



OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

May 19, 1965

33-30-16E

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-DE, Wilson County, Kansas, and submitted to our laboratory on May 16, 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

WIC 44-DE

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

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

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

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

Name of Sand	-	-	U. B'ville	L. B'ville
Top of Core	-	-	774.0	809.0
Bottom of Core	-	-	786.5	823.0
Top of Sand	-	-	774.0	809.0
Bottom of Sand	-	-	786.5	819.6
Total Feet of Permeable Sand	-	-	7.6	5.6
Total Feet of Floodable Sand	-	-		

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
U. B'ville 0 - 0.50	4.0	4.0
0.50 & above	3.6	7.6
L. B'ville 0 - 1	2.0	2.0
1 & above	3.6	5.6

Average Permeability Millidarcys	-	-	0.54	2.8
Average Percent Porosity	-	-	12.6	13.1
Average Percent Oil Saturation	-	-	33.4	32.4
Average Percent Water Saturation	-	-	45.8	40.5
Average Oil Content, Bbls./A. Ft.	-	-	332.	335.
Total Oil Content, Bbls./Acre	-	-	4,150.	3,549.
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	-	-		

OILFIELD RESEARCH LABORATORIES

-LOG-

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

Depth Interval, Description
Feet

UPPER BARTLESVILLE

774.0 - 786.5 - Brown shaly sandstone.

786.5 - 809.0 - Drilled.

LOWER BARTLESVILLE

809.0 - 819.6 - Brown shaly sandstone.

819.6 - 823.0 - Shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred E. Wood & Associates

Lease

Wolfe

Well No.

44-DE

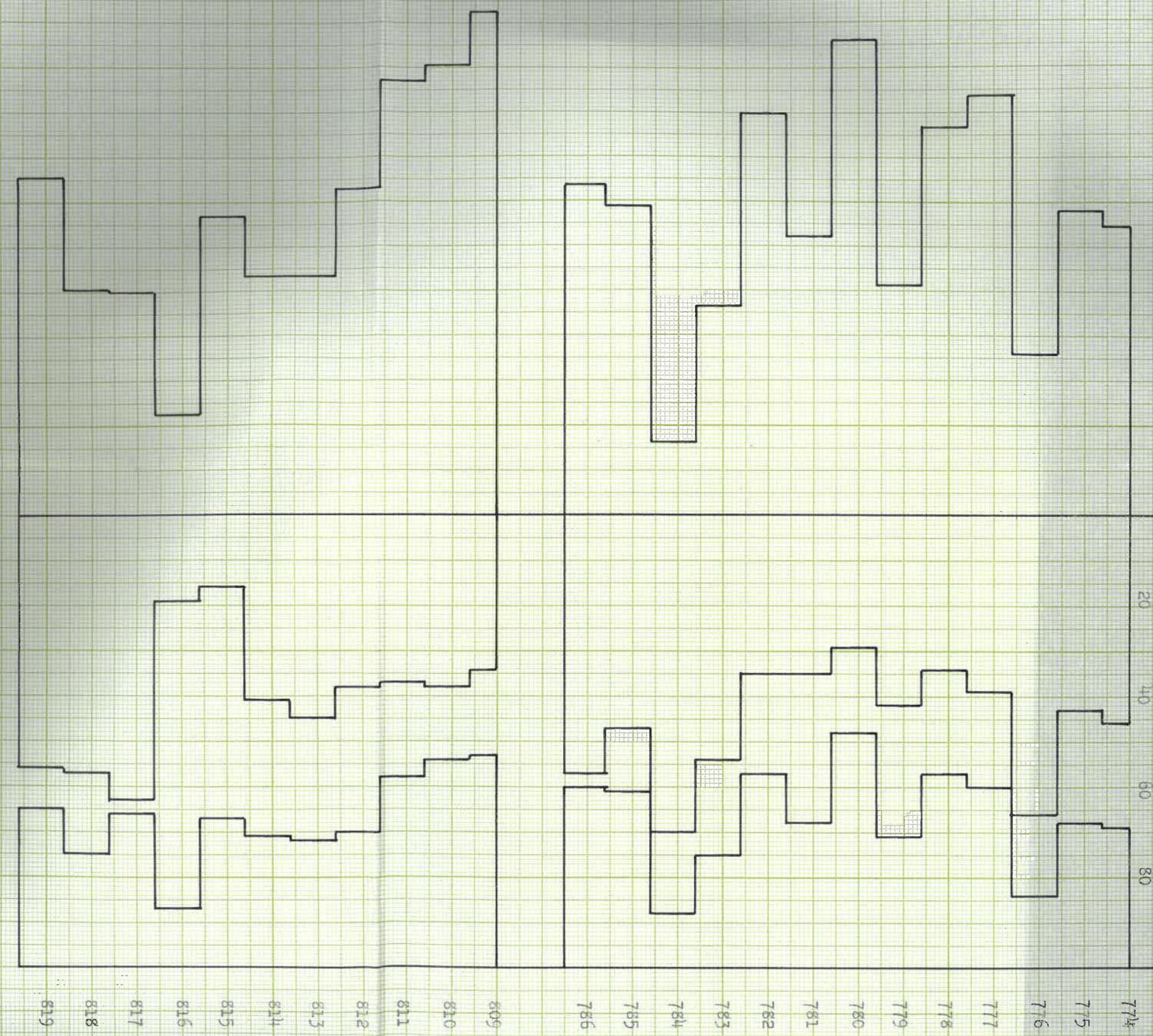
Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
UPPER BARTLESVILLE										
1	774.1	13.4	31	46	322	0.59	0.6	0.6	193	0.35
2	775.1	13.7	32	43	340	0.28	1.0	1.6	340	0.28
3	776.1	14.4	16	66	179	0.43	1.0	2.6	179	0.43
4	777.1	15.1	40	39	469	0.88	1.0	3.6	469	0.88
5	778.1	13.0	43	34	434	0.56	1.0	4.6	434	0.56
6	779.1	11.4	29	42	256	Imp.	1.0	5.6	256	0.00
7	780.1	13.2	52	29	531	0.87	1.0	6.6	531	0.87
8	781.1	12.5	32	35	310	0.35	1.0	7.6	310	0.36
9	782.1	13.5	43	35	450	Imp.	1.0	8.6	450	0.00
10	783.1	11.9	25	54	231	Imp.	1.0	9.6	231	0.00
11	784.1	8.7	12	70	81	Imp.	1.0	10.6	81	0.00
12	785.1	11.4	39	47	344	0.35	1.0	11.6	344	0.35
13	786.1	11.9	40	57	369	Imp.	0.9	12.5	332	0.00
LOWER BARTLESVILLE										
14	809.1	15.4	47	34	561	1.7	0.6	0.6	337	1.02
15	810.1	14.1	46	38	503	0.39	1.0	1.6	503	0.39
16	811.1	14.9	42	37	485	6.1	1.0	2.6	485	6.10
17	812.1	15.7	30	38	365	5.8	1.0	3.6	365	5.80
18	813.1	12.3	28	45	266	Imp.	1.0	4.6	266	0.00
19	814.1	11.8	29	41	266	Imp.	1.0	5.6	266	0.00
20	815.1	13.1	33	16	335	0.61	1.0	6.6	335	0.61
21	816.1	11.1	13	19	112	1.5	1.0	7.6	112	1.50
22	817.1	9.5	34	63	250	Imp.	1.0	8.6	250	0.00
23	818.1	13.0	25	57	252	Imp.	1.0	9.6	252	0.00
24	819.1	13.9	35	56	378	Imp.	1.0	10.6	378	0.00

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

600 500 400 300 200 100 90 20 70 40 50 60 70 80 100



SHALY SANDSTONE

FRED E. WOOD

WOLFE LEASE
WILSON COUR

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT
UPPER BARTLESVILLE 774.0 - 786.5	12.5	12.6	53.1
LOWER BARTLESVILLE 809.0 - 819.6	10.6	13.1	42.9

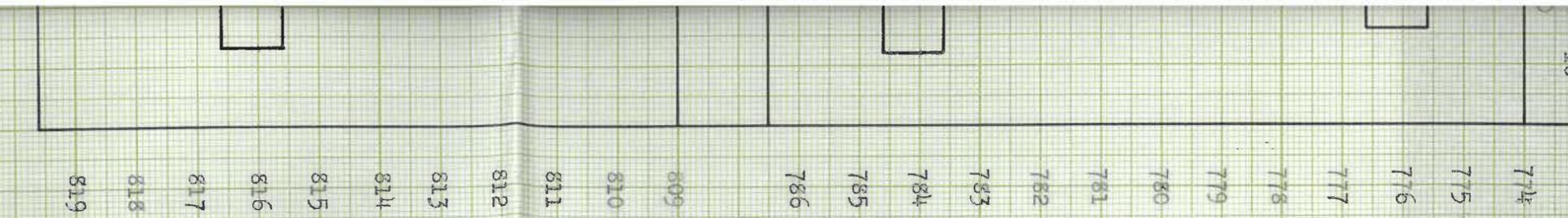
SAT. PERCENT

AIR PERMEABILITY, IN MILLIDARCY

10 1 2 3 4 5 6 7 8 9 10 11

Upper Bartlesville

Lower Bartlesville



SHALVE

○ IMPERMEABLE TO AIR

E. WOOD & ASSOCIATES

LEASE WILSON CONVEY, KANSAS

WELL NO. 21-DE

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, MILLIDARCY
12.6	33.2	25.8	332	4,150	0.54
13.1	32.2	20.5	335	3,549	2.8

OILFIELD RESEARCH LABORATORY
CHANUTE, KANSAS
MAY, 1965