



# OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

October 11, 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. 40-VP, Wilson County, Kansas, and submitted to our laboratory on October 8, 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

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Associates Lease Long Well No. 40-VP

Location \_\_\_\_\_

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

Name of Sand	Bartlesville
Top of Core	762.0
Bottom of Core	779.5
Top of Sand (Tested)	762.0
Bottom of Sand	779.3
Total Feet of Permeable Sand	17.3
Total Feet of Floodable Sand	

**Distribution of Permeable Sand:**  
Permeability Range  
Millidarcys

	Feet	Cum. Ft.
0 - 5	2.6	2.6
5 - 10	9.7	12.3
10 - 20	3.0	15.3
20 & above	2.0	17.3

Average Permeability Millidarcys	11.3
Average Percent Porosity	16.1
Average Percent Oil Saturation	29.6
Average Percent Water Saturation	51.4
Average Oil Content, Bbls./A. Ft.	362.
Total Oil Content, Bbls./Acre	6,258.
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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Company Fred E. Wood & Associates Lease Long Well No. 40-VP

Depth Interval, Description  
Feet \_\_\_\_\_

762.0 - 779.3 - Brown, slightly shaly sandstone.

779.3 - 779.5 - Coal.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred E. Wood & Associates Lease Long Well No. 40-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			Ft.	Cum. Ft.			
1	762.1	13.7	29	57	308	0.30	0.6	0.6	185	0.18	
2	763.1	14.7	18	61	205	8.6	1.0	1.6	205	8.60	
3	764.1	14.8	25	58	287	9.2	1.0	2.6	287	9.20	
4	765.1	14.5	22	61	248	7.5	1.0	3.6	248	7.50	
5	766.1	15.2	26	55	306	6.3	1.0	4.6	306	6.30	
6	767.1	15.6	22	63	266	11.	1.0	5.6	266	11.00	
7	768.1	15.6	35	47	424	9.7	1.0	6.6	424	9.70	
8	769.1	13.1	14	53	142	2.5	1.0	7.6	142	2.50	
9	770.1	17.8	21	53	290	6.6	1.0	8.6	290	6.60	
10	771.1	17.6	21	65	286	14.	1.0	9.6	286	14.00	
11	772.1	21.1	20	67	327	39.	1.0	10.6	327	39.00	
12	773.1	13.7	39	43	414	42.	1.0	11.6	414	42.00	
13	774.1	17.0	28	51	368	5.9	1.0	12.6	368	5.90	
14	775.1	11.6	52	44	468	4.5	1.0	13.6	468	4.50	
15	776.1	17.1	38	36	504	12.	1.0	14.6	504	12.00	
16	777.1	18.9	36	47	528	5.2	1.0	15.6	528	5.20	
17	778.1	18.7	46	30	594	6.3	1.7	17.3	1,010	10.71	
Total							-----		6,258		

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Fred E. Wood & Associates		Lease		Long		Well No.	
								40-VP	
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre	
762.0 - 770.6	762.0 - 770.6	8.6	7.2	61.58	23.4	56.5	274	2,353	
770.6 - 779.3	770.6 - 779.3	8.7	15.3	133.31	36.0	46.5	450	3,905	
762.0 - 779.3	762.0 - 779.3	17.3	11.3	194.89	29.6	51.4	362	6,258	