



OILFIELD RESEARCH LABORATORIES

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

October 17, 1979

Morris Oil Company
R.R. #4
Fredonia, Kansas 66736

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Morris Lease, Well No. 3, Wilson County, Kansas, and submitted to our laboratory on October 3, 1979.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

DSAM/tem
5 c to Fredonia, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company	<u>Morris Oil Company</u>	Lease	<u>Morris</u>	Well No.	<u>3</u>
Location	<u>150' NSL & 2,160' EWL - SW 1/4</u>				
Section	<u>3</u>	Twp.	<u>30S</u>	Rge.	<u>15E</u>
		County	<u>Wilson</u>	State	<u>Kansas</u>
Name of Sand					Bartlesville
Top of Core					1025.0
Bottom of Core					1050.2
Top of Sand					1025.0
Bottom of Sand					1050.2
Total Feet of Permeable Sand					24.9
Total Feet of Floodable Sand					
Distribution of Permeable Sand:					
Permeability Range Millidarcys	Feet	Cum. Ft.			
0 - 20	9.8	9.8			
20 - 30	2.3	12.1			
30 - 40	4.3	16.4			
40 - 50	3.0	19.4			
50 - 70	5.5	24.9			
Average Permeability Millidarcys					30.3
Average Percent Porosity					18.6
Average Percent Oil Saturation					21.2
Average Percent Water Saturation					52.7
Average Oil Content, Bbls./A. Ft.					310.
Total Oil Content, Bbls./Acre					7,723.
Average Percent Oil Recovery by Laboratory Flooding Tests					
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.					
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre					
Total Calculated Oil Recovery, Bbls./Acre					
Packer Setting, Feet					
Viscosity, Centipoises @					
A. P. I. Gravity, degrees @ 60 °F					
Elevation, Feet					

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LOG

Company Morris Oil Company Lease Morris Well No. 3

<u>Depth Interval, Feet</u>	<u>Description</u>
1025.0 - 1028.7	Grayish light brown sandstone.
1028.7 - 1040.3	Light brown sandstone.
1040.3 - 1041.7	Gray shaly sandstone.
1041.7 - 1047.2	Light brown sandstone.
1047.2 - 1048.7	Gray shaly sandstone.
1048.7 - 1049.0	Coal.
1049.0 - 1050.2	Gray shaly conglomerate.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Morris Oil CompanyLease MorrisWell No. 3

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	1025.5	17.6	24	42	66	328	7.4	1.0	1.0	328	7.40
2	1026.5	18.6	33	33	66	476	17.	1.0	2.0	476	17.00
3	1027.5	18.0	26	44	70	363	16.	1.0	3.0	363	16.00
4	1028.5	19.4	34	34	68	512	19.	0.7	3.7	358	13.30
5	1029.5	20.3	34	33	67	536	26.	1.3	5.0	697	33.80
6	1030.5	19.5	32	37	69	484	44.	1.0	6.0	484	44.00
7	1031.5	19.0	32	44	76	472	47.	1.0	7.0	472	47.00
8	1032.5	18.9	30	50	80	440	18.	1.0	8.0	440	18.00
9	1033.5	18.0	21	55	76	293	39	1.0	9.0	293	39.00
10	1034.5	17.1	10	66	76	133	16.	1.0	10.0	133	16.00
11	1035.5	18.8	15	58	73	219	23.	1.0	11.0	219	23.00
12	1036.5	19.1	24	49	73	356	53.	1.0	12.0	356	53.00
13	1037.5	18.9	23	51	74	337	33.	1.0	13.0	337	33.00
14	1038.5	19.0	25	51	76	369	32.	1.0	14.0	369	32.00
15	1039.5	18.8	21	51	72	306	32.	1.3	15.3	398	41.60
16	1040.5	18.8	2	82	84	29	11.	0.7	16.0	20	7.70
17	1041.5	18.5	1	83	84	14	9.2	0.7	16.7	10	6.44
18	1042.5	18.3	16	47	63	227	52.	1.3	18.0	295	67.60
19	1043.5	19.9	23	53	76	355	60.	1.0	19.0	355	60.00
20	1044.5	19.0	24	49	73	354	47.	1.0	20.0	354	47.00
21	1045.5	18.6	24	51	75	346	61.	1.0	21.0	346	61.00
22	1046.5	18.9	23	51	74	337	52.	1.2	22.2	404	62.40
23	1047.5	18.0	8	77	85	112	3.4	0.8	23.0	90	2.72
24	1048.5	18.4	5	67	72	71	7.7	0.7	23.7	50	5.39
25	1059.0	16.2	5	83	88	63	0.13	1.2	24.9	76	0.16

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Morris Oil Company	Lease	Morris	Well No.	3
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
1025.0 - 1040.3	15.3	28.4	434.10		
1040.3 - 1050.2	9.6	33.4	320.41		
1025.0 - 1050.2	24.9	30.3	754.51		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
1025.0 - 1040.3	15.3	25.6	46.6	374	5,723
1040.3 - 1050.2	9.6	14.3	62.4	208	2,000
1025.0 - 1050.2	24.9	21.2	52.7	310	7,723