

CORE ANALYSIS REPORT
FOR
EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222
AVALON FIELD
EDDY COUNTY, NEW MEXICO

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CORE LABORATORIES

EXXON COMPANY, U.S.A.
 AVALON DELAWARE UNIT 222
 1452' FHL & 1665' FNL, SEC. 30, T-20-S, R-28-E
 EDDY COUNTY, NEW MEXICO

Field : AVALON FIELD
 Formation : GOAT SEEP/DELAWARE
 Coring Fluid : WATER BASE MUD
 Elevation : 3299' GL

File No.: 57181-17438
 Date : 5-15-96
 API No.: 30-015-286580
 Analysts: OLSON

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft.	PERMEABILITY (HORIZONTAL) K_{air} md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(OIL % WATER %)			

PLUG ANALYSIS

GOAT SEEP FORMATION

CORE NO. 1 2482.0-2542.0 CUT 60' REC 60.2'							
1	2482.2	0.08	5.2	0.0	111.8	2.84	Dol anhy gyp
2	2483.2	0.09	6.6	0.0	122.2	2.85	Dol anhy gyp
3	2484.2	0.04	5.7	0.0	94.4	2.84	Dol gyp sli/anhy styl
4	2485.2	0.13	8.1	0.0	110.1	2.84	Dol gyp sli/anhy
5	2486.2	0.05	4.3	0.0	122.8	2.87	Dol anhy gyp frac p.p.
6	2487.2	0.13	7.4	0.0	114.9	2.86	Dol gyp sli/anhy sli/frac
7	2488.2	0.10	1.8	0.0	101.3	2.84	Dol anhy gyp
8	2489.2	0.02	3.8	0.0	95.1	2.86	Dol anhy gyp
9	2490.2	0.04	4.3	0.0	108.8	2.88	Dol anhy gyp
10	2491.2	0.05	6.5	0.0	93.4	2.84	Dol sli/anhy styl
11	2492.2	0.04	6.1	0.0	95.7	2.85	Dol sli/anhy p.p.
12	2493.2	<.01	3.0	0.0	82.9	2.85	Dol sli/anhy sli/frac
13	2494.2	0.05	4.0	0.0	92.5	2.84	Dol sli/anhy p.p.
14	2495.2	0.06	5.6	0.0	107.4	2.87	Dol anhy gyp sli/frac
15	2496.2	0.01	4.8	0.0	93.5	2.85	Dol sli/anhy frac styl
16	2497.2	0.03	2.2	0.0	86.7	2.84	Dol p.p. styl
17	2498.2	0.02	3.2	0.0	98.0	2.88	Dol anhy styl
18	2499.2	0.01	3.4	0.0	88.8	2.86	Dol anhy p.p.
19	2500.2	0.01	3.6	0.0	86.4	2.87	Dol anhy p.p.

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C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %		
20	2501.2	0.02	3.6	0.0	91.9	2.87	Dol anhy sli/frac p.p.
21	2502.2	0.02	3.5	0.0	88.1	2.89	Dol anhy
22	2503.2	0.07	4.6	0.0	109.6	2.90	Dol anhy gyp sli/frac
23	2504.2	0.06	6.3	0.0	103.4	2.85	Dol anhy gyp sli/frac
24	2505.2	0.29	5.7	0.0	103.4	2.84	Dol gyp sli/anhy sli/frac
25	2506.2	0.02	2.5	0.0	93.3	2.89	Dol anhy sli/frac
26	2507.2	0.02	4.5	0.0	91.7	2.88	Dol anhy
27	2508.2	0.01	2.9	0.0	91.3	2.87	Dol anhy sli/frac
28	2509.2	0.04	4.4	0.0	101.5	2.89	Dol anhy gyp sli/frac
29	2510.2	0.02	3.6	0.0	99.0	2.87	Dol anhy gyp sli/frac
30	2511.2	0.08	5.5	0.0	103.1	2.87	Dol anhy gyp sli/frac
31	2512.2	0.02	4.9	0.0	107.6	2.84	Dol gyp sli/anhy sli/frac foss
32	2513.2	0.02	4.9	0.0	101.8	2.84	Dol gyp sli/anhy sli/frac foss
33	2514.2	0.01	3.8	0.0	94.9	2.88	Dol anhy gyp
34	2515.2	0.01	3.5	0.0	101.1	2.84	Dol gyp sli/anhy p.p. foss
35	2516.2	0.03	4.8	0.0	98.2	2.89	Dol anhy gyp foss
36	2517.2	0.05	7.3	0.0	100.5	2.86	Dol gyp sli/anhy
37	2518.2	0.01	1.6	0.0	92.1	2.94	Dol anhy
38	2519.2	0.02	4.1	0.0	98.9	2.88	Dol anhy
39	2520.2	0.02	2.1	0.0	87.5	2.84	Dol sli/anhy p.p.
40	2521.2	0.01	3.2	0.0	87.3	2.87	Dol anhy
41	2522.2	<.01	2.3	0.0	77.5	2.95	Anhy dol
42	2523.2	<.01	3.2	0.0	82.8	2.86	Dol anhy
43	2524.2	0.01	2.9	0.0	81.3	2.89	Dol v/anhy
44	2525.2	0.01	3.4	0.0	83.5	2.88	Dol anhy sli/frac
45	2526.2	0.01	4.5	0.0	82.6	2.85	Dol sli/anhy
46	2527.2	0.01	2.3	0.0	78.7	2.90	Dol v/anhy
47	2528.2	0.01	2.6	0.0	86.1	2.87	Dol anhy
48	2529.2	<.01	3.3	0.0	82.7	2.86	Dol anhy p.p.

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C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %		
49	2530.2	0.02	7.4	0.0	83.8	2.84	Dol sli/anhy sli/slty styl
50	2531.2	0.03	7.7	0.0	83.9	2.85	Dol sli/anhy sli/slty styl
DELAWARE FORMATION							
51	2532.2	0.05	8.7	0.0	80.9	2.74	Sd lt-gry vfgr, dol sli/pyr
52	2533.2	0.02	8.4	0.0	84.3	2.70	Sd lt-gry vfgr, sli/dol
53	2534.2	0.06	8.9	0.0	84.4	2.70	Sd lt-gry vfgr, sli/dol
54	2535.2	0.08	9.3	0.0	83.4	2.70	Sd lt-gry vfgr, pyr sli/dol
55	2536.2	0.05	9.0	0.0	82.8	2.70	Sd lt-gry vfgr, pyr sli/dol
56	2537.2	0.06	8.5	0.0	80.1	2.71	Sd lt-gry vfgr, pyr sli/dol
57	2538.2	0.05	8.1	0.0	83.8	2.69	Sd lt-gry vfgr, pyr sli/dol
58	2539.2	0.06	7.7	0.0	83.9	2.70	Sd lt-gry vfgr, pyr sli/dol
59	2540.2	0.01	3.1	0.0	86.1	3.37	Pyr sdy sli/dol
60	2541.2	0.06	6.8	0.0	75.5	2.71	Sd lt-gry vfgr, pyr sli/dol
CORE NO. 2 2542.0-2584.0 CUT 42' REC 42.5'							
61	2542.2	0.12	7.6	0.0	83.2	2.73	Sd gry slt-vfgr, ool
62	2543.2	0.02	6.1	0.0	83.0	2.83	Sd gry slt-vfgr, dol pyr
63	2544.2	0.04	7.4	0.0	82.3	2.83	Sd gry slt-vfgr, dol
64	2545.2	0.03	5.9	0.0	82.7	2.83	Sd gry slt-vfgr, dol
65	2546.2	0.01	3.2	0.0	90.0	2.85	Dol sli/anhy sli/slty sli/frac
66	2547.2	<.01	2.6	0.0	97.9	2.84	Dol sli/anhy sli/slty
67	2548.2	<.01	0.8	0.0	96.1	2.86	Dol anhy
68	2549.2	<.01	1.7	0.0	95.7	2.84	Dol sli/anhy sli/slty
69	2550.2	0.23	9.8	23.9	35.5	2.82	Dol sdy slty sli/anhy
70	2551.2	0.91	11.3	28.0	33.4	2.82	Dol sdy slty lam
71	2552.2	0.40	11.5	26.5	73.3	2.82	Dol gyp sli/anhy

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SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K _{air} md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE OIL) %	(VOLUME WATER) %		
72	2553.2	0.26	10.1	25.8	40.1	2.80	Do1 sli/anhylam
73	2554.2	0.43	15.4	8.8	65.6	2.99	Do1 pyr v/anhyl
74	2555.2	<.01	4.6	16.2	65.0	2.85	Do1 anhy
75	2556.2	<.01	1.6	9.3	85.5	2.79	Do1 v/anhyl
76	2557.2	0.03	8.1	5.8	75.5	2.78	Do1 sli/anhylstyl
77	2558.2	0.07	9.9	3.9	76.9	2.80	Do1 styl
78	2559.2	0.11	11.1	8.8	78.5	2.79	Do1 anhy
79	2560.2	0.04	9.7	4.2	77.5	2.79	Do1 sli/anhyl
80	2561.2	0.01	7.0	2.5	77.7	2.77	Do1 styl
81	2562.2	0.02	8.1	0.0	87.7	2.79	Do1 anhy
82	2563.2	0.03	5.9	0.0	80.0	2.80	Do1
83	2564.2	<.01	3.4	0.0	88.1	2.78	Do1 sli/sdy sli/anhylam
84	2565.2	0.05	11.1	0.0	86.4	2.80	Do1
85	2566.2	0.16	13.2	0.0	83.0	2.80	Do1
86	2567.2	0.19	15.9	5.8	83.2	2.77	Do1 sli/sdy
87	2568.2	0.17	14.0	2.8	96.3	2.85	Do1 sli/shylsl/gyp lam
88	2569.2	0.01	3.8	0.0	82.7	2.80	Do1 anhy sli/sdy sli/shyl
89	2570.2	0.17	10.2	6.6	70.9	2.84	Do1 sli/anhyl
90	2571.2	0.32	15.0	28.1	60.7	2.84	Do1
91	2572.2	0.43	14.5	26.3	48.6	2.82	Do1
92	2573.2	0.01	6.8	9.5	76.5	2.82	Do1 anhy
93	2574.2	<.01	4.5	5.6	76.1	2.82	Do1
94	2575.2	0.25	18.2	14.8	65.0	2.81	Do1
95	2576.2	0.10	14.2	10.3	73.4	2.80	Do1
96	2577.2	0.01	6.2	1.5	89.6	2.72	Do1 sli/sdy sli/anhylsl/shyl
97	2578.2	0.02	9.9	11.4	70.4	2.78	Do1 sli/sdy
98	2579.2	<.01	5.5	0.0	85.8	2.74	Do1 sli/sdy styl
99	2580.2	0.01	6.1	0.0	83.1	2.74	Do1 sli/sdy sli/anhyl
100	2581.2	0.02	10.0	12.3	68.4	2.84	Do1 styl

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(OIL %)	(PORE VOLUME) WATER %		
101	2582.2	0.09	11.4	0.0	82.0	2.83	Do1
102	2583.2	0.02	6.8	0.0	85.9	2.78	Do1 anhy sli/sdy
CORE NO. 3 2584.0-2600.0 CUT 16' REC 16'							
103	2584.1	0.01	5.5	0.0	85.8	2.75	Do1 sli/anhy
104	2585.2	<.01	5.6	3.0	76.9	2.77	Do1 sli/sdy
105	2586.2	0.14	11.7	12.3	54.5	2.84	Do1
106	2587.2	0.14	13.8	13.5	65.0	2.81	Do1
107	2588.1	0.07	11.3	15.4	64.8	2.80	Do1
108	2589.2	0.29	15.1	27.6	62.0	2.83	Do1
109	2590.2	0.47	17.7	25.0	59.3	2.82	Do1
110	2591.2	0.40	17.0	5.3	70.5	2.83	Do1
111	2592.1	0.01	10.4	0.0	87.4	2.70	Do1 cht
112	2593.1	<.01	5.1	0.0	80.4	2.84	Do1 sli/anhy
113	2594.1	0.03	10.9	0.0	87.6	2.82	Do1 sli/sdy
114	2595.1	0.14	13.0	11.3	70.3	2.79	Do1 sli/sdy
115	2596.2	0.17	11.8	18.1	52.9	2.81	Do1 sli/sdy
116	2597.2	0.06	9.4	0.0	86.5	2.83	Do1 sli/sdy
117	2598.2	<.01	6.2	0.0	92.1	2.70	Do1 sdy
118	2599.2	0.30	15.2	16.7	71.9	2.78	Do1 sli/sdy
CORE NO. 4 2600.0-2630.0 CUT 30' REC 30.6'							
119	2600.1	<.01	2.8	0.0	73.2	2.79	Do1 sli/cht
120	2601.2	0.11	10.7	5.8	57.2	2.83	Do1
121	2602.2	0.19	14.1	21.0	70.3	2.82	Do1
122	2603.3	0.17	11.4	1.5	77.5	2.85	Do1
123	2604.2	0.09	12.6	0.9	81.6	2.82	Do1

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SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %		
124	2605.2	0.01	2.4	0.0	84.6	2.82	DoI
125	2606.3	<.01	4.8	0.0	82.1	2.93	DoI
126	2607.3	0.01	4.9	0.5	79.1	2.86	DoI sli/any
127	2608.2	0.01	3.6	0.0	76.8	2.87	DoI sli/any
128	2609.2	<.01	1.5	0.0	77.5	2.88	DoI any
129	2610.2	<.01	3.0	0.0	87.1	2.81	DoI
130	2611.2	<.01	4.0	0.0	85.0	2.83	DoI
131	2612.2	<.01	3.6	0.0	83.5	2.80	DoI
132	2613.1	0.01	2.8	0.0	84.4	2.73	DoI cht sli/any
133	2614.2	0.01	3.3	0.0	89.9	2.76	Sd gry vfgr, sli/doI
134	2615.2	<.01	2.6	0.0	73.9	2.79	Sd gry vfgr, sli/doI
135	2616.2	<.01	2.0	0.0	88.0	2.77	Sd gry vfgr, sli/doI
136	2617.2	<.01	2.2	0.0	81.2	2.77	Sd gry vfgr, sli/doI
137	2618.2	<.01	2.5	0.0	84.1	2.76	Sd gry vfgr, sli/doI
138	2619.3	<.01	2.4	0.0	81.0	2.77	Sd gry vfgr, sli/doI
139	2620.2	0.01	3.4	0.0	83.4	2.75	Sd gry vfgr, sli/doI
140	2621.2	0.02	6.7	8.8	73.1	2.72	Sd gry vfgr, sli/doI
141	2622.2	0.01	8.0	12.9	58.4	2.71	Sd gry vfgr, sli/doI
142	2623.2	0.03	8.0	10.3	60.6	2.71	Sd gry vfgr, sli/doI
143	2624.2	0.04	9.2	16.8	57.9	2.70	Sd gry vfgr, sli/doI
144	2625.2	0.10	8.6	16.7	73.3	2.70	Sd gry vfgr, sli/doI
145	2626.3	0.19	11.1	15.7	50.9	2.69	Sd gry vfgr, sli/doI
146	2627.2	0.02	4.5	8.7	68.5	2.73	Sd gry vfgr, sli/doI
147	2628.2	0.01	2.2	0.0	80.4	2.76	Sd gry vfgr, sli/doI
148	2629.2	0.01	7.3	0.0	89.1	2.75	Sd gry vfgr, sli/doI
149	2630.3	0.01	4.8	0.0	76.7	2.84	DoI sli/sdy

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SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	OIL SATURATION (PORE VOLUME) %	SPONGE OIL %	SPONGE OIL + CORE OIL %	WATER SATURATION (PORE VOLUME) %	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md							

FULL DIAMETER ANALYSIS

DELAWARE FORMATION

CORE NO. 5 2631.0-2660.0 CUT 29' REC 29'

150	2631.0- 32.0	0.03	<.01	4.2	2.72	0.0	0.0	0.0	91.8	Sd gry vfgr
151	2632.0- 33.0	0.03	<.01	3.6	2.73	0.0	0.0	0.0	89.3	Sd gry vfgr, lam
152	2633.0- 34.0	<.01	<.01	3.1	2.76	0.0	0.3	0.3	88.5	Sd gry vfgr, v/dol sli/anhy
153	2634.0- 35.0	0.02	<.01	3.0	2.78	0.0	0.4	0.4	87.9	Sd gry vfgr, anhy v/dol sli/shy vert/frac
154	2635.0- 36.0	0.03	<.01	2.6	2.81	0.0	0.0	0.0	88.9	Sd gry vfgr, v/dol sli/anhy foss sty1
155	2636.0- 37.0	0.01	<.01	3.4	2.80	0.0	0.0	0.0	88.6	Sd gry vfgr, v/dol sli/anhy
156	2637.0- 38.0	0.02	0.02	3.6	2.80	0.0	0.0	0.0	82.9	Dol v/sdy sli/anhy sli/shy vert/frac
157	2638.0- 39.0	0.04	0.04	1.8	2.80	0.0	0.0	0.0	90.1	Sd gry vfgr, v/dol sli/anhy sli/shy foss
158	2639.0- 40.0	0.02	0.01	2.3	2.76	0.0	0.0	0.0	84.5	Sd gry vfgr, sli/dol foss
159	2640.0- 41.0	0.14	0.11	4.1	2.75	0.0	0.2	0.2	81.7	Sd gry vfgr, vert/frac
160	2641.0- 42.0	0.19	0.15	3.2	2.76	0.0	0.0	0.0	81.4	Sd gry vfgr, lam
161	2642.0- 43.0	0.13	0.13	2.7	2.77	0.0	0.0	0.0	84.7	Sd gry vfgr, lam
162	2643.0- 44.0	0.12	0.11	2.1	2.79	0.0	0.0	0.0	86.6	Sd gry vfgr, lam
163	2644.0- 45.0	0.08	0.08	2.2	2.78	0.0	0.6	0.6	84.9	Sd gry vfgr, sli/dol sli/anhy vert/frac
164	2645.0- 46.0	0.17	0.15	4.1	2.75	0.0	0.5	0.5	81.2	Sd gry vfgr, lam
165	2646.0- 47.0	0.16	0.13	4.3	2.75	0.0	0.0	0.0	85.6	Sd gry vfgr, sli/anhy lam
166	2647.0- 48.0	0.29	0.04	4.7	2.75	0.0	0.0	0.0	89.1	Sd gry vfgr, sli/dol sli/anhy lam
167	2648.0- 49.0	0.22	0.06	1.4	2.81	0.0	0.0	0.0	81.0	Sd gry vfgr, sli/anhy vert/frac
168	2649.0- 50.0	0.09	0.06	5.8	2.78	0.0	0.0	0.0	90.7	Sd gry vfgr, sli/dol sli/anhy

CORE LABORATORIES

EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222

Field : AVALON FIELD
Formation : GOAT SEEP/DELAWARE

File No.: 57181-17438
Date : 5-15-96

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	OIL SATURATION (PORE VOLUME) %	SPONGE OIL %	SPONGE OIL + CORE OIL %	WATER SATURATION (PORE VOLUME) %	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md							
169	2650.0-51.0	0.12	0.12	3.6	2.81	0.0	0.0	0.0	88.9	Sd gry vfgr, s1i/dol s1i/anhv vert/frac
170	2651.0-52.0	0.13	0.13	3.5	2.77	0.0	0.0	0.0	82.7	Sd gry vfgr, s1i/dol s1i/anhv
171	2652.0-53.0	0.09	0.09	2.7	2.76	0.0	0.0	0.0	76.8	Sd gry vfgr, s1i/dol s1i/anhv
172	2653.0-54.0	0.06	0.05	3.7	2.77	0.0	0.0	0.0	77.2	Sd gry vfgr, s1i/dol s1i/anhv
173	2654.0-55.0	0.05	0.05	4.6	2.76	0.0	0.0	0.0	82.7	Sd gry vfgr, s1i/dol s1i/anhv lam
174	2655.0-56.0	0.07	0.07	4.9	2.76	0.0	0.0	0.0	82.6	Sd gry vfgr, s1i/dol s1i/anhv lam
175	2656.0-57.0	0.02	0.01	2.4	2.74	0.0	0.0	0.0	96.6	Sd gry vfgr, s1i/dol s1i/anhv lam
176	2657.0-58.0	0.03	0.01	3.3	2.76	0.0	0.0	0.0	76.1	Sd gry vfgr, s1i/dol s1i/anhv
177	2658.0-59.0	0.04	0.04	4.2	2.78	0.0	0.0	0.0	74.4	Sd gry vfgr, s1i/dol s1i/anhv vert/frac
178	2659.0-60.0	0.02	0.02	3.9	2.75	0.0	1.8	1.8	83.3	Sd gry vfgr, s1i/dol s1i/anhv vert/frac
CORE NO. 6 2660.0-2690.0 CUT 30' REC 30'										
179	2660.0-61.0	0.02	<.01	5.4	2.78	0.0	0.4	0.4	89.5	Sd gry vfgr, s1i/anhv
180	2661.0-62.0	0.34	0.12	5.3	2.76	0.0	0.0	0.0	94.4	Sd gry vfgr, s1i/anhv foss styl min-flu
181	2662.0-63.0	0.03	0.02	5.8	2.76	0.0	0.0	0.0	90.6	Sd gry vfgr, lam
182	2663.0-64.0	0.33	0.30	5.5	2.75	0.0	0.0	0.0	91.1	Sd gry vfgr, s1i/anhv lam
183	2664.0-65.0	0.33	0.24	3.4	2.77	0.0	0.0	0.0	93.2	Sd gry vfgr, s1i/anhv foss
184	2665.0-66.0	0.16	0.13	5.1	2.72	0.0	0.0	0.0	98.8	Sd gry vfgr, s1i/anhv lam
185	2666.0-67.0	0.11	0.04	6.2	2.74	0.0	0.0	0.0	92.7	Sd gry vfgr, s1i/anhv lam
186	2667.0-68.0	0.01	0.01	6.0	2.74	0.0	0.0	0.0	97.6	Sd gry vfgr, s1i/anhv lam
187	2668.0-69.0	0.01	<.01	5.5	2.77	0.0	0.0	0.0	97.2	Sd gry vfgr, s1i/anhv lam
188	2669.0-70.0	0.01	<.01	4.6	2.76	0.0	0.0	0.0	94.7	Sd gry vfgr, s1i/anhv lam
189	2670.0-71.0	0.02	<.01	5.3	2.76	0.0	0.0	0.0	86.5	Sd gry vfgr, s1i/anhv vert/frac
190	2671.0-72.0	0.06	0.05	3.4	2.77	0.0	0.0	0.0	94.2	Sd gry vfgr, s1i/anhv
191	2672.0-73.0	0.09	0.08	3.8	2.74	0.0	0.0	0.0	97.7	Sd gry vfgr, s1i/anhv
192	2673.0-74.0	0.11	0.09	4.0	2.74	0.0	0.0	0.0	98.2	Sd gry vfgr
193	2674.0-75.0	0.08	0.08	2.9	2.74	0.0	0.0	0.0	95.6	Sd gry vfgr, s1i/anhv
194	2675.0-76.0	0.05	0.04	3.1	2.75	0.0	0.0	0.0	98.9	Sd gry vfgr

CORE LABORATORIES

EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222

Field : AVALON FIELD
Formation : GOAT SEEP/DELAWARE

File No.: 57181-17438
Date : 5-15-96

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	OIL SATURATION (PORE VOLUME) %	SPONGE OIL %	SPONGE OIL + CORE OIL %	WATER SATURATION (PORE VOLUME) %	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md							
195	2676.0- 77.0	0.03	0.02	4.4	2.73	0.0	0.0	0.0	93.3	Sd gry vfgr
196	2677.0- 78.0	0.09	0.06	1.6	2.75	0.0	0.0	0.0	96.3	Sd gry vfgr
197	2678.0- 79.0	0.04	0.02	4.7	2.73	5.8	0.0	5.8	84.6	Sd gry vfgr
198	2679.0- 80.0	0.02	0.01	4.5	2.73	7.5	0.2	7.7	79.4	Sd gry vfgr
199	2680.0- 81.0	0.03	0.03	6.3	2.70	7.7	0.0	7.7	80.5	Sd gry vfgr
200	2681.0- 82.0	0.04	0.03	5.7	2.71	13.2	0.4	13.5	66.9	Sd gry vfgr, lam
201	2682.0- 83.0	0.04	0.04	4.7	2.72	12.9	0.2	13.1	67.9	Sd gry vfgr, lam
202	2683.0- 84.0	0.02	0.02	6.6	2.72	0.0	0.0	0.0	94.2	Sd gry vfgr, lam
203	2684.0- 85.0	<.01	<.01	4.2	2.79	0.0	0.0	0.0	91.1	Sd gry vfgr, foss lam
204	2685.0- 86.0	<.01	<.01	4.1	2.79	0.0	0.0	0.0	94.6	Sd gry vfgr, sli/anh
205	2686.0- 87.0	<.01	<.01	5.0	2.78	0.0	0.0	0.0	97.0	Sd gry vfgr, sli/anh
206	2687.0- 88.0	<.01	<.01	4.9	2.75	0.0	0.0	0.0	92.0	Sd gry-blk sli-vfgr, lam
207	2688.0- 89.0	<.01	<.01	4.6	2.77	0.0	0.0	0.0	94.5	Sd gry vfgr
208	2689.0- 90.0	<.01	<.01	4.8	2.76	0.0	0.0	0.0	94.8	Sd gry vfgr, sli/anh foss lam
CORE NO. 7 2690.0-2720.0 CUT 30' REC 30'										
209	2690.0- 91.0	0.06	0.04	5.6	2.77	0.0	0.0	0.0	87.0	Sd gry sli-vfgr, foss lam
210	2691.0- 92.0	0.01	<.01	4.4	2.78	0.0	0.0	0.0	88.6	Sd gry vfgr, sli/anh foss
211	2692.0- 93.0	0.10	0.01	4.4	2.73	0.0	0.0	0.0	94.6	Sd gry-blk sli-vfgr, foss
212	2693.0- 94.0	0.13	0.11	5.4	2.75	0.0	0.0	0.0	93.3	Sd gry vfgr, foss
213	2694.0- 95.0	0.18	0.11	4.4	2.75	0.0	0.0	0.0	91.9	Sd gry vfgr, sli/anh foss
214	2695.0- 96.0	0.07	0.03	4.0	2.75	0.0	0.0	0.0	97.8	Sd gry vfgr, sli/anh foss
215	2696.0- 97.0	0.05	0.04	3.1	2.75	0.0	0.0	0.0	97.0	Sd gry vfgr, sli/anh
216	2697.0- 98.0	0.05	0.04	5.2	2.73	6.2	3.0	9.1	80.1	Sd gry vfgr, sli/anh foss
217	2698.0- 99.0	0.08	0.07	6.4	2.72	11.0	15.0	25.9	71.3	Sd gry vfgr, sli/anh
218	2699.0- 00.0	0.30	0.28	10.9	2.69	12.5	37.7	50.3	63.5	Sd gry vfgr, sli/anh
219	2700.0- 01.0	0.04	0.01	8.7	2.70	5.6	3.0	8.5	75.2	Sd gry vfgr
220	2701.0- 02.0	<.01	<.01	6.8	2.72	0.0	1.0	1.0	91.4	Sd gry vfgr, lam

CORE LABORATORIES

EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222

Field : AVALON FIELD
Formation : GOAT SEEP/DELAWARE

File No.: 57181-17438
Date : 5-15-96

C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	OIL SATURATION (PORE VOLUME) %	SPONGE OIL %	SPONGE OIL + CORE OIL %	WATER SATURATION (PORE VOLUME) %	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md							
221	2702.0- 03.0	0.01	0.01	6.8	2.71	0.0	0.0	0.0	92.8	Sd gry vfgr, sli/anh
222	2703.0- 04.0	0.03	0.02	7.2	2.71	8.3	0.1	8.4	85.7	Sd gry vfgr
223	2704.0- 05.0	0.10	0.10	9.1	2.68	5.3	0.9	6.2	73.9	Sd gry vfgr, sli/pyr foss
224	2705.0- 06.0	0.15	0.12	9.7	2.68	6.3	2.9	9.2	71.6	Sd gry vfgr
225	2706.0- 07.0	0.42	0.40	11.5	2.67	10.2	5.4	15.6	61.6	Sd gry vfgr, pyr sli/anh foss
226	2707.0- 08.0	0.51	0.48	10.1	2.66	14.9	1.9	16.8	69.7	Sd gry vfgr, foss
227	2708.0- 09.0	0.56	0.52	10.3	2.68	12.3	0.4	12.7	79.8	Sd gry vfgr, sli/anh
228	2709.0- 10.0	0.12	0.12	8.6	2.69	4.4	0.3	4.7	73.7	Sd gry vfgr, pyr
229	2710.0- 11.0	0.27	0.24	7.4	2.71	4.9	0.3	5.1	89.3	Sd gry vfgr
230	2711.0- 12.0	0.86	0.79	11.9	2.66	22.2	0.1	22.3	72.2	Sd gry vfgr, pyr frac foss
231	2712.0- 13.0	0.82	0.76	11.6	2.66	12.8	0.1	12.9	72.9	Sd gry vfgr, foss
232	2713.0- 14.0	0.55	0.52	8.3	2.69	10.3	0.3	10.6	84.8	Sd gry vfgr, pyr foss
233	2714.0- 15.0	0.42	0.40	10.1	2.67	12.8	0.3	13.1	75.2	Sd gry vfgr, sli/anh foss
234	2715.0- 16.0	1.13	1.10	11.2	2.66	24.9	0.2	25.2	69.3	Sd gry vfgr, foss
235	2716.0- 17.0	2.70	2.23	13.2	2.67	20.8	0.0	20.8	73.8	Sd gry vfgr, foss heat-frac
236	2717.0- 18.0	0.91	0.88	11.6	2.68	34.4	0.0	34.4	61.2	Sd gry vfgr, pyr sli/anh foss
237	2718.0- 19.0	0.69	0.67	11.4	2.66	13.8	0.0	13.8	72.1	Sd gry vfgr, pyr sli/anh foss
238	2719.0- 20.0	0.59	0.56	11.0	2.67	8.9	0.0	8.9	72.1	Sd gry vfgr, pyr foss
CORE NO. 8 2720.0-2750.0 CUT 30' REC 32'										
239	2720.0- 21.0	0.50	0.47	11.3	2.68	16.3	0.0	16.3	73.4	Sd gry vfgr, pyr sli/anh
240	2721.0- 22.0	1.05	0.98	12.1	2.66	18.9	0.0	18.9	75.8	Sd gry vfgr, pyr sli/anh
241	2722.0- 23.0	0.63	0.63	12.7	2.67	9.2	0.4	9.5	64.0	Sd tan-gry vfgr, sli/dol sli/shy
242	2723.0- 24.0	0.91	0.91	13.2	2.67	10.3	0.4	10.7	64.8	Sd tan-gry vfgr, sli/dol sli/shy frac
243	2724.0- 25.0	1.60	1.59	13.8	2.67	11.0	0.1	11.1	65.8	Sd tan-gry vfgr, sli/dol sli/shy
244	2725.0- 26.0	2.09	2.05	13.2	2.66	10.9	0.1	10.9	66.8	Sd tan-gry vfgr, sli/dol lam
245	2726.0- 27.0	2.60	2.58	14.0	2.65	13.7	0.0	13.7	76.3	Sd tan-gry vfgr, sli/dol lam
246	2727.0- 28.0	1.53	1.50	12.8	2.67	20.5	0.6	21.0	75.6	Sd tan-gry vfgr, sli/dol

CORE LABORATORIES

EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222

Field : AVALON FIELD
Formation : GOAT SEEP/DELAWARE

File No.: 57181-17438
Date : 5-15-96

C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	OIL SATURATION (PORE VOLUME) %	SPONGE OIL %	SPONGE OIL + CORE OIL %	WATER SATURATION (PORE VOLUME) %	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md							
247	2728.0- 29.0	0.18	0.18	11.1	2.67	2.8	0.2	3.0	80.4	Sd tan-gry vfgr, sli/dol
248	2729.0- 30.0	0.04	0.04	9.6	2.70	7.6	0.0	7.6	86.6	Sd tan-gry vfgr, sli/dol sli/shy
249	2730.0- 31.0	0.03	0.01	9.2	2.70	0.0	0.0	0.0	94.8	Sd lt-gry vfgr, sli/dol
250	2731.0- 32.0	0.03	0.02	9.4	2.70	0.0	0.0	0.0	94.0	Sd lt-gry vfgr, sli/dol
251	2732.0- 33.0	0.06	0.06	10.0	2.70	0.0	0.0	0.0	94.6	Sd gry vfgr, sli/dol sli/shy
252	2733.0- 34.0	0.06	0.01	10.1	2.70	0.0	0.0	0.0	94.7	Sd lt-gry vfgr, sli/dol sli/shy
253	2734.0- 35.0	0.04	0.03	10.0	2.70	0.0	0.0	0.0	95.3	Sd tan-gry vfgr, sli/dol sli/shy
254	2735.0- 36.0	0.04	0.01	8.8	2.70	0.0	0.0	0.0	96.1	Sd gry vfgr, sli/dol sli/shy shlam
255	2736.0- 37.0	0.01	0.01	7.0	2.71	0.0	0.0	0.0	97.6	Sd lt-gry vfgr, sli/dol sli/shy
256	2737.0- 38.0	0.01	0.01	5.0	2.72	0.0	0.0	0.0	97.0	Sd gry vfgr, shy sli/dol
257	2738.0- 39.0	0.01	0.01	4.1	2.75	0.0	0.0	0.0	96.9	Sd gry vfgr, v/dol sli/shy shlam
258	2739.0- 40.0	0.09	0.07	4.1	2.78	0.0	0.0	0.0	97.2	bol sdy shy shlam
259	2740.0- 41.0	0.02	0.01	5.1	2.78	0.0	0.0	0.0	97.3	bol sdy lam
260	2741.0- 42.0	0.02	0.02	5.4	2.77	0.0	0.0	0.0	90.4	bol sdy lam
261	2742.0- 43.0	0.01	0.01	5.1	2.74	0.0	0.0	0.0	92.6	Sd tan-gry vfgr, v/dol sli/shy shlam
262	2743.0- 44.0	0.03	0.02	4.9	2.75	0.0	0.0	0.0	89.8	Sd tan-gry vfgr, dol
263	2744.0- 45.0	0.02	0.01	6.4	2.71	0.0	0.0	0.0	94.3	Sd tan-gry vfgr, dol lam
264	2745.0- 46.0	0.03	0.02	4.4	2.75	0.0	0.0	0.0	88.5	Sd tan-gry vfgr, dol lam
265	2746.0- 47.0	0.08	0.07	5.4	2.74	0.0	0.0	0.0	84.7	Sd gry vfgr, sli/dol lam
266	2747.0- 48.0	0.04	0.04	5.4	2.74	0.0	0.0	0.0	85.9	Sd gry vfgr, dol lam
267	2748.0- 49.0	0.04	0.04	4.6	2.74	0.0	0.0	0.0	91.5	Sd gry vfgr, dol
268	2749.0- 50.0	0.01	0.01	5.0	2.73	0.0	0.0	0.0	93.1	Sd dk-gry vfgr, sli/dol
269	2750.0- 51.0	0.03	0.02	1.5	2.76	0.0	0.0	0.0	93.8	Sd gry vfgr, sli/dol
270	2751.0- 52.0	0.06	0.06	8.7	2.71	0.0	0.0	0.0	84.9	Sd tan-gry vfgr, sli/dol lam

CORE LABORATORIES

EXXON COMPANY, U.S.A. File No.: 57181-17438
 AVALON DELAWARE UNIT 222 Date : 5-15-96
 1452' FWL & 1665' FNL, SEC. 30, T-20-S, R-28-E API No. : 30-015-286580
 EDDY COUNTY, NEW MEXICO Analysts: OLSON

Field : AVALON FIELD
 Formation : GOAT SEEP/DELAWARE
 Coring Fluid : WATER BASE MUD
 Elevation : 3299' GL

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %		

PLUG ANALYSIS

DELAWARE FORMATION

CORE NO. 9 2752.0-2766.0 CUT 14' REC 14.5'

271	2752.2	0.02	10.2	0.0	81.3	2.70	Sd lt-gry vfgr, sli/dol
272	2753.2	<.01	6.9	0.0	85.5	2.73	Sd gry vfgr, sli/dol
273	2754.2	<.01	5.7	0.0	92.1	2.73	Sd dk-gry sli-vfgr, shy sli/dol
274	2755.2	0.01	4.3	0.0	92.6	2.74	Sd dk-gry sli-vfgr, shy sli/dol
275	2756.2	0.01	3.4	0.0	92.2	2.71	Sd dk-gry sli-vfgr, shy sli/dol sli/any frac
276	2757.2	<.01	3.4	0.0	90.8	2.79	Sd dk-gry sli-vfgr, shy v/dol sli/any
277	2758.2	<.01	3.8	0.0	70.7	2.84	Dol sli/sdy sli/any
278	2759.2	<.01	2.1	0.0	89.5	2.77	Sd gry vfgr, dol
279	2760.2	0.01	2.9	0.0	78.8	2.81	Dol sli/sdy
280	2761.2	0.01	2.8	0.0	73.4	2.83	Sd gry vfgr, sli/any
281	2762.2	0.01	4.2	0.0	72.3	2.82	Dol sdy sli/any
282	2763.2	0.01	3.0	0.0	80.8	2.80	Dol sdy
283	2764.2	<.01	2.6	0.0	88.2	2.81	Dol sdy
284	2765.2	0.01	3.4	0.0	76.7	2.83	Dol anhy sli/sdy

CORE NO. 10 2766.0-2805.0 CUT 39' REC 39'

285	2766.2	0.01	2.5	0.0	68.9	2.86	Dol sli/any
286	2767.2	0.01	3.2	0.0	74.1	2.82	Dol sli/sdy

CORE LABORATORIES

EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222

Field : AVALON FIELD
Formation : GOAT SEEP/DELAWARE

File No.: 57181-17438
Date : 5-15-96

C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %		
287	2768.2	0.01	3.1	0.0	75.6	2.82	Dol sli/sdy sli/anhy
288	2769.1	<.01	3.3	0.0	77.5	2.82	Dol sli/sdy sli/anhy
289	2770.2	0.01	3.9	0.0	73.0	2.82	Dol sli/sdy
290	2771.2	<.01	3.2	0.0	72.6	2.83	Dol sli/sdy sli/anhy
291	2772.2	0.01	3.7	0.0	78.9	2.80	Dol sdy sli/anhy
292	2773.2	0.01	3.9	0.0	84.7	2.78	Slt gry, dol
293	2774.2	0.01	4.0	0.0	84.1	2.80	Slt gry, dol sli/anhy sli/pyr
294	2775.2	<.01	3.4	0.0	90.1	2.79	Slt gry, sli/dol
295	2776.2	<.01	2.1	0.0	94.4	2.77	Slt gry, sli/dol
296	2777.2	<.01	2.1	0.0	89.2	2.77	Slt gry, sli/dol
297	2778.2	<.01	1.1	0.0	94.0	2.78	Slt gry, sli/dol
298	2779.2	<.01	2.7	0.0	87.5	2.80	Slt gry, sli/dol
299	2780.2	<.01	2.9	0.0	91.6	2.78	Slt gry, sli/dol
300	2781.2	<.01	3.9	0.0	82.7	2.78	Slt gry, sli/dol
301	2782.2	<.01	2.6	0.0	94.8	2.76	Slt gry, sli/dol
302	2783.2	<.01	3.2	0.0	94.9	2.78	Slt gry, dol
303	2784.2	<.01	1.2	0.0	72.4	2.89	Dol sli/anhy
304	2785.2	<.01	2.2	0.0	80.6	2.85	Dol sli/anhy
305	2786.2	<.01	2.7	0.0	75.6	2.86	Dol anhy min-flu
306	2787.2	<.01	2.6	0.0	73.1	2.85	Dol
307	2788.2	<.01	3.5	0.0	87.0	2.81	Dol sli/sdy sli/anhy
308	2789.2	<.01	3.4	0.0	85.7	2.77	Slt gry, sli/dol sli/anhy sli/pyr
309	2790.2	0.01	2.9	0.0	84.7	2.80	Slt gry, dol
310	2791.2	<.01	1.8	0.0	80.0	2.79	Slt gry, sli/dol
311	2792.2	0.01	5.1	0.0	77.7	2.80	Slt gry, v/dol sli/anhy
312	2793.2	0.01	1.8	0.0	89.2	2.82	Dol sli/sdy
313	2794.2	<.01	1.2	0.0	85.8	2.78	Slt gry, anhy
314	2795.2	<.01	1.4	0.0	87.1	2.70	Slt dk-gry, dol
315	2796.2	<.01	8.0	0.0	87.8	2.82	Slt gry, sli/dol

CORE LABORATORIES

EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222

Field : AVALON FIELD
Formation : GOAT SEEP/DELAWARE

File No.: 57181-17438
Date : 5-15-96

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(OIL %)	(PORE VOLUME) WATER %		
316	2797.2	0.01	6.2	0.0	85.0	2.79	Slt gry, sli/dol
317	2798.2	0.01	7.4	0.0	82.1	2.80	Slt gry, sli/dol
318	2799.2	0.01	8.1	0.0	81.3	2.79	Slt gry, sli/dol
319	2800.2	<.01	3.7	0.0	90.1	2.77	Slt gry, sli/dol
320	2801.2	<.01	5.5	0.0	79.4	2.78	Slt gry, sli/dol
321	2802.2	<.01	2.7	0.0	77.3	2.76	Slt gry, sli/dol
322	2803.2	0.04	6.8	0.0	81.5	2.73	Slt gry, sli/dol
323	2804.2	0.35	11.3	0.0	89.6	2.75	Slt gry, sli/dol
CORE NO. 11 2805.0-2862.0 CUT 57' REC 57'							
324	2805.2	0.77	11.4	0.0	80.7	2.70	Slt gry, sli/dol
325	2806.2	0.10	13.3	0.0	87.5	2.74	Slt gry, sli/dol
326	2807.2	1.23	12.6	0.0	82.6	2.70	Slt gry, sli/dol
327	2808.2	0.60	11.3	0.0	85.9	2.70	Slt gry, sli/dol
328	2809.2	0.38	9.7	0.0	82.9	2.71	Slt gry, sli/dol
329	2810.2	0.05	7.8	0.0	87.7	2.71	Slt gry, sli/dol
330	2811.2	0.01	6.5	0.0	78.1	2.71	Slt gry, sli/dol
331	2812.1	1.49	13.8	0.0	77.0	2.69	Slt gry, sli/dol
332	2813.2	1.03	12.4	0.0	81.5	2.70	Slt gry, sli/dol
333	2814.2	0.37	12.4	0.0	85.2	2.69	Slt gry, sli/dol
334	2815.2	0.56	11.7	0.0	86.5	2.70	Slt gry, sli/dol
335	2816.2	0.30	11.5	0.0	89.0	2.71	Slt gry, sli/dol
336	2817.2	1.60	13.5	0.0	79.1	2.69	Slt gry, sli/dol
337	2818.2	0.46	10.2	0.0	91.1	2.70	Slt gry, sli/dol
338	2819.2	0.62	12.0	0.0	89.1	2.71	Slt gry, sli/dol
339	2820.2	0.07	9.4	0.0	87.7	2.73	Slt gry, sli/dol
340	2821.1	1.27	14.2	0.0	85.3	2.67	Slt gry, sli/dol
341	2822.2	0.02	8.4	0.0	81.7	2.73	Slt gry, sli/dol

CORE LABORATORIES

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AVALON DELAWARE UNIT 222

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File No.: 57181-17438
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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K _{air} md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %		
342	2823.3	0.36	15.5	0.0	87.5	2.72	Slt gry, sli/dol
343	2824.2	<.01	7.1	1.6	85.6	2.72	Slt gry, sli/dol
344	2825.2	<.01	7.7	0.0	84.7	2.76	Slt gry, sli/dol
345	2826.2	0.01	8.7	0.0	85.9	2.78	Slt gry, sli/dol
346	2827.2	<.01	5.0	0.0	87.0	2.78	Slt gry, sli/dol
347	2828.2	0.01	7.8	0.0	83.4	2.73	Slt gry, sli/dol
348	2829.2	0.69	13.8	0.0	83.4	2.66	Slt gry, sli/dol
349	2830.2	0.01	8.8	0.0	83.9	2.72	Slt gry, sli/dol
350	2831.2	<.01	7.2	0.0	81.6	2.73	Slt gry, sli/dol
351	2832.2	<.01	7.4	0.0	80.0	2.73	Slt gry, sli/dol
352	2833.2	<.01	7.4	0.0	86.2	2.73	Slt gry, sli/dol
353	2834.2	<.01	6.3	0.0	94.0	2.72	Slt gry, sli/dol
354	2835.2	<.01	6.9	0.0	82.9	2.74	Slt gry, sli/dol
355	2836.1	<.01	7.0	0.0	84.0	2.76	Slt gry, sli/dol
356	2837.2	<.01	4.8	0.0	86.6	2.74	Slt gry, sli/dol
357	2838.2	<.01	5.6	0.0	83.0	2.74	Slt gry, sli/dol
358	2839.2	<.01	7.7	0.0	81.5	2.79	Slt gry, sli/dol
359	2840.2	<.01	5.7	0.0	77.2	2.78	Slt gry, sli/dol
360	2841.2	<.01	2.6	0.0	89.6	2.80	Slt gry, sli/dol
361	2842.2	0.20	3.0	0.0	86.1	2.74	Cht sli/dol foss
362	2843.2	<.01	6.5	0.0	86.9	2.71	Slt gry, sli/dol
363	2844.2	<.01	4.1	0.0	88.7	2.73	Slt gry, sli/dol
364	2845.2	<.01	7.6	0.0	80.2	2.78	Slt gry, sli/dol
365	2846.2	<.01	6.4	0.0	76.7	2.79	Slt gry, sli/dol
366	2847.2	<.01	4.7	0.0	77.8	2.79	Slt gry, sli/dol
367	2848.2	<.01	4.9	0.0	70.6	2.80	Slt gry, sli/dol
368	2849.2	<.01	7.1	0.0	75.3	2.79	Slt gry, sli/dol
369	2850.2	<.01	6.8	0.0	80.5	2.79	Slt gry, sli/dol
370	2851.2	0.01	8.5	0.0	71.3	2.79	Slt gry, sli/dol

CORE LABORATORIES

EXXON COMPANY, U.S.A.
AVALON DELAWARE UNIT 222

Field : AVALON FIELD
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File No.: 57181-17438
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C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(OIL VOLUME) %	(PORE VOLUME) WATER %		
371	2852.2	<.01	2.3	0.0	79.1	2.82	Dol min-flu
372	2853.2	<.01	2.0	0.0	78.4	2.84	Dol anhy min-flu
373	2854.2	<.01	0.9	0.0	90.5	2.86	Dol v/anhy min-flu
374	2855.2	<.01	5.3	0.0	76.1	2.80	Slt gry, sli/dol
375	2856.2	<.01	5.5	0.0	82.6	2.74	Slt gry, sli/dol
376	2857.2	<.01	5.2	0.0	89.3	2.71	Slt gry, sli/dol
377	2858.2	<.01	5.5	0.0	89.3	2.65	Slt gry, sli/dol
378	2859.2	<.01	4.1	0.0	87.9	2.70	Slt gry, sli/dol
379	2860.2	<.01	7.0	0.0	86.9	2.71	Slt gry, sli/dol
380	2861.2	1.98	11.1	0.0	73.8	2.68	Sd gry vfgr, sli/dol
CORE NO. 12 2862.0-2900.0 CUT 38' REC 33'							
381	2862.2	<.01	6.1	0.0	77.2	2.72	Sd gry vfgr, sli/dol
382	2863.2	<.01	1.8	0.0	75.4	2.77	Sd gry vfgr, sli/dol
383	2864.2	0.01	2.8	0.0	80.0	2.75	Sd gry vfgr, sli/dol
384	2865.1	0.01	2.4	0.0	78.0	2.75	Sd gry vfgr, sli/dol
385	2866.2	0.19	5.9	0.0	80.1	2.72	Sd gry vfgr, sli/dol
386	2867.2	0.20	5.0	0.0	75.9	2.72	Sd gry vfgr, sli/dol
387	2868.2	0.05	4.6	0.0	86.0	2.72	Sd gry vfgr, sli/dol
388	2869.2	0.03	3.7	0.0	75.2	2.73	Sd gry vfgr, sli/dol
389	2870.3	0.29	12.6	0.0	93.4	2.72	Sd gry, vfgr, sli/dol
390	2871.2	0.06	5.2	0.0	94.2	2.71	Sd gry vfgr, sli/dol
391	2872.2	0.07	3.8	0.0	72.1	2.72	Sd gry vfgr, sli/dol
392	2873.2	0.10	5.3	0.0	93.8	2.71	Sd gry vfgr, sli/dol
393	2874.2	0.02	2.7	0.0	75.0	2.73	Sd gry vfgr, sli/dol
394	2875.2	5.51	7.3	0.0	78.4	2.70	Sd gry vfgr, sli/dol
395	2876.2	0.51	8.0	0.0	87.2	2.71	Sd gry vfgr, sli/dol
396	2877.1	7.83	7.9	0.0	75.4	2.70	Sd gry vfgr, sli/dol

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K _{air} md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %		
397	2878.2	0.12	3.5	0.0	75.1	2.73	Sd gry vfgr, sli/dol
398	2879.2	9.80	10.1	0.0	79.3	2.69	Sd gry vfgr, sli/dol
399	2880.2	2.87	9.7	0.0	76.5	2.70	Sd gry vfgr, sli/dol
400	2881.2	0.01	3.1	0.0	75.3	2.77	Sd gry vfgr, sli/dol
401	2882.2	0.76	7.4	0.0	73.4	2.70	Sd gry vfgr, sli/dol
402	2883.2	0.01	2.1	0.0	82.7	2.79	Dol sli/anh p.p.
403	2884.2	<.01	3.0	0.0	89.4	2.70	Slt gry vfgr, sli/dol
404	2885.2	<.01	3.5	0.0	89.1	2.72	Slt gry vfgr, sli/dol
405	2886.2	<.01	3.7	0.0	82.5	2.77	Slt gry vfgr, sli/dol
406	2887.2	<.01	4.2	0.0	83.5	2.73	Slt gry vfgr, sli/dol
407	2888.2	<.01	5.4	0.0	81.8	2.76	Slt gry vfgr, sli/dol
408	2889.2	<.01	3.7	0.0	89.4	2.74	Slt gry vfgr, sli/dol
409	2890.2	<.01	3.1	0.0	88.9	2.73	Slt gry vfgr, sli/dol
410	2891.2	<.01	3.3	0.0	75.9	2.73	Slt gry vfgr, sli/dol lam
411	2892.2	<.01	3.2	0.0	83.2	2.74	Slt gry vfgr, sli/dol lam
412	2893.3	<.01	2.4	0.0	73.7	2.77	Slt gry vfgr, sli/dol lam
413	2894.2	<.01	3.7	0.0	75.9	2.82	Slt gry vfgr
414	2895.1	<.01	2.6	0.0	83.6	2.78	Slt gry vfgr
	2896.0- 00.0						Lost core

LITHOLOGICAL ABBREVIATIONS

Anhy, anhy	anhydrite (-ic)	Lim, lim	limestone
Ark, ark	arkose (-ic)	med gr	medium grain
brd	band (-ed)	Mtrx	matrix
Brec, brec	breccia	NA	interval not analyzed
Calc, calctc	calcite (-ic)	Nod, nod	nodules (-ar)
carb	carbonaceous	Ool, ool	oolite (-itic)
crs gr	course grained	Pisol, pisol	pisolite, pisolitic
Chk, chk	chalk (-y)	p.p.	pin-point (porosity)
cht, cht	chert (-y)	Ptg	parting
Ogl, ogl	conglomerate (-ic)	Pyr, pyr	pyrite (-itized, -itic)
crs xln	coarsely crystalline	Sd, sd	sand (-y)
dns	dense	Sh, sh	shale (-ly)
Dol, dol	dolomite (-ic)	SHR	solid hydrocarbon residue
F	randomly oriented fractures	slt	slightly
f	slightly fractured	slt, slty	silt (-y)
f gr	fine grained	styl	stylolite (-itic)
foss	fossil (-iferous)	suc	sucrosic
f xln	finely crystalline	Su, su	sulphur, sulphurous
Gil	gilsonite	TRFA	TOO BROKEN FOR ANALYSIS
Glauc, glauc	glauconite (-itic)	Trip, trip	tripoli (-itic)
Grt	granite	v	very
Gyp, gyp	gypsum (-iferous)	vf	predominantly vertically fractured
hor, frac	predominantly horizontally fractured	vug	vug (-gy)
incl	inclusion (-ded)	xbd	crossbedded
intbd	interbedded	xln	medium crystalline
lam	lamina (-tions, -ated)	xtl	crystal

THE FIRST WORD IN THE DESCRIPTION COLUMN OF THE CORE ANALYSIS REPORT DESCRIBES THE ROCK TYPE. FOLLOWING ARE ROCK MODIFIERS IN DECREASING ABUNDANCE AND MISCELLANEOUS DESCRIPTIVE TERMS.