



# OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

May 20, 1965

33-30-10E

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. 44-FE, Wilson County, Kansas, and submitted to our laboratory on May 18, 1965.

This core was sampled and the samples sealed in plastic bags 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

Wolfe 44-FE

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Associates Lease Wolfe Well No. 44-FE

Location NE  $\frac{1}{4}$

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

Name of Sand	Bartlesville
Top of Core	764.0
Bottom of Core	784.0
Top of Sand	764.0
Bottom of Sand	773.6
Total Feet of Permeable Sand	5.3
Total Feet of Floodable Sand	

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

	Feet	Cum. Ft.
0 - 1	3.6	3.6
1 & above	1.7	5.3

Average Permeability Millidarcys	0.80
Average Percent Porosity	11.9
Average Percent Oil Saturation	31.8
Average Percent Water Saturation	44.6
Average Oil Content, Bbls./A. Ft.	295.
Total Oil Content, Bbls./Acre	2,831.
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	40.
Elevation, Feet	

## OILFIELD RESEARCH LABORATORIES

-LOG-Company Fred E. Wood & Assoc. Lease Wolfe Well No. 44-FEDepth Interval, Description  
Feet

764.0 - 772.9 - Light brown, micaceous, shaly sandstone.

772.9 - 780.0 - Gray sandy shale.

780.0 - 780.3 - Carbonaceous shaly sandstone.

780.3 - 780.6 - Coal.

780.6 - 783.0 - Gray sandy shale.

783.0 - 784.0 - Loss.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

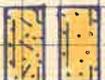
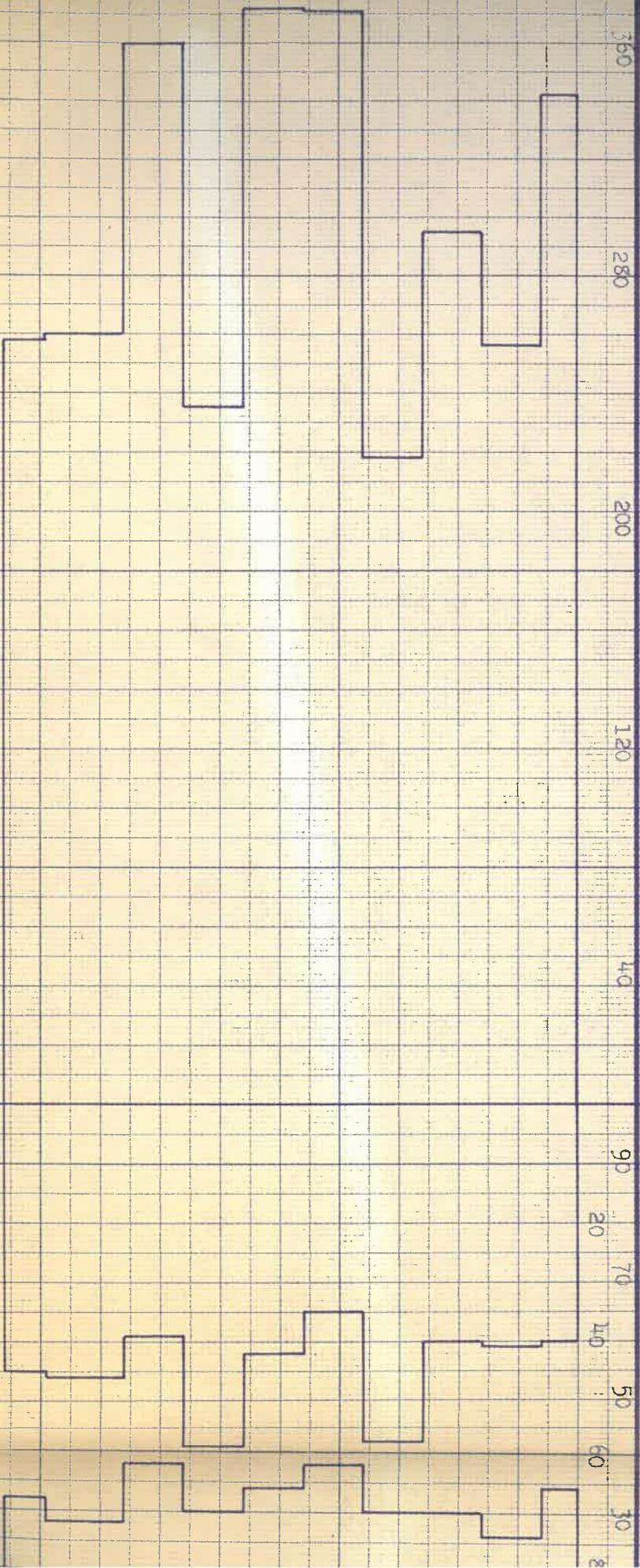
Company Fred E. Wood & Associates Lease Wolfe Well No. 44-FE

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	764.1	13.0	34	40	74	342	0.31	0.6	0.6	205	0.19	
2	765.1	12.7	26	41	67	256	0.78	1.0	1.6	256	0.78	
3	766.1	12.7	30	40	70	295	Imp.	1.0	2.6	295	0.00	
4	767.1	9.4	30	58	88	218	Imp.	1.0	3.6	218	0.00	
5	768.1	12.6	38	35	73	371	Imp.	1.0	4.6	371	0.00	
6	769.1	14.1	34	42	76	372	0.45	1.0	5.6	372	0.45	
7	770.1	10.1	30	59	89	235	0.79	1.0	6.6	235	0.79	
8	771.1	12.2	38	39	77	360	1.1	1.0	7.6	360	1.10	
9	772.1	12.0	28	46	74	260	Imp.	1.3	8.9	338	0.00	
10	773.1	10.4	32	45	77	258	1.3	0.7	9.6	181	0.91	
								Total			2,831	

OIL CONTENT,  
BBLS./A. FT.

WATER SAT.,  
PERCENT

OIL  
PER



SHALY SANDSTONE  
CARBONACEOUS SHALY SANDSTONE



SWP  
GGA

**FRED E. WOOD &**

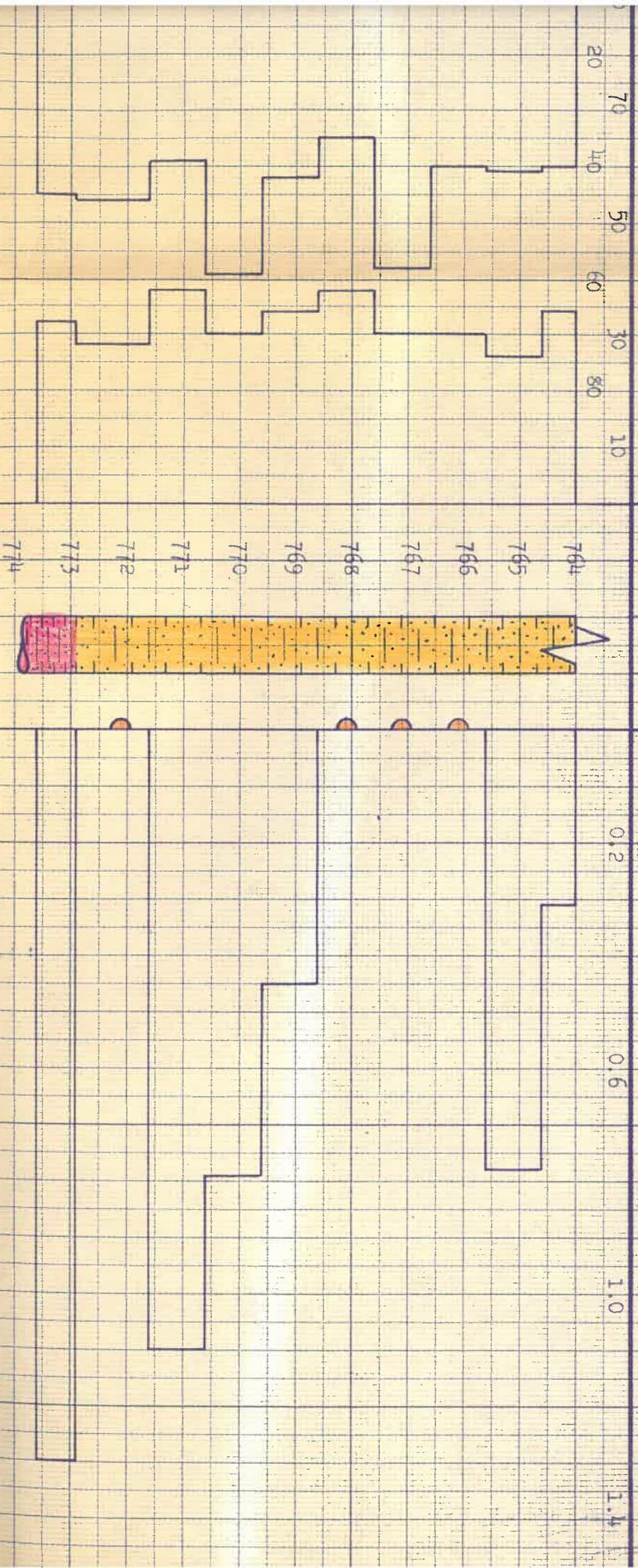
WOLFE LEASE

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WA SATURAT PERCENT
764.0 - 773.6	9.6	11.9	31.8	44.6

Oil Sat. Percent

Air Permeability, in Millidarcys



SANDY SHALE  
COAL

IMPERMEABLE TO AIR

# E. WOOD & ASSOCIATES

WILSON COUNTY, KANSAS

WELL NO. 111-FH

ASST

AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BHLS./A. FT.	TOTAL OIL CONTENT BHLS./ACRE	AVG. AIR PERMEABILITY, MILLIDARCS
11.9	31.8	111.6	295	2,831	0.80