



OILFIELD RESEARCH LABORATORIES

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

May 7, 1980

L & L Oil Company
P.O. Box 13
Benedict, Kansas 66714

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Morton Lease, Well No. 17, Wilson County, Kansas, and submitted to our laboratory on April 22, 1980.

The core was in the core barrel 19½ hours before it was received in our laboratory and then sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem

5 c to Benedict, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company L & L Oil Company Lease Morton Well No. 17
 Location -
 Section - Twp. - Rge. - County Wilson State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

1020.0

Bottom of Core

1036.7

Top of Sand

1020.0

Bottom of Sand

1034.6

Total Feet of Permeable Sand

8.5

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5

3.9

3.9

5 - 15

3.6

7.5

15 & Above

1.0

8.5

Average Permeability Millidarcys

8.8

Average Percent Porosity

16.3

Average Percent Oil Saturation

31.3

Average Percent Water Saturation

30.6

Average Oil Content, Bbls./A. Ft.

399.

Total Oil Content, Bbls./Acre

4,865.

OILFIELD RESEARCH LABORATORIES

LOGName L & L Oil Company Lease Morton Well No. 17

<u>Depth Interval, Feet</u>	<u>Description</u>
1020.0 - 1020.8	Brown sandstone.
1020.8 - 1022.1	Brown shaly sandstone.
1022.1 - 1022.8	Brown and gray laminated sandstone and shale.
1022.8 - 1024.7	Brown sandstone.
1024.7 - 1028.1	Black carbonaceous shaly sandstone.
1028.1 - 1028.7	Brown slightly carbonaceous sandstone.
1028.7 - 1031.8	Black carbonaceous shaly sandstone.
1031.8 - 1032.2	Gray sandy shale.
1032.2 - 1032.7	Gray shaly sandstone.
1032.7 - 1034.0	Gray sandy shale.
1034.0 - 1034.6	Gray very shaly sandstone.
1034.6 - 1036.7	Gray sandy shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company L & L Oil Company

Lease Morton

Well No. 17

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	1020.5	17.2	28	39	67	374	4.2	0.8	0.8	299	3.36
2	1021.6	17.7	27	32	59	371	12.	1.3	2.1	482	15.60
3	1023.6	17.8	31	26	57	428	4.3	1.0	3.1	428	4.30
4	1024.5	18.0	35	27	62	489	10.	0.9	4.0	440	9.00
5	1025.5	18.2	32	21	53	452	14.	1.4	5.4	633	19.60
6	1026.6	20.3	35	28	63	551	22.	1.0	6.4	551	22.00
7	1027.5	16.2	31	25	56	390	0.37	1.0	7.4	390	0.37
8	1028.5	16.1	30	23	53	375	Imp.	0.6	8.0	225	0.00
9	1029.6	14.4	37	21	58	413	0.32	1.1	9.1	454	0.35
10	1030.5	14.4	32	30	62	358	Imp.	1.0	10.1	358	0.00
11	1031.5	15.2	37	28	65	436	Imp.	1.0	11.1	436	0.00
12	1032.3	11.2	14	61	75	122	Imp.	0.5	11.6	61	0.00
13	1034.2	8.6	27	71	98	180	Imp.	0.6	12.2	108	0.00

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.	17
L & L Oil Company	Morton		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
1020.0 - 1034.6	8.5	8.8	74.58
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation
1020.0 - 1034.6	12.2	16.3	31.3
			Average Oil Content Bbl./A. Ft.
			Total Oil Content Bbls./Acre
1020.0 - 1034.6	12.2	16.3	31.3
			399
			4,865