



OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

June 2, 1965

Fred E. Wood & Associates
Suite 204, 200 Sixteenth Street
Denver, Colorado

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Scott Lease, Well No. 47-HE, Wilson County, Kansas, and submitted to our laboratory on May 29, 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

John L. Pate
John L. Pate

JLP:rf

4 c. - Denver, Colorado
1 c. - A.W. Bailey

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GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Associates Lease Scott Well No. 47-HE

Location N $\frac{1}{2}$, SE $\frac{1}{4}$

Section 33 Twp. 30S Rge. 16E County Wilson State Kansas

Name of Sand	-	Bartlesville
Top of Core	-	761.0
Bottom of Core	-	781.0
Top of Sand	-	761.0
Bottom of Sand	-	780.7
Total Feet of Permeable Sand	-	17.6
Total Feet of Floodable Sand	-	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 1	1.0	1.0
1 - 10	4.0	5.0
10 & above	12.6	17.6

Average Permeability Millidarcys	-	18.0
Average Percent Porosity	-	15.8
Average Percent Oil Saturation	-	37.2
Average Percent Water Saturation	-	44.0
Average Oil Content, Bbls./A. Ft.	-	453.
Total Oil Content, Bbls./Acre	-	8,931.
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	-	40.
Elevation, Feet	-	

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-LOG-

Company Fred E. Wood & Associates Lease Scott Well No. 47-HE

Depth Interval, Description
Feet

761.0 - 776.6 - Brown, micaceous, slightly shaly sandstone.

776.6 - 778.6 - Dark, carbonaceous sandstone.

778.6 - 780.7 - Dark, carbonaceous, shaly sandstone.

780.7 - 781.0 - Coal.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Fred E. Wood & Associates Lease Scott Well No. 47-HE

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.		
1	761.1	14.0	36.	42	392	18.	0.6	0.6	235	10.80
2	762.1	14.8	51	46	585	8.3	1.0	1.6	585	8.30
3	763.1	18.6	36	36	520	34.	1.0	2.6	520	34.00
4	764.1	15.1	37	46	434	16.	1.0	3.6	434	16.00
5	765.1	15.3	40	42	475	19.	1.0	4.6	475	19.00
6	766.1	15.2	39	45	460	22.	1.0	5.6	460	22.00
7	767.1	15.7	29	52	353	8.2	1.0	6.6	353	8.20
8	768.1	15.4	33	56	394	5.0	1.0	7.6	394	5.00
9	769.1	16.7	33	52	428	8.0	1.0	8.6	428	8.00
10	770.1	16.3	24	50	304	23.	1.0	9.6	304	23.00
11	771.1	17.1	42	48	557	28.	1.0	10.6	557	28.00
12	772.1	16.8	33	50	431	25.	1.0	11.6	431	25.00
13	773.1	16.7	47	50	609	24.	1.0	12.6	609	24.00
14	774.1	17.8	31	45	429	31.	1.0	13.6	429	31.00
15	775.1	17.0	37	47	489	21.	1.0	14.6	489	21.00
16	776.1	17.1	35	41	465	21.	1.0	15.6	465	21.00
17	777.1	16.2	37	39	465	13.	1.0	16.6	465	13.00
18	778.1	14.7	49	27	558	0.50	1.0	17.6	558	0.50
19	779.1	12.7	33	32	326	Imp.	1.0	18.6	326	0.00
20	780.1	11.8	41	36	376	Imp.	1.1	19.7	414	0.00
							Total	8,931	8,931	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Fred E. Wood & Associates		Lease	Scott	Well No.
					47-HE
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
761.0 - 769.6	761.0 - 769.6	8.6	15.3	131.30	3,884
769.6 - 780.7	769.6 - 780.7	9.0	20.7	186.50	5,047
761.0 - 780.7	761.0 - 780.7	17.6	18.0	317.80	8,931
Depth Interval, Feet	Feet of Core Analyzed	Average Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
761.0 - 769.6	8.6	15.7	37.2	46.5	452
769.6 - 780.7	11.1	15.8	37.2	42.2	455
761.0 - 780.7	19.7	15.8	37.2	44.0	453