OILFIELD RESEARCH LABORATORIES

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

March 20, 1979

William H. McCluskey
127 W. 10th
430
Kansas City, Missouri 64105

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the McCluskey Ranch Lease, Well No. 9, Miami County, Kansas, and submitted to our laboratory on March 17, 1979.

The core was sampled by a representative of Oilfield Research Laboratories after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

BRP:km
3 c to Kansas City, Missouri
2 c to Lee Raymond
Box 141
Osawatomie, Kansas 66064

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company William H. McCluskey Lease McCluskey Ranch Well No. 9

Location C SW SE SW¼

Section 9 Twp. 19S Rge. 24E County Miami State Kansas

Name of Sand	Peru
Top of Core	247.0
Bottom of Core	257.8
Top of Sand	247.0
Bottom of Sand	257.8
Total Feet of Permeable Sand	9.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 45	2.1	2.1
45 - 90	1.0	3.1
90 - 150	1.0	4.1
150 - 260	1.6	5.7
260 - 350	1.8	7.5
350 & Above	2.0	9.5

Average Permeability Millidarcys	249.3
Average Percent Porosity	21.8
Average Percent Oil Saturation	53.8
Average Percent Water Saturation	26.3
Average Oil Content, Bbls./A. Ft.	901.
Total Oil Content, Bbls./Acre	8,563.
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 William H. McCluskey Lease McCluskey Ranch Well No. 9

The detailed log of the formation cored is as follows:

Depth Interval, Feet	Description
247.0 - 250.6	Very dark brown slightly calcareous sandstone.
250.6 - 251.0	Light brown very shaly sandstone.
251.0 - 251.8	Gray and brown laminated sandstone and shale.
251.8 - 252.0	Hard white limestone.
252.0 - 253.6	Dark brown calcareous sandstone.
253.6 - 254.3	Hard gray limestone.
254.3 - 257.8	Dark brown calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company William H. McCluskey Lease McCluskey Ranch Well No. 9

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	247.5	25.0	54	26	80	1047	145.	1.0	1.0	1,047	145.00
2	248.5	18.0	51	40	91	712	518.	1.0	2.0	712	518.00
3	249.5	18.4	61	24	85	871	588.	1.0	3.0	871	588.00
4	250.5	21.2	49	26	75	806	256.	0.6	3.6	484	153.60
5	251.5	23.1	49	33	82	876	35.	0.8	4.4	701	28.00
6	252.5	22.6	53	22	75	929	305.	1.0	5.4	929	305.00
7	253.5	21.0	62	17	89	1010	42.	0.6	6.0	606	25.20
8	254.5	23.8	59	17	76	1009	2.2	0.7	6.7	706	1.54
9	255.5	21.9	48	34	82	816	79.	1.0	7.7	816	79.00
10	256.5	22.7	53	25	78	933	253.	1.0	8.7	933	253.00
11	257.5	22.2	55	18	73	947	340.	0.8	9.5	758	272.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company William H. McCluskey Lease McCluskey Ranch Well No. 9

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
247.0 - 257.8	9.5	249.3	2368.34

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
247.0 - 257.8	9.5	21.8	53.8	26.3	901	8,563