



OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

May 19, 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 Wolfe Lease, Well No. 46-FE, Wilson County, Kansas, and submitted to our laboratory on May 15 and 16, 1965.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Associates Lease Wolfe Well No. 46-FE

Location NE 1/4

Section 30 Twp 30S Rge 10E County Wilson State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 760.0

Bottom of Core - - - - - 788.0

Top of Sand - - - - - 760.0

Bottom of Sand - - - - - (Tested) 780.6

Total Feet of Permeable Sand - - - - - 13.3

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand: Permeability Range Millidarcys

	Feet	Cum. Ft.
0 - 1	3.6	3.6
1 - 5	4.0	7.6
5 - 10	4.7	12.3
10 & above	1.0	13.3

Average Permeability Millidarcys - - - - - 4.5

Average Percent Porosity - - - - - 14.3

Average Percent Oil Saturation - - - - - 46.0

Average Percent Water Saturation - - - - - 32.2

Average Oil Content, Bbls./A. Ft. - - - - - 519.

Total Oil Content, Bbls./Acre - - - - - 8,814.

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 Fred E. Wood & Assoc. Lease Wolfe Well No. 46-FEDepth Interval, Description
Feet

760.0 - 769.3 - Light brown, shaly sandstone.

769.3 - 772.9 - Dark shale.

772.9 - 780.6 - Brown, slightly shaly sandstone.

780.6 - 782.0 - Grayish light brown, sandy shale.

782.0 - 783.1 - Coal.

783.1 - 784.0 - Brown shale.

784.0 - 788.0 - Shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

46-FH

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	760.1	14.5	41	33	74	461	0.89	0.6	0.6	277	0.53
2	761.1	14.0	43	30	73	467	Imp.	1.0	1.6	467	0.00
3	762.1	12.5	55	39	94	533	0.40	1.0	2.6	533	0.40
4	763.1	13.1	30	38	68	304	Imp.	1.0	3.6	304	0.00
5	764.1	12.0	27	42	69	251	1.8	1.0	4.6	251	1.80
6	765.1	12.3	34	40	74	325	0.75	1.0	5.6	325	0.75
7	766.1	12.2	50	38	88	473	0.87	1.0	6.6	473	0.87
8	767.1	13.7	49	39	88	520	2.1	1.0	7.6	520	2.10
9	768.1	13.5	40	35	75	419	2.4	1.0	8.6	419	2.40
10	769.1	13.4	38	34	72	395	Imp.	0.7	9.3	276	0.00
11	773.1	16.6	59	23	82	759	5.1	0.7	10.0	531	3.57
12	774.1	16.5	62	23	85	792	15.4	1.0	11.0	792	15.00
13	775.1	16.4	55	22	77	699	6.4	1.0	12.0	699	6.40
14	776.1	14.8	50	28	78	574	10.2	1.0	13.0	574	10.00
15	777.1	16.0	52	23	75	645	8.2	1.0	14.0	645	8.20
16	778.1	15.7	49	30	79	596	5.1	1.0	15.0	596	5.10
17	779.1	16.3	49	31	80	619	2.5	1.0	16.0	619	2.50
18	780.1	14.7	45	30	75	513	Imp.	1.0	17.0	513	0.00
								Total-----		8,814	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Fred E. Wood & Associates		Lease	Wolfe		Well No.	46-FE
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
760.0 - 769.3	6.6		6.6	1.3	8.85			
772.9 - 780.6	6.7		6.7	7.6	50.77			
760.0 - 780.6	13.3		13.3	4.5	59.62			

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
760.0 - 769.3	9.3	13.1	40.8	37.1	414	3,845
772.9 - 780.6	7.7	15.9	52.4	26.4	645	4,969
760.0 - 780.6	17.0	14.3	46.0	32.2	519	8,814