

ANADARKO
CORNELL UNIVERSITY PROJECT
MORTON COUNTY, KANSAS
CL FILE NO. 57151-17847
FINAL REPORT



**CORE
LABORATORIES**

Core Laboratories

**ANADARKO
CORNELL UNIVERSITY PROJECT
MORTON COUNTY, KANSAS
CL FILE NO. 57151-17847
FINAL REPORT**



Core Laboratories

June 28, 1994

Anadarko
17001 Northchase Drive
Houston, Texas 77060

Western Atlas
International
5295 Hollister Road
Houston, Texas
77040
Tel 713-460-9600
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Attn: Mr. Ray Sorenson

Re: Core Analysis Report
Cornell University Project
Morton County, Kansas
CL File No. 57151-17847

Dear Mr. Sorenson:

Nine conventional cores were obtained on the referenced well. The cores were transported to Core Laboratories' Hollister Road facility in Houston, Texas, where they were unpacked and inventoried. Analysis was then performed by Core Laboratories personnel as directed by Anadarko representatives.

The following documentation includes: procedures for sample preparation and analysis; a list of Houston Laboratory personnel involved in this project; and the resultant data reported in tabular format. The type of equipment used in each procedure is also specified.

Core remnants are currently stored at our Hollister Road facility in Houston. Please let us know where to ship them for permanent storage. We will store the samples for a period of six months, after which time they will be disposed.

We appreciate this opportunity to be of service. If we can be of further assistance, please do not hesitate to call.

Very truly yours,

CORE LABORATORIES

A handwritten signature in cursive script that reads "Michael R. Long".

Michael R. Long
Laboratory Supervisor

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SAMPLE PREPARATION

CORE INVENTORY: Upon arrival at the laboratory, the nine cores were unboxed and inventoried :

Core Number 1	2310.0 - 2339.0 ft
Core Number 2	2339.0 - 2361.0 ft
Core Number 3	2361.0 - 2382.0 ft
Core Number 4	2382.0 - 2395.0 ft
Core Number 5	2395.0 - 2412.5 ft
Core Number 6	2312.5 - 2344.0 ft
Core Number 7	2344.0 - 2506.0 ft
Core Number 8	2506.0 - 2547.0 ft
Core Number 9	2547.0 - 2581.2 ft

TOTAL CORE GAMMA: The natural total gamma radiation count of the core was recorded as a function of depth. The instrument was calibrated against API standards and adjusted for background radiation.

PLUG DRILLING and TRIMMING: One and one half inch diameter plugs were drilled at points selected by Anadarko representatives. The plugs were faced with a diamond facing tool to provide right circular cylinders. These plugs were drilled and clipped using tap water as the drilling and trimming lubricant/coolant. Trimmed ends were catalogued and boxed for delivery to Reservoirs, Inc.

PLUG CLEANING: Samples were leached of salts by one of three procedures. The procedure used for each sample was selected based on sample lithology and friability. Methanol was used as the leaching solvent for all the sample types.

- A. Sand and carbonate samples were extracted of salts in a hot soxhlet extractor. Extraction was continued until a test of the returning solvent with AgNO_3 solution yielded no precipitate. Samples were dried in a convection oven at 240 degrees F. until weight stabilization was achieved.
- B. Samples with high shale content were extracted of salts in a cool soxhlet extractor. Extraction was continued until a test of the returning solvent with AgNO_3 solution yielded no precipitate. Plugs were dried in a humidity oven at 140 degrees F. and 40% relative humidity until weight stabilization was achieved.
- C. Friable sand and shale samples were mounted in lead sleeves with 60/120 mesh screens on each end. Samples were extracted of salts in a cool soxhlet extractor. Extraction was continued until a test of the returning solvent with AgNO_3 solution yielded no precipitate. Plugs were dried in a humidity oven at 140 degrees F. and 40% relative humidity until weight stabilization was achieved.

PETROPHYSICAL MEASUREMENTS

GRAIN VOLUME: Direct grain volume measurements were made using a small volume porosimeter. This instrument utilizes the principle of gas expansion as described by Boyle's Law. Helium was used as the test gas. The instrument was calibrated daily and test standards were run.

GRAIN DENSITY: Calculated grain densities were obtained utilizing direct grain volume measurement and sample weight. Grain densities were checked against lithology standards.

PLUG DIMENSIONS: Sample length and diameter were measured using digital metric calipers.

CMS-300 OPERATIONS:

- A. **PERMEABILITY "k":** Horizontal permeabilities were measured by flowing helium from a reference cell through the core. The reference cell combination used for each sample was determined during a pre-measurement flow through test. The cells available are approximately 2, 9, 56, and 315 cm³ in size. The actual size of each cell is calculated during calibration procedures. The downstream end of the core was maintained at atmospheric pressure. The upstream pressure decline was monitored in real time and the results were recorded digitally. The difference between the confining stress and the mean pore pressure during flow defined the net confining stress. The net confining stress used for this project was 800 psig.
 - a) **K-air:** Permeability to air at 800 psig net confining stress calculated from time/pressure data.
 - b) **K-Klinkenberg:** Unsteady-state equations used with time/pressure data to calculate the Klinkenberg slip corrected permeability at 800 psig net confining stress.
- B. **POROSITY:** Pore volume was determined by expansion of helium into the core sample from a known volume source at approximately 240 psig. At pressure equilibrium, Boyle's Law was used to compute pore volume. Porosity was then calculated by using the pore volume from the CMS-300 and the grain volume from the small volume porosimeter.

AMBIENT MEASUREMENTS

AMBIENT POROSITY: Porosities for samples whose permeability was less than .001 mD and samples that were unsuitable for CMS-300 measurements were determined using the DEB unit. This device uses Archimedes' principle of buoyancy to determine bulk volume. A container of mercury is placed on a calibrated digital scale. The temperature of the mercury is measured so that the mercury density can be determined. The sample holder is positioned at a reference point and the scale is zeroed. The sample is then submerged in the mercury to the same reference point. The submerged sample weight is divided by the density of the mercury to yield the bulk volume. Porosities were calculated using the bulk volume from the DEB and the grain volume from the small volume porosimeter.

DESCRIPTION: Each sample interval was described in general, noting lithology, texture, grain size, color, visible mineral constituents, and degree of reactivity to 10% HCL.

CORE SLABBING: An automatic slab saw was used to cut the cores vertically into 1/3 - 2/3 sections. Water was used as the blade coolant/lubricant.

CORE PHOTOGRAPHY: The 1/3 section of the slabbled core was photographed under white light conditions. A "box" format, which displays an entire slab box in an 8 x 10 photo, was used. The completed photographs were delivered to Mr. Warren Winters of Anadarko Petroleum.



CORE LABORATORIES

CORE ANALYSIS REPORT
FOR
ANADARKO
Cornell University Project

Morton County, Kansas

CORE LABORATORIES

Company : ANADARKO
 Well : Cornell University Project
 Field :
 County : Morton County, Kansas

CL File No : 57151-17847

Date : 28-Feb-94

Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
1	2310.1	800	11.7F	12.1F	9.3	Cool Mounted	2.65	Shale red
2	2311.2				11.9	Cool not Mounted	2.68	Shale gry
3	2311.9	800	10.5F	11.6F	9.6	Cool Mounted	2.72	Sltst gry calc
4	2312.2	800	9.7F	10.9F	10.9	Cool Mounted	2.77	Sltst gry calc
5	2312.4	800	10.6F	11.8F	10.5	Cool Mounted	2.63	Shale red
6	2313.2	800	12.2F	13.5F	11.7	Cool Mounted	2.80	Shale red calc
7	2313.7	800	23.4F	26.7F	17.7	Cool Mounted	2.82	Sltst gry calc
8	2314.4	800	12.5F	12.7F	7.8	Cool Mounted	2.66	Sst gry vf gr slty calc
9	2314.8	800	0.134	0.225	11.5	Hot not Mounted	2.72	Sst lt gry vf gr slty lam calc
10	2315.2	800	0.072	0.132	11.8	Hot not Mounted	2.74	Sst lt gry vf gr slty lam calc
11	2315.8	800	0.228	0.369	15.1	Hot not Mounted	2.77	Ls lt gry microxln chky
12	2316.1	800	0.030	0.054	15.0	Hot not Mounted	2.81	Dol lt gry microxln
13	2316.4	800	0.026	0.064	14.8	Hot not Mounted	2.81	Dol lt gry microxln
14	2318.3	800	37.9F	44.1F	8.6	Cool Mounted	2.76	Ls rd gry microxln
15	2318.6	800	30.0F	34.3F	7.8	Cool Mounted	2.74	Ls gry microxln
16	2319.3	800	8.80	9.842	9.8	Cool Mounted	2.76	Ls rd gry microxln sh
17	2319.8	800	0.004	0.009	10.0	Hot not Mounted	2.68	Sltst gry sh calc
18	2320.4	800	31.4F	34.2F	19.4	Cool Mounted	2.66	Sst gry vf gr sh
19	2320.9	800	1.95	2.454	15.7	Hot not Mounted	2.69	Sst gry vf gr slty calc
20	2321.3	800	0.872	1.122	13.5	Hot not Mounted	2.75	Ls gry vf gr lam calc
21	2321.6	800	9.03	10.588	16.3	Hot not Mounted	2.71	Sst gry vf gr slty calc
22	2322.2	800	7.21	8.299	12.8	Hot not Mounted	2.71	Sst gry vf gr slty calc
23	2322.7	800	3.83	4.638	14.1	Hot not Mounted	2.71	Sst gry vf gr slty lam calc
24	2323.3	800	1.83	1.923	12.9	Hot not Mounted	2.77	Ls gry microxln lam calc
25	2323.7	800	1.11	1.416	13.9	Hot not Mounted	2.68	Sst gry vf gr lam calc

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26	2324.2	800	2.65	3.183	16.7	Hot not Mounted	2.68	Sst gry vf gr slty lam
27	2324.8	800	1.69	2.050	16.4	Hot not Mounted	2.67	Sst gry vf gr slty lam
28	2325.3	800	2.80	3.494	17.2	Hot not Mounted	2.67	Sst gry vf gr slty lam
29	2325.8	800	0.302	0.424	12.1	Hot not Mounted	2.73	Sst gry vf gr slty lam calc
30	2326.1	800	0.287	0.369	12.1	Hot not Mounted	2.73	Sst gry vf gr slty lam calc
31	2326.2	800	0.021	0.035	9.8	Hot not Mounted	2.72	Sst gry vf gr sh lam
32	2327.2	800	43.7F	44.9F	13.5	Cool Mounted	2.67	Sst rd gry vf gr sh lam
33	2327.8	800	0.007	0.011	7.9	Hot not Mounted	2.64	Sst rd gry vf gr sh lam
34	2328.2	800	0.107	0.119	9.9	Hot not Mounted	2.74	Sst rd gry vf gr sh lam
35	2328.8	800	0.169	0.284	15.2	Hot not Mounted	2.78	Ls gry microxln sh lam
36	2329.1	800	0.022	0.053	13.4	Hot not Mounted	2.78	Ls gry microxln sh lam
37	2329.7	800	0.026	0.056	11.1	Hot not Mounted	2.74	Ls gry microxln sh lam
38	2330.2	800	0.178	0.241	12.7	Hot not Mounted	2.74	Sst gry vf gr sh lam calc
39	2330.4	800	0.277	0.364	12.3	Hot not Mounted	2.74	Sst gry vf gr sh lam calc
40	2331.3	800	1.46	1.790	14.0	Hot not Mounted	2.73	Sst gry vf gr sh lam calc
41	2331.8	800	15.6F	16.2F	13.6	Cool Mounted	2.68	Sst gry vf gr sh lam slily calc
42	2332.1	800	3.05	3.840	17.2	Hot not Mounted	2.69	Sst gry vf gr sh lam calc
43	2332.8	800	5.67	6.213	10.7	Cool Mounted	2.75	Ls dk gry microxln sh
44	2333.4	800	0.051	0.103	15.1	Hot not Mounted	2.79	Dol gry microxln bioturb
45	2333.7	800	4.378	4.900	17.9	Hot not Mounted	2.80	Dol gry microxln
46	2334.2	800	0.439	0.553	16.3	Hot not Mounted	2.81	Dol gry vfxln
47	2334.8	800	0.298	0.449	13.3	Hot not Mounted	2.76	Ls gry microxln calcite incl
48	2335.2	800	0.672	0.947	14.5	Hot not Mounted	2.74	Ls gry microxln bioturb
49	2335.8	800	0.181	0.291	14.3	Hot not Mounted	2.75	Ls gry microxln lam
50	2336.3	800	0.850	1.203	16.7	Hot not Mounted	2.78	Ls gry microxln

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51	2336.8	800	15.4F	16.0F	12.4	Cool Mounted	2.73	Sst gry vf gr slty lam
52	2337.3	800	26.2F	26.4F	15.2	Cool Mounted	2.69	Sst gry vf gr slty lam
53	2337.8	800	1.47	1.856	17.3	Hot not Mounted	2.69	Sst gry vf gr slty lam
54	2339.4	800	0.031	0.055	12.6	Hot not Mounted	2.78	Ls gry microxln sh
55	2339.8	800	0.086	0.159	15.3	Hot not Mounted	2.79	Ls gry microxln sh
56	2340.3	800	0.700	1.023	17.1	Hot not Mounted	2.81	Dol gry vfxln
57	2340.8	800	0.441	0.679	16.8	Hot not Mounted	2.83	Dol gry vfxln
58	2341.1	800	0.868	1.213	16.9	Hot not Mounted	2.84	Dol gry microxln foss
59	2341.7	800	0.770	1.072	14.5	Hot not Mounted	2.85	Dol gry microxln foss
60	2342.3	800	1.27	1.667	14.4	Hot not Mounted	2.85	Dol gry microxln foss
61	2342.8	800	0.915	1.219	13.2	Hot not Mounted	2.84	Dol gry microxln foss
62	2343.2	800	1.45	1.954	16.9	Hot not Mounted	2.83	Dol gry microxln foss
63	2343.9	800	0.716	0.982	12.3	Hot not Mounted	2.84	Dol gry microxln foss
64	2344.2	800	1.91	2.502	16.6	Hot not Mounted	2.81	Dol gry microxln foss
65	2344.7	800	1.06	1.400	13.6	Hot not Mounted	2.84	Dol gry microxln foss
66	2345.3	800	1.00	1.342	14.1	Hot not Mounted	2.84	Dol gry microxln foss
67	2345.7	800	1.03	1.389	14.9	Hot not Mounted	2.83	Dol gry microxln foss
68	2346.3	800	1.65	2.108	14.3	Hot not Mounted	2.84	Dol gry microxln foss
69	2346.8	800	1.26	1.674	15.1	Hot not Mounted	2.83	Dol gry microxln foss
70	2347.3	800	0.356	0.523	13.8	Hot not Mounted	2.79	Dol gry microxln foss
71	2347.8	800	1.09	1.349	13.3	Hot not Mounted	2.72	Sst gry vf gr slily calc
72	2348.3	800	0.060	0.107	12.1	Hot not Mounted	2.73	Sst gry vf gr slily calc
73	2348.8	800	1.02	1.275	13.4	Hot not Mounted	2.71	Sst gry vf gr slty calc
74	2349.3	800	0.125	0.200	13.8	Hot not Mounted	2.75	Ls gry vfxln
75	2349.7	800	0.986	1.217	14.4	Hot not Mounted	2.75	Ls gry vfxln

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
76	2350.2	800	0.107	0.183	14.3	Hot not Mounted	2.77	Ls gry vfxln
77	2350.7	800	0.169	0.280	15.2	Hot not Mounted	2.78	Ls gry vfxln
78	2351.8	800	0.097	0.171	14.4	Hot not Mounted	2.77	Ls gry vfxln
79	2351.8	800	0.207	0.321	14.6	Hot not Mounted	2.79	Ls gry vfxln
80	2352.3	800	0.085	0.154	13.1	Hot not Mounted	2.79	Ls gry vfxln
81	2352.7	800	0.046	0.091	10.0	Hot not Mounted	2.77	Ls gry microxln foss
82	2353.2	800	0.015	0.037	10.9	Hot not Mounted	2.78	Ls gry microxln foss
83	2353.7	800	0.376	0.456	12.2	Hot not Mounted	2.79	Ls gry microxln foss
84	2354.3	800	0.046	0.095	11.0	Hot not Mounted	2.78	Ls gry microxln foss
85	2354.8	800	0.457	0.595	11.4	Hot not Mounted	2.78	Ls gry microxln foss
86	2355.3	800	0.118	0.205	10.5	Hot not Mounted	2.73	Ls gry microxln foss
87	2355.9	800	0.388	0.576	12.6	Hot not Mounted	2.71	Ls gry microxln foss
88	2356.3	800	0.409	0.613	12.8	Hot not Mounted	2.71	Ls gry microxln foss
89	2356.7	800	0.797	1.102	13.5	Hot not Mounted	2.71	Ls gry microxln foss
90	2357.2	800	0.290	0.446	12.1	Hot not Mounted	2.73	Ls lt gry microxln foss
91	2357.7	800	0.561	0.810	13.3	Hot not Mounted	2.73	Ls lt gry microxln foss
92	2358.2	800	0.474	0.705	13.2	Hot not Mounted	2.73	Ls lt gry microxln foss
93	2358.9	800	1.55	2.002	13.1	Hot not Mounted	2.73	Ls lt gry microxln foss
94	2359.2	800	0.674	0.913	11.3	Hot not Mounted	2.74	Ls lt gry microxln foss
95	2359.8	800	0.752	1.020	11.2	Hot not Mounted	2.73	Ls lt gry microxln foss
96	2360.2	800	0.061	0.114	9.4	Hot not Mounted	2.75	Ls lt gry microxln foss
97	2360.8	800	0.045	0.092	10.0	Hot not Mounted	2.76	Ls lt gry microxln foss
98	2361.3	800	0.104	0.185	11.1	Hot not Mounted	2.75	Ls lt gry microxln foss
99	2361.7	800	0.452	0.477	9.9	Hot not Mounted	2.74	Ls lt gry microxln foss
100	2362.1	800	11.1F	11.3F	7.7	Cool Mounted	2.61	Shale rd gry

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101	2362.4	800	15.1F	16.3F	8.0	Cool Mounted	2.66	Sst dk gry vf gr v sh calc
102	2363.5	800	0.012	0.029	11.4	Hot not Mounted	2.79	Sltst lt gr sh slily calc
103	2363.8	800	14.9F	16.0F	12.8	Cool Mounted	2.76	Sst gry vf gr v sh lam slily calc
104	2364.2	800	0.106	0.187	13.1	Hot not Mounted	2.75	Sltst gry sh slily calc
105	2364.6	800	0.522	0.745	14.7	Hot not Mounted	2.73	Sltst gry sh slily calc
106	2365.2	800	0.919	1.263	15.3	Hot not Mounted	2.72	Sst lt gry vf gr slty slily calc
107	2365.8	800	0.365	0.518	14.2	Hot not Mounted	2.72	Sst lt gry vf gr slty sh slily calc
108	2366.3	800	0.427	0.585	14.0	Hot not Mounted	2.73	Sst lt gry vf gr slty sh slily calc
109	2366.7	800	0.655	0.891	14.4	Hot not Mounted	2.71	Sst lt gry vf gr slty sh slily calc
110	2367.2	800	0.022	0.044	10.5	Hot not Mounted	2.70	Sst gry vf gr v sh lam slily calc
111	2367.7	800	49.2F	75.3F	11.7	Cool Mounted	2.75	Shale gry slty calc
112	2368.3	800	8.87F	9.13F	14.2	Cool Mounted	2.79	Shale rd slily calc
113	2368.6	800	5.74F	5.88F	13.1	Cool Mounted	2.80	Shale rd slily calc
114	2369.3	800	12.2F	13.6F	13.2	Cool Mounted	2.74	Shale rd slily calc
115	2369.8	800	9.96F	11.1F	12.6	Cool Mounted	2.76	Shale rd slily calc
116	2370.2	800	9.28F	10.4F	11.9	Cool Mounted	2.74	Shale rd slily calc
117	2370.6	800	7.06F	7.97F	10.4	Cool Mounted	2.69	Shale rd slily calc
118	2371.3	800	8.69F	9.78F	11.5	Cool Mounted	2.79	Shale rd slily calc
119	2371.7	800	10.9F	12.2F	13.8	Cool Mounted	2.77	Shale rd slily calc
120	2372.3	800	11.9F	13.2F	10.7	Cool Mounted	2.75	Shale rd slily calc
121	2372.7	800	16.3F	17.8F	9.7	Cool Mounted	2.71	Shale rd slily calc
122	2373.3	800	16.8F	18.2F	10.1	Cool Mounted	2.72	Shale rd slily calc
123	2373.7	800	19.7F	20.9F	10.0	Cool Mounted	2.72	Shale rd slily calc
124	2374.3	800	77.0F	101.7F	10.7	Cool Mounted	2.76	Shale rd slily calc
125	2374.7	800	14.0F	15.2F	8.5	Cool Mounted	2.70	Shale rd slily calc

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
126	2375.4				10.3	Cool Mounted	2.75	Shale rd slily calc
127	2375.9	800	15.4F	16.6F	7.1	Cool Mounted	2.70	Shale rd slily calc
128	2376.3	800	13.0F	14.1F	6.4	Cool Mounted	2.71	Shale rd slily calc
129	2376.7	800	24.8F	25.2F	8.2	Cool Mounted	2.72	Shale rd slily calc
130	2377.1	800	34.2F	37.2F	9.7	Cool Mounted	2.72	Shale rd slily calc
131	2377.4	800	35.3F	39.6F	10.8	Cool Mounted	2.73	Shale rd slily calc
132	2378.2				20.7	Cool Mounted	2.73	Shale rd slily calc
133	2378.4	800	16.7F	16.9F	7.1	Cool Mounted	2.72	Shale rd slily calc
134	2379.5	800	10.2F	10.3F	5.7	Cool Mounted	2.70	Shale rd slily calc
135	2379.8	800	21.0F	21.4F	6.2	Cool Mounted	2.69	Shale rd slily calc
136	2380.3	800	18.7F	19.1F	6.7	Cool Mounted	2.72	Shale rd slily calc
137	2380.7				3.1	Cool Mounted	2.73	Shale rd slily calc
138	2381.0	800	18.2F	18.6F	8.6	Cool Mounted	2.79	Shale rd slily calc
139	2381.5	800	8.56F	8.67F	5.5	Cool Mounted	2.71	Shale rd slily calc
140	2382.2				8.6	Cool Mounted	2.72	Shale rd slily calc
141	2382.9				8.7	Cool Mounted	2.70	Shale rd slily calc
142	2383.3	800	24.4F	26.2F	9.7	Cool Mounted	2.70	Shale rd slily calc
143	2383.7	800	23.1F	23.4F	12.3	Cool Mounted	2.72	Shale rd slily calc
144	2384.3	800	0.018	0.043	12.2	Hot not Mounted	2.72	Sst gry vf gr sh slily calc
145	2384.7	800	0.022	0.057	12.0	Hot not Mounted	2.73	Sst gry vf gr sh slily calc
146	2385.3	800	2.27	2.999	17.6	Hot not Mounted	2.70	Sst gry vf gr slty sh slily calc
147	2385.7	800	4.65	5.767	17.8	Hot not Mounted	2.69	Sst gry vf gr slty sh slily calc
148	2386.3	800	3.05	3.909	20.0	Hot not Mounted	2.65	Sst gry vf gr slty sh slily calc
149	2386.7	800	0.186	0.330	16.5	Hot not Mounted	2.66	Sst gry vf gr slty sh slily calc
150	2387.2	800	0.028	0.052	13.0	Hot not Mounted	2.73	Sst gry vf gr slty sh slily calc

CORE LABORATORIES

Company : ANADARKO
 Well : Cornell University Project
 Field :
 County : Morton County, Kansas

CL File No : 57151-17847
 Date : 28-Feb-94
 Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
151	2387.7	800	4.58	5.633	17.1	Hot not Mounted	2.71	Sst gry vf gr slty slily sh slily calc
152	2388.3	800	10.2	11.846	16.3	Hot not Mounted	2.71	Sst gry vf gr slty slily sh slily calc
153	2388.8	800	6.24	7.670	17.7	Hot not Mounted	2.69	Sst gry vf gr slty slily sh slily calc
154	2389.3	800	3.22	4.070	15.3	Hot not Mounted	2.69	Sst gry vf gr slty slily sh slily calc
155	2389.8	800	3.21	4.008	15.6	Hot not Mounted	2.70	Sst gry vf gr slty slily sh slily calc
156	2390.3	800	0.885	1.201	13.3	Hot not Mounted	2.69	Sst gry vf gr slty slily sh slily calc
157	2390.8	800	0.532	0.753	13.5	Hot not Mounted	2.69	Sst gry vf gr slty slily sh slily calc
158	2391.3	800	0.380	0.552	13.0	Hot not Mounted	2.69	Sst gry vf gr slty slily sh slily calc
159	2391.7	800	0.475	0.556	12.7	Hot not Mounted	2.69	Sst gry vf gr slty slily sh slily calc
160	2392.3	800	0.114	0.194	11.9	Hot not Mounted	2.71	Sst gry vf gr slty slily sh slily calc
161	2392.7	800	0.575	0.826	15.2	Hot not Mounted	2.68	Sst gry vf gr slty slily sh slily calc
162	2393.3	800	0.069	0.124	11.9	Hot not Mounted	2.76	Ls dk gry microxln foss
163	2393.8	800	14.9	17.597	18.3	Hot not Mounted	2.68	Sst gry vf gr slty slily sh calc
164	2394.3	800	17.1	20.244	19.9	Hot not Mounted	2.70	Sst gry vf gr slty slily sh calc
165	2394.7	800	1.55	2.058	17.5	Hot not Mounted	2.66	Sst gry vf gr slty sh
166	2395.4	800	0.518	0.749	13.6	Hot not Mounted	2.67	Sst gry vf gr slty sh lam foss
167	2395.8	800	0.817	1.120	14.2	Hot not Mounted	2.67	Sst gry vf gr slty sh lam foss
168	2396.3	800	1.29	1.665	13.0	Hot not Mounted	2.67	Sst gry vf gr slty sh foss
169	2396.7	800	0.007	0.014	5.8	Hot not Mounted	2.71	Sst gry vf gr slty sh lam foss
170	2397.3	800	0.004	0.008	5.5	Hot not Mounted	2.65	Sst gry vf gr slty sh lam foss
171	2397.8	800	0.025	0.029	5.8	Hot not Mounted	2.72	Ls gry microxln foss frags
172	2398.3	800	1.87	1.983	7.5	Hot not Mounted	2.72	Shale dk gry foss
173	2398.8	800	0.396	0.534	10.0	Hot not Mounted	2.73	Sst lt gry vf gr slty slily sh calc
174	2399.2	800	3.067	3.708	12.7	Hot not Mounted	2.72	Sst lt gry vf gr slty slily sh calc
175	2399.6	800	3.256	3.880	13.0	Hot not Mounted	2.73	Sst lt gry vf gr slty slily sh calc

CORE LABORATORIES

Company : ANADARKO
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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
176	2400.4	800	0.017	0.034	7.6	Hot not Mounted	2.80	Ls gry microxln lig foss frags
177	2400.8	800	0.186	0.284	11.2	Hot not Mounted	2.79	Ls gry microxln foss frags
178	2401.3	800	0.335	0.491	13.5	Hot not Mounted	2.77	Ls gry vfxkn p.p. vugs
179	2401.8	800	0.010	0.023	10.9	Hot not Mounted	2.68	Shale rd gry calc
180	2402.3	800	0.050	0.090	8.6	Hot not Mounted	2.72	Ls gry vfxln
181	2402.8	800	1.48	1.713	13.6	Hot not Mounted	2.84	Dol gry vfxln foss
182	2403.3	800	3.56	4.187	16.2	Hot not Mounted	2.83	Dol gry vfxln
183	2403.8	800	4.89	5.464	16.8	Hot not Mounted	2.85	Dol gry vfxln
184	2404.4	800	9.41	10.892	17.9	Hot not Mounted	2.83	Dol gry vfxln
185	2404.8	800	7.43	8.559	16.5	Hot not Mounted	2.84	Dol gry vfxln foss
186	2405.2	800	9.58	10.983	15.8	Hot not Mounted	2.84	Dol gry vfxln foss
187	2405.7	800	0.965	1.258	12.3	Hot not Mounted	2.83	Dol gry vfxln foss
188	2406.3	800	0.598	0.760	9.9	Hot not Mounted	2.86	Dol gry vfxln foss
189	2406.3	800	0.412	0.520	8.1	Hot not Mounted	2.87	Dol gry vfxln foss
190	2407.2	800	0.398	0.578	14.9	Hot not Mounted	2.83	Dol gry vfxln foss
191	2407.7	800	0.024	0.043	10.5	Hot not Mounted	2.77	Shale dk gry foss
192	2408.3	800	1.33	1.768	18.8	Hot not Mounted	2.77	Ls gry microxln
193	2408.7	800	1.39	1.954	20.1	Hot not Mounted	2.78	Ls gry microxln
194	2409.2	800	0.635	0.961	18.7	Hot not Mounted	2.75	Ls gry microxln
195	2409.7	800	0.591	0.851	16.7	Hot not Mounted	2.73	Sst dk gry vf gr sh
196	2410.3	800	0.294	0.459	15.7	Hot not Mounted	2.73	Sst dk gry vf gr sh
197	2410.6	800	0.364	0.561	16.3	Hot not Mounted	2.73	Sst dk gry vf gr sh
198	2411.2	800	0.040	0.089	14.7	Hot not Mounted	2.79	Ls gry microxln foss
199	2411.7	800	0.030	0.071	11.6	Hot not Mounted	2.79	Ls gry microxln foss
200	2412.3	800	0.014	0.032	9.0	Hot not Mounted	2.75	Ls gry microxln foss

CORE LABORATORIES

Company : **ANADARKO**
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 Field :
 County : **Morton County, Kansas**

CL File No : **57151-17847**
 Date : **28-Feb-94**
 Analyst : **MRL/JW/MK**

Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
201	2412.7	800	0.032	0.067	9.5	Hot not Mounted	2.74	Ls gry microxln foss
202	2413.3	800	0.033	0.071	9.6	Hot not Mounted	2.73	Ls gry microxln foss
203	2413.8	800	0.110	0.188	10.7	Hot not Mounted	2.74	Ls gry microxln foss
204	2414.3	800	0.125	0.206	10.6	Hot not Mounted	2.72	Ls gry microxln foss
205	2414.8	800	0.023	0.034	3.2	Hot not Mounted	2.86	Ls gry microxln foss dol
206	2415.4	800	0.053	0.101	9.6	Hot not Mounted	2.71	Ls lt gry microxln foss
207	2415.8	800	0.017	0.033	7.3	Hot not Mounted	2.72	Ls lt gry microxln foss
208	2416.3	800	0.011	0.018	7.6	Hot not Mounted	2.75	Ls lt gry microxln foss
209	2416.8	800	0.025	0.064	14.7	Hot not Mounted	2.77	Ls lt gry microxln foss
210	2417.3	800	0.312	0.498	15.8	Hot not Mounted	2.74	Ls lt gry microxln slty sdy
211	2417.7	800	0.025	0.067	15.5	Hot not Mounted	2.74	Ls lt gry microxln slty sdy
212	2418.3	800	30.3F	35.6F	16.3	Cool Mounted	2.72	Sst lt gry vf gr slty calc
213	2418.9	800	16.3F	16.8F	13.6	Cool Mounted	2.72	Sst lt gry vf gr slty lam calc
214	2419.3	800	30.2F	35.3F	16.5	Cool Mounted	2.71	Sst lt gry vf gr slty lam calc
215	2419.9	800	20.1F	20.2F	12.9	Cool Mounted	2.69	Sst lt gry vf gr slty lam calc
216	2420.3	800	19.7F	20.4F	16.5	Cool Mounted	2.72	Sst lt gry vf gr slty calc
217	2420.7	800	0.332	0.501	14.2	Hot not Mounted	2.71	Sst lt gry vf gr slty calc
218	2421.2	800	1.42	1.854	17.0	Hot not Mounted	2.71	Sst lt gry vf gr slty calc
219	2421.7	800	18.7F	19.4F	16.6	Cool Mounted	2.68	Sst lt gry vf gr slty calc
220	2422.3	800	17.9F	18.3F	16.4	Cool Mounted	2.69	Sst lt gry vf gr slty calc
221	2422.9	800	17.2F	17.7F	16.2	Cool Mounted	2.72	Sst lt gry vf gr slty lam calc
222	2423.3	800	30.2F	32.2F	14.6	Cool Mounted	2.69	Sst lt gry vf gr slty calc
223	2423.8	800	14.9F	15.4F	12.2	Cool Mounted	2.67	Sst lt gry vf gr slty calc
224	2424.3	800	0.034	0.084	13.2	Hot not Mounted	2.67	Sst lt gry vf gr slty calc
225	2424.7	800	0.172	0.301	14.0	Hot not Mounted	2.68	Sst lt gry vf gr slty calc

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
226	2425.2	800	0.069	0.132	12.2	Hot not Mounted	2.68	Sst lt gry vf gr slty calc
227	2425.7	800	0.073	0.138	11.8	Hot not Mounted	2.70	Sst lt gry vf gr slty calc
228	2426.3	800	0.063	0.130	13.2	Hot not Mounted	2.67	Sst lt gry vf gr slty calc
229	2426.7	800	0.106	0.195	13.3	Hot not Mounted	2.68	Sst lt gry vf gr slty calc
230	2427.3	800	0.017	0.046	12.1	Hot not Mounted	2.68	Sst lt gry vf gr slty calc
231	2427.6	800	49.4F	56.3F	11.4	Cool Mounted	2.68	Sltst rd calc
232	2428.2	800	13.5F	14.2F	9.7	Cool Mounted	2.75	Sltst rd calc
233	2428.8	800	16.0F	17.4F	8.6	Cool Mounted	2.73	Sltst rd calc
234	2429.3	800	16.8F	18.7F	9.2	Cool Mounted	2.74	Sltst rd calc
235	2429.5	800	26.6F	26.8F	9.8	Cool Mounted	2.72	Sltst rd calc
236	2435.3	800	41.4F	42.5F	11.7	Cool Mounted	2.73	Sltst rd calc
237	2435.7	800	65.8F	74.4F	10.2	Cool Mounted	2.70	Sltst rd calc
238	2437.5	800	10.2F	11.2F	11.4	Cool Mounted	2.73	Sltst rd calc
239	2437.8	800	25.5F	25.7F	9.3	Cool Mounted	2.71	Sltst rd calc
240	2438.3	800	27.4F	38.5F	10.3	Cool Mounted	2.72	Sltst rd calc
241	2438.8	800	16.0F	16.3F	8.9	Cool Mounted	2.72	Sltst rd calc
242	2439.5	800	26.3F	27.2F	10.0	Cool Mounted	2.69	Sltst rd calc
243	2439.8	800	82.6F	109.F	11.1	Cool Mounted	2.72	Sltst rd calc
244	2441.9	800	49.7F	51.3F	6.7	Cool Mounted	2.76	Sltst rd calc
245	2442.3	800	3.59F	3.91F	6.8	Cool Mounted	2.78	Sltst rd calc
246	2442.7	800	7.40F	7.54F	10.8	Cool Mounted	2.76	Sltst rd calc
247	2443.4	800	46.6F	48.1F	14.4	Cool Mounted	2.74	Sltst rd calc
248	2443.7		Failed Plug					Failed plug
249	2444.5	800	31.3F	31.8F	13.9	Cool Mounted	2.72	Sltst rd calc
250	2444.7	800	23.7F	25.2F	15.0	Cool Mounted	2.72	Sltst rd calc

CORE LABORATORIES

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
251	2445.3	800	52.5F	67.2F	14.1	Cool Mounted	2.70	Sltst rd calc
252	2445.8	800	28.3F	30.4F	14.7	Cool Mounted	2.71	Sltst rd calc
253	2446.2	800	0.183	0.298	15.4	Cool not Mounted	2.72	Sst rd vf gr slty calc
254	2446.7	800	0.172	0.276	15.3	Cool not Mounted	2.72	Sst rd vf gr slty calc
255	2447.2	800	0.065	0.121	14.2	Cool not Mounted	2.71	Sst rd vf gr slty calc
256	2447.7	800	0.026	0.064	13.7	Cool not Mounted	2.72	Sst rd vf gr slty calc
257	2448.2	800	0.092	0.166	14.8	Cool not Mounted	2.72	Sst rd vf gr slty calc
258	2448.6	800	0.160	0.258	15.1	Cool not Mounted	2.72	Sst rd vf gr slty calc
259	2449.2	800	0.023	0.056	13.6	Cool not Mounted	2.72	Sst rd vf gr slty calc
260	2449.5	800	40.1F	42.3F	10.9	Cool Mounted	2.70	Sst rd vf gr slty calc
261	2450.3				5.2	Cool Mounted	2.74	Sst rd vf gr slty sh calc
262	2450.8	800	26.6F	26.7F	11.5	Cool Mounted	2.73	Sltst rd calc
263	2451.2	800	20.9F	21.6F	9.2	Cool Mounted	2.71	Sltst gry calc
264	2451.6	800	31.2F	31.8F	11.2	Cool Mounted	2.72	Sltst rd calc
265	2452.2	800	0.027	0.052	11.1	Cool not Mounted	2.72	Sltst rd calc
266	2452.7	800	27.5F	27.8F	9.5	Cool Mounted	2.72	Sltst rd calc
267	2454.9	800	13.1F	13.8F	12.0	Cool Mounted	2.68	Sst lt gry slily slty calc
268	2455.4	800	17.2F	18.1F	12.5	Cool Mounted	2.68	Sst lt gry slily slty calc
269	2455.8	800	24.2F	25.4F	13.9	Cool Mounted	2.67	Sst lt gry slily slty calc
270	2456.3	800	16.7F	17.3F	11.4	Cool Mounted	2.69	Sst lt gry slily slty calc
271	2456.9		Failed Plug					Failed Plug
272	2457.3	800	0.138	0.216	9.5	Hot not Mounted	2.71	Ls gry microxln foss
273	2457.7	800	0.131	0.215	9.7	Hot not Mounted	2.72	Ls gry microxln foss
274	2458.3	800	0.236	0.360	10.8	Hot not Mounted	2.71	Ls gry microxln foss
275	2458.6	800	671. F	731. F	12.1	Cool Mounted	2.71	Ls gry microxln foss

CORE LABORATORIES

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
276	2459.3	800	0.268	0.400	11.1	Hot not Mounted	2.71	Ls gry microxln foss
277	2459.8				8.9	Cool not Mounted	2.68	Sst gry vf gr sh slily foss
278	2460.8	800	0.015	0.032	7.3	Cool not Mounted	2.67	Sst gry vf gr sh foss
279	2461.2	800	0.408	0.577	11.1	Hot not Mounted	2.71	Ls gry microxln foss
280	2461.5	800	1.65	2.098	13.8	Hot not Mounted	2.80	Ls gry microxln foss
281	2463.5	800	49.3	52.351	26.8	Hot not Mounted	2.73	Ls gry microxln foss
282	2465.4	800	13.9	15.443	23.4	Hot not Mounted	2.73	Ls gry microxln foss
283	2465.8	800	12.0	13.094	22.2	Hot not Mounted	2.74	Ls gry microxln foss
284	2466.2	800	0.009	0.015	16.8	Hot not Mounted	2.68	Ls gry microxln foss
285	2466.7	800	0.037	0.080	10.0	Hot not Mounted	2.73	Ls gry microxln
286	2467.3	800	0.065	0.129	11.8	Hot not Mounted	2.74	Ls gry microxln
287	2467.8	800	0.047	0.097	10.7	Hot not Mounted	2.74	Ls gry microxln foss
288	2468.4	800	0.039	0.084	10.9	Hot not Mounted	2.75	Ls gry microxln foss
289	2468.8	800	0.088	0.165	12.7	Hot not Mounted	2.77	Ls gry microxln foss
290	2469.3	800	0.031	0.067	10.5	Hot not Mounted	2.76	Ls gry microxln foss
291	2469.8	800	0.052	0.103	11.9	Hot not Mounted	2.76	Ls gry microxln foss
292	2470.2	800	0.055	0.109	11.3	Hot not Mounted	2.74	Ls gry microxln foss
293	2470.7	800	0.056	0.106	9.9	Hot not Mounted	2.74	Ls gry microxln foss
294	2471.3	800	0.040	0.082	11.0	Hot not Mounted	2.75	Ls gry microxln foss
295	2471.7	800	0.032	0.065	10.7	Hot not Mounted	2.74	Ls gry microxln foss
296	2472.5	800	0.030	0.057	10.9	Hot not Mounted	2.74	Ls gry microxln foss
297	2472.8	800	0.029	0.056	10.2	Hot not Mounted	2.73	Ls gry microxln foss
298	2473.3	800	0.016	0.030	8.5	Hot not Mounted	2.73	Ls gry microxln foss
299	2473.7	800	0.106	0.175	9.3	Cool not Mounted	2.72	Ls gry microxln vfoss
300	2474.3	800	0.005	0.010	8.0	Hot not Mounted	2.68	Ls gry microxln vfoss

CORE LABORATORIES

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
301	2474.8	800	0.132	0.228	12.8	Hot not Mounted	2.75	Ls gry microxln foss
302	2475.2	800	0.087	0.153	10.9	Hot not Mounted	2.75	Ls gry microxln foss
303	2475.7	800	0.037	0.078	10.6	Hot not Mounted	2.74	Ls gry microxln foss
304	2476.2	800	0.046	0.095	11.1	Hot not Mounted	2.74	Ls gry microxln foss
305	2476.8	800	6.67	8.127	15.6	Hot not Mounted	2.73	Sst gry vf gr sh foss lam
306	2477.2	800	1.42	1.903	14.7	Hot not Mounted	2.74	Sst gry vf gr slty
307	2477.9	800	14.1	16.248	17.9	Hot not Mounted	2.69	Sst gry vf gr slty
308	2478.2	800	1.70	2.020	12.9	Hot not Mounted	2.74	Sst gry vf gr slty
309	2478.6	800	0.086	0.156	14.3	Hot not Mounted	2.79	Sst gry vf gr slty
310	2479.2	800	3.63	4.550	17.5	Hot not Mounted	2.70	Sst gry vf gr slty
311	2479.7	800	3.59	4.637	18.3	Hot not Mounted	2.69	Sst gry vf gr slty
312	2480.3	800	9.93	12.079	19.7	Hot not Mounted	2.70	Sst gry vf gr slty
313	2480.7	800	5.60	7.054	18.9	Hot not Mounted	2.70	Sst gry vf gr slty
314	2481.2	800	2.50	3.341	18.1	Hot not Mounted	2.72	Sst gry vf gr slty
315	2481.7	800	3.18	4.166	18.3	Hot not Mounted	2.70	Sst gry vf gr slty
316	2482.3	800	5.63	7.162	20.2	Hot not Mounted	2.68	Sst gry vf gr slty
317	2482.8	800	5.30	6.713	19.6	Hot not Mounted	2.68	Sst gry vf gr slty
318	2483.2	800	4.54	5.860	19.9	Hot not Mounted	2.68	Sst gry vf gr slty
319	2483.8	800	0.054	0.121	14.0	Hot not Mounted	2.67	Sst gry vf gr slty
320	2484.3	800	0.064	0.136	14.1	Hot not Mounted	2.68	Sst gry vf gr slty
321	2484.8	800	0.105	0.202	14.7	Hot not Mounted	2.67	Sst gry vf gr slty
322	2485.2	800	0.022	0.042	11.4	Hot not Mounted	2.70	Sst gry vf gr slty
323	2485.2	800	0.031	0.077	13.2	Hot not Mounted	2.68	Sst gry vf gr slty
324	2486.2	800	23.4F	24.7F	12.0	Cool Mounted	2.68	Sst rd vf gr sh
325	2486.7	800	60.5F	71.1F	10.6	Cool Mounted	2.67	Sst rd vf gr sh

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
326	2487.3	800	25.6F	26.4F	12.8	Cool Mounted	2.69	Sltst rd sh calc
327	2487.9	800	20.4F	20.8F	13.1	Cool Mounted	2.67	Sltst rd sh
328	2488.2	800	17.0F	18.7F	13.3	Cool Mounted	2.69	Sltst rd sh calc
329	2488.7	800	25.5F	27.0F	11.5	Cool Mounted	2.72	Sltst rd sh calc
330	2489.3	800	27.6F	32.0F	10.1	Cool Mounted	2.71	Sltst rd sh calc
331	2490.2	800	26.8F	30.9F	20.3	Hot not Mounted	2.66	Sst gry vf gr slty calc
332	2490.6	800	46.4F	62.1F	12.8	Cool Mounted	2.68	Sst rd slty calc
333	2491.1	800	17.4F	17.7F	15.9	Cool Mounted	2.68	Sst rd slty calc
334	2492.8	800	21.7F	22.7F	11.2	Cool Mounted	2.69	Sst rd slty calc
335	2493.2		Failed Plug					Failed Plug
336	2493.8	800	7.38F	7.73F	9.9	Cool Mounted	2.61	Sltst rd sh
337	2494.3	800	20.3F	22.1F	12.2	Cool Mounted	2.69	Sst rd slty calc
338	2494.8	800	18.6F	20.2F	11.2	Cool Mounted	2.70	Sst rd slty calc
339	2495.4				14.0	Cool not Mounted	2.73	Sltst rd calc
340	2495.8	800	13.4F	14.7F	11.3	Cool Mounted	2.73	Sltst rd calc
341	2496.8	800	17.0F	17.8F	16.4	Cool Mounted	2.77	Ls gry microxln sh
342	2497.5	800	16.6F	16.9F	14.5	Cool Mounted	2.74	Sltst rd calc
343	2497.7	800	0.012	0.028	12.3	Cool not Mounted	2.64	Sst gry vf gr slty
344	2498.1	800	14.2F	15.7F	12.8	Cool Mounted	2.72	Sst gry vf gr slty
345	2498.5	800	0.021	0.052	13.0	Hot not Mounted	2.72	Sst gry vf gr slty
346	2506.2	800	0.051	0.102	14.6	Cool not Mounted	2.71	Sst gry vf gr slty
347	2506.7	800	0.042	0.093	13.7	Cool not Mounted	2.71	Sst gry vf gr slty
348	2507.3	800	0.065	0.125	13.9	Cool not Mounted	2.70	Sst gry vf gr slty
349	2507.7	800	0.061	0.119	14.3	Cool not Mounted	2.70	Sst gry vf gr slty
350	2508.3	800	0.602	0.690	14.6	Cool not Mounted	2.69	Sst gry vf gr slty

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
351	2508.6	800	0.028	0.043	11.3	Cool not Mounted	2.67	Sst rd vf gr slty
352	2509.2	800	35.7F	36.1F	12.5	Cool Mounted	2.70	Sst rd vf gr slty sh lmy
353	2509.7	800	0.065	0.137	15.9	Hot not Mounted	2.78	Ls gry microxln
354	2510.2	800	2.85	3.672	20.5	Cool not Mounted	2.66	Sst rd vf gr slty
355	2510.7	800	22.1	25.499	21.5	Cool not Mounted	2.66	Sst rd vf gr slty
356	2511.4	800	0.245	0.285	14.4	Cool not Mounted	2.75	Sst rd gry vf gr slty lam calc
357	2511.8	800	0.346	0.480	12.8	Cool not Mounted	2.68	Sst gry vf gr slty lam calc
358	2512.2	800	6.21	7.394	17.7	Cool not Mounted	2.66	Sst gry vf gr slty lam calc
359	2512.8	800	0.165	0.242	13.0	Cool not Mounted	2.68	Sst rd gry vf gr slty lam calc
360	2513.2	800	1.32	1.522	11.0	Cool not Mounted	2.69	Sst rd gry vf gr slty lam calc
361	2513.6	800	0.436	0.586	12.0	Cool not Mounted	2.67	Sst gry vf gr slty lam calc
362	2514.2	800	5.05	5.293	9.9	Cool not Mounted	2.68	Sst dk gry vf gr slty sh calc
363	2514.6	800	31.4	34.668	18.8	Hot not Mounted	2.65	Sst gry vf gr slty lam calc
364	2515.2	800	70.0F	78.8F	19.5	Cool Mounted	2.64	Sst gry vf gr slily slty lam calc
365	2515.6	800	1.69	2.074	12.3	Cool not Mounted	2.65	Sst gry vf gr slily slty lam calc
366	2516.3	800	53.8F	58.5F	16.4	Cool Mounted	2.67	Sst gry vf gr slty lam
367	2516.8	800	0.365	0.486	12.9	Hot not Mounted	2.67	Sst gry vf gr slty sh lam calc
368	2517.3	800	0.080	0.153	10.4	Hot not Mounted	2.69	Sst gry vf gr slty sh lam calc
369	2517.8	800	6.028	7.123	14.2	Hot not Mounted	2.67	Sst gry vf gr slty lam calc
370	2518.3	800	12.4	14.176	15.5	Hot not Mounted	2.68	Sst gry vf gr slty lam calc
371	2518.8	800	0.038	0.076	9.5	Hot not Mounted	2.71	Sst gry vf gr slty lam vcalc
372	2519.3	800	0.821	1.071	12.9	Hot not Mounted	2.68	Sst gry vf gr slty lam vcalc
373	2519.9				8.3	Hot not Mounted	2.72	Ls gry microxln styl foss
374	2520.3	800	0.086	0.151	10.3	Hot not Mounted	2.71	Ls gry microxln foss
375	2520.8	800	0.217	0.335	11.4	Hot not Mounted	2.70	Ls gry microxln foss

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
376	2521.3	800	0.331	0.484	11.3	Hot not Mounted	2.71	Ls gry microxln foss
377	2521.9	800	0.163	0.261	11.1	Hot not Mounted	2.71	Ls gry microxln foss
378	2522.3	800	0.138	0.223	10.8	Hot not Mounted	2.71	Ls gry microxln foss
379	2522.8	800	0.057	0.103	9.3	Hot not Mounted	2.71	Ls gry microxln foss
380	2523.5	800	0.023	0.038	7.4	Hot not Mounted	2.72	Ls gry microxln foss
381	2523.9	800	0.114	0.191	9.5	Hot not Mounted	2.73	Ls gry microxln foss
382	2524.3	800	0.132	0.221	10.7	Hot not Mounted	2.75	Ls gry microxln foss
383	2524.8	800	0.211	0.337	11.9	Hot not Mounted	2.71	Ls gry microxln foss
384	2525.5	800	0.156	0.250	11.2	Hot not Mounted	2.70	Ls gry microxln foss
385	2525.7	800	0.046	0.082	10.0	Hot not Mounted	2.71	Ls gry microxln foss
386	2526.3				10.8	Hot not Mounted	2.70	Ls gry microxln foss
387	2526.7	800	0.024	0.050	7.2	Hot not Mounted	2.72	Ls gry microxln foss
388	2527.3	800	0.369	0.542	12.2	Hot not Mounted	2.70	Ls gry microxln foss
389	2527.8	800	0.350	0.475	11.9	Hot not Mounted	2.70	Ls gry microxln foss
390	2528.3	800	0.169	0.278	11.6	Hot not Mounted	2.70	Ls gry microxln foss
391	2528.8	800	0.118	0.198	11.1	Hot not Mounted	2.72	Ls gry microxln styl foss frag
392	2529.3	800	0.348	0.439	12.4	Hot not Mounted	2.71	Ls gry microxln foss
393	2529.7	800	0.039	0.077	9.9	Hot not Mounted	2.71	Ls gry microxln foss frag
394	2530.3	800	0.030	0.062	7.9	Hot not Mounted	2.72	Ls gry microxln styl foss frag
395	2530.8	800	0.119	0.193	10.7	Hot not Mounted	2.71	Ls gry microxln foss frag
396	2531.4	800	0.425	0.567	11.3	Hot not Mounted	2.72	Ls gry microxln foss frag
397	2531.8	800	0.598	0.799	11.8	Hot not Mounted	2.71	Ls gry microxln foss frag
398	2532.3	800	0.424	0.603	12.3	Hot not Mounted	2.70	Ls gry microxln foss frag
399	2532.8	800	2.30	2.950	14.6	Hot not Mounted	2.71	Ls gry microxln foss frag
400	2533.2	800	0.900	1.203	11.9	Hot not Mounted	2.72	Ls gry microxln foss frag

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401	2533.7	800	0.942	1.267	13.1	Hot not Mounted	2.71	Ls gry microxln foss frag
402	2534.3	800	0.277	0.392	11.4	Hot not Mounted	2.70	Ls gry microxln foss frag
403	2534.7	800	0.082	0.141	9.7	Hot not Mounted	2.71	Ls gry microxln foss frag
404	2535.3	800	0.023	0.040	7.8	Hot not Mounted	2.71	Ls gry microxln styl
405	2535.8	800	1.20	1.582	12.8	Hot not Mounted	2.71	Ls gry microxln foss
406	2536.5	800	0.894	1.227	12.6	Hot not Mounted	2.70	Ls gry microxln foss
407	2536.8	800	0.524	0.721	11.3	Hot not Mounted	2.71	Ls gry microxln foss
408	2537.3	800	0.554	0.798	11.9	Hot not Mounted	2.69	Ls gry microxln foss
409	2537.7	800	0.546	0.790	12.5	Hot not Mounted	2.69	Ls gry microxln foss
410	2538.3	800	0.358	0.543	12.7	Hot not Mounted	2.72	Ls gry microxln foss
411	2538.7	800	0.121	0.210	10.5	Hot not Mounted	2.70	Ls gry microxln foss
411A	2538.9	800	0.113	0.192	10.3	Hot not Mounted	2.71	Ls gry microxln foss
412	2539.4	800	0.400	0.584	11.9	Hot not Mounted	2.71	Ls gry microxln foss
413	2539.8	800	0.140	0.232	10.4	Hot not Mounted	2.70	Ls gry microxln foss
414	2540.3	800	0.082	0.145	9.6	Hot not Mounted	2.70	Ls gry microxln foss
415	2540.7	800	0.102	0.175	10.1	Hot not Mounted	2.70	Ls gry microxln foss
416	2541.3	800	0.140	0.229	10.7	Hot not Mounted	2.71	Ls gry microxln foss
417	2541.7	800	0.122	0.211	10.3	Hot not Mounted	2.70	Ls gry microxln foss frag
418	2542.3	800	0.142	0.237	10.6	Hot not Mounted	2.70	Ls gry microxln foss frag
419	2542.7	800	0.070	0.126	9.7	Hot not Mounted	2.70	Ls gry microxln foss frag
420	2543.3	800	0.056	0.108	10.0	Hot not Mounted	2.70	Ls gry microxln foss frag
421	2543.8	800	0.143	0.229	10.8	Hot not Mounted	2.71	Ls gry microxln foss frag
422	2544.3	800	0.071	0.127	9.8	Hot not Mounted	2.71	Ls gry microxln foss frag
423	2544.6	800	0.034	0.067	8.5	Hot not Mounted	2.71	Ls gry microxln foss frag
424	2545.2	800	0.070	0.130	10.3	Hot not Mounted	2.71	Ls gry microxln foss frag

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Sample Number	Depth ft	NOB psig	Kinf md	Kair(est) md	Porosity %	Plug Treatment	Grain Den. gm/cc	
425	2545.7	800	0.200	0.303	11.0	Hot not Mounted	2.71	Ls gry microxln foss frag
426	2546.2	800	0.034	0.068	8.8	Hot not Mounted	2.71	Ls gry microxln foss frag
427	2546.7	800	0.019	0.034	7.4	Hot not Mounted	2.71	Ls gry microxln styl
428	2547.2	800	0.002	0.005	4.7	Cool not Mounted	2.72	Ls gry microxln foss frag
429	2547.9	800	0.005	0.008	4.8	Cool not Mounted	2.71	Ls gry microxln foss frag
430	2548.3	800			3.2	Cool not Mounted	2.70	Ls gry microxln slily foss
431	2548.7	800			3.0	Cool not Mounted	2.68	Ls gry microxln foss frag
432	2549.3	800	0.001	0.002	3.8	Cool not Mounted	2.71	Ls gry microxln styl
433	2549.8	800	0.001	0.002	3.8	Cool not Mounted	2.70	Ls gry microxln foss frag
434	2550.3		<0.001		2.0	Cool not Mounted	2.63	Ls gry microxln foss frag
435	2550.7		<0.001		1.4	Cool not Mounted	2.63	Sst gry vf gr slty foss
436	2551.3		<0.001		1.4	Cool not Mounted	2.64	Sst gry vf gr slty foss
437	2551.7		<0.001		1.2	Cool not Mounted	2.64	Sst gry vf gr slty foss
438	2552.3	800	0.048	0.073	4.2	Cool not Mounted	2.63	Sst gry vf gr slty foss
439	2552.8	800	<0.001		3.9	Cool not Mounted	2.61	Sst gry vf gr slty foss
440	2553.2	800	<0.001		4.1	Cool not Mounted	2.59	Sst gry vf gr slty foss
441	2553.7	800	<0.001		4.5	Cool not Mounted	2.58	Sst gry vf gr slty foss
442	2554.3	800	<0.001		4.0	Cool not Mounted	2.63	Sst gry vf gr slty foss
443	2554.7	800	<0.001		4.7	Cool not Mounted	2.64	Sst gry vf gr slty foss
444	2555.3	800	<0.001		4.1	Cool not Mounted	2.60	Sltst gry sh foss
445	2555.7	800	<0.001		4.8	Cool not Mounted	2.64	Sltst gry sh foss
446	2556.2	800	<0.001		4.8	Cool not Mounted	2.58	Sltst gry sh foss
447	2556.8	800	<0.001		4.7	Cool not Mounted	2.58	Sltst gry sh foss
448	2557.3				2.1	Cool not Mounted	2.61	Sltst gry sh foss
449	2557.8	800	0.002	0.005	4.3	Cool not Mounted	2.67	Sltst gry sh foss

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450	2558.3		<0.001		2.8	Cool not Mounted	2.66	Sltst gry sh foss
451	2558.8		<0.001		2.0	Cool not Mounted	2.67	Sltst gry sh foss
452	2559.3		<0.001		1.4	Cool not Mounted	2.65	Sltst gry sh foss
453	2559.7	800	8.88F	9.06F	4.5	Cool Mounted	2.67	Sltst gry sh foss
454	2560.2				4.0	Hot not Mounted	2.65	Shale gry foss
455	2560.8				6.3	Cool not Mounted	2.69	Shale gry foss
456	2561.3				6.6	Cool not Mounted	2.66	Shale gry foss
457	2561.9	800	10.8F	11.0F	5.2	Cool Mounted	2.63	Sltst gry sh foss
458	2562.2	800	11.5F	11.7F	4.5	Cool Mounted	2.65	Sltst gry sh foss
459	2562.7	800	8.70F	8.81F	3.6	Cool Mounted	2.68	Sst gry vf gr slty foss
460	2563.2	800	9.56F	9.63F	3.5	Cool Mounted	2.68	Sst gry vf gr slty foss
461	2563.8	800	0.014	0.030	7.7	Hot not Mounted	2.70	Sst gry vf gr slty foss
462	2564.3	800	0.098	0.182	11.3	Hot not Mounted	2.69	Sst gry vf gr slty calc
463	2564.8	800	0.149	0.255	10.9	Hot not Mounted	2.69	Sst gry vf gr slty calc
464	2565.3	800	0.461	0.706	13.2	Hot not Mounted	2.69	Sst gry vf gr slty calc
465	2565.8	800	0.592	0.876	13.0	Hot not Mounted	2.69	Sst gry vf gr slty calc
466	2566.4	800	0.553	0.820	12.8	Hot not Mounted	2.69	Sst gry vf gr slty calc
467	2566.8	800	0.414	0.628	12.3	Hot not Mounted	2.69	Sst gry vf gr slty calc
468	2567.3	800	0.083	0.148	9.2	Hot not Mounted	2.69	Sst gry vf gr slty calc
469	2567.8	800	0.350	0.473	10.9	Hot not Mounted	2.69	Sst gry vf gr slty calc
470	2568.3	800	0.031	0.066	8.4	Hot not Mounted	2.69	Sst gry vf gr slty calc
471	2568.8	800	0.023	0.045	7.4	Hot not Mounted	2.69	Sst gry vf gr slty calc
472	2569.3	800	0.005	0.010	4.8	Hot not Mounted	2.72	Ls gry microxln
473	2569.9	800	0.002	0.005	4.2	Hot not Mounted	2.71	Ls gry microxln
474	2570.3	800	0.004	0.009	4.3	Hot not Mounted	2.73	Ls gry microxln

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475	2570.7	800	0.009	0.018	5.8	Hot not Mounted	2.73	Ls gry microxln
476	2571.3	800	0.013	0.024	6.1	Hot not Mounted	2.73	Ls gry microxln
477	2571.8	800	0.013	0.026	6.5	Hot not Mounted	2.70	Ls gry microxln
478	2572.3	800	0.021	0.046	9.7	Hot not Mounted	2.71	Ls gry microxln
479	2572.7	800	13.4	13.661	9.8	Cool Mounted	2.70	Ls gry microxln
480	2573.2	800	14.7	14.842	11.1	Cool Mounted	2.68	Sst gry vf gr slty calc
481	2573.9	800	23.1F	23.9F	12.3	Cool Mounted	2.69	Sst gry vf gr slty lam calc
482	2574.2	800	14.1	14.406	11.4	Cool Mounted	2.68	Sst gry vf gr slty lam calc
483	2574.6	800	308. F	369. F	11.7	Cool Mounted	2.68	Sst gry vf gr slty lam calc
484	2575.1	800	15.5	15.706	10.9	Cool Mounted	2.68	Sst gry vf gr slty lam calc
485	2575.7	800	18.0	18.556	13.8	Cool Mounted	2.69	Sst gry vf gr slty lam calc
486	2576.4	800	0.034	0.075	9.4	Hot not Mounted	2.69	Sst gry vf gr slty calc
487	2576.8	800	0.037	0.078	11.0	Hot not Mounted	2.66	Sst gry vf gr slty calc
488	2577.3	800	0.021	0.049	10.9	Hot not Mounted	2.69	Sst gry vf gr slty calc
489	2577.8	800	0.014	0.034	9.6	Hot not Mounted	2.69	Sst gry vf gr slty calc
490	2578.3	800	0.020	0.047	9.6	Hot not Mounted	2.70	Sst gry vf gr slty calc
491	2578.7	800	0.040	0.086	10.6	Hot not Mounted	2.70	Sst gry vf gr slty calc
492	2579.3	800	0.028	0.063	10.2	Hot not Mounted	2.71	Sst gry vf gr slty calc
493	2579.8	800	0.009	0.025	9.3	Hot not Mounted	2.71	Sst gry vf gr slty calc
494	2580.3	800	0.005	0.013	8.2	Hot not Mounted	2.73	Sst gry vf gr slty calc
495	2580.8	800	0.006	0.017	8.6	Hot not Mounted	2.69	Sst gry vf gr slty calc
496	2581.2	800	0.004	0.010	7.8	Hot not Mounted	2.70	Sst gry vf gr slty calc
497	2581.6	800	0.037	0.043	8.3	Hot not Mounted	2.69	Sst gry vf gr slty calc

NOTE: "F" denotes fractured plug.

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 Date : 28-Feb-94
 Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
1	2310.1	800	4.51	9.3	11.7F	12.1F	1.58	4.87E+09	1.84E+02
2	2311.2								
3	2311.9	800	4.63	9.6	10.5F	11.6F	5.73	3.56E+09	1.21E+02
4	2312.2	800	5.26	10.9	9.7F	10.9F	6.30	3.55E+09	1.11E+02
5	2312.4	800	5.26	10.5	10.6F	11.8F	5.92	3.29E+09	1.12E+02
6	2313.2	800	5.63	11.7	12.2F	13.5F	5.83	2.52E+09	9.92E+01
7	2313.7	800	8.51	17.7	23.4F	26.7F	7.42	4.70E+09	3.55E+02
8	2314.4	800	4.65	7.8	12.5F	12.7F	0.75	6.43E+09	2.59E+02
9	2314.8	800	5.38	11.5	0.134	0.225	48.41	8.46E+11	3.57E+02
10	2315.2	800	5.61	11.8	0.072	0.132	62.41	3.39E+12	7.68E+02
11	2315.8	800	7.22	15.1	0.228	0.369	42.92	5.04E+11	3.63E+02
12	2316.1	800	7.15	15.0	0.030	0.054	64.59	1.31E+15	1.23E+05
13	2316.4	800	6.95	14.8	0.026	0.064	118.52	1.37E+14	1.10E+04
14	2318.3	800	4.06	8.6	37.9F	44.1F	8.22	3.36E+09	4.11E+02
15	2318.6	800	3.71	7.8	30.0F	34.3F	7.42	4.11E+09	3.97E+02
16	2319.3	800	3.21	9.8	8.796	9.842	6.54	2.53E+09	7.18E+01
17	2319.8	800	4.91	10.0	0.004	0.009	118.09		
18	2320.4	800	9.19	19.4	31.4F	34.2F	4.68	1.58E+09	1.60E+02
19	2320.9	800	7.52	15.7	1.953	2.454	15.47	5.66E+10	3.55E+02
20	2321.3	800	6.44	13.5	0.872	1.122	18.18	2.02E+11	5.63E+02
21	2321.6	800	7.72	16.3	9.031	10.588	9.49	4.39E+08	1.28E+01
22	2322.2	800	6.06	12.8	7.209	8.299	8.43	5.54E+08	1.29E+01
23	2322.7	800	5.16	14.1	3.835	4.638	12.13	1.94E+09	2.39E+01
24	2323.3	800	6.17	12.9	1.834	1.923	2.92	9.16E+08	5.40E+00
25	2323.7	800	6.16	13.9	1.112	1.416	17.03	1.07E+11	3.79E+02

CORE LABORATORIES

Company : ANADARKO
 Well : Cornell University Project
 Field :
 County : Morton County, Kansas

CL File No : 57151-17847
 Date : 28-Feb-94
 Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
26	2324.2	800	7.77	16.7	2.647	3.183	11.96	3.45E+10	2.93E+02
27	2324.8	800	7.83	16.4	1.690	2.050	12.93	9.48E+10	5.12E+02
28	2325.3	800	8.23	17.2	2.805	3.494	14.48	8.10E+09	7.29E+01
29	2325.8	800	5.78	12.1	0.302	0.424	27.47	2.04E+12	1.95E+03
30	2326.1	800	5.84	12.1	0.287	0.369	19.43	8.85E+12	7.99E+03
31	2326.2	800	4.70	9.8	0.021	0.035	56.87	6.77E+11	4.42E+01
32	2327.2	800	6.07	13.5	43.7F	44.9F	1.33	1.87E+09	2.64E+02
33	2327.8	800	3.91	7.9	0.007	0.011	39.58	2.32E+14	5.31E+03
34	2328.2	800	4.76	9.9	0.107	0.119	8.03	1.07E+12	3.64E+02
35	2328.8	800	7.25	15.2	0.169	0.284	47.86	1.91E+11	1.02E+02
36	2329.1	800	6.38	13.4	0.022	0.053	115.25	1.96E+14	1.36E+04
37	2329.7	800	5.25	11.1	0.026	0.056	92.29	1.23E+13	9.99E+02
38	2330.2	800	6.03	12.7	0.178	0.241	24.85	4.43E+11	2.52E+02
39	2330.4	800	5.86	12.3	0.277	0.364	21.19	1.04E+13	9.17E+03
40	2331.3	800	6.61	14.0	1.458	1.790	13.96	1.13E+11	5.27E+02
41	2331.8	800	6.42	13.6	15.6F	16.2F	2.03	4.56E+09	2.30E+02
42	2332.1	800	8.26	17.2	3.054	3.840	15.08	1.02E+10	9.98E+01
43	2332.8	800	5.03	10.7	5.669	6.213	5.42		
44	2333.4	800	7.06	15.1	0.051	0.103	78.71	6.14E+12	9.90E+02
45	2333.7	800	7.84	17.9	4.378	4.900	6.84	6.16E+10	8.69E+02
46	2334.2	800	7.58	16.3	0.439	0.553	17.24	1.29E+13	1.80E+04
47	2334.8	800	6.24	13.3	0.298	0.449	34.35	1.48E+12	1.40E+03
48	2335.2	800	6.73	14.5	0.672	0.947	26.45	2.19E+11	4.68E+02
49	2335.8	800	6.71	14.3	0.181	0.291	42.55	5.01E+11	2.88E+02
50	2336.3	800	7.72	16.7	0.850	1.203	26.36	2.38E+11	6.44E+02

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
51	2336.8	800	5.83	12.4	15.4F	16.0F	1.98	4.46E+09	2.22E+02
52	2337.3	800	7.15	15.2	26.2F	26.4F	0.43	2.54E+09	2.15E+02
53	2337.8	800	7.90	17.3	1.466	1.856	16.32	1.08E+11	5.06E+02
54	2339.4	800	5.90	12.6	0.031	0.055	60.18	1.25E+13	1.22E+03
55	2339.8	800	7.06	15.3	0.086	0.159	63.14	1.79E+12	4.86E+02
56	2340.3	800	7.94	17.1	0.700	1.023	29.64	3.69E+11	8.25E+02
57	2340.8	800	7.85	16.8	0.441	0.679	35.61	8.53E+11	1.20E+03
58	2341.1	800	7.98	16.9	0.868	1.213	25.23	2.70E+11	7.49E+02
59	2341.7	800	6.85	14.5	0.770	1.072	25.11	2.02E+11	4.97E+02
60	2342.3	800	6.81	14.4	1.266	1.667	19.62	6.74E+10	2.74E+02
61	2342.8	800	6.24	13.2	0.915	1.219	20.95	1.25E+11	3.65E+02
62	2343.2	800	7.92	16.9	1.454	1.954	21.10	4.75E+10	2.21E+02
63	2343.9	800	5.82	12.3	0.716	0.982	23.76	1.98E+11	4.53E+02
64	2344.2	800	7.86	16.6	1.908	2.502	18.76	2.93E+10	1.80E+02
65	2344.7	800	6.48	13.6	1.060	1.400	20.04	9.56E+10	3.25E+02
66	2345.3	800	6.64	14.1	1.001	1.342	21.43	1.28E+11	4.09E+02
67	2345.7	800	7.06	14.9	1.032	1.389	21.68	1.23E+11	4.06E+02
68	2346.3	800	6.71	14.3	1.650	2.108	16.85	3.88E+10	2.05E+02
69	2346.8	800	7.09	15.1	1.260	1.674	20.35	7.67E+10	3.10E+02
70	2347.3	800	6.46	13.8	0.356	0.523	31.44	1.36E+12	1.54E+03
71	2347.8	800	6.27	13.3	1.091	1.349	14.73	1.24E+10	4.31E+01
72	2348.3	800	5.76	12.1	0.060	0.107	58.15	5.54E+12	1.06E+03
73	2348.8	800	6.21	13.4	1.024	1.275	15.42	1.60E+11	5.25E+02
74	2349.3	800	6.50	13.8	0.125	0.200	42.89	1.12E+12	4.43E+02
75	2349.7	800	6.75	14.4	0.986	1.217	14.69	4.97E+11	1.56E+03

CORE LABORATORIES

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CL File No : 57151-17847
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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
76	2350.2	800	6.69	14.3	0.107	0.183	52.09	1.56E+12	5.25E+02
77	2350.7	800	7.11	15.2	0.169	0.280	46.34	8.24E+11	4.41E+02
78	2351.8	800	6.71	14.4	0.097	0.171	56.07	2.13E+12	6.53E+02
79	2351.8	800	6.81	14.6	0.207	0.321	38.18	2.75E+11	1.82E+02
80	2352.3	800	6.19	13.1	0.085	0.154	59.85	8.81E+10	2.37E+01
81	2352.7	800	4.70	10.0	0.046	0.091	76.47	4.71E+11	6.75E+01
82	2353.2	800	5.01	10.9	0.015	0.037	125.98	1.59E+14	7.38E+03
83	2353.7	800	5.80	12.2	0.376	0.456	14.36	1.79E+13	2.14E+04
84	2354.3	800	4.51	11.0	0.046	0.095	80.43	2.54E+13	3.71E+03
85	2354.8	800	5.46	11.4	0.457	0.595	20.01	2.20E+12	3.20E+03
86	2355.3	800	4.98	10.5	0.118	0.205	53.16	9.44E+11	3.53E+02
87	2355.9	800	5.92	12.6	0.388	0.576	32.36	7.05E+11	8.73E+02
88	2356.3	800	6.12	12.8	0.409	0.613	33.28	7.18E+11	9.35E+02
89	2356.7	800	6.47	13.5	0.797	1.102	24.40	1.64E+11	4.18E+02
90	2357.2	800	5.68	12.1	0.290	0.446	36.73	1.44E+12	1.33E+03
91	2357.7	800	6.33	13.3	0.561	0.810	28.96	3.70E+11	6.61E+02
92	2358.2	800	3.78	13.2	0.474	0.705	32.21	3.20E+11	4.84E+02
93	2358.9	800	5.74	13.1	1.546	2.002	18.02	3.17E+10	1.57E+02
94	2359.2	800	5.39	11.3	0.674	0.913	22.88	2.35E+11	5.06E+02
95	2359.8	800	5.21	11.2	0.752	1.020	22.70	1.26E+11	3.03E+02
96	2360.2	800	4.44	9.4	0.061	0.114	64.67	2.71E+12	5.22E+02
97	2360.8	800	4.74	10.0	0.045	0.092	81.50	4.07E+12	5.69E+02
98	2361.3	800	5.20	11.1	0.104	0.185	56.83	2.32E+11	7.65E+01
99	2361.7	800	4.66	9.9	0.452	0.477	3.61	2.33E+13	3.36E+04
100	2362.1	800	3.73	7.7	11.1F	11.3F	1.00	9.45E+09	3.38E+02

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
101	2362.4	800	3.80	8.0	15.1F	16.3F	4.48	3.66E+09	1.78E+02
102	2363.5	800	5.38	11.4	0.012	0.029	126.34	2.92E+14	1.07E+04
103	2363.8	800	6.08	12.8	14.9F	16.0F	3.98	4.73E+09	2.27E+02
104	2364.2	800	6.21	13.1	0.106	0.187	55.05	1.62E+12	5.46E+02
105	2364.6	800	6.97	14.7	0.522	0.745	27.83	9.14E+11	1.52E+03
106	2365.2	800	7.26	15.3	0.919	1.263	23.52	1.91E+11	5.61E+02
107	2365.8	800	6.70	14.2	0.365	0.518	28.15	2.87E+12	3.33E+03
108	2366.3	800	6.60	14.0	0.427	0.585	24.45	1.85E+12	2.52E+03
109	2366.7	800	6.82	14.4	0.655	0.891	23.19	5.74E+11	1.20E+03
110	2367.2	800	4.97	10.5	0.022	0.044	81.39	3.50E+13	2.42E+03
111	2367.7	800	5.56	11.7	49.2F	75.3F	26.55	2.28E+09	3.63E+02
112	2368.3	800	6.75	14.2	8.87F	9.13F	1.62	1.11E+10	3.18E+02
113	2368.6	800	6.20	13.1	5.74F	5.88F	1.38	1.68E+10	3.10E+02
114	2369.3	800	6.28	13.2	12.2F	13.6F	6.16	2.06E+09	8.08E+01
115	2369.8	800	5.96	12.6	9.96F	11.1F	6.64	9.39E+08	3.01E+01
116	2370.2	800	5.73	11.9	9.28F	10.4F	6.69	2.07E+09	6.20E+01
117	2370.6	800	4.92	10.4	7.06F	7.97F	7.16	1.11E+09	2.52E+01
118	2371.3	800	5.47	11.5	8.69F	9.78F	6.82	2.69E+09	7.54E+01
119	2371.7	800	6.48	13.8	10.9F	12.2F	6.66	2.55E+09	8.92E+01
120	2372.3	800	5.03	10.7	11.9F	13.2F	5.66	4.40E+09	1.69E+02
121	2372.7	800	4.51	9.7	16.3F	17.8F	4.67	2.63E+09	1.39E+02
122	2373.3	800	4.77	10.1	16.8F	18.2F	4.73	1.97E+09	1.06E+02
123	2373.7	800	4.75	10.0	19.7F	20.9F	3.19	3.79E+09	2.41E+02
124	2374.3	800	3.54	10.7	77.0F	101.7F	15.65	1.16E+09	2.87E+02
125	2374.7	800	4.03	8.5	14.0F	15.2F	4.77	2.89E+09	1.30E+02

CORE LABORATORIES

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CL File No : 57151-17847

Date : 28-Feb-94

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
126	2375.4								
127	2375.9	800	3.41	7.1	15.4F	16.6F	4.23	2.01E+09	9.94E+01
128	2376.3	800	3.01	6.4	13.0F	14.1F	4.39	2.98E+09	1.25E+02
129	2376.7	800	3.92	8.2	24.8F	25.2F	0.84	2.72E+09	2.17E+02
130	2377.1	800	4.63	9.7	34.2F	37.2F	4.37	2.23E+09	2.47E+02
131	2377.4	800	3.31	10.8	35.3F	39.6F	6.15	2.13E+09	2.43E+02
132	2378.2								
133	2378.4	800	3.42	7.1	16.7F	16.9F	0.61	4.13E+09	2.22E+02
134	2379.5	800	2.73	5.7	10.2F	10.3F	0.61	7.94E+09	2.62E+02
135	2379.8	800	2.90	6.2	21.0F	21.4F	1.02	4.63E+09	3.14E+02
136	2380.3	800	2.46	6.7	18.7F	19.1F	1.00	3.87E+09	2.34E+02
137	2380.7								
138	2381.0	800	2.79	8.6	18.2F	18.6F	0.99	2.78E+09	1.63E+02
139	2381.5	800	2.67	5.5	8.56F	8.67F	0.73	1.27E+10	3.51E+02
140	2382.2								
141	2382.9								
142	2383.3	800	4.68	9.7	24.4F	26.2F	3.85	1.89E+09	1.48E+02
143	2383.7	800	5.87	12.3	23.1F	23.4F	0.64	3.73E+09	2.78E+02
144	2384.3	800	5.79	12.2	0.018	0.043	107.64	7.60E+14	4.43E+04
145	2384.7	800	5.71	12.0	0.022	0.057	122.50	1.26E+14	8.89E+03
146	2385.3	800	8.34	17.6	2.274	2.999	18.94	3.11E+10	2.27E+02
147	2385.7	800	8.40	17.8	4.645	5.767	13.74	3.62E+09	5.41E+01
148	2386.3	800	9.23	20.0	3.054	3.909	16.35	1.73E+10	1.70E+02
149	2386.7	800	7.77	16.5	0.186	0.330	54.11	6.14E+11	3.64E+02
150	2387.2	800	6.11	13.0	0.028	0.052	67.59	1.28E+15	1.14E+05

CORE LABORATORIES

Company : ANADARKO
 Well : Cornell University Project
 Field :
 County : Morton County, Kansas

CL File No : 57151-17847
 Date : 28-Feb-94
 Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
151	2387.7	800	8.10	17.1	4.585	5.633	13.03	3.37E+09	4.98E+01
152	2388.3	800	7.74	16.3	10.218	11.846	8.66	7.21E+08	2.38E+01
153	2388.8	800	7.80	17.7	6.236	7.670	12.87	1.81E+09	3.63E+01
154	2389.3	800	7.10	15.3	3.222	4.070	15.31	9.34E+09	9.69E+01
155	2389.8	800	7.41	15.6	3.207	4.008	14.55	8.44E+09	8.72E+01
156	2390.3	800	6.29	13.3	0.885	1.201	22.48	1.98E+11	5.62E+02
157	2390.8	800	6.77	13.5	0.532	0.753	27.02	9.39E+11	1.59E+03
158	2391.3	800	6.13	13.0	0.380	0.552	30.20	1.66E+12	2.00E+03
159	2391.7	800	6.38	12.7	0.475	0.556	11.13	1.39E+13	2.10E+04
160	2392.3	800	5.37	11.9	0.114	0.194	50.48	1.37E+12	4.95E+02
161	2392.7	800	6.85	15.2	0.575	0.826	28.33	7.30E+11	1.34E+03
162	2393.3	800	5.37	11.9	0.069	0.124	59.24	4.35E+12	9.56E+02
163	2393.8	800	8.23	18.3	14.853	17.597	9.84	4.53E+08	2.17E+01
164	2394.3	800	9.14	19.9	17.070	20.244	9.82	3.69E+08	2.03E+01
165	2394.7	800	8.06	17.5	1.553	2.058	19.82	6.32E+10	3.15E+02
166	2395.4	800	6.22	13.6	0.518	0.749	29.03	9.14E+11	1.51E+03
167	2395.8	800	6.53	14.2	0.817	1.120	23.59	2.45E+11	6.40E+02
168	2396.3	800	6.07	13.0	1.292	1.665	17.77	9.50E+10	3.94E+02
169	2396.7	800	2.70	5.8	0.007	0.014	79.03	8.73E+15	2.05E+05
170	2397.3	800	2.66	5.5	0.004	0.008	100.96	2.63E+16	3.06E+05
171	2397.8	800	2.79	5.8	0.025	0.029	12.31	4.86E+11	3.80E+01
172	2398.3	800	3.48	7.5	1.868	1.983	3.70	5.76E+10	3.46E+02
173	2398.8	800	4.76	10.0	0.396	0.534	23.26	4.46E+11	5.62E+02
174	2399.2	800	5.91	12.7	3.067	3.708	12.19	4.98E+09	4.90E+01
175	2399.6	800	5.73	13.0	3.256	3.880	11.12	2.88E+09	3.02E+01

CORE LABORATORIES

Company : ANADARKO
Well : Cornell University Project
Field :
County : Morton County, Kansas

CL File No : 57151-17847
Date : 28-Feb-94
Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
176	2400.4	800	3.47	7.6	0.017	0.034	86.27	1.44E+14	7.50E+03
177	2400.8	800	5.24	11.2	0.186	0.284	36.80	2.44E+10	1.44E+01
178	2401.3	800	6.20	13.5	0.335	0.491	30.98	1.38E+12	1.47E+03
179	2401.8	800	4.68	10.9	0.010	0.023	98.81	3.54E+15	1.15E+05
180	2402.3	800	3.97	8.6	0.050	0.090	60.10	1.12E+13	1.76E+03
181	2402.8	800	6.31	13.6	1.484	1.713	9.39	6.18E+10	2.94E+02
182	2403.3	800	7.54	16.2	3.561	4.187	10.13	5.47E+09	6.27E+01
183	2403.8	800	7.76	16.8	4.894	5.464	6.57	5.06E+09	7.98E+01
184	2404.4	800	8.19	17.9	9.409	10.892	8.57	8.25E+08	2.50E+01
185	2404.8	800	7.48	16.5	7.433	8.559	8.35	1.59E+09	3.82E+01
186	2405.2	800	7.17	15.8	9.582	10.983	7.95	1.68E+09	5.18E+01
187	2405.7	800	5.48	12.3	0.965	1.258	18.97	6.03E+10	1.86E+02
188	2406.3	800	4.42	9.9	0.598	0.760	17.47	1.66E+11	3.17E+02
189	2406.3	800	3.67	8.1	0.412	0.520	17.33	5.56E+11	7.30E+02
190	2407.2	800	6.47	14.9	0.398	0.578	30.04	1.01E+12	1.28E+03
191	2407.7	800	4.69	10.5	0.024	0.043	60.59	7.13E+11	5.46E+01
192	2408.3	800	8.29	18.8	1.327	1.768	20.36	1.10E+11	4.68E+02
193	2408.7	800	9.03	20.1	1.395	1.954	24.47	1.04E+11	4.66E+02
194	2409.2	800	8.30	18.7	0.635	0.961	33.02	3.85E+11	7.82E+02
195	2409.7	800	7.30	16.7	0.591	0.851	28.40	5.04E+11	9.51E+02
196	2410.3	800	6.77	15.7	0.294	0.459	37.79	1.58E+12	1.48E+03
197	2410.6	800	7.00	16.3	0.364	0.561	36.10	8.17E+11	9.41E+02
198	2411.2	800	6.22	14.7	0.040	0.089	92.75	7.67E+12	9.67E+02
199	2411.7	800	5.19	11.6	0.030	0.071	105.20	1.07E+13	1.01E+03
200	2412.3	800	4.10	9.0	0.014	0.032	110.62	6.39E+14	2.74E+04

CORE LABORATORIES

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CL File No : 57151-17847
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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
201	2412.7	800	4.28	9.5	0.032	0.067	86.35	9.80E+12	9.75E+02
202	2413.3	800	4.39	9.6	0.033	0.071	87.06	3.73E+12	3.91E+02
203	2413.8	800	4.92	10.7	0.110	0.188	51.32	1.03E+12	3.60E+02
204	2414.3	800	4.39	10.6	0.125	0.206	46.49	1.12E+12	4.44E+02
205	2414.8	800	1.51	3.2	0.023	0.034	40.04	3.32E+14	2.38E+04
206	2415.4	800	4.46	9.6	0.053	0.101	68.68	1.95E+12	3.25E+02
207	2415.8	800	3.35	7.3	0.017	0.033	72.95	1.52E+15	8.24E+04
208	2416.3	800	3.49	7.6	0.011	0.018	56.53	1.65E+16	5.45E+05
209	2416.8	800	6.65	14.7	0.025	0.064	124.40	8.51E+12	6.57E+02
210	2417.3	800	7.03	15.8	0.312	0.498	39.93	1.39E+12	1.38E+03
211	2417.7	800	7.00	15.5	0.025	0.067	131.88	6.65E+13	5.28E+03
212	2418.3	800	7.15	16.3	30.3F	35.6F	9.06	2.14E+09	2.09E+02
213	2418.9	800	6.37	13.6	16.3F	16.8F	1.57	6.15E+09	3.23E+02
214	2419.3	800	7.94	16.5	30.2F	35.3F	8.56	1.83E+09	1.78E+02
215	2419.9	800	5.18	12.9	20.1F	20.2F	0.37	3.16E+09	2.04E+02
216	2420.3	800	7.83	16.5	19.7F	20.4F	1.83	4.62E+09	2.94E+02
217	2420.7	800	6.68	14.2	0.332	0.501	34.13	1.70E+12	1.79E+03
218	2421.2	800	8.01	17.0	1.424	1.854	18.43	1.02E+11	4.64E+02
219	2421.7	800	7.90	16.6	18.7F	19.4F	1.86	3.62E+09	2.18E+02
220	2422.3	800	7.44	16.4	17.9F	18.3F	1.05	4.24E+09	2.45E+02
221	2422.9	800	7.65	16.2	17.2F	17.7F	1.74	4.47E+09	2.48E+02
222	2423.3	800	6.91	14.6	30.2F	32.2F	3.45	2.05E+09	2.00E+02
223	2423.8	800	5.89	12.2	14.9F	15.4F	1.90	5.92E+09	2.84E+02
224	2424.3	800	6.26	13.2	0.034	0.084	112.54	9.33E+12	1.00E+03
225	2424.7	800	6.64	14.0	0.172	0.301	52.12	8.67E+10	4.74E+01

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
226	2425.2	800	5.79	12.2	0.069	0.132	68.48	4.55E+12	9.89E+02
227	2425.7	800	5.50	11.8	0.073	0.138	65.56	1.69E+12	3.90E+02
228	2426.3	800	6.23	13.2	0.063	0.130	80.23	4.09E+12	8.07E+02
229	2426.7	800	6.31	13.3	0.106	0.195	61.31	1.80E+12	6.04E+02
230	2427.3	800	5.71	12.1	0.017	0.046	133.75	2.85E+14	1.57E+04
231	2427.6	800	5.46	11.4	49.4F	56.3F	7.11	1.14E+09	1.82E+02
232	2428.2	800	4.42	9.7	13.5F	14.2F	2.45	4.98E+09	2.18E+02
233	2428.8	800	4.10	8.6	16.0F	17.4F	4.51	2.22E+09	1.14E+02
234	2429.3	800	4.37	9.2	16.8F	18.7F	5.99	5.84E+09	3.17E+02
235	2429.5	800	4.68	9.8	26.6F	26.8F	0.50	2.82E+09	2.42E+02
236	2435.3	800	5.62	11.7	41.4F	42.5F	1.31	1.16E+09	1.55E+02
237	2435.7	800	4.86	10.2	65.8F	74.4F	6.44	9.16E+08	1.95E+02
238	2437.5	800	1.87	11.4	10.2F	11.2F			
239	2437.8	800	4.43	9.3	25.5F	25.7F	0.50	2.56E+09	2.10E+02
240	2438.3	800	4.14	10.3	27.4F	38.5F	20.61	3.09E+09	2.73E+02
241	2438.8	800	4.13	8.9	16.0F	16.3F	1.30	3.57E+09	1.84E+02
242	2439.5	800	4.79	10.0	26.3F	27.2F	1.72	2.49E+09	2.12E+02
243	2439.8	800	5.32	11.1	82.6F	109.F	15.48	7.15E+08	1.91E+02
244	2441.9	800	3.20	6.7	49.7F	51.3F	1.63	1.96E+09	3.15E+02
245	2442.3	800	3.13	6.8	3.59F	3.91F	5.08	2.78E+09	3.21E+01
246	2442.7	800	5.10	10.8	7.40F	7.54F	1.04	1.66E+10	3.96E+02
247	2443.4	800	6.47	14.4	46.6F	48.1F	1.68	6.69E+08	1.01E+02
248	2443.7		Failed Plug						
249	2444.5	800	6.65	13.9	31.3F	31.8F	0.79	2.27E+09	2.29E+02
250	2444.7	800	7.14	15.0	23.7F	25.2F	3.29	3.52E+09	2.69E+02

CORE LABORATORIES

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CL File No : 57151-17847
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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
251	2445.3	800	6.65	14.1	52.5F	67.2F	14.09	1.36E+09	2.30E+02
252	2445.8	800	6.94	14.7	28.3F	30.4F	3.71	2.66E+09	2.44E+02
253	2446.2	800	7.23	15.4	0.183	0.298	44.10	3.82E+11	2.20E+02
254	2446.7	800	7.25	15.3	0.172	0.276	41.99	1.26E+10	6.92E+00
255	2447.2	800	6.68	14.2	0.065	0.121	63.06	1.25E+12	2.58E+02
256	2447.7	800	6.41	13.7	0.026	0.064	113.21	1.08E+13	8.98E+02
257	2448.2	800	6.93	14.8	0.092	0.166	58.59	2.38E+12	6.93E+02
258	2448.6	800	7.04	15.1	0.160	0.258	42.92	3.59E+11	1.82E+02
259	2449.2	800	6.29	13.6	0.023	0.056	111.64	2.41E+13	1.77E+03
260	2449.5	800	5.14	10.9	40.1F	42.3F	2.77	1.61E+09	2.08E+02
261	2450.3								
262	2450.8	800	5.18	11.5	26.6F	26.7F	0.25	3.13E+09	2.68E+02
263	2451.2	800	4.19	9.2	20.9F	21.6F	1.88	4.39E+09	2.95E+02
264	2451.6	800	5.08	11.2	31.2F	31.8F	1.00	2.50E+09	2.52E+02
265	2452.2	800	5.19	11.1	0.027	0.052	73.50	3.73E+14	3.15E+04
266	2452.7	800	4.53	9.5	27.5F	27.8F	0.56	2.78E+09	2.46E+02
267	2454.9	800	5.70	12.0	13.1F	13.8F	2.70	4.54E+09	1.92E+02
268	2455.4	800	5.88	12.5	17.2F	18.1F	2.91	3.35E+09	1.86E+02
269	2455.8	800	6.59	13.9	24.2F	25.4F	2.58	1.51E+09	1.18E+02
270	2456.3	800	5.38	11.4	16.7F	17.3F	1.96	5.66E+09	3.04E+02
271	2456.9		Failed Plug						
272	2457.3	800	4.08	9.5	0.138	0.216	40.48	1.89E+12	8.26E+02
273	2457.7	800	3.74	9.7	0.131	0.215	46.39	1.14E+12	4.69E+02
274	2458.3	800	4.31	10.8	0.236	0.360	36.28	1.97E+12	1.47E+03
275	2458.6	800	3.03	12.1	671. F	731. F	4.06	1.98E+08	4.29E+02

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
276	2459.3	800	3.70	11.1	0.268	0.400	33.81	1.11E+12	9.44E+02
277	2459.8	800							
278	2460.8	800	3.44	7.3	0.015	0.032	90.77	4.60E+13	2.21E+03
279	2461.2	800	5.22	11.1	0.408	0.577	27.69	6.20E+11	8.05E+02
280	2461.5	800	6.46	13.8	1.653	2.098	16.38	4.03E+10	2.14E+02
281	2463.5	800	12.45	26.8	49.343	52.351	3.06	6.37E+08	1.02E+02
282	2465.4	800	11.01	23.4	13.926	15.443	5.85	4.57E+09	2.05E+02
283	2465.8	800	10.38	22.2	12.036	13.094	4.76	7.02E+09	2.72E+02
284	2466.2	800	6.15	16.8	0.009	0.015	51.16	6.78E+13	2.03E+03
285	2466.7	800	4.92	10.0	0.037	0.080	88.71	2.52E+12	2.96E+02
286	2467.3	800	5.51	11.8	0.065	0.129	72.87	3.62E+12	7.40E+02
287	2467.8	800	5.08	10.7	0.047	0.097	81.18	3.74E+12	5.57E+02
288	2468.4	800	5.11	10.9	0.039	0.084	90.62	1.16E+12	1.40E+02
289	2468.8	800	5.94	12.7	0.088	0.165	64.43	2.29E+12	6.27E+02
290	2469.3	800	4.95	10.5	0.031	0.067	93.99	1.71E+13	1.62E+03
291	2469.8	800	5.60	11.9	0.052	0.103	74.58	5.02E+11	8.08E+01
292	2470.2	800	5.37	11.3	0.055	0.109	74.09	1.74E+11	3.05E+01
293	2470.7	800	4.80	9.9	0.056	0.106	67.62	4.60E+12	8.00E+02
294	2471.3	800	5.17	11.0	0.040	0.082	83.08	9.49E+11	1.19E+02
295	2471.7	800	5.04	10.7	0.032	0.065	81.01	2.27E+14	2.28E+04
296	2472.5	800	5.21	10.9	0.030	0.057	69.62	6.21E+14	5.96E+04
297	2472.8	800	4.85	10.2	0.029	0.056	71.84	5.29E+14	4.88E+04
298	2473.3	800	4.06	8.5	0.016	0.030	72.69	3.39E+15	1.70E+05
299	2473.7	800	4.37	9.3	0.106	0.175	46.54	1.34E+12	4.50E+02
300	2474.3	800	3.86	8.0	0.005	0.010	101.00	6.23E+15	9.47E+04

CORE LABORATORIES

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301	2474.8	800	6.05	12.8	0.132	0.228	51.86	1.45E+12	6.07E+02
302	2475.2	800	5.19	10.9	0.087	0.153	56.11	2.85E+12	7.80E+02
303	2475.7	800	5.12	10.6	0.037	0.078	87.52	2.47E+13	2.85E+03
304	2476.2	800	5.34	11.1	0.046	0.095	81.59	3.05E+12	4.41E+02
305	2476.8	800	5.46	15.6	6.675	8.127	12.15	2.67E+10	5.75E+02
306	2477.2	800	6.84	14.7	1.415	1.903	21.13	2.76E+10	1.25E+02
307	2477.9	800	8.40	17.9	14.092	16.248	8.28	1.80E+08	8.20E+00
308	2478.2	800	6.12	12.9	1.699	2.020	11.57	4.00E+10	2.18E+02
309	2478.6	800	6.89	14.3	0.086	0.156	60.69	3.34E+11	9.01E+01
310	2479.2	800	4.83	17.5	3.631	4.550	14.80	1.96E+09	2.29E+01
311	2479.7	800	8.75	18.3	3.587	4.637	17.12	4.19E+09	4.84E+01
312	2480.3	800	9.19	19.7	9.930	12.079	11.94	3.59E+08	1.15E+01
313	2480.7	800	8.92	18.9	5.600	7.054	14.80	1.61E+09	2.91E+01
314	2481.2	800	8.63	18.1	2.497	3.341	20.21	8.61E+09	6.91E+01
315	2481.7	800	8.49	18.3	3.176	4.166	18.36	6.43E+09	6.58E+01
316	2482.3	800	9.55	20.2	5.630	7.162	15.51	1.66E+09	3.02E+01
317	2482.8	800	9.39	19.6	5.296	6.713	15.30	1.61E+09	2.74E+01
318	2483.2	800	9.52	19.9	4.540	5.860	16.78	2.77E+09	4.04E+01
319	2483.8	800	6.52	14.0	0.054	0.121	95.90	1.36E+11	2.29E+01
320	2484.3	800	6.75	14.1	0.064	0.136	85.91	6.68E+11	1.34E+02
321	2484.8	800	6.80	14.7	0.105	0.202	67.62	7.82E+10	2.60E+01
322	2485.2	800	5.50	11.4	0.022	0.042	74.92	2.48E+15	1.72E+05
323	2485.2	800	6.20	13.2	0.031	0.077	115.10	2.68E+13	2.64E+03
324	2486.2	800	5.79	12.0	23.4F	24.7F	2.88	3.18E+09	2.40E+02
325	2486.7	800	5.02	10.6	60.5F	71.1F	8.66	8.93E+08	1.75E+02

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
326	2487.3	800	6.06	12.8	25.6F	26.4F	1.51	2.71E+09	2.25E+02
327	2487.9	800	6.47	13.1	20.4F	20.8F	0.99	2.74E+09	1.80E+02
328	2488.2	800	6.60	13.3	17.0F	18.7F	5.27	1.67E+09	9.17E+01
329	2488.7	800	5.75	11.5	25.5F	27.0F	3.24	3.41E+09	2.81E+02
330	2489.3	800	4.29	10.1	27.6F	32.0F	8.22	2.86E+09	2.54E+02
331	2490.2	800	9.83	20.3	26.8F	30.9F	8.11	3.73E+08	3.22E+01
332	2490.6	800	6.35	12.8	46.4F	62.1F	17.15	1.09E+09	1.63E+02
333	2491.1	800	7.90	15.9	17.4F	17.7F	0.90	3.41E+09	1.91E+02
334	2492.8	800	5.58	11.2	21.7F	22.7F	2.47	3.84E+09	2.69E+02
335	2493.2	Failed Plug							
336	2493.8	800	5.10	9.9	7.38F	7.73F	2.67	1.51E+10	3.57E+02
337	2494.3	800	6.06	12.2	20.3F	22.1F	4.65	2.02E+09	1.32E+02
338	2494.8	800	5.61	11.2	18.6F	20.2F	4.68	2.04E+09	1.23E+02
339	2495.4								
340	2495.8	800	5.60	11.3	13.4F	14.7F	5.51	2.54E+09	1.09E+02
341	2496.8	800	8.16	16.4	17.0F	17.8F	2.45	3.69E+09	2.03E+02
342	2497.5	800	4.97	14.5	16.6F	16.9F	0.86	4.68E+09	2.50E+02
343	2497.7	800	6.16	12.3	0.012	0.028	103.20	1.99E+15	7.85E+04
344	2498.1	800	6.31	12.8	14.2F	15.7F	5.66	2.08E+09	9.52E+01
345	2498.5	800	6.39	13.0	0.021	0.052	125.65	1.66E+14	1.08E+04
346	2506.2	800	7.06	14.6	0.051	0.102	76.85	5.01E+12	8.08E+02
347	2506.7	800	6.65	13.7	0.042	0.093	91.90	8.28E+12	1.11E+03
348	2507.3	800	6.86	13.9	0.065	0.125	68.55	1.52E+12	3.14E+02
349	2507.7	800	6.93	14.3	0.061	0.119	71.63	5.43E+12	1.05E+03
350	2508.3	800	7.09	14.6	0.602	0.690	9.46	6.51E+12	1.25E+04

CORE LABORATORIES

Company : ANADARKO
 Well : Cornell University Project
 Field :
 County : Morton County, Kansas

CL File No : 57151-17847
 Date : 28-Feb-94
 Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
351	2508.6	800	5.68	11.3	0.028	0.043	42.19	2.11E+13	1.88E+03
352	2509.2	800	6.25	12.5	35.7F	36.1F	0.65	1.52E+09	1.74E+02
353	2509.7	800	7.87	15.9	0.065	0.137	83.88	4.64E+12	9.54E+02
354	2510.2	800	9.78	20.5	2.850	3.672	16.97	9.18E+09	8.43E+01
355	2510.7	800	10.41	21.5	22.107	25.499	8.01	1.00E+08	7.14E+00
356	2511.4	800	7.08	14.4	0.245	0.285	11.28	5.82E+10	4.57E+01
357	2511.8	800	6.32	12.8	0.346	0.480	25.92	2.46E+12	2.71E+03
358	2512.2	800	8.63	17.7	6.212	7.394	10.63	1.85E+09	3.71E+01
359	2512.8	800	6.41	13.0	0.165	0.242	32.81	6.73E+11	3.54E+02
360	2513.2	800	5.49	11.0	1.318	1.522	9.50	2.02E+11	8.55E+02
361	2513.6	800	5.88	12.0	0.436	0.586	22.66	2.26E+12	3.14E+03
362	2514.2	800	4.85	9.9	5.050	5.293	2.71	5.24E+10	8.53E+02
363	2514.6	800	9.13	18.8	31.418	34.668	5.36	1.56E+08	1.58E+01
364	2515.2	800	9.53	19.5	70.0F	78.8F	6.15	9.59E+07	2.16E+01
365	2515.6	800	6.02	12.3	1.688	2.074	13.83	8.27E+10	4.48E+02
366	2516.3	800	8.05	16.4	53.8F	58.5F	4.31	1.38E+08	2.41E+01
367	2516.8	800	6.23	12.9	0.365	0.486	22.28	6.24E+12	7.24E+03
368	2517.3	800	5.11	10.4	0.080	0.153	68.24	1.47E+12	3.69E+02
369	2517.8	800	6.98	14.2	6.028	7.123	10.31	1.71E+09	3.33E+01
370	2518.3	800	7.63	15.5	12.403	14.176	7.79	6.92E+08	2.77E+01
371	2518.8	800	4.69	9.5	0.038	0.076	77.38	2.05E+13	2.46E+03
372	2519.3	800	6.31	12.9	0.821	1.071	19.56	4.63E+11	1.22E+03
373	2519.9								
374	2520.3	800	5.06	10.3	0.086	0.151	55.44	1.59E+12	4.35E+02
375	2520.8	800	5.69	11.4	0.217	0.335	37.83	4.00E+11	2.77E+02

CORE LABORATORIES

Company : ANADARKO
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 County : Morton County, Kansas

CL File No : 57151-17847
 Date : 28-Feb-94
 Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
376	2521.3	800	5.61	11.3	0.331	0.484	31.33	8.84E+11	9.34E+02
377	2521.9	800	5.44	11.1	0.163	0.261	42.61	9.55E+11	4.96E+02
378	2522.3	800	5.31	10.8	0.138	0.223	44.66	4.80E+11	2.10E+02
379	2522.8	800	4.63	9.3	0.057	0.103	62.33	6.24E+12	1.12E+03
380	2523.5	800	3.70	7.4	0.023	0.038	53.05	2.39E+15	1.71E+05
381	2523.9	800	4.74	9.5	0.114	0.191	49.41	9.06E+09	3.25E+00
382	2524.3	800	5.35	10.7	0.132	0.221	48.47	1.44E+11	6.05E+01
383	2524.8	800	5.89	11.9	0.211	0.337	41.76	3.42E+11	2.29E+02
384	2525.5	800	5.57	11.2	0.156	0.250	42.92	7.00E+10	3.47E+01
385	2525.7	800	5.02	10.0	0.046	0.082	60.38	8.59E+12	1.25E+03
386	2526.3								
387	2526.7	800	3.61	7.2	0.024	0.050	91.51	6.12E+13	4.54E+03
388	2527.3	800	5.96	12.2	0.369	0.542	31.70	6.47E+11	7.59E+02
389	2527.8	800	5.93	11.9	0.350	0.475	24.26	5.04E+12	5.63E+03
390	2528.3	800	5.71	11.6	0.169	0.278	45.86	5.11E+11	2.74E+02
391	2528.8	800	5.45	11.1	0.118	0.198	48.61	1.81E+12	6.80E+02
392	2529.3	800	6.09	12.4	0.348	0.439	17.79	9.94E+12	1.09E+04
393	2529.7	800	4.86	9.9	0.039	0.077	76.19	2.19E+13	2.67E+03
394	2530.3	800	3.91	7.9	0.030	0.062	82.00	1.22E+14	1.16E+04
395	2530.8	800	5.23	10.7	0.119	0.193	45.34	1.60E+12	6.06E+02
396	2531.4	800	5.58	11.3	0.425	0.567	22.32	7.62E+11	1.03E+03
397	2531.8	800	5.69	11.8	0.598	0.799	21.93	2.11E+11	4.02E+02
398	2532.3	800	6.01	12.3	0.424	0.603	28.22	6.40E+11	8.62E+02
399	2532.8	800	7.11	14.6	2.299	2.950	17.02	1.48E+10	1.09E+02
400	2533.2	800	5.81	11.9	0.900	1.203	21.44	1.00E+11	2.89E+02

CORE LABORATORIES

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County : Morton County, Kansas

CL File No : 57151-17847
Date : 28-Feb-94
Analyst : MRL/JW/MK

Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
401	2533.7	800	6.46	13.1	0.942	1.267	21.96	1.13E+11	3.39E+02
402	2534.3	800	5.63	11.4	0.277	0.392	28.56	6.38E+12	5.61E+03
403	2534.7	800	4.73	9.7	0.082	0.141	54.28	3.91E+12	1.02E+03
404	2535.3	800	3.85	7.8	0.023	0.040	58.90	1.77E+15	1.28E+05
405	2535.8	800	6.29	12.8	1.200	1.582	19.97	6.39E+10	2.45E+02
406	2536.5	800	6.14	12.6	0.894	1.227	23.76	1.09E+11	3.11E+02
407	2536.8	800	5.59	11.3	0.524	0.721	24.91	7.62E+11	1.27E+03
408	2537.3	800	5.87	11.9	0.554	0.798	28.93	3.27E+11	5.79E+02
409	2537.7	800	6.18	12.5	0.546	0.790	29.39	3.82E+11	6.68E+02
410	2538.3	800	6.18	12.7	0.358	0.543	34.96	9.35E+11	1.07E+03
411	2538.7	800	5.17	10.5	0.121	0.210	53.12	6.60E+11	2.53E+02
411A	2538.9	800	5.16	10.3	0.113	0.192	51.06	2.32E+11	8.29E+01
412	2539.4	800	5.87	11.9	0.400	0.584	30.83	6.59E+11	8.45E+02
413	2539.8	800	5.15	10.4	0.140	0.232	47.27	9.60E+11	4.27E+02
414	2540.3	800	4.72	9.6	0.082	0.145	56.76	3.09E+12	7.99E+02
415	2540.7	800	4.98	10.1	0.102	0.175	52.45	2.10E+12	6.81E+02
416	2541.3	800	5.28	10.7	0.140	0.229	45.61	1.37E+12	6.00E+02
417	2541.7	800	5.07	10.3	0.122	0.211	52.11	4.42E+11	1.70E+02
418	2542.3	800	5.26	10.6	0.142	0.237	47.77	1.22E+12	5.56E+02
419	2542.7	800	4.85	9.7	0.070	0.126	60.25	4.90E+12	1.06E+03
420	2543.3	800	5.02	10.0	0.056	0.108	70.69	1.88E+10	3.27E+00
421	2543.8	800	5.40	10.8	0.143	0.229	43.29	1.31E+12	5.91E+02
422	2544.3	800	4.87	9.8	0.071	0.127	58.61	4.19E+12	9.51E+02
423	2544.6	800	4.16	8.5	0.034	0.067	77.31	8.06E+13	8.46E+03
424	2545.2	800	5.10	10.3	0.070	0.130	64.68	3.54E+12	7.74E+02

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
425	2545.7	800	5.49	11.0	0.200	0.303	36.25	3.72E+11	2.34E+02
426	2546.2	800	4.38	8.8	0.034	0.068	79.71	8.48E+13	8.84E+03
427	2546.7	800	3.67	7.4	0.019	0.034	67.01	1.97E+15	1.15E+05
428	2547.2	800	2.36	4.7	0.002	0.005	111.59	8.54E+16	6.10E+05
429	2547.9	800	2.38	4.8	0.005	0.008	62.67	8.42E+16	1.21E+06
430	2548.3	800	1.57	3.2	<0.001				
431	2548.7	800	1.51	3.0	<0.001				
432	2549.3	800	1.93	3.8	0.001	0.002	237.52	2.45E+16	4.98E+04
433	2549.8	800	1.90	3.8	0.001	0.002	196.27	2.90E+16	6.09E+04
434	2550.3	Permeability less than .001 md							
435	2550.7	Permeability less than .001 md							
436	2551.3	Permeability less than .001 md							
437	2551.7	Permeability less than .001 md							
438	2552.3	800	2.13	4.2	0.048	0.073			
439	2552.8	800	2.01	3.9	<0.001				
440	2553.2	800	2.08	4.1	<0.001				
441	2553.7	800	2.28	4.5	<0.001				
442	2554.3	800	2.00	4.0	<0.001				
443	2554.7	800	2.39	4.7	<0.001				
444	2555.3	800	2.10	4.1	<0.001				
445	2555.7	800	2.44	4.8	<0.001				
446	2556.2	800	2.48	4.8	<0.001				
447	2556.8	800	2.40	4.7	<0.001				
448	2557.3								
449	2557.8	800	2.21	4.3	0.002	0.005			

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
450	2558.3	Permeability less than .001 md							
451	2558.8	Permeability less than .001 md							
452	2559.3	Permeability less than .001 md							
453	2559.7	800	2.24	4.5	8.88F	9.06F	1.13	9.12E+09	2.61E+02
454	2560.2								
455	2560.8								
456	2561.3								
457	2561.9	800	2.59	5.2	10.8F	11.0F	0.93	7.66E+09	2.68E+02
458	2562.2	800	2.26	4.5	11.5F	11.7F	1.00	8.26E+09	3.07E+02
459	2562.7	800	1.80	3.6	8.70F	8.81F	0.73	1.12E+10	3.15E+02
460	2563.2	300	1.72	3.5	9.56F	9.63F	0.41	1.15E+10	3.54E+02
461	2563.8	800	3.79	7.7	0.014	0.030	95.05	7.05E+14	3.10E+04
462	2564.3	800	5.65	11.3	0.098	0.182	62.90	1.03E+12	3.17E+02
463	2564.8	800	5.37	10.9	0.149	0.255	50.54	9.53E+11	4.47E+02
464	2565.3	800	6.59	13.2	0.461	0.706	35.28	6.63E+11	9.70E+02
465	2565.8	800	6.44	13.0	0.592	0.876	31.33	3.50E+11	6.60E+02
466	2566.4	800	6.40	12.8	0.553	0.820	31.78	3.97E+11	6.96E+02
467	2566.8	800	6.03	12.3	0.414	0.628	34.52	7.04E+11	9.25E+02
468	2567.3	800	4.59	9.2	0.083	0.148	58.61	3.41E+12	8.86E+02
469	2567.8	800	5.41	10.9	0.350	0.473	23.70	7.02E+12	7.80E+03
470	2568.3	800	4.20	8.4	0.031	0.066	90.33	2.61E+13	2.51E+03
471	2568.8	800	3.70	7.4	0.023	0.045	80.71	5.15E+14	3.61E+04
472	2569.3	800	2.38	4.8	0.005	0.010	107.47	3.52E+14	4.98E+03
473	2569.9	800	2.12	4.2	0.002	0.005	97.61		
474	2570.3	800	2.11	4.3	0.004	0.009	112.26	3.23E+14	3.99E+03

CORE LABORATORIES

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Sample Number	Depth ft	NOB Pressure psig	Pore Volume cc	Porosity %	Kinf md	Kair(est) md	b(He) psi	BETA ft(-1)	ALPHA microns
475	2570.7	800	2.87	5.8	0.009	0.018	81.71	2.17E+15	6.34E+04
476	2571.3	800	2.99	6.1	0.013	0.024	74.59	9.45E+14	3.78E+04
477	2571.8	800	3.16	6.5	0.013	0.026	85.43	1.19E+15	4.76E+04
478	2572.3	800	4.76	9.7	0.021	0.046	93.21	3.25E+13	2.17E+03
479	2572.7	800	4.81	9.8	13.379	13.661	1.13	5.64E+09	2.44E+02
480	2573.2	800	5.51	11.1	14.706	14.842	0.49	6.87E+09	3.26E+02
481	2573.9	800	6.05	12.3	23.1F	23.9F	1.89	3.12E+09	2.32E+02
482	2574.2	800	5.60	11.4	14.141	14.406	1.00	6.51E+09	2.97E+02
483	2574.6	800	5.98	11.7	308. F	369. F	9.05	3.15E+08	3.13E+02
484	2575.1	800	5.40	10.9	15.544	15.706	0.55	6.20E+09	3.11E+02
485	2575.7	800	6.79	13.8	18.044	18.556	1.50	4.75E+09	2.77E+02
486	2576.4	800	4.59	9.4	0.034	0.075	96.66	1.19E+13	1.24E+03
487	2576.8	800	5.34	11.0	0.037	0.078	84.79	9.42E+13	1.10E+04
488	2577.3	800	4.93	10.9	0.021	0.049	108.02	4.43E+14	2.91E+04
489	2577.8	800	4.64	9.6	0.014	0.034	121.41	7.36E+14	3.21E+04
490	2578.3	800	4.85	9.6	0.020	0.047	112.31	1.81E+14	1.12E+04
491	2578.7	800	5.16	10.6	0.040	0.086	89.19	1.06E+13	1.34E+03
492	2579.3	800	4.97	10.2	0.028	0.063	100.22	1.08E+13	9.47E+02
493	2579.8	800	4.54	9.3	0.009	0.025	155.74	9.04E+13	2.53E+03
494	2580.3	800	4.03	8.2	0.005	0.013	127.88	6.71E+13	1.15E+03
495	2580.8	800	4.19	8.6	0.006	0.017	157.24	1.96E+14	3.74E+03
496	2581.2	800	3.88	7.8	0.004	0.010	129.43	1.44E+14	1.93E+03
497	2581.6	800	4.07	8.3	0.037	0.043	12.25	6.14E+12	7.12E+02

NOTE: "F" denotes fractured plug.

APPENDIX B: REPORT DISTRIBUTION

ANADARKO
CORNELL UNIVERSITY PROJECT
MORTON COUNTY, KANSAS
CL FILE NO. 57151-17847

3 cc Anadarko Petroleum
17001 Northchase Drive
Houston, Texas 77060

Attn: Mr. Ray Sorenson

27-10-1994

TOTAL CORE GAMMA

ANADARKO PETROLEUM CORP.

Cornell University Project

Kansas

Cores 8 and 9

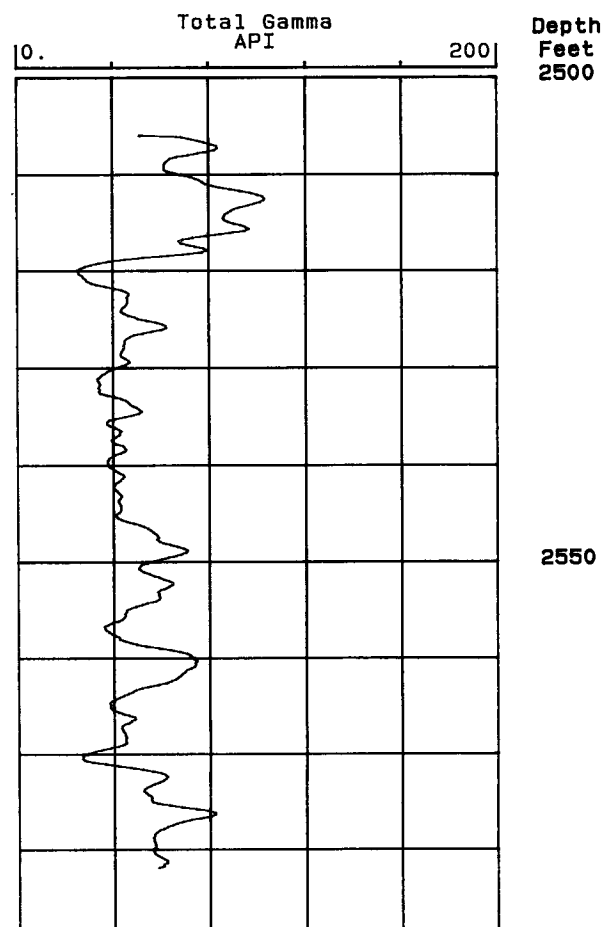
CL File No.: 57151-17847

Core Laboratories

27-Jan-1994

Vertical Scale

5.00 in = 100.0 ft



APPENDIX A: LIST OF PROJECT ANALYSTS and PERSONNEL

PETROLEUM SERVICES MANAGER	FEDERICA M. CURBY
LABORATORY SUPERVISOR	MICHAEL R. LONG
SENIOR PROJECT ANALYST	JOSEPH A. WEIR
TECHNICAL SALES REPRESENTATIVE	DAVE MARSCHALL

OTHER PERSONNEL

ANALYST	MIKE KOSTER
SECRETARIAL	JANET PUFFER

TOTAL CORE GAMMA

ANADARKO PETROLEUM CORP.
Cornell University Project
Kansas

Vertical Scale
5.00 in = 100.0 ft

Cores 1 through 7
CL File No.: 57151-17847
Core Laboratories 27-Jan-1994

