OILFIELD RESEARCH LABORATORIES
536 NORTH HIGHLAND · CHANUTE, KANSAS 66720 · PHONE (316) 431-2650

January 11, 1980

Chas. A. Neal and Company
P.O. Box 707
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Tarter Lease, Well No. TW-7, Wilson County, Kansas, and submitted to our laboratory on December 19, 1979.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/tem
5 c to Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Company Chas. A. Neal and Company Lease Tarter Well No. TW-7

Location $NE\frac{1}{4}$ $NW\frac{1}{4}$ $NW\frac{1}{4}$

Section 21 Twp. 28S Rge. 15E County Wilson State Kansas

Name of Sand	Bartlesville
Top of Core	1009.0
Bottom of Core	1026.5
Top of Sand	1009.0
Bottom of Sand (Tested)	1026.0
Total Feet of Permeable Sand (Tested)	8.6
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	1.0	1.0
100 - 300	2.6	3.6
300 - 500	3.0	6.6
500 & Above	2.0	8.6

Average Permeability Millidarcys	421.6
Average Percent Porosity	24.4
Average Percent Oil Saturation	24.0
Average Percent Water Saturation	56.1
Average Oil Content, Bbls./A. Ft.	456.
Total Oil Content, Bbls./Acre	3,925.
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

Name Chas. A. Neal and Company Lease Tarter Well No. TW-7

Depth Interval, Feet	Description
1009.0 - 1009.6	Brown sandstone.
1009.6 - 1010.1	Grayish brown shaly sandstone.
1010.1 - 1014.7	Brown sandstone.
1014.7 - 1016.0	Gray sandy shale.
1016.0 - 1021.9	Brown sandstone.
1021.9 - 1024.4	Brown and gray laminated sandstone and shale.
1024.4 - 1026.5	Light brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Chas. A. Neal and Company Lease Tarter Well No. TW-7

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	1009.5	24.7	27	54	81	517	188.	0.6	0.6	310	112.80
2	1011.5	26.4	28	63	91	574	280.	1.0	1.6	574	280.00
3	1013.4	28.9	20	61	81	488	415.	1.0	2.6	488	415.00
4	1016.2	28.9	25	47	72	561	1135.	1.0	3.6	561	1135.00
5	1018.7	24.1	23	58	81	430	221.	1.0	4.6	430	221.00
6	1019.6	23.3	25	52	77	452	679.	1.0	5.6	452	679.00
7	1021.7	23.9	24	41	65	445	467.	1.0	6.6	445	467.00
8	1023.9	16.3	27	48	75	341	1.7	1.0	7.6	341	1.70
9	1025.8	23.2	18	80	98	324	314.	1.0	8.6	324	314.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Chas. A. Neal and Company Lease Tarter Well No. TW-7

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
1009.0 - 1026.0	8.6	421.6	3625.50

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
1009.0 - 1026.0	8.6	24.4	24.0	56.1	456	3,925