

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:

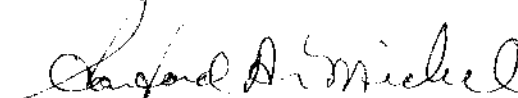
Enclosed herewith are the results of tests run on the rotary core taken from the Tarter Lease, Well No. TW-7, Wilson County, Kansas, and submitted to our laboratory on December 19, 1979.

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

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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			Ft.	Cum. Ft.		
1	1009.5	24.7	27	54	517	188.	0.6	0.6	310	112.80
2	1011.5	26.4	28	63	574	280.	1.0	1.6	574	280.00
3	1013.4	28.9	20	61	488	415.	1.0	2.6	488	415.00
4	1016.2	28.9	25	47	561	1135.	1.0	3.6	561	1135.00
5	1018.7	24.1	23	58	430	221.	1.0	4.6	430	221.00
6	1019.6	23.3	25	52	452	679.	1.0	5.6	452	679.00
7	1021.7	23.9	24	41	445	467.	1.0	6.6	445	467.00
8	1023.9	16.3	27	48	341	1.7	1.0	7.6	341	1.70
9	1025.8	23.2	18	80	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 Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	1009.0 - 1026.0	8.6	24.0	56.1	456	3,925