

CORE ANALYSIS REPORT
FOR
DEER LAKE OIL & GAS INC.
DEER LAKE ET AL WESTERN ADVENTURE #1
NEWFOUNDLAND

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2002 11 08

Deer Lake Oil & Gas Inc.
P. O. Box 5580
St. John's, Newfoundland A1C 5W4

Attention: Mr. Cabot Martin

Subject: Deer Lake et al Western Adventure #1
Our File Number: 52131-00-0539

One hundred and sixty-six full diameter samples were labeled and transported to our Calgary laboratory for analysis.

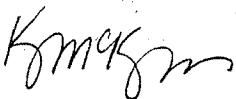
1. Full Diameter Analysis

One hundred and sixty-six samples were cleaned in a vapour phase extractor using toluene and dried in a gravity oven. Porosity was determined by the Boyle's Law technique using helium as the gaseous medium. Grain density and bulk density measurements were also taken.

Thank you for the opportunity to be of service.

Yours truly,

CORE LABORATORIES CANADA, LTD.


David J. Brooks
Supervisor, Routine Rock Properties

DJB/kam
Enclosures

CORE LABORATORIES

Company : DEER LAKE OIL & GAS INC.
 Well : DEER LAKE ET AL WESTERN ADVENTURE #1
 Location :
 Province : NEWFOUNDLAND

Field :
 Formation :
 Coring Equip.:
 Coring Fluid :

File No.: 52131-00-0539
 Date : 2000-12-27
 Analysts: DJB
 Core Dia:

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

SAMPLE NUMBER	DEPTH m	POROSITY (HELIUM) fraction	BULK DENSITY kg/m3	GRAIN DENSITY kg/m3	DESCRIPTION
1	1403.50	0.013	2600.	2640.	
2	1408.00	0.038	2640.	2740.	
3	1419.50	0.054	2630.	2780.	
4	1422.70	0.064	2600.	2780.	
5	1430.40	0.014	2650.	2690.	
6	1439.30	0.028	2650.	2730.	
7	1440.00	0.062	2580.	2740.	
8	1440.50	0.020	2640.	2690.	
9	1443.50	0.011	2680.	2710.	
10	1444.00	0.017	2600.	2650.	
11	1446.00	0.011	2640.	2670.	
12	1455.90	0.037	2660.	2760.	
13	1460.00	0.025	2680.	2740.	
14	1463.00	0.054	2600.	2750.	
15	1464.00	0.042	2610.	2720.	
16	1467.20	0.013	2670.	2710.	
17	1471.50	0.025	2650.	2720.	
18	1473.00	0.029	2580.	2660.	
19	1481.50	0.024	2690.	2760.	
20	1490.50	0.014	2670.	2710.	
21	1493.80	0.034	2600.	2690.	
22	1495.00	0.027	2630.	2700.	
23	1499.40	0.009	2680.	2700.	
24	1510.00	0.008	2660.	2680.	
25	1516.00	0.009	2700.	2730.	
26	1522.00	0.025	2630.	2700.	
27	1525.00	0.033	2620.	2710.	

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SAMPLE NUMBER	DEPTH m	POROSITY (HELIUM) fraction	BULK DENSITY kg/m3	GRAIN DENSITY kg/m3	DESCRIPTION
28	1527.90	0.050	2560.	2690.	
29	1529.70	0.031	2670.	2760.	
30	1533.00	0.011	2680.	2710.	
31	1538.40	0.005	2730.	2730.	
32	1547.00	0.014	2710.	2750.	
33	1557.70	0.005	2730.	2740.	
34	1562.90	0.013	2680.	2720.	
35	1564.75	0.027	2620.	2700.	
36	1565.50	0.025	2640.	2710.	
37	1568.10	0.025	2660.	2730.	
38	1426.84	0.019	2680.	2740.	
39	1435.00	0.008	2670.	2690.	
40	1451.50	0.009	2670.	2700.	
41	1475.25	0.020	2650.	2700.	
42	1488.70	0.020	2650.	2710.	
43	1505.00	0.026	2640.	2710.	
44	1516.30	0.005	2670.	2680.	
45	1543.10	0.005	2710.	2710.	
46	1553.00	0.005	2700.	2700.	
47	1513.20	0.015	2670.	2710.	
48	883.00	0.101	2440.	2710.	
49	887.00	0.106	2450.	2730.	
50	896.00	0.045	2550.	2670.	
51	901.00	0.052	2530.	2660.	
52	903.30	0.061	2570.	2740.	
53	911.50	0.080	2450.	2660.	
54	926.20	0.031	2620.	2700.	
55	948.50	0.115	2420.	2740.	
56	961.00	0.046	2540.	2660.	

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SAMPLE NUMBER	DEPTH m	POROSITY (HELIUM) fraction	BULK DENSITY kg/m3	GRAIN DENSITY kg/m3	DESCRIPTION
57	966.50	0.043	2630.	2750.	
58	968.10	0.073	2490.	2690.	
59	971.10	0.046	2610.	2730.	
60	980.30	0.081	2450.	2670.	
61	983.50	0.030	2600.	2680.	
62	992.70	0.105	2400.	2680.	
63	1000.00	0.065	2490.	2660.	
64	1004.00	0.019	2660.	2710.	
65	1005.80	0.005	2620.	2630.	
66	1008.70	0.009	2650.	2670.	
67	1010.70	0.088	2420.	2650.	
68	1017.80	0.014	2630.	2670.	
69	1024.00	0.006	2660.	2670.	
70	1028.70	0.075	2440.	2640.	
71	1035.20	0.080	2450.	2660.	
72	1043.90	0.021	2600.	2660.	
73	1045.30	0.013	2630.	2670.	
74	1050.80	0.049	2510.	2640.	
75	1053.60	0.010	2650.	2680.	
76	1060.10	0.026	2570.	2640.	
77	1069.20	0.038	2550.	2650.	
78	1079.00	0.022	2610.	2670.	
79	1085.50	0.024	2620.	2680.	
80	1093.00	0.034	2570.	2660.	
81	1096.00	0.017	2610.	2660.	
82	1105.80	0.030	2590.	2670.	
83	1108.00	0.068	2490.	2670.	
84	1113.00	0.011	2640.	2670.	
85	1115.30	0.026	2580.	2650.	

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH m	POROSITY (HELIUM) fraction	BULK DENSITY kg/m3	GRAIN DENSITY kg/m3	DESCRIPTION
86	1112.00	0.059	2500.	2650.	
87	1132.00	0.064	2470.	2640.	
88	1139.60	0.036	2550.	2640.	
89	1144.80	0.005	2680.	2690.	
90	1147.50	0.054	2490.	2630.	
91	1151.70	0.037	2540.	2640.	
92	1154.60	0.005	2670.	2680.	
93	1160.00	0.035	2570.	2660.	
94	1168.00	0.015	2600.	2640.	
95	1173.00	0.039	2530.	2640.	
96	1180.00	0.010	2620.	2650.	
97	1192.10	0.034	2560.	2650.	
98	1195.30	0.011	2640.	2670.	
99	1200.50	0.033	2560.	2650.	
100	1204.00	0.034	2530.	2620.	
101	1212.80	0.032	2530.	2620.	
134	183.20	0.179	2260.	2760.	
135	184.00	0.238	2080.	2730.	
136	185.20	0.164	2290.	2740.	
137	189.50	0.223	2120.	2730.	
138	192.00	0.194	2200.	2730.	
139	197.00	0.136	2330.	2700.	
140	284.50	0.107	2390.	2670.	
141	327.50	0.077	2500.	2710.	
142	341.30	0.070	2490.	2680.	
143	416.80	0.077	2450.	2660.	
144	428.60	0.081	2470.	2690.	
145	452.00	0.108	2420.	2710.	
146	465.20	0.058	2590.	2740.	

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SAMPLE NUMBER	DEPTH m	POROSITY (HELIUM) fraction	BULK DENSITY kg/m3	GRAIN DENSITY kg/m3	DESCRIPTION
147	479.80	0.048	2590.	2720.	
148	491.00	0.056	2600.	2750.	
149	524.00	0.069	2570.	2760.	
150	533.00	0.100	2420.	2690.	
151	548.30	0.118	2430.	2760.	
152	560.40	0.061	2590.	2760.	
153	573.50	0.140	2330.	2710.	
154	607.20	0.112	2420.	2730.	
155	612.00	0.069	2510.	2700.	
156	641.50	0.087	2470.	2700.	
157	708.50	0.078	2470.	2680.	
158	743.80	0.079	2490.	2700.	
159	755.00	0.064	2520.	2690.	
160	766.80	0.059	2530.	2690.	
161	779.40	0.078	2520.	2730.	
162	791.20	0.105	2440.	2730.	
163	842.00	0.094	2470.	2730.	
164	853.90	0.089	2440.	2680.	
165	862.30	0.096	2420.	2680.	
166	886.30	0.044	2630.	2750.	
101	1216.10	0.024	2640.	2700.	
103	1222.00	0.025	2610.	2680.	
104	1226.00	0.010	2660.	2680.	
105	1234.10	0.023	2610.	2670.	
106	1243.00	0.011	2660.	2690.	
107	1249.20	0.032	2590.	2680.	
108	1258.00	0.026	2610.	2680.	
109	1269.00	0.046	2550.	2670.	
110	1274.00	0.038	2590.	2690.	

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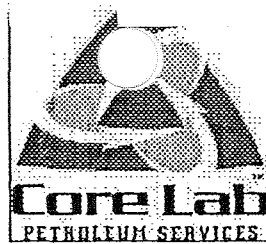
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SAMPLE NUMBER	DEPTH m	POROSITY (HELIUM) fraction	BULK DENSITY kg/m3	GRAIN DENSITY kg/m3	DESCRIPTION
111	1286.50	0.027	2630.	2700.	
112	1291.50	0.037	2590.	2690.	
113	1297.40	0.007	2690.	2710.	
114	1303.40	0.061	2520.	2690.	
115	1312.00	0.021	2610.	2670.	
116	1313.00	0.007	2670.	2690.	
117	1318.00	0.027	2590.	2660.	
118	1326.00	0.029	2620.	2700.	
119	1330.50	0.042	2550.	2660.	
120	1339.00	0.035	2580.	2670.	
121	1351.10	0.030	2630.	2710.	
122	1360.20	0.010	2710.	2730.	
123	1368.40	0.043	2570.	2690.	
124	1372.00	0.006	2680.	2700.	
125	1384.00	0.005	2700.	2700.	
126	1395.00	0.006	2670.	2680.	
127	1604.40	0.005	2740.	2740.	
128	1611.80	0.005	2720.	2720.	
129	1625.50	0.005	2710.	2710.	
130	1630.00	0.005	2740.	2740.	
131	1699.30	0.005	2790.	2790.	
133	1763.00	0.005	2810.	2810.	
132	1766.50	0.005	2790.	2790.	



CODE KEY - DESCRIPTIONS

A	= (Prefix A) Horizontal matrix permeability measured by pressure decay profile permeametry through a probe tip due to induced fractures	i	= Intercrystalline	SPH	= Humidity analysis of small plug sample at 60 degrees Celsius and 50 percent relative humidity
ACA	= Removed for advanced core analysis	incl	= Inclusions	SP	= Small plug (sample drilled from core in maximum horizontal direction and parallel to bedding plane where possible) permeability, porosity and grain density are measured
anhy	= Anhydrite	lam	= Laminae (laminated)	ss	= Sandstone
arg	= Argillaceous	ls	= Limestone	ssdy	= Slightly sandy (<20%)
AST	= Appears similar to	lv	= Large vug	sshly	= Slightly shaly (<20%)
bit	= Bitumen	m	= Medium	sty	= Stylolite (ic)
bk	= Break	mi	= Mud invaded	sulf	= Sulphur
c	= Coarse	mv	= Medium vug	sv	= Small vug
calc	= Calcite (calcareous)	NA	= Not analyzed by request	TEC	= Thermal Extraction Chromatography to determine oil richness
carb	= Carbonaceous	NP	= No permeability measurement possible due to poor sample quality	TS	= Thin section
cbl	= Cobble	NR	= Not received	uncon	= Unconsolidated
cgl	= Conglomerate	ool	= Oolitic	vc	= Very coarse
cht	= Chert	OB	= Overburden sample (permeability and porosity measured at net overburden stress)	vfrac	= Vertical fracture
coal	= Coal/coal inclusion	PR	= Preserved for future studies	vf	= Very fine
coq	= Coquina	pbl	= Pebble	VIS	= Viscosity of oil measured
dol	= Dolomite	PFD	= Preliminary Full Diameter sample	VOB	= Vertical overburden sample (vertical permeability measured at net overburden stress)
f	= Fine	PSP	= Preliminary Small Plug sample	vshy	= Very shaly (>40%)
FD	= Full diameter analysis including three directional permeabilities, porosity and densities	PSA	= Particle size analysis	VSP	= Vertical small plug drilled from whole core to measure vertical permeability and occasionally porosity
foss	= Fossil (fossiliferous)	ppv	= Pinpoint vug	vug	= Vuggy (vuggular)
frac	= Fracture (undifferentiated)	pyr	= Pyrite (pyritic)	ws	= Water sand
fri	= Friable	pyrbit	= Pyrobitumen	XRD	= X-ray diffraction
glauc	= Glauconite (glaucconitic)	ru	= Rubble	*	= Perm unavailable due to broken core
grnl	= Granule	SA	= Sieve analysis	10240	= Permeability >10 Darcies, (maximum routine permeability measurement)
gyp	= Gypsum	sd	= Sand		
hfrac	= Horizontal fracture	SEM	= Scanning electron microscope analysis		
hal	= Halite (salt)	sh	= Shale		
IFD	Inner Full Diameter, (a Full diameter sample is drilled from the bulk portion of the core in the vertical direction for permeability and porosity measurements)	shy	= Moderately shaly (20% - 40%)		
		sid	= Siderite		
		siltst	= Siltstone		
		silty	= Silty		
		SPT	= Small Plug used for tracer analysis		