

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

April 30, 1980

L & L Oil Company
P.O. Box 13
Benedict, Kansas 66741

Gentlemen:

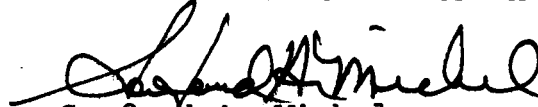
Enclosed herewith are the results of tests run on the rotary core taken from the Morton Lease, Well No. 16, Wilson County, Kansas and submitted to our laboratory on April 18, 1980.

The core was left in the core barrel for 16 hours before being sampled. The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours, ✓

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Sanford A. Michel

SAM/kas
5 c to Benedict, Kansas

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GENERAL INFORMATION & SUMMARY

Company L & L Oil Company Lease Morton Well No. 16

Location -

Section - Twp. - Rge. - County Wilson State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

1031.0

Bottom of Core

1046.9

Top of Sand

1037.1

Bottom of Sand

1046.9

Total Feet of Permeable Sand

4.7

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1

2.1

2.1

1 - 2

1.6

3.7

2 & Above

1.0

4.7

Average Permeability Millidarcys

1.2

Average Percent Porosity

10.1

Average Percent Oil Saturation

39.4

Average Percent Water Saturation

50.8

Average Oil Content, Bbls./A. Ft.

306.

Total Oil Content, Bbls./Acre

2,605.

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LOG

Name L & L Oil Company Lease Morton Well No. 16

Depth Interval,
Feet

Description

1031.0 - 1032.7

Gray sandy shale.

1032.7 - 1033.0

Coal.

1033.0 - 1037.1

Gray sandy shale.

1037.1 - 1039.6

Brownish gray shaly sandstone.

1039.6 - 1040.9

Gray sandy shale.

1040.9 - 1046.9

Grayish brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company L & L Oil Company Lease Morton Well No. 16

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1037.3	9.8	43	52	95	327	Imp.	0.9	0.9	294	0.00
2	1038.5	5.8	45	49	94	202	Imp.	1.0	1.9	202	0.00
3	1039.5	13.4	27	53	80	281	1.1	0.6	2.5	169	0.66
4	1041.8	10.4	33	55	88	266	0.26	1.1	3.6	293	0.29
5	1042.5	9.9	36	55	91	277	0.77	1.0	4.6	277	0.77
6	1043.5	9.5	40	57	97	295	1.9	1.0	5.6	295	1.90
7	1044.6	9.9	40	55	95	307	2.0	1.0	6.6	307	2.00
8	1045.5	14.3	42	32	74	466	Imp.	1.0	7.6	466	0.00
9	1046.8	9.6	45	50	95	335	Imp.	0.9	8.5	302	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	L & L Oil Company	Lease	Morton	Well No.	16
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
1037.1 - 1046.9	4.7	1.2	5.62		

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
1037.1 - 1046.9	8.5	10.1	39.4	50.8	306	2,605