



OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

August 13, 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 Long Lease, Well No. 37-VP, Wilson County, Kansas, and submitted to our laboratory on August 9, 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

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

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

Long 37-VP

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Associates Lease Long Well No. 37-VP

Location _____

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

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 783.0

Bottom of Core - - - - - 798.0

Top of Sand - - - - - (Tested) - - - - - 783.0

Bottom of Sand - - - - - 797.5

Total Feet of Permeable Sand - - - - - 14.5

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1	1.0	1.0
1 - 5	10.7	11.7
5 - 10	1.8	13.5
10 & above	1.0	14.5

Average Permeability Millidarcys - - - - - 3.0

Average Percent Porosity - - - - - 15.5

Average Percent Oil Saturation - - - - - 33.2

Average Percent Water Saturation - - - - - 46.4

Average Oil Content, Bbls./A. Ft. - - - - - 405.

Total Oil Content, Bbls./Acre - - - - - 5,867.

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 & Associates Lease Long Well No. 37-VP

Depth Interval, Feet	Description
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783.0 - 786.4	Brown, slightly shaly sandstone.
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786.4 - 794.0	Light brown, shaly sandstone.
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794.0 - 797.5	Dark carbonaceous sandstone.
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797.5 - 797.7	Coal.
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797.7 - 798.0	Shale.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred E. Wood & Associates Lease Long Well No. 37-VP

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	783.1	14.4	31	42	73	346	1.2	0.6	0.6	208	0.72
2	784.1	14.7	37	34	71	423	1.7	1.0	1.6	423	1.70
3	785.1	15.1	27	48	75	316	12.	1.0	2.6	316	12.00
4	786.1	15.4	32	46	78	382	5.1	0.8	3.4	306	4.08
5	787.1	14.0	28	57	85	305	1.8	1.2	4.6	366	2.16
6	788.1	13.9	27	51	78	292	1.2	1.0	5.6	292	1.20
7	789.1	15.1	29	55	84	340	2.8	1.0	6.6	340	2.80
8	790.1	15.5	20	66	86	241	5.1	1.0	7.6	241	5.10
9	791.1	16.3	25	51	76	316	4.4	1.0	8.6	316	4.40
10	792.1	16.8	24	59	83	314	1.8	2.4	11.0	754	4.32
11	794.1	14.8	45	33	78	517	1.5	0.6	11.6	310	0.90
12	795.1	15.1	46	30	76	539	0.28	1.0	12.6	539	0.28
13	796.1	16.1	56	25	81	701	2.2	1.0	13.6	701	2.20
14	797.1	18.3	59	22	81	839	2.0	0.9	14.5	755	1.80
								Total-----		5,867	

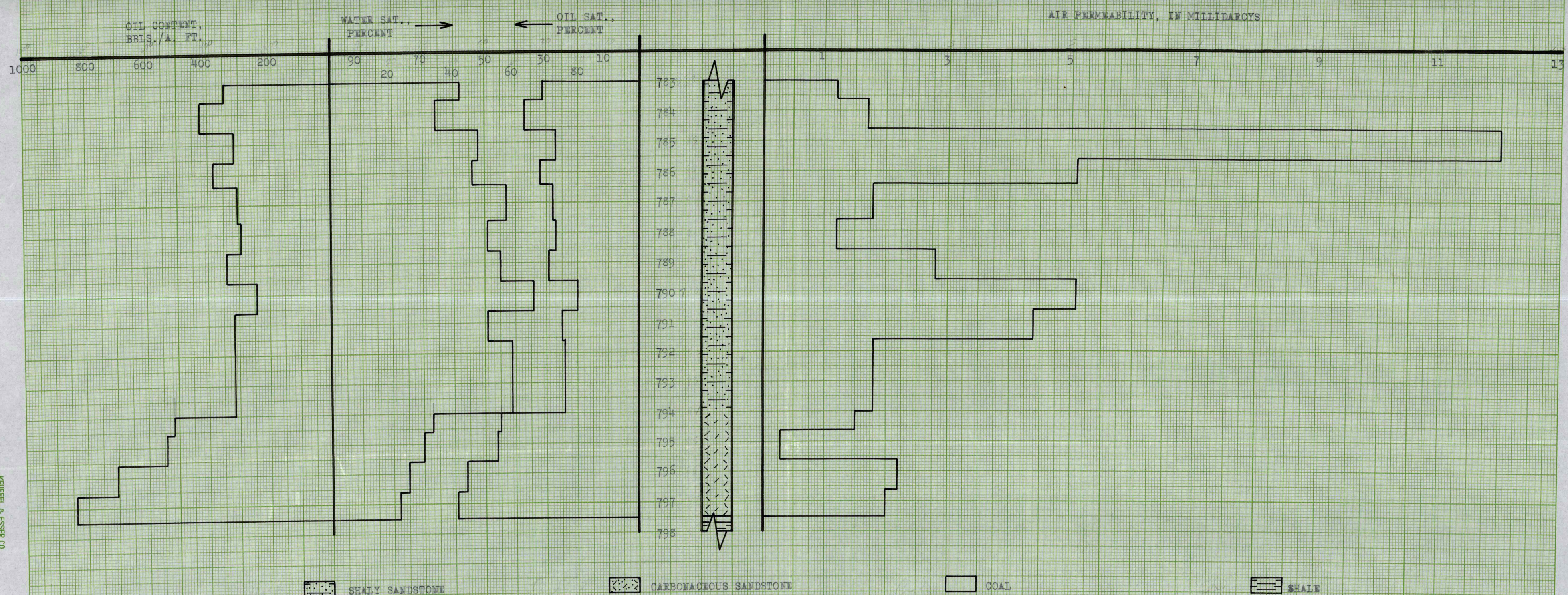
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Fred E. Wood & Associates Lease Long Well No. 37-VP

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
783.0 - 794.0	11.0	3.5	38.48
794.0 - 797.5	3.5	1.5	5.18
783.0 - 797.5	14.5	3.0	43.66

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
783.0 - 794.0	11.0	15.3	27.3	52.5	324	3,562
794.0 - 797.5	3.5	16.2	52.1	27.0	659	2,305
783.0 - 797.5	14.5	15.5	33.2	46.4	405	5,867



FRED E. WOOD & ASSOCIATES

LONG LEASE

WELL NO. 37-VP

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLS./A. FT.	TOTAL OIL CONTENT BBLS./ACRE	AVG. AIR PERMEABILITY, MILLIDARCYS
783.0 - 794.0	11.0	15.3	27.3	52.5	324	3,562	3.5
794.0 - 797.5	3.5	16.2	52.1	27.0	659	2,305	1.5
783.0 - 797.5	14.5	15.5	33.2	46.4	405	5,867	3.0