



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

700 NORTH MISSION - OKMULGEE, OKLAHOMA - PHONE SK6-4444

Chanute, Kansas

May 8, 1965

Midland Oil & Gas Company
211 C.A. Johnson Building
Denver 2, Colorado

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Miller Lease, Well No. F-6, Wilson County, Kansas, and submitted to our laboratory on May 4, 1965.

This core was sampled and the samples sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:rf

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GENERAL INFORMATION & SUMMARY

Company Midland Oil & Gas Co. Lease Miller Well No. F-6

Location 1100' EWL & 1100' SNL, SW $\frac{1}{4}$

Section 12 Twp. 28S Rge. 15E County Wilson State Kansas

Name of Sand	-		Bartlesville
Top of Core	-		1049.0
Bottom of Core	-		1062.4
Top of ^{Permeable} Sand	-		1050.6
Bottom of Sand	-	(Cored)	1062.4
Total Feet of Permeable Sand	-		7.0
Total Feet of Floodable Sand	-		

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 2	2.2	2.2
2 - 3	2.8	5.0
3 & above	2.0	7.0

Average Permeability Millidarcys	-		5.3
Average Percent Porosity	-		13.9
Average Percent Oil Saturation	-		35.3
Average Percent Water Saturation	-		39.4
Average Oil Content, Bbls./A. Ft.	-		381.
Total Oil Content, Bbls./Acre	-		4,416.
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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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Midland Oil & Gas Co. Lease Miller Well No. F-6

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	1049.1	11.8	38	50	88	348	Imp.	0.6	0.6	209	0.00
2	1050.1	13.5	35	41	76	376	Imp.	1.0	1.6	376	0.00
3	1051.1	13.3	34	38	72	351	1.9	1.0	2.6	351	1.90
4	1052.1	13.3	34	34	68	351	Imp.	1.0	3.6	351	0.00
5	1053.1	13.3	27	49	76	279	Imp.	1.0	4.6	279	0.00
6	1054.1	11.0	38	54	92	324	Imp.	1.0	5.6	324	0.00
7	1055.1	13.0	36	37	73	363	0.42	1.2	6.8	436	0.50
8	1057.1	18.2	40	30	70	565	2.8	1.1	7.9	622	3.08
9	1058.1	10.7	39	53	92	324	25.1	1.0	8.9	324	25.00
10	1059.1	15.9	36	29	65	444	3.1	1.0	9.9	444	3.10
11	1060.1	17.1	33	30	63	438	1.5	1.0	10.9	438	1.50
12	1061.1	14.6	33	31	64	374	2.7	0.7	11.6	262	1.89
Total								-----		4,416	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Midland Oil & Gas Co.	Lease	Miller	Well No.	F-6
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
	1050.6 - 1051.6	1.0	1.9	1.90	
	1054.6 - 1061.3	6.0	5.8	35.07	
	1050.6 - 1061.3	7.0	5.3	36.97	
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	1049.0 - 1054.6	5.6	34.1	44.0	1,890
	1054.6 - 1061.3	6.0	36.4	35.2	2,526
	1049.0 - 1061.3	11.6	35.3	39.4	4,416