



OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

June 28, 1965

Fred E. Wood & Associates
Suite 204
200 Sixteenth Street
Denver, Colorado 80202

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Scott Lease, Well No. 49FE, Wilson County, Kansas, and submitted to our laboratory on June 26, 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: bl

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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Associates Lease Scott Well No. 49FE

Location N/2, SE

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

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 763.0

Bottom of Core - - - - - 790.7

Top of Sand - - - - - (Tested) 763.0

Bottom of Sand - - - - - (Tested) 790.7

Total Feet of Permeable Sand - - - - - 13.5

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1

4.2

4.2

1 - 5

4.3

8.5

5 - 10

3.0

11.5

10 & above

2.0

13.5

Average Permeability Millidarcys - - - - - 5.5

Average Percent Porosity - - - - - 14.3

Average Percent Oil Saturation - - - - - 36.8

Average Percent Water Saturation - - - - - 40.2

Average Oil Content, Bbls./A. Ft. - - - - - 414.

Total Oil Content, Bbls./Acre - - - - - 11,456.

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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LOGCompany Fred E. Wood & Associates Lease Scott Well No. 49FE

Depth Interval, <u>Feet</u>	Description
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763.0 - 770.4	- Brownish gray shaly sandstone.
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770.4 - 774.6	- Light brown shaly sandstone.
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774.6 - 777.3	- Grayish light brown shaly sandstone.
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777.3 - 786.6	- Light brown sandstone.
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786.6 - 790.7	- Dark carbonaceous sandstone.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred E. Wood & Associates

Lease Scott

Well No. 49FE

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	763.1	11.1	46	50	96	396	Imp.	0.6	0.6	238	0.00
2	764.1	9.8	35	50	85	266	Imp.	1.0	1.6	266	0.00
3	765.1	15.2	39	44	83	460	Imp.	1.0	2.6	460	0.00
4	766.1	10.5	25	56	81	204	Imp.	1.0	3.6	204	0.00
5	767.1	14.3	44	29	73	488	Imp.	1.0	4.6	488	0.00
6	768.1	14.6	35	50	85	397	Imp.	1.0	5.6	397	0.00
7	769.1	9.7	23	68	91	173	Imp.	1.0	6.6	173	0.00
8	770.1	11.8	31	50	81	284	Imp.	0.8	7.4	228	0.00
9	771.1	14.3	40	30	70	444	0.92	1.2	8.6	533	1.10
10	772.1	13.4	27	53	80	281	0.32	1.0	9.6	281	0.32
11	773.1	15.1	23	49	72	270	0.21	1.0	10.6	270	0.21
12	774.1	14.6	23	49	72	261	4.2	1.0	11.6	261	4.20
13	775.1	12.8	47	43	90	467	Imp.	1.0	12.6	467	0.00
14	776.1	10.9	45	42	97	381	Imp.	1.0	13.6	381	0.00
15	777.1	12.2	37	29	66	350	Imp.	0.7	14.3	245	0.00
16	778.1	14.4	25	42	67	280	3.6	1.3	15.6	364	4.68
17	779.1	13.7	37	39	76	393	6.5	1.0	16.6	393	6.50
18	780.1	15.1	36	47	83	422	1.4	1.0	17.6	422	1.40
19	781.1	13.0	43	51	94	435	Imp.	1.0	18.6	435	0.00
20	782.1	16.4	40	38	78	510	7.5	1.0	19.6	510	7.50
21	783.1	18.5	43	27	70	617	25.	1.0	20.6	617	25.00
22	784.1	15.1	34	46	80	400	3.1	1.0	21.6	400	3.10
23	785.1	16.2	66	12	78	830	6.5	1.0	22.6	830	6.50
24	786.1	17.5	32	40	72	435	14.0	1.0	23.6	435	14.00

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred E. Wood & Associates

Lease Scott

Well No. 49FE

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.	Cons. Ft.		
25	787.1	17.9	32	29	61	444	0.29	1.0	24.6	444	0.29
26	788.1	16.4	46	23	69	585	Imp.	1.0	25.6	585	0.00
27	789.1	16.4	47	23	70	598	Imp.	1.0	26.6	598	0.00
28	790.1	17.8	35	22	57	483	Imp.	1.1	27.7	531	0.00
								Total	- - -	11,456	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Fred E. Wood & Associates	Lease	Scott	Well No.	49FE
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
763.0 - 770.4	763.0 - 770.4	0.0	0.0	0.0	2,454
770.4 - 790.7	770.4 - 790.7	13.5	5.5	74.80	9,002
763.0 - 790.7	763.0 - 790.7	13.5	5.5	74.80	11,456

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
763.0 - 770.4	7.4	12.2	34.2	49.6	332	2,454
770.4 - 790.7	20.3	15.1	37.7	36.8	444	9,002
763.0 - 797.7	27.7	14.3	36.8	40.2	414	11,456