	1.0
35		1927.0	1928.0	6.5	1.7	82.2	9.6	17.1	4.1	0.904	1.0
36		1928.0	1929.0	7.4	2.4	82.5	7.7	19.7	5.8	0.900	1.0
37		1929.0	1930.0	5.8	3.4	80.5	10.3	15.5	8.1	0.903	1.0
38		1930.0	1931.0	4.5	4.5	76.7	14.3	11.9	10.8	0.904	1.0
39		1931.0	1932.1	6.7	2.9	81.7	8.7	17.5	7.0	0.910	1.0
40		1932.1	1933.5	5.1	3.9	80.2	10.8	13.3	9.3	0.911	1.0
41		1933.5	1934.7	7.8	1.6	84.1	6.5	20.5	3.8	0.905	1.0
42		1934.7	1935.8	4.9	3.8	79.7	11.6	13.0	9.1	0.907	1.0
43		1935.8	1936.8	6.2	3.7	79.9	10.2	16.4	8.9	0.905	1.0
44		1936.8	1937.8	8.5	1.1	86.3	4.1	22.8	2.6	0.897	1.0
45		1937.8	1938.9	5.7	1.4	88.9	4.0	15.1	3.4	0.899	1.0
46		1938.9	1940.0	6.4	1.0	88.0	4.6	17.0	2.4	0.902	1.0
47		1940.0	1941.0	7.5	1.0	86.3	5.2	19.9	2.4	0.902	1.0
48		1941.0	1942.0	9.4	0.9	84.4	5.4	25.0	1.9	0.902	1.0
49		1942.0	1943.0	8.4	1.1	85.1	5.4	22.3	2.6	0.901	1.0
50		1943.0	1944.0	9.3	1.4	83.1	6.2	24.9	3.4	0.893	1.0

SHALE/SALIN DATA ANALYSIS - U S G S(03/23/75)

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OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1151		1944.0	1945.0	8.9	1.3	84.7	5.1	23.9	3.1	0.892	1.0
1152		1945.0	1946.0	7.9	1.5	85.0	5.6	21.2	3.6	0.890	1.0
1153		1946.0	1947.0	8.3	2.1	82.2	7.4	22.2	5.0	0.895	1.0
1154		1947.0	1947.8	7.6	2.5	83.0	6.9	20.2	6.0	0.898	1.0
1155		1947.8	1948.0	0.0B	0.0B	0.0B	0.0B	25.4	0.0B	0.000B	0.0B
1156		1948.0	1949.0	11.5	0.9	82.8	4.8	30.6	2.2	0.901	1.0
1157		1949.0	1950.0	7.6	0.9	88.0	3.5	20.2	2.2	0.903	1.0
1158		1950.0	1951.0	13.5	0.8	81.0	4.7	35.9	1.9	0.904	1.0
1159		1951.0	1952.0	10.0	1.1	83.3	5.6	26.6	2.6	0.905	1.0
1160		1952.0	1953.0	12.6	1.3	78.8	7.3	33.3	3.1	0.909	1.0
1161		1953.0	1954.0	14.4	1.5	77.2	6.9	37.7	3.6	0.914	1.0
1162		1954.0	1955.0	14.5	1.1	79.1	5.3	38.3	2.5	0.909	1.0
1163		1955.0	1956.5	13.1	1.0	81.0	4.9	34.4	2.4	0.912	1.0
1164		1956.5	1957.5	12.2	1.0	81.6	5.2	32.1	2.4	0.909	1.0
1165		1957.5	1958.5	11.2	1.0	83.7	4.1	29.5	2.4	0.907	1.0
1166		1958.5	1959.5	7.8	0.6	89.4	2.2	20.7	1.3	0.902	1.0
1167		1959.5	1960.5	8.0	0.9	87.9	3.2	21.3	2.2	0.903	1.0
1168		1960.5	1961.5	6.6	0.9	90.4	2.1	17.7	2.2	0.900	1.0
1169		1961.5	1962.5	10.3	0.9	84.8	4.0	27.4	2.2	0.903	1.0
1170		1962.5	1963.6	11.9	1.1	82.4	4.6	31.4	2.8	0.905	1.0
1171		1963.6	1964.8	11.0	1.3	82.9	4.8	29.2	3.1	0.904	1.0
1172		1964.8	1966.0	8.4	1.7	84.5	5.4	22.5	4.1	0.900	1.0
1173		1966.0	1967.0	9.0	1.7	84.5	4.8	24.1	4.1	0.896	1.0
1174		1967.0	1968.0	9.9	1.4	83.8	4.9	26.2	3.4	0.900	1.0
1175		1968.0	1969.0	6.4	1.0	90.0	2.6	17.2	2.4	0.892	1.0
1176		1969.0	1970.0	5.7	0.8	91.3	2.2	15.5	1.9	0.892	1.0
1177		1970.0	1971.0	4.9	1.1	90.7	3.3	13.2	2.6	0.895	1.0
1178		1971.0	1972.0	6.5	0.8	89.9	2.8	17.3	1.9	0.900	1.0
1179		1972.0	1973.0	3.1	1.1	93.7	2.1	8.3	2.6	0.898	1.0
1180		1973.0	1974.0	3.1	1.1	93.8	2.0	8.4	2.6	0.896	1.0
1181		1974.0	1975.0	3.3	1.0	93.6	2.1	8.8	2.4	0.904	1.0
1182		1975.0	1976.0	7.2	1.0	89.0	2.8	19.3	2.4	0.894	1.0
1183		1976.0	1977.0	6.0	1.1	89.8	3.1	16.1	2.6	0.890	1.0
1184		1977.0	1978.0	5.5	1.3	88.7	4.5	14.7	3.1	0.896	1.0
1185		1978.0	1979.0	3.8	1.8	92.7	1.7	10.1	4.3	0.898	1.0
1186		1979.0	1980.0	3.1	2.2	91.9	2.8	8.1	5.3	0.899	1.0
1187		1980.0	1981.0	2.9	2.2	93.2	1.7	7.5	5.3	0.920	1.0
1188		1981.0	1982.0	3.8	1.3	93.2	1.7	10.2	3.1	0.895	1.0
1189		1982.0	1983.0	4.8	1.7	92.2	1.3	12.9	4.1	0.896	1.0
1190		1983.0	1984.0	4.8	2.3	90.9	2.0	12.8	5.5	0.896	1.0
1191		1984.0	1985.0	4.1	2.4	91.3	2.2	11.1	5.8	0.896	1.0
1192		1985.0	1986.0	3.8	2.4	92.2	1.7	9.8	5.8	0.897	1.0
1193		1986.0	1987.0	6.1	2.5	89.8	1.5	16.4	6.0	0.901	1.0
1194		1987.0	1988.0	6.1	1.3	91.4	1.2	16.2	3.1	0.908	1.0
1195		1988.0	1989.0	5.7	0.6	91.3	2.4	15.1	1.4	0.900	1.0
1196		1989.0	1990.0	4.6	0.9	92.6	1.9	12.4	2.2	0.901	1.0
1197		1990.0	1991.0	4.4	0.8	92.5	2.3	11.8	1.9	0.892	1.0
1198		1991.0	1992.0	4.3	0.5	93.8	1.4	11.6	1.2	0.885	1.0
1199		1992.0	1993.0	3.8	0.4	93.8	2.0	10.4	1.0	0.886	1.0
1200		1993.0	1994.0	5.0	0.5	92.1	2.4	13.5	1.2	0.887	1.0

.LE/SALINE DA ANALYSIS - U S G S(03/23/75) DA1 7/29/75

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S O	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1		1994.0	1995.0	4.4	0.4	93.9	1.3	11.9	1.0	0.884	1.0
2		1995.0	1996.0	4.6	0.5	93.6	1.3	12.5	1.2	0.889	1.0
3		1996.0	1997.0	6.1	0.7	90.4	2.8	16.4	1.7	0.898	1.0
4		1997.0	1998.0	7.2	0.6	89.4	2.8	19.3	1.4	0.899	1.0
5		1998.0	1999.0	7.9	0.7	88.3	3.1	21.3	1.7	0.896	1.0
6		1999.0	2000.0	6.6	1.4	87.7	4.3	17.6	3.4	0.892	1.0
7		2000.0	2001.0	6.4	1.5	87.5	4.6	17.3	3.6	0.889	1.0
8		2001.0	2002.0	7.6	1.8	85.1	5.5	20.3	4.3	0.891	1.0
9		2002.0	2003.2	9.5	1.8	83.7	5.0	25.6	4.3	0.887	1.0
0		2003.2	2003.9	10.5	1.3	84.6	3.6	28.1	3.1	0.893	1.0
1		2003.9	2007.1	0.0B	0.0B	0.0B	0.0B	27.0	0.0B	0.000B	0.0B
2		2007.1	2008.4	9.7	1.3	85.9	3.1	25.8	3.1	0.903	1.0
3		2008.4	2009.6	9.9	1.1	86.5	2.5	26.2	2.6	0.904	1.0
4		2009.6	2010.9	7.0	1.3	89.5	2.2	18.8	3.1	0.900	1.0
5		2010.9	2011.9	8.4	1.2	87.9	2.5	22.5	2.9	0.898	1.0
6		2011.9	2013.0	8.8	1.6	86.1	3.5	23.4	3.7	0.901	1.0
7		2013.0	2014.0	10.3	1.8	83.3	4.6	27.6	4.3	0.896	1.0
8		2014.0	2015.2	8.6	1.4	88.0	2.0	23.1	3.4	0.896	1.0
9		2015.2	2016.3	7.4	1.4	89.3	1.9	19.7	3.4	0.901	1.0
0		2016.3	2017.5	8.4	1.2	88.5	1.9	22.4	2.9	0.901	1.0
1		2017.5	2018.8	6.8	1.1	89.8	2.3	18.0	2.6	0.904	1.0
2		2018.8	2020.0	0.0B	0.0B	0.0B	0.0B	16.5	0.0B	0.000B	0.0B
3		2020.0	2021.0	5.5	1.9	90.0	2.6	14.9	4.6	0.897	1.0
4		2021.0	2022.0	4.9	2.1	91.4	1.6	13.2	5.0	0.890	1.0
5		2022.0	2023.0	7.5	2.0	88.2	2.3	19.9	4.8	0.900	1.0
6		2023.0	2024.0	12.7	1.5	83.2	2.6	33.7	3.6	0.906	1.0
7		2024.0	2025.0	10.1	1.7	84.8	3.4	26.7	4.1	0.907	1.0
8		2025.0	2026.0	5.2	2.5	89.8	2.5	14.0	6.0	0.895	1.0
9		2026.0	2027.0	3.0	2.8	91.6	2.6	8.0	6.7	0.890	1.0
0		2027.0	2028.0	5.8	2.3	89.3	2.6	15.3	5.5	0.901	1.0
1		2028.0	2029.0	2.1	1.8	94.0	2.1	5.6	4.3	0.894	1.0
2		2029.0	2030.0	2.8	1.5	92.1	3.6	7.6	3.6	0.897	1.0
3		2030.0	2031.0	4.5	2.4	91.4	1.7	12.0	5.8	0.891	1.0
4		2031.0	2032.0	6.1	2.5	88.8	2.6	16.4	6.0	0.890	1.0
5		2032.0	2033.0	4.8	2.7	90.0	2.5	13.0	6.5	0.887	1.0
6		2033.0	2034.0	3.5	3.2	90.6	2.7	9.4	7.7	0.888	1.0
7		2034.0	2035.0	4.3	2.9	88.8	4.0	11.6	7.0	0.890	1.0
8		2035.0	2036.0	4.4	2.9	88.9	3.8	11.9	7.0	0.893	1.0
9		2036.0	2037.0	11.7	2.2	82.9	3.2	31.0	5.3	0.906	1.0
0		2037.0	2038.0	15.2	0.8	80.7	3.3	40.4	1.9	0.903	1.0
1		2038.0	2039.0	13.9	1.1	82.0	3.0	36.8	2.6	0.903	1.0
2		2039.0	2040.0	15.8	1.3	79.2	3.7	41.8	3.1	0.906	1.0
3		2040.0	2041.0	10.2	1.0	83.4	5.4	26.9	2.4	0.905	1.0
4		2041.0	2042.1	8.0	1.6	88.0	2.4	21.1	3.8	0.910	1.0
5		2042.1	2043.2	6.4	1.8	89.9	1.9	16.8	4.3	0.911	1.0
6		2043.2	2044.6	5.2	2.6	90.1	2.1	13.6	6.2	0.912	1.0
7		2044.6	2045.7	6.5	2.3	88.7	2.5	17.0	5.5	0.912	1.0
8		2045.7	2046.7	8.3	2.9	85.4	3.4	22.0	7.0	0.909	1.0
9		2046.7	2047.8	5.3	2.3	90.4	2.0	14.0	5.5	0.906	1.0
0		2047.8	2048.8	5.2	2.2	90.7	1.9	13.8	5.3	0.903	1.0

SHALE/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS CH2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1251		2048.8	2049.8	3.8	2.3	92.1	1.8	10.2	5.5	0.899	1.0
1252		2049.8	2050.8	6.1	2.5	88.4	3.0	16.5	6.0	0.890	1.0
1253		2050.8	2051.8	10.2	2.8	83.7	3.3	26.9	6.7	0.907	1.0
1254		2051.8	2053.2	12.3	1.6	83.0	3.1	32.5	3.8	0.904	1.0
1255		2053.2	2054.6	14.8	1.5	80.6	3.1	39.5	3.6	0.900	1.0
1256		2054.6	2055.6	13.1	1.1	81.5	4.3	34.6	2.6	0.907	1.0
1257		2055.6	2057.1	6.6	1.9	88.1	3.4	17.5	4.6	0.907	1.0
1258		2057.1	2058.4	4.6	2.8	89.8	2.8	12.4	6.7	0.894	1.0
1259		2058.4	2059.6	2.9	2.8	90.0	4.3	7.8	6.8	0.887	1.0
1260		2059.6	2060.8	2.1	2.8	92.7	2.4	5.6	6.7	0.880	1.0
1261		2060.8	2062.0	2.0	3.5	91.6	2.9	5.6	8.4	0.87[illegible]	1.0
1262		2062.0	2063.0	3.7	2.2	91.9	2.2	9.9	5.2	0.902	1.0
1263		2063.0	2064.0	3.8	2.5	91.4	2.3	10.2	6.0	0.905	1.0
1264		2064.0	2065.0	3.7	2.7	91.3	2.3	9.9	6.5	0.889	1.0
1265		2065.0	2066.0	3.8	2.6	91.3	2.3	10.2	6.2	0.889	1.0
1266		2066.0	2067.0	3.4	2.7	91.8	2.1	9.2	6.5	0.886	1.0
1267		2067.0	2068.0	3.1	2.4	91.7	2.8	8.3	5.8	0.886	1.0
1268		2068.0	2069.0	2.4	2.3	92.4	2.9	6.6	5.5	0.880	1.0
1269		2069.0	2070.0	2.0	2.2	92.7	3.1	5.1	5.3	0.920	1.0
1270		2070.0	2071.0	1.4	2.1	93.7	2.8	2.7	5.0	0.920	1.0
1271		2071.0	2072.0	1.7	2.0	92.5	3.8	4.6	4.8	0.920	1.0
1272		2072.0	2073.3	1.8	1.8	92.9	3.5	4.8	4.3	0.920	1.0
1273		2073.3	2074.3	1.9	2.3	92.7	3.1	4.9	5.5	0.920	1.0
1274		2074.3	2077.0	0.0B	0.0B	0.0B	0.0B	4.9	0.0B	0.000B	0.0B
1275		2077.0	2078.0	1.9	2.7	92.4	3.0	4.9	6.5	0.920	1.0
1276		2078.0	2079.2	2.1	2.4	93.7	1.8	5.6	5.8	0.920	1.0
1277		2079.2	2080.3	2.2	2.2	93.1	2.5	6.0	5.3	0.878	1.0
1278		2080.3	2081.3	3.1	1.8	93.4	1.7	8.2	4.3	0.899	1.0
1279		2081.3	2082.6	3.4	2.5	91.6	2.5	9.1	6.0	0.890	1.0
1280		2082.6	2083.6	3.3	2.8	91.6	2.3	9.1	6.7	0.885	1.0
1281		2083.6	2084.6	4.3	2.5	90.7	2.5	11.7	6.0	0.879	1.0
1282		2084.6	2085.6	4.1	3.0	90.4	2.5	11.1	7.2	0.880	1.0
1283		2085.6	2086.8	2.4	2.9	92.6	2.1	6.6	7.0	0.873	1.0
1284		2086.8	2088.0	2.6	3.4	92.1	1.9	7.1	8.1	0.873	1.0
1285		2088.0	2089.0	3.4	2.7	91.6	2.3	9.3	6.5	0.874	1.0
1286		2089.0	2090.2	3.7	2.1	93.5	0.7	10.1	5.0	0.883	1.0
1287		2090.2	2091.3	4.2	2.8	90.8	2.2	11.3	6.7	0.886	1.0
1288		2091.3	2092.9	4.3	2.1	92.2	1.4	11.5	5.0	0.894	1.0
1289		2092.9	2094.0	6.0	2.5	88.9	2.6	16.3	6.0	0.888	1.0
1290		2094.0	2095.2	5.6	2.9	88.6	2.9	15.2	7.0	0.889	1.0
1291		2095.2	2096.4	5.2	3.3	87.7	3.8	14.0	7.9	0.891	1.0
1292		2096.4	2097.7	5.6	2.9	89.2	2.3	15.1	7.0	0.889	1.0
1293		2097.7	2098.2	0.0B	0.0B	0.0B	0.0B	15.3	0.0B	0.000B	0.0B
1294		2098.2	2099.2	5.7	1.8	91.0	1.5	15.4	4.3	0.886	1.0
1295		2099.2	2100.4	4.8	2.7	90.3	2.2	13.0	6.6	0.879	1.0
1296		2100.4	2101.6	3.1	2.7	92.2	2.0	8.5	6.5	0.878	1.0
1297		2101.6	2102.9	2.4	2.5	92.5	2.6	6.6	6.0	0.880	1.0
1298		2102.9	2104.2	3.8	3.3	90.3	2.6	10.3	7.9	0.882	1.0
1299		2104.2	2105.4	4.2	3.0	89.7	3.1	11.4	7.2	0.893	1.0
1300		2105.4	2106.5	4.4	3.2	88.9	3.5	11.8	7.7	0.901	1.0

E/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

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SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
	2106.5	2107.5	4.1	0.6	92.7	2.6	10.8	1.4	0.920	1.0
	2107.5	2108.6	2.4	2.3	93.4	1.9	6.5	5.5	0.890	1.0
	2108.6	2109.6	3.2	2.7	92.1	2.0	8.5	6.5	0.895	1.0
	2109.6	2110.7	4.0	3.1	90.7	2.2	10.7	7.4	0.893	1.0
	2110.7	2112.0	3.8	3.0	90.4	2.8	10.3	7.2	0.887	1.0
	2112.0	2113.2	3.1	2.0	92.5	2.4	8.3	4.8	0.885	1.0
	2113.2	2114.2	2.8	2.8	92.3	2.1	7.7	6.7	0.877	1.0
	2114.2	2115.3	3.3	1.9	92.0	2.8	8.9	4.6	0.881	1.0
	2115.3	2116.4	6.0	2.3	89.3	2.4	15.0	5.5	0.899	1.0
	2116.4	2117.5	6.8	2.1	89.1	3.0	18.0	5.0	0.904	1.0
	2117.5	2130.5	0.0B	0.0B	0.0B	0.0B	17.5	0.0B	0.000B	0.0B
	2130.5	2131.5	6.4	1.7	89.5	2.4	17.0	4.1	0.902	1.0
	2131.5	2132.6	7.9	1.4	88.2	2.5	20.9	3.4	0.907	1.0
	2132.6	2133.8	9.2	1.9	85.8	3.1	24.3	4.6	0.913	1.0
	2133.8	2135.0	6.3	2.1	88.6	3.0	16.8	5.0	0.902	1.0
	2135.0	2136.0	4.6	2.0	91.9	1.5	12.4	4.8	0.899	1.0
	2136.0	2137.0	5.6	3.1	89.4	1.9	14.8	7.4	0.899	1.0
	2137.0	2138.0	5.2	1.9	91.4	1.5	13.8	4.6	0.899	1.0
	2138.0	2139.0	4.7	2.3	91.5	1.5	12.5	5.5	0.895	1.0
	2139.0	2140.0	4.1	2.5	91.4	2.0	11.0	6.0	0.896	1.0
	2140.0	2141.1	4.0	2.1	92.1	1.8	10.8	5.0	0.890	1.0
	2141.1	2142.2	3.7	2.8	91.5	2.0	10.0	6.7	0.896	1.0
	2142.2	2143.3	4.0	2.5	90.7	2.8	10.6	6.1	0.900	1.0
	2143.3	2144.4	5.6	2.4	89.9	2.1	14.8	5.8	0.904	1.0
	2144.4	2145.5	8.3	2.0	85.9	3.8	22.0	4.8	0.904	1.0
	2145.5	2146.5	9.2	1.0	86.4	3.4	24.6	2.4	0.901	1.0
	2146.5	2147.5	13.2	1.3	77.9	7.6	35.0	3.1	0.904	1.0
	2147.5	2148.5	11.3	1.9	84.0	2.8	30.1	4.6	0.899	1.0
	2148.5	2149.7	9.7	2.6	84.4	3.3	26.3	6.1	0.891	1.0
	2149.7	2150.7	9.2	2.0	86.2	2.6	24.4	4.8	0.898	1.0
	2150.7	2151.8	5.5	0.9	92.2	1.4	14.8	2.2	0.894	1.0
	2151.8	2153.0	4.6	2.4	91.0	2.0	12.2	5.8	0.893	1.0
	2153.0	2154.0	5.2	2.3	90.6	1.9	13.9	5.5	0.890	1.0
	2154.0	2155.0	5.4	2.5	89.8	2.3	14.6	6.0	0.893	1.0
	2155.0	2156.0	5.2	2.4	90.3	2.1	14.3	5.3	0.879	1.0
	2156.0	2157.0	4.7	2.4	90.3	2.6	12.9	5.8	0.884	1.0
	2157.0	2158.0	5.2	2.1	90.6	2.1	14.2	5.0	0.880	1.0
	2158.0	2159.0	4.7	1.6	92.3	1.4	12.8	3.8	0.882	1.0
	2159.0	2160.0	4.0	1.7	92.5	1.8	10.9	4.1	0.882	1.0
	2160.0	2161.0	4.2	1.4	92.6	1.8	11.4	3.4	0.873	1.0
	2161.0	2162.0	5.8	2.0	89.4	2.8	15.7	4.8	0.880	1.0
	2162.0	2163.0	8.9	1.8	87.0	2.3	24.2	4.3	0.888	1.0
	2163.0	2164.2	7.2	1.6	88.3	2.9	19.4	3.8	0.893	1.0
	2164.2	2165.2	6.1	1.8	89.8	2.3	16.2	4.3	0.903	1.0
	2165.2	2166.2	6.2	2.7	88.2	2.9	16.7	6.5	0.893	1.0
	2166.2	2167.3	5.8	2.2	88.2	3.8	15.5	5.3	0.891	1.0
	2167.3	2168.7	4.8	2.1	90.2	2.9	12.9	5.0	0.894	1.0
	2168.7	2169.9	10.0	1.5	85.7	2.8	26.6	3.6	0.903	1.0
	2169.9	2171.3	11.1	1.8	84.1	3.0	29.4	4.3	0.904	1.0
	2171.3	2172.7	8.1	2.2	87.1	2.6	21.5	5.2	0.907	1.0

USGS CF2 IN 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1351		2172.7	2173.8	7.2	2.2	88.3	2.3	19.1	5.3	0.899	1.0
1352		2173.6	2174.9	9.8	2.1	85.1	3.0	25.9	5.0	0.907	1.0
1353		2174.9	2176.0	13.1	1.8	81.8	3.3	34.8	4.3	0.903	1.0
1354		2176.0	2177.0	10.1	2.0	85.1	2.8	26.9	4.8	0.897	1.0
1355		2177.0	2178.3	8.7	2.0	86.3	3.0	23.3	4.8	0.898	1.0
1356		2178.3	2179.3	9.3	1.6	87.0	2.1	24.7	3.8	0.903	1.0
1357		2179.3	2180.3	9.3	1.7	85.8	3.2	24.6	4.1	0.910	1.0
1358		2180.3	2181.4	4.1	2.7	91.5	1.7	11.1	6.5	0.893	1.0
1359		2181.4	2182.4	4.1	2.5	90.5	2.9	11.0	6.0	0.895	1.0
1360		2182.4	2183.4	5.3	2.4	90.4	1.9	14.0	5.8	0.898	1.0
1361		2183.4	2184.4	6.4	2.5	88.5	2.6	17.0	6.0	0.897	1.0
1362		2184.4	2185.4	4.8	1.9	91.2	2.1	12.8	4.6	0.896	1.0
1363		2185.4	2186.4	4.7	2.7	90.0	2.6	12.5	6.5	0.896	1.0
1364		2186.4	2187.4	4.8	3.1	88.8	3.3	12.9	7.4	0.889	1.0
1365		2187.4	2188.4	4.8	2.9	89.7	2.6	13.0	7.0	0.884	1.0
1366		2188.4	2190.0	2.7	3.2	91.9	2.2	7.2	7.7	0.891	1.0
1367		2190.0	2192.0	2.7	3.1	91.9	2.3	7.3	7.4	0.877	1.0
1368		2192.0	2193.0	3.0	3.3	90.8	2.9	8.0	7.9	0.882	1.0
1369		2193.0	2194.0	3.6	3.2	90.2	3.0	9.7	7.7	0.891	1.0
1370		2194.0	2195.0	3.9	3.5	88.6	4.0	10.4	8.4	0.900	1.0
1371		2195.0	2196.0	6.6	2.9	87.6	2.9	17.4	7.0	0.915	1.0
1372		2196.0	2197.0	6.8	2.8	86.8	3.6	17.9	6.7	0.916	1.0
1373		2197.0	2198.0	7.8	2.8	86.1	3.3	20.6	6.7	0.907	1.0
1374		2198.0	2199.0	5.0	2.3	89.9	2.8	13.4	5.5	0.896	1.0
1375		2199.0	2200.0	4.1	1.9	90.4	3.6	11.0	4.6	0.897	1.0
1376		2200.0	2201.1	2.5	2.9	91.5	3.1	6.8	7.0	0.897	1.0
1377		2201.1	2202.2	3.9	2.7	92.6	0.8	10.5	6.5	0.901	1.0
1378		2202.2	2203.2	7.1	2.3	88.3	2.3	18.7	5.5	0.906	1.0
1379		2203.2	2204.2	10.5	1.5	85.2	2.8	27.9	3.6	0.904	1.0
1380		2204.2	2205.2	11.4	2.4	82.9	3.3	30.3	5.6	0.904	1.0
1381		2205.2	2206.2	15.8	2.3	78.3	3.6	41.8	5.5	0.905	1.0
1382		2206.2	2207.3	8.4	2.9	85.8	2.9	22.2	7.0	0.908	1.0
1383		2207.3	2208.3	11.0	2.0	83.0	3.4	28.9	6.2	0.911	1.0
1384		2208.3	2209.4	8.6	1.9	87.6	1.9	22.7	4.6	0.906	1.0
1385		2209.4	2210.5	6.8	2.1	89.1	2.0	18.4	5.0	0.890	1.0
1386		2210.5	2211.6	9.4	2.4	85.8	2.4	25.3	5.6	0.894	1.0
1387		2211.6	2212.6	8.9	2.0	86.3	2.8	23.7	4.8	0.901	1.0
1388		2212.6	2213.6	9.0	1.3	87.0	2.7	24.0	3.1	0.903	1.0
1389		2213.6	2214.6	8.8	1.1	88.1	2.0	23.5	2.6	0.897	1.0
1390		2214.6	2215.8	8.4	2.0	86.6	3.0	22.2	4.8	0.905	1.0
1391		2215.8	2217.0	9.1	2.1	86.0	2.8	24.5	5.0	0.887	1.0
1392		2217.0	2218.0	8.0	2.2	87.3	2.5	21.5	5.3	0.891	1.0
1393		2218.0	2219.0	9.2	2.2	85.2	3.4	24.9	5.3	0.886	1.0
1394		2219.0	2220.0	8.0	2.6	88.9	0.5	21.7	6.2	0.888	1.0
1395		2220.0	2221.0	5.7	3.0	88.8	2.5	15.6	7.2	0.883	1.0
1396		2221.0	2222.0	5.3	3.5	89.0	2.2	14.5	8.4	0.893	1.0
1397		2222.0	2223.0	4.0	3.0	90.5	2.5	10.8	7.2	0.886	1.0
1398		2223.0	2224.4	3.8	3.9	89.9	2.4	10.4	9.3	0.885	1.0
1399		2224.4	2225.7	3.8	3.5	90.1	2.6	10.2	8.4	0.893	1.0
1400		2225.7	2226.0	0.0B	0.0B	0.0B	0.0B	13.4	0.0B	0.0008	0.0B

LE/SALINE DAT ANALYSIS = U S G S(03/23/75)

DATE 7/29/75

USGS CR2 1N 97W 36

SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
1	2226.0	2227.0	6.2	2.8	88.9	2.1	16.5	6.7	0.903	1.0
2	2227.0	2228.0	7.3	1.8	88.1	2.8	19.4	4.3	0.902	1.0
3	2228.0	2229.0	5.7	2.2	90.1	2.0	15.3	5.3	0.901	1.0
4	2229.0	2230.0	6.2	2.8	88.6	2.4	16.7	6.7	0.893	1.0
5	2230.0	2231.0	3.3	2.2	92.2	2.3	8.9	5.3	0.897	1.0
6	2231.0	2232.0	3.5	2.9	91.7	1.9	9.6	7.0	0.888	1.0
7	2232.0	2232.7	0.0B	0.0B	0.0B	0.0B	6.8	0.0B	0.000B	0.0B
8	2232.7	2234.0	3.1	2.7	90.5	3.7	8.2	6.5	0.894	1.0
9	2234.0	2235.2	3.1	3.0	92.1	1.8	8.2	7.2	0.911	1.0
0	2235.2	2237.0	5.0	3.4	89.5	2.1	13.3	8.1	0.912	1.0
1	2237.0	2238.0	0.0B	0.0B	0.0B	0.0B	8.6	0.0B	0.000B	0.0B
2	2238.0	2239.0	1.4	3.5	92.7	2.4	3.8	8.4	0.902	1.0
3	2239.0	2240.0	1.4	3.1	92.8	2.7	3.6	7.4	0.902	1.0
4	2240.0	2241.0	1.7	3.3	92.5	2.5	4.4	7.9	0.902	1.0
5	2241.0	2242.0	1.4	3.3	92.7	2.6	3.6	7.9	0.902	1.0
6	2242.0	2243.2	2.9	2.8	92.0	2.3	7.8	6.7	0.882	1.0
7	2243.2	2244.3	3.5	2.8	91.7	2.0	9.6	6.7	0.886	1.0
8	2244.3	2244.6	0.0B	0.0B	0.0B	0.0B	9.2	0.0B	0.000B	0.0B
9	2244.6	2246.0	3.3	3.1	91.3	2.3	8.8	7.4	0.885	1.0
0	2246.0	2247.0	12.1	2.0	82.3	3.6	32.0	4.8	0.908	1.0
1	2247.0	2248.0	11.8	2.4	81.5	4.3	31.4	5.8	0.903	1.0
2	2248.0	2249.0	9.4	3.2	83.1	4.3	24.9	7.6	0.906	1.0
3	2249.0	2250.0	8.3	2.5	85.3	3.9	22.4	6.0	0.890	1.0
4	2250.0	2251.0	6.1	2.9	87.7	3.3	16.5	7.0	0.884	1.0
5	2251.0	2252.0	6.7	2.8	87.3	3.2	18.1	6.7	0.883	1.0
6	2252.0	2253.0	5.3	2.8	89.0	2.9	14.5	6.7	0.876	1.0
7	2253.0	2254.2	5.2	2.7	89.4	2.7	14.3	6.5	0.881	1.0
8	2254.2	2255.4	5.0	2.7	88.8	3.5	13.7	6.5	0.877	1.0
9	2255.4	2255.7	0.0B	0.0B	0.0B	0.0B	12.9	0.0B	0.000B	0.0B
0	2255.7	2257.0	4.4	2.7	90.9	2.0	12.0	6.5	0.871	1.0
1	2257.0	2258.5	4.4	2.8	90.4	2.4	11.9	6.7	0.876	1.0
2	2258.5	2261.9	2.4	3.4	91.1	3.1	6.6	8.1	0.868	1.0
3	2261.9	2263.0	4.9	2.4	90.6	2.1	13.2	5.6	0.890	1.0
4	2263.0	2264.0	5.9	2.5	89.3	2.4	15.4	5.0	0.897	1.0
5	2264.0	2265.0	4.2	3.4	89.5	2.9	11.4	8.1	0.885	1.0
6	2265.0	2266.2	5.4	2.7	89.5	3.4	14.5	6.6	0.891	1.0
7	2266.2	2267.3	4.9	2.9	89.8	2.4	13.2	7.1	0.897	1.0
8	2267.3	2268.4	2.7	3.3	92.1	1.9	7.4	7.9	0.877	1.0
9	2268.4	2269.7	1.3	3.4	92.8	2.5	3.4	8.1	0.920	1.0
0	2269.7	2271.5	1.8	2.9	93.4	1.9	4.7	7.0	0.920	1.0
1	2271.5	2274.4	0.0B	0.0B	0.0B	0.0B	7.6	0.0B	0.000B	0.0B
2	2274.4	2275.7	3.8	2.4	91.6	2.2	10.4	5.8	0.884	1.0
3	2275.7	2277.0	4.8	2.7	90.4	2.1	12.8	6.5	0.893	1.0
4	2277.0	2278.0	4.7	2.9	90.8	1.6	12.6	7.0	0.888	1.0
5	2278.0	2279.0	5.0	2.7	90.4	1.9	13.6	6.5	0.889	1.0
6	2279.0	2280.0	4.2	2.6	90.8	2.4	11.4	6.2	0.888	1.0
7	2280.0	2281.0	3.4	1.7	90.5	4.4	9.2	4.1	0.896	1.0
8	2281.0	2282.0	1.8	2.7	91.4	4.1	4.7	6.5	0.920	1.0
9	2282.0	2283.1	1.8	2.7	93.5	2.0	4.6	6.5	0.920	1.0
0	2283.1	2292.0	0.0B	0.0B	0.0B	0.0B	5.8	0.0B	0.000B	0.0B

SHALE/SALINE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

USGS CR2 1N 97W 36

OBS NO	SAMPLE I D	DEPTH-ST	DEPTH-EN	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCOKE
1451		2292.0	2295.2	2.6	2.9	92.0	2.5	7.0	7.0	0.875	1.0
1452		2295.2	2296.1	4.8	3.0	90.0	2.2	13.0	7.2	0.869	1.0
1453		2296.1	2297.6	4.9	3.4	88.3	3.4	13.1	8.1	0.897	1.0
1454		2297.6	2298.9	2.4	2.3	94.0	1.3	6.6	5.5	0.891	1.0
1455		2298.9	2300.0	7.7	2.3	88.5	2.0	19.2	5.5	0.904	1.0
1456		2300.0	2301.0	10.6	2.0	85.1	2.3	27.8	4.6	0.911	1.0
1457		2301.0	2302.0	5.8	2.4	88.7	3.1	15.3	5.8	0.905	1.0
1458		2302.0	2306.1	1.9	3.0	93.9	1.2	5.0	7.2	0.920	1.0
1459		2306.1	2307.2	6.1	2.2	89.3	2.4	16.2	5.3	0.904	1.0
1460		2307.2	2308.2	5.3	2.9	89.8	2.0	14.2	7.0	0.896	1.0
1461		2308.2	2309.3	4.5	2.3	91.1	2.1	12.1	5.5	0.889	1.0
1462		2309.3	2310.4	4.1	3.4	89.8	2.7	11.0	8.1	0.889	1.0
1463		2310.4	2311.7	4.1	2.6	90.8	2.5	10.8	6.2	0.900	1.0
1464		2311.7	2312.0	0.0B	0.0B	0.0B	0.0B	13.2	0.0B	0.000B	0.0B
1465		2312.0	2313.0	5.8	3.4	87.6	3.2	15.5	8.1	0.897	1.0
1466		2313.0	2314.0	4.2	2.9	89.8	3.1	11.4	7.0	0.892	1.0
1467		2314.0	2315.0	3.3	3.6	90.8	2.3	8.9	8.6	0.892	1.0
1468		2315.0	2316.5	4.7	3.0	90.6	1.7	12.6	7.2	0.890	1.0
1469		2316.5	2317.5	7.0	2.6	88.7	1.7	18.8	6.2	0.901	1.0
1470		2317.5	2318.5	10.9	1.7	85.1	2.3	28.7	4.1	0.910	1.0
1471		2318.5	2319.5	7.6	2.6	86.9	2.9	20.2	6.2	0.904	1.0
1472		2319.5	2320.9	7.9	2.2	88.0	1.9	21.1	5.3	0.900	1.0
1473		2320.9	2323.0	0.0B	0.0B	0.0B	0.0B	15.2	0.0B	0.000B	0.0B
1474		2323.0	2324.0	3.5	3.0	91.7	1.8	9.3	7.2	0.899	1.0
1475		2324.0	2325.0	3.9	2.6	90.2	3.3	10.3	6.2	0.901	1.0
1476		2325.0	2326.0	4.8	3.0	89.6	2.6	12.7	7.2	0.907	1.0
1477		2326.0	2327.0	5.5	2.8	88.6	3.1	14.6	6.7	0.907	1.0
1478		2327.0	2328.0	2.3	6.6	88.8	2.3	17.4	5.5	0.904	1.0
1479		2328.0	2329.0	8.2	2.6	85.1	4.1	21.9	6.2	0.902	1.0
1480		2329.0	2330.0	8.6	2.3	86.7	2.4	22.8	5.5	0.901	1.0
1481		2330.0	2331.2	9.3	2.7	84.8	3.2	24.7	6.5	0.898	1.0
1482		2331.2	2332.3	3.5	2.5	92.1	1.9	9.4	6.0	0.904	1.0
1483		2332.3	2333.5	2.9	2.5	93.2	1.4	7.7	6.0	0.902	1.0
1484		2333.5	2334.7	2.5	2.5	93.7	1.3	6.6	6.0	0.900	1.0
1485		2334.7	2336.0	2.4	1.9	94.9	0.8	6.4	4.6	0.899	1.0
1486		2336.0	2337.0	3.6	2.9	91.7	1.8	9.5	7.0	0.905	1.0
1487		2337.0	2338.0	1.9	2.2	94.5	1.4	4.9	5.3	0.920	1.0
1488		2338.0	2339.0	1.2	1.6	95.6	1.6	3.3	3.7	0.920	1.0
1489		2339.0	2340.0	1.5	2.2	95.5	0.8	4.0	5.3	0.920	1.0
1490		2340.0	2341.0	1.2	2.1	96.2	0.5	3.2	5.0	0.920	1.0
1491		2341.0	2342.0	1.2	2.6	94.9	1.3	3.2	6.2	0.920	1.0
1492		2342.0	2343.0	1.2	2.5	95.1	1.2	3.2	6.0	0.920	1.0
1493		2343.0	2344.0	0.7	2.1	96.1	1.1	1.8	5.0	0.920	1.0
1494		2344.0	2345.0	1.4	1.9	96.1	0.6	3.6	4.6	0.920	1.0
1495		2345.0	2346.0	1.4	1.6	96.4	0.6	3.8	3.8	0.920	1.0
1496		2346.0	2347.0	0.7	1.0	97.7	0.6	1.8	2.4	0.920	1.0
1497		2347.0	2348.0	1.4	2.1	95.2	1.3	3.6	5.0	0.920	1.0
1498		2348.0	2349.0	1.3	2.0	94.8	1.9	3.4	4.8	0.920	1.0
1499		2349.0	2350.0	1.8	2.8	94.0	1.4	4.6	6.7	0.920	1.0
1500		2350.0	2351.0	1.3	1.8	96.2	0.7	3.4	4.3	0.920	1.0

E/SALINE DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

USGS CR2 1N 97W 36

SAMPLE I D	DEPTH-ST	DEPTH-ED	OIL WT %	WTR WT %	SPT SHAL	GAS+LOSS	OIL GPT	WTR GPT	SPECGRAV	TENDCORE
	2351.0	2352.0	1.2	2.3	95.4	1.1	3.1	5.5	0.920	1.0
	2352.0	2353.0	1.5	2.4	95.3	0.8	3.9	5.8	0.920	1.0
	2353.0	2354.0	1.2	2.2	96.0	0.6	3.2	5.3	0.920	1.0
	2354.0	2354.9	1.6	2.5	94.4	1.5	4.1	6.0	0.920	1.0
	2354.9	2355.3	0.0B	0.0B	0.0B	0.0B	4.0	0.0B	0.000B	0.0B
	2355.3	2356.9	1.5	2.5	94.3	1.7	3.9	6.0	0.920	1.0
	2356.9	2357.1	0.0B	0.0B	0.0B	0.0B	3.9	0.0B	0.000B	0.0B
	2357.1	2358.9	1.5	2.2	94.7	1.6	3.9	5.3	0.920	1.0
	2358.9	2359.3	0.0B	0.0B	0.0B	0.0B	3.4	0.0B	0.000B	0.0B
	2359.3	2360.6	1.1	1.4	95.8	1.7	2.9	3.4	0.920	1.0
	2360.6	2361.8	2.9	2.9	92.9	1.3	7.5	7.0	0.920	1.0
	2361.8	2362.8	1.4	1.6	95.6	1.4	3.6	3.8	0.920	1.0
	2362.8	2363.8	0.8	2.5	96.1	0.6	2.0	6.0	0.920	1.0
	2363.8	2364.8	1.0	1.7	95.9	1.4	2.5	4.1	0.920	1.0
	2364.9	2365.8	1.0	2.2	96.0	0.8	2.6	5.3	0.920	1.0
	2365.8	2366.8	1.9	2.1	94.9	1.1	4.9	5.0	0.920	1.0
	2366.8	2367.9	5.3	1.9	91.2	1.6	14.6	4.6	0.875	1.0
	2367.9	2369.0	5.9	1.8	90.2	2.1	16.2	4.3	0.878	1.0
	2369.0	2370.0	5.5	2.6	89.9	2.0	15.0	6.2	0.880	1.0
	2370.0	2371.0	2.6	3.2	92.9	1.3	7.1	7.7	0.886	1.0
	2371.0	2372.0	1.8	3.1	94.0	1.1	4.7	7.4	0.920	1.0
	2372.0	2373.0	1.9	2.2	94.9	1.0	5.0	5.3	0.920	1.0
	2373.0	2374.1	2.3	2.3	94.5	0.9	6.1	5.5	0.920	1.0
	2374.1	2375.3	5.6	2.2	90.3	1.4	15.3	5.3	0.877	1.0
	2375.3	2376.5	4.6	2.4	91.6	1.4	12.4	5.8	0.882	1.0
	2376.5	2377.8	4.5	2.7	91.7	1.1	12.1	6.5	0.895	1.0
	2377.8	2379.0	1.0	1.2	97.2	0.6	2.6	2.9	0.920	1.0
	2379.0	2380.3	1.0	1.2	96.8	1.0	2.7	2.9	0.920	1.0
	2380.3	2381.6	0.9	1.4	97.2	0.5	2.3	3.4	0.920	1.0
	2381.6	2382.8	0.9	2.1	96.1	0.9	2.4	5.0	0.920	1.0
	2382.8	2384.0	2.5	1.5	95.5	0.5	6.7	3.6	0.884	1.0
	2384.0	2385.0	4.7	2.1	91.5	1.7	12.5	5.0	0.902	1.0
	2385.0	2386.0	4.9	3.3	90.9	0.9	13.2	7.9	0.897	1.0
	2386.0	2387.0	6.0	2.8	89.9	1.3	15.9	6.7	0.908	1.0
	2387.0	2388.0	6.4	2.8	89.2	1.6	16.6	6.7	0.917	1.0
	2388.0	2389.0	5.1	2.6	91.0	1.3	13.3	6.2	0.918	1.0
	2389.0	2390.1	6.1	2.4	90.0	1.5	16.1	5.8	0.913	1.0
	2390.1	2391.2	6.4	2.8	88.8	2.0	16.6	6.7	0.917	1.0
	2391.2	2392.3	3.1	2.6	91.7	2.6	8.2	6.2	0.909	1.0
	2392.3	2393.4	5.1	2.9	90.4	1.6	13.4	7.0	0.917	1.0
	2393.4	2394.5	2.0	1.9	95.8	0.3	5.1	4.6	0.920	1.0

SCALES - G. DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

ELEMENT=OIL GPT
AVER YIELD=10.00

USGS C62 1N 97W 36

THE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 10.0
WITH A MINIMUM AVERAGE OF 5.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START-DEPTH			END-DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
7	513.3	514.5	11	517.6	518.6	10.02	5.1	4.1
44	575.1	576.4	53	580.9	582.0	9.90	6.6	5.2
62	604.2	605.3	64	606.4	607.5	10.83	3.3	2.8
77	621.4	623.1	81	627.3	629.0	10.66	7.6	6.4
84	632.9	633.9	93	644.2	645.9	9.97	13.0	10.3
121	677.4	678.0	122	679.0	680.0	10.14	2.6	2.1
127	690.7	691.7	127	690.7	691.7	12.10	1.0	1.0
153	743.8	744.6	157	747.9	748.9	14.91	5.1	5.8
171	766.8	767.9	171	766.8	767.9	13.80	1.1	1.2
185	779.0	780.4	360	991.0	1002.0	21.12	223.0	334.3
369	1014.8	1016.0	1466	2336.0	2337.0	17.91	1322.2	1733.6
1517	2366.9	2367.9	1541	2393.4	2394.5	10.06	27.7	21.9
						TOTAL	1618.3	2128.7

/SAL1 DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

ELEMENT=OIL GPT
AVER YIELD=15.00

USGS CR2 1N 97W 36

ATA BELOW IS COMPUTED FOR AN AVERAGE OF 15.0
WITH A MINIMUM AVERAGE OF 10.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

	START-DEPTH TOP (FT)	START-DEPTH BTM (FT)	OBS NO	END-DEPTH TOP (FT)	END-DEPTH BTM (FT)	AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
1	636.9	637.9	87	636.9	637.9	17.20	1.0	1.3
1	744.6	745.8	155	745.8	746.9	15.11	2.3	2.7
1	746.9	747.9	157	747.9	748.9	15.85	2.0	2.4
1	781.0	782.0	311	919.1	923.0	25.03	142.0	249.5
1	930.9	932.0	351	979.5	980.5	19.99	49.6	72.5
2	1014.9	1015.0	475	1138.4	1139.5	22.33	124.7	199.1
3	1149.0	1150.0	518	1185.1	1186.1	18.61	38.1	52.0
5	1203.0	1204.0	524	1297.0	1298.3	18.13	95.3	126.9
3	1409.9	1411.1	891	1653.0	1654.0	20.77	244.1	365.2
8	1666.0	1667.0	1258	2057.1	2058.4	21.55	392.4	609.6
3	2092.9	2094.0	1294	2098.2	2099.2	15.18	6.3	7.4
9	2115.1	2116.4	1404	2229.0	2230.0	17.82	114.7	151.9
0	2236.0	2247.0	1434	2263.0	2264.0	15.73	18.0	21.2
5	2296.9	2300.0	1457	2301.0	2307.0	20.72	3.1	4.7
9	2306.1	2307.2	1481	2330.0	2331.2	15.85	25.1	30.1
7	2366.9	2367.9	1519	2369.0	2370.0	15.28	3.2	3.8
4	2374.1	2375.3	1524	2374.1	2375.3	15.30	1.2	1.4
2	2384.0	2385.0	1538	2390.1	2391.2	14.93	7.2	8.3
						TOTAL	1270.3	1908.8

SHALE/S NE DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

ELEMENT=OIL GPT
AVER YIELD=20.00

USGS CR2 IN 97W 36

THE DATA ABLE IS COMPUTED FOR AN AVERAGE OF 20.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START-DEPTH			END-DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
187	785.3	786.0	212	810.3	811.4	20.26	28.4	42.1
224	822.7	823.9	310	918.1	919.1	29.01	96.4	191.8
325	938.4	939.6	350	978.3	979.5	21.52	41.1	64.2
369	1018.8	1019.0	386	1033.3	1034.3	26.14	19.5	35.4
396	1049.0	1050.0	474	1137.2	1138.4	23.05	89.4	147.0
483	1148.0	1150.0	483	1148.0	1149.0	20.90	1.0	1.5
486	1151.0	1152.0	514	1180.9	1181.9	19.98	30.9	44.9
535	1218.0	1218.0	535	1218.0	1219.0	21.51	16.0	25.0
563	1232.0	1233.0	590	1260.0	1261.2	24.14	29.2	49.6
607	1278.0	1279.0	609	1279.0	1280.0	33.40	2.0	4.5
701	1412.7	1414.4	719	1434.3	1435.3	23.04	22.6	37.0
727	1443.4	1444.6	874	1633.5	1634.5	21.81	191.1	296.5
889	1651.0	1652.0	889	1651.0	1652.0	20.70	1.0	1.5
919	1681.4	1682.5	1073	1862.5	1863.5	24.93	182.5	322.5
1101	1892.0	1893.0	1176	1969.0	1970.0	22.32	78.0	125.4
1203	1994.0	1995.0	1227	2024.0	2025.0	22.14	29.0	46.7
1239	2036.0	2037.0	1257	2056.6	2057.1	24.76	21.1	36.7
1318	2131.5	2132.6	1315	2133.8	2135.0	20.66	3.5	5.3
1325	2144.4	2145.5	1330	2149.7	2150.7	26.96	6.3	12.0
1341	2161.0	2162.0	1357	2179.3	2180.3	22.21	19.3	31.1
1371	2195.0	2196.0	1395	2220.0	2221.0	21.36	26.0	40.3
1420	2246.0	2247.0	1425	2251.0	2252.0	24.22	6.0	10.4
1455	2299.9	2300.0	1457	2301.0	2302.0	20.72	3.1	4.7
1469	2316.5	2317.5	1472	2319.5	2320.9	22.10	4.4	7.1
1477	2326.0	2327.0	1481	2330.0	2331.2	20.45	5.2	7.8
						TOTAL	953.0	1593.1

SALI ...A ANALYSIS - U S G S(03/23/75) DATE 7/29/75

ELEMENT=OIL GPT
AVER YIELD=25.00

USGS CR2 1N 97W 36

.TA SHELDON IS COMPUTED FOR AN AVERAGE OF 25.0
.ITH A MINIMUM AVERAGE OF 15.0
'VER A "AXIMUM" DISTANCE OF 10.0 FT.

A P T - D E P T H		F N D - D E P T H			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
784.0	785.0	189	785.0	786.0	25.20	2.0	3.6
794.2	795.9	206	804.0	805.0	25.01	10.9	19.2
822.7	823.9	310	918.1	919.1	29.01	96.4	191.8
939.4	939.6	326	939.6	941.0	28.75	2.6	5.1
944.7	945.8	343	961.4	962.6	25.10	17.9	32.0
1014.8	1016.0	361	1029.0	1029.0	29.75	14.2	28.8
1048.0	1050.0	408	1066.5	1067.7	25.56	18.7	33.8
1074.2	1075.2	415	1074.2	1075.2	26.10	1.0	1.9
1078.5	1079.5	434	1094.1	1095.1	25.91	16.6	30.4
1100.4	1101.4	474	1137.2	1138.4	25.33	38.0	66.1
1152.0	1153.1	490	1155.3	1156.3	25.09	4.3	7.7
1159.7	1161.0	495	1161.0	1162.0	25.21	2.3	4.1
1167.0	1168.0	509	1175.5	1176.6	25.82	9.6	17.5
1204.0	1205.2	537	1205.2	1206.2	25.05	2.2	4.0
1209.8	1210.8	546	1216.0	1217.0	25.09	7.2	12.9
1232.0	1233.0	583	1252.5	1253.5	28.47	21.5	42.4
1278.0	1279.0	608	1279.0	1280.0	33.40	2.0	4.5
1420.0	1421.0	718	1434.3	1435.3	27.51	15.3	29.4
1443.4	1444.6	727	1443.4	1444.6	26.80	1.2	2.3
1450.2	1451.2	734	1456.0	1457.3	25.02	7.1	12.7
1458.6	1459.9	736	1458.6	1459.9	26.10	1.3	2.4
1458.6	1459.7	748	1471.7	1472.7	26.31	4.1	7.7
1477.1	1478.1	771	1497.0	1498.0	24.92	20.9	37.3
1510.1	1511.1	800	1534.0	1535.0	25.11	24.9	42.9
1551.0	1552.0	812	1552.0	1553.2	24.98	2.2	3.9
1557.0	1558.0	816	1557.0	1558.0	27.30	1.0	1.9
1567.0	1569.0	842	1585.3	1586.3	25.31	19.3	34.1
1594.0	1595.0	873	1632.0	1633.5	25.06	39.5	69.1
1684.0	1684.2	1073	1862.5	1863.5	25.04	179.5	318.4
1900.0	1901.0	1112	1903.7	1904.7	26.07	4.7	8.6
1908.0	1909.0	1129	1921.0	1922.0	25.15	14.0	24.9
1935.8	1936.8	1176	1969.0	1970.0	25.08	34.2	60.9
2002.0	2003.2	1218	2014.0	2015.2	24.97	13.2	23.6
2022.0	2023.0	1227	2024.0	2025.0	26.77	3.0	5.6
2036.0	2037.0	1256	2054.6	2055.6	25.33	19.6	34.7
2144.4	2145.5	1330	2149.7	2150.7	26.96	6.3	12.0
2168.7	2169.9	1357	2179.3	2180.3	25.64	11.6	21.1
2202.2	2203.2	1393	2218.0	2219.0	24.92	16.8	29.8
2246.0	2247.0	1424	2250.0	2251.0	25.44	5.0	9.0
2300.0	2301.0	1456	2300.0	2301.0	27.80	1.0	2.0

SHALE/ST . - DATA ANALYSIS - U S G S(03/23/75)   DATE 7/29/75

ELEMENT-OIL GPT
AVER YIELD=25.00

USGS CH2   1N 97W 36

THE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 25.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

S T A R T - D E P T H			E N D - D E P T H			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
1470	2317.5	2318.5	1470	2317.5	2318.5	26.70	1.0	2.0
						TOTAL	714.0	1304.0

LE/S[illegible] DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

ELEMENT=OIL GPT
AVER YIELD=30.00

USGS CP2 1N 97W 36

DATA BELOW IS COMPUTED FOR AN AVERAGE OF 30.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH OBS NO	START - DEPTH TOP (FT)	START - DEPTH BTM (FT)	END - DEPTH OBS NO	END - DEPTH TOP (FT)	END - DEPTH BTM (FT)	AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
89	795.0	796.0	189	795.0	796.0	31.60	1.0	2.2
07	799.1	800.2	204	801.4	802.7	30.06	3.6	7.5
21	822.7	823.9	301	909.0	910.0	29.98	87.3	178.5
25	938.4	939.6	325	938.4	939.6	32.10	1.2	3.1
31	945.9	947.1	334	950.1	951.0	30.43	5.2	10.8
[illegible]	1014.9	1016.0	390	1027.0	1028.0	30.69	13.2	27.5
[illegible]	1056.7	1057.5	406	1059.4	1065.0	30.61	8.8	18.4
26	1089.3	1067.0	433	1093.1	1094.1	30.21	8.8	18.3
41	1101.4	1102.5	482	1102.5	1103.8	31.26	2.4	5.2
48	1109.0	1110.0	449	1109.0	1110.0	32.00	1.0	2.2
57	1118.0	1118.7	459	1121.0	1122.3	30.16	4.3	9.0
53	1126.0	1127.0	473	1136.1	1137.2	30.23	11.2	23.2
01	1167.0	1169.0	503	1169.0	1170.0	32.67	3.0	6.6
05	1171.0	1172.0	506	1172.0	1173.3	30.46	2.3	4.8
60	1209.8	1210.8	511	1210.8	1212.0	29.93	2.2	4.6
85	1234.0	1235.0	571	1242.0	1243.0	30.19	9.0	18.6
76	1245.0	1246.0	583	1252.5	1253.5	31.24	8.5	18.2
07	1278.0	1279.0	608	1279.0	1280.0	33.40	2.0	4.5
96	1420.0	1421.0	711	1426.1	1427.1	30.55	7.1	14.9
17	1433.0	1434.3	718	1434.3	1435.3	32.07	2.3	5.0
54	1478.1	1479.4	757	1481.6	1482.6	30.43	4.5	9.5
45	1514.4	1515.6	795	1528.3	1529.5	30.21	15.1	30.1
29	1570.8	1572.5	840	1583.3	1584.3	30.32	13.5	28.1
58	1605.0	1606.0	864	1611.2	1612.3	30.54	7.3	14.8
58	1616.5	1617.6	873	1632.0	1633.5	30.47	16.9	35.3
78	1751.4	1752.4	933	1776.9	1778.0	29.95	26.6	55.0
00	1794.0	1795.0	1023	1808.0	1809.0	30.23	25.0	51.8
31	1816.0	1817.3	1031	1816.0	1817.3	32.40	1.3	2.9
42	1827.8	1829.4	1042	1827.8	1829.4	30.50	1.6	3.4
47	1834.0	1835.0	1054	1841.0	1842.1	30.55	8.1	17.1
58	1845.4	1846.6	1073	1862.5	1863.5	30.47	18.1	37.5
11	1902.3	1903.7	1112	1903.7	1904.7	31.61	2.4	5.2
21	1913.0	1914.0	1127	1919.0	1920.0	30.20	7.0	14.6
55	1947.8	1918.0	1157	1959.5	1960.5	30.15	12.7	26.3
70	1962.5	1963.6	1171	1963.6	1964.8	30.25	2.3	4.8
26	2023.0	2024.0	1227	2024.0	2025.0	30.70	2.0	4.2
39	2036.0	2037.0	1245	2042.1	2043.2	30.36	7.2	14.9
53	2050.8	2051.8	1257	2055.6	2057.1	29.93	6.3	12.9
26	2145.5	2146.5	1329	2147.5	2148.5	29.90	3.0	6.2
53	2174.9	2176.0	1354	2176.0	2177.0	31.04	2.1	4.5

SHALE/S[illegible] DATA ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

ELEMENT=OIL GPT
AVER YIELD=30.00

USGS C-2 1N 97W 36

THE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 30.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START-DEPTH	END-DEPTH	AVERAGE GALLONS	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
			5.1	10.5
			2.0	4.3
			374.5	777.0

ALE/[illegible] INE DATA ANALYSIS - U S G S(03/23/75) DATE 7/29/75

ELEMENT-OIL GPT
AVER YIELD=35.00

USGS CP2 1N 97W 36

E DATA BELOW IS COMPUTED FOR AN AVERAGE OF 35.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
OBS NO	TOP (FT)	BTM (FT)	OBS NO	TOP (FT)	BTM (FT)			
202	799.1	800.2	202	799.1	800.2	36.40	1.1	2.7
225	823.9	825.0	225	823.9	825.0	36.30	1.1	2.7
239	841.0	842.0	270	873.5	874.6	35.04	33.6	77.9
283	890.2	891.4	283	890.2	891.4	35.00	1.2	2.8
288	894.5	895.5	301	909.0	910.0	34.97	15.5	36.3
325	938.4	939.6	325	938.4	939.6	39.80	1.2	3.1
332	947.1	948.8	333	948.8	950.1	35.69	3.0	7.1
374	1021.0	1022.0	320	1027.0	1028.0	37.31	7.0	17.2
403	1056.2	1057.5	405	1058.6	1059.4	35.88	3.2	7.6
465	1128.0	1129.0	465	1128.0	1129.0	35.50	1.0	2.4
473	1136.1	1137.2	473	1136.1	1137.2	36.40	1.1	2.7
502	1168.0	1169.0	502	1168.0	1169.0	39.10	1.0	2.5
567	1236.0	1237.0	571	1240.0	1241.0	35.00	5.0	11.7
578	1247.0	1248.0	578	1247.0	1248.0	35.30	1.0	2.4
581	1250.0	1251.4	583	1252.5	1253.5	35.44	3.5	8.3
607	1278.0	1279.0	607	1278.0	1279.0	35.60	1.0	2.4
710	1425.2	1426.1	711	1426.1	1427.1	39.09	1.9	4.8
785	1514.4	1515.6	793	1524.0	1525.0	35.97	10.6	24.5
829	1570.8	1572.5	829	1570.8	1572.5	35.00	1.7	4.0
832	1574.5	1575.7	833	1575.7	1576.8	35.14	2.3	5.4
835	1578.0	1579.2	836	1579.2	1580.2	37.51	2.2	5.4
856	1605.0	1606.0	863	1610.0	1611.2	35.10	6.2	14.3
869	1617.6	1618.6	869	1617.6	1618.6	39.70	1.0	2.6
873	1632.0	1633.5	873	1632.0	1633.5	41.30	1.5	4.0
982	1755.6	1756.7	982	1755.6	1756.7	35.10	1.1	2.6
992	1775.7	1776.9	992	1775.7	1776.9	36.10	1.2	2.9
000	1784.0	1785.0	1006	1790.0	1791.0	35.17	7.0	16.3
014	1798.1	1799.2	1015	1799.2	1800.2	35.41	2.1	4.9
062	1849.7	1850.7	1062	1849.7	1850.7	35.10	1.0	2.4
069	1857.3	1858.5	1073	1862.5	1863.5	36.40	6.2	14.7
111	1902.3	1903.7	1111	1902.3	1903.7	35.40	1.4	3.3
122	1914.0	1915.0	1122	1914.0	1915.0	36.40	1.0	2.4
158	1950.0	1951.0	1158	1950.0	1951.0	35.90	1.0	2.4
160	1952.0	1953.0	1164	1956.5	1957.5	35.09	5.5	12.9
239	2036.0	2037.0	1242	2039.0	2040.0	37.50	4.0	9.9
254	2051.8	2053.2	1256	2054.6	2055.6	35.63	3.8	9.0
327	2146.5	2147.5	1327	2146.5	2147.5	35.00	1.0	2.3
380	2204.2	2205.2	1391	2205.2	2206.2	36.05	2.0	4.8
						TOTAL	146.2	345.5

SHALE/SEAM THICKNESS ANALYSIS - U S G S(03/23/75)

DATE 7/29/75

ELEMENT=OIL GPT
AVER YIELD=40.00

USGS CR2 IN 97N 36

THE DATA BELOW IS COMPUTED FOR AN AVERAGE OF 40.0
WITH A MINIMUM AVERAGE OF 15.0
OVER A MAXIMUM DISTANCE OF 10.0 FT.

START - DEPTH			END - DEPTH			AVERAGE GALLONS PER TON	TOTAL INTERVAL IN FEET	BARRELS PER ACRE (THOUSAND)
DRILL HOLE NO	TOP (FT)	BTM (FT)	DRILL HOLE NO	TOP (FT)	BTM (FT)			
239	841.0	842.0	247	849.0	850.0	41.23	9.0	23.7
251	853.0	855.0	254	856.0	857.0	41.58	4.0	10.7
259	861.9	863.0	264	867.0	868.0	39.97	6.1	15.7
270	873.5	874.6	270	873.5	874.6	43.80	1.1	3.1
289	895.5	896.8	289	895.5	896.8	40.20	1.3	3.4
295	902.0	903.0	297	904.0	905.3	40.35	3.3	8.6
374	1021.0	1022.0	378	1025.0	1026.0	40.64	5.0	13.1
404	1057.5	1058.6	405	1058.6	1059.4	42.78	1.9	5.2
569	1238.0	1239.0	570	1239.0	1240.0	41.10	2.0	5.3
711	1426.1	1427.1	711	1426.1	1427.1	43.40	1.0	2.8
788	1517.7	1518.8	793	1524.0	1525.0	40.59	7.3	18.5
860	1607.0	1608.0	863	1610.0	1611.2	40.37	4.2	10.9
873	1632.0	1633.5	873	1632.0	1633.5	41.30	1.5	4.0
1001	1785.0	1786.0	1004	1789.0	1789.0	40.15	4.0	10.4
1015	1799.2	1800.2	1015	1799.2	1800.2	45.00	1.0	2.8
1070	1858.6	1859.7	1072	1860.8	1862.5	43.22	3.9	10.6
1240	2037.0	2038.0	1240	2037.0	2038.0	40.40	1.0	2.6
1242	2039.0	2040.0	1242	2039.0	2040.0	41.80	1.0	2.7
1381	2205.2	2206.2	1381	2205.2	2206.2	41.80	1.0	2.7
						TOTAL	59.6	156.7