

OILFIELD RESEARCH LABORATORIES

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

March 27, 1980

M & O Oil Company
R.R. #4, Box 88
Fredonia, Kansas 66736

Gentlemen:

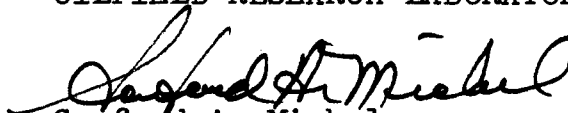
Enclosed herewith are the results of tests run on the rotary core taken from the Newby Lease, Well No. 1, Wilson County, Kansas and submitted to our laboratory on March 19, 1980.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours, ,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/kas
5 c to Fredonia, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company M & O Oil Company Lease Newby Well No. 1

Location 800' EWL & 2200' NSL

Section 3 Twp. 30S Rgs. 15E County Wilson State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	1040.0
Bottom of Core	1061.6
Top of Sand	1040.0
Bottom of Sand	1053.7
Total Feet of Permeable Sand	12.7

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 40	2.0	2.0
40 - 80	4.0	6.0
80 & Above	6.7	12.7

Average Permeability Millidarcys	71.6
Average Percent Porosity	18.1
Average Percent Oil Saturation	23.8
Average Percent Water Saturation	51.7
Average Oil Content, Bbls./A. Ft.	338.
Total Oil Content, Bbls./Acre	4,397.

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LOG

Name M & O Oil Company Lease Newby Well No. 1

Depth Interval,
Feet

Description

1040.0 - 1052.7

Brown slightly calcareous sandstone.

1052.7 - 1053.1

Grayish brown conglomeratic shaly sandstone.

1053.1 - 1053.4

Gray sandy shale.

1053.4 - 1053.7

Gray shaly sandstone.

1053.7 - 1061.6

Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1040.5	17.9	26	51	77	361	60.	1.0	1.0	361	60.00
2	1041.5	18.9	23	45	68	337	74.	1.0	2.0	337	74.00
3	1042.5	16.1	28	56	84	350	83.	1.0	3.0	350	83.00
4	1043.5	17.5	23	53	76	312	90.	1.0	4.0	312	90.00
5	1044.5	19.7	31	43	74	474	96.	1.0	5.0	474	96.00
6	1045.5	19.6	27	48	75	411	83.	1.0	6.0	411	83.00
7	1046.5	20.8	18	45	63	291	27.	1.0	7.0	291	27.00
8	1047.5	17.0	11	85	96	145	32.	1.0	8.0	145	32.00
9	1048.5	18.6	22	47	69	318	78.	1.0	9.0	318	78.00
10	1049.5	16.4	21	65	86	267	50.	1.0	10.0	267	50.00
11	1050.5	18.8	26	48	74	379	97.	1.0	11.0	379	97.00
12	1051.5	18.9	31	45	76	455	80.	1.0	12.0	455	80.00
13	1052.5	18.7	28	46	74	406	84.	0.7	12.7	284	58.80
14	1053.5	5.7	10	29	39	44	Imp.	0.3	13.0	13	0.00

Company M & O Oil Company

Lease Newby

Well No. 1

SUMMARY OF PERMEABILITY & SATURATION TESTS

Company M & O Oil Company Lease Newby Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
1040.0 - 1053.7	12.7	71.6	908.80

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
1040.0 - 1053.7	13.0	18.1	23.8	51.7	338	4,397