



OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

April 5, 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 Southerland Lease, Well No. 37-Z, Wilson County, Kansas, and submitted to our laboratory on April 2, 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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Assoc. Lease Southerland Well No. 37-Z

Location _____

Section _____ Twp. _____ Rge. _____ County Wilson State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - (Received) - - - - - 776.6

Bottom of Core - - (Received) - - - - - 786.6

Top of Sand - - - - - 776.6

Bottom of Sand - - - - - 786.6

Total Feet of Permeable Sand - - - - - 8.0

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1

2.0

2.0

1 - 5

6.0

8.0

Average Permeability Millidarcys - - - - - 2.4

Average Percent Porosity - - - - - 15.9

Average Percent Oil Saturation - - - - - 42.1

Average Percent Water Saturation - - - - - 24.9

Average Oil Content, Bbls./A. Ft. - - - - - 521.

Total Oil Content, Bbls./Acre - - - - - 5,211.

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 Southerland Well No. 37-Z

Depth Interval, Description
Feet

776.6 - 783.6 - Brown to dark, carbonaceous, slightly shaly sandstone.

783.6 - 786.6 - Dark carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred E. Wood & Associates Lease Southerland Well No. 37-Z

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	777.1	16.5	42	23	538	1.3	1.0	1.0	538	1.30
2	778.1	14.3	46	34	511	4.1	1.0	2.0	511	4.10
3	779.1	15.0	25	28	292	2.1	1.0	3.0	292	2.10
4	780.1	15.4	39	29	466	0.78	1.0	4.0	466	0.78
5	781.1	13.5	47	27	493	0.78	1.0	5.0	493	0.78
6	782.1	11.4	46	31	408	Imp.	1.0	6.0	408	0.00
7	783.1	18.8	43	21	628	3.9	1.0	7.0	628	3.90
8	784.1	17.5	45	20	611	3.3	1.0	8.0	611	3.30
9	785.1	17.2	44	19	588	2.7	1.0	9.0	588	2.70
10	786.1	19.8	44	17	676	Imp.	1.0	10.0	676	0.00
Total							-----		5,211	