



OILFIELD RESEARCH LABORATORIES

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

May 6, 1966

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 Scott Lease, Well No. 49-IEJ, Wilson County, Kansas, and submitted to our laboratory on May 4, 1966.

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

20-20-10E

49-IEJ

1000

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

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

Location _____

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

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 750.0

Bottom of Core - - - - - 772.5

Top of Sand - - - - - (Tested) 750.6

Bottom of Sand - - - - - (Tested) 771.6

Total Feet of Permeable Sand - - - - - 14.0

Total Feet of Floodable Sand - - - - - _____

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.0	2.0
1 - 5	2.0	4.0
5 - 10	2.0	6.0
10 - 50	8.0	14.0

Average Permeability Millidarcys - - - - - 19.8

Average Percent Porosity - - - - - 15.4

Average Percent Oil Saturation - - - - - 30.4

Average Percent Water Saturation - - - - - 45.6

Average Oil Content, Bbls./A. Ft. - - - - - 368.

Total Oil Content, Bbls./Acre - - - - - 6,635.

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 Scott Well 49-IEJ

Depth Interval, Description
Feet

- 750.0 - 759.6 - Grayish light brown, laminated, shaly sandstone.
- 759.6 - 771.6 - Brown, slightly shaly sandstone.
- 771.6 - 772.5 - Dark carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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

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	751.1	13.7	38	43	81	403	Imp.	1.0	1.0	403	0.00
2	753.1	7.1	26	67	93	143	0.53	1.0	2.0	143	0.53
3	754.1	11.3	49	24	73	429	0.31	1.0	3.0	429	0.31
4	755.1	6.8	13	84	97	69	Imp.	1.0	4.0	69	0.00
5	756.1	9.6	31	65	96	230	Imp.	1.0	5.0	230	0.00
6	759.1	16.7	22	47	69	285	Imp.	1.0	6.0	285	0.00
7	760.1	17.5	25	44	69	338	34.	1.0	7.0	338	34.00
8	761.1	18.3	36	41	77	511	42.	1.0	8.0	511	42.00
9	762.1	17.2	21	39	60	280	13.	1.0	9.0	280	13.00
10	763.1	17.5	27	36	63	366	4.5	1.0	10.0	366	4.50
11	764.1	19.2	32	35	67	476	1.7	1.0	11.0	476	1.70
12	765.1	15.9	28	42	70	345	6.0	1.0	12.0	345	6.00
13	766.1	18.7	25	50	75	362	45.	1.0	13.0	362	45.00
14	767.1	18.1	32	39	71	449	34.	1.0	14.0	449	34.00
15	768.1	14.4	36	55	91	402	8.6	1.0	15.0	402	8.60
16	769.1	18.8	41	38	79	598	30.	1.0	16.0	598	30.00
17	770.1	18.7	36	39	75	521	31.	1.0	17.0	521	31.00
18	771.1	18.4	30	33	63	428	26.	1.0	18.0	428	26.00
								Total	-----	6,635	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

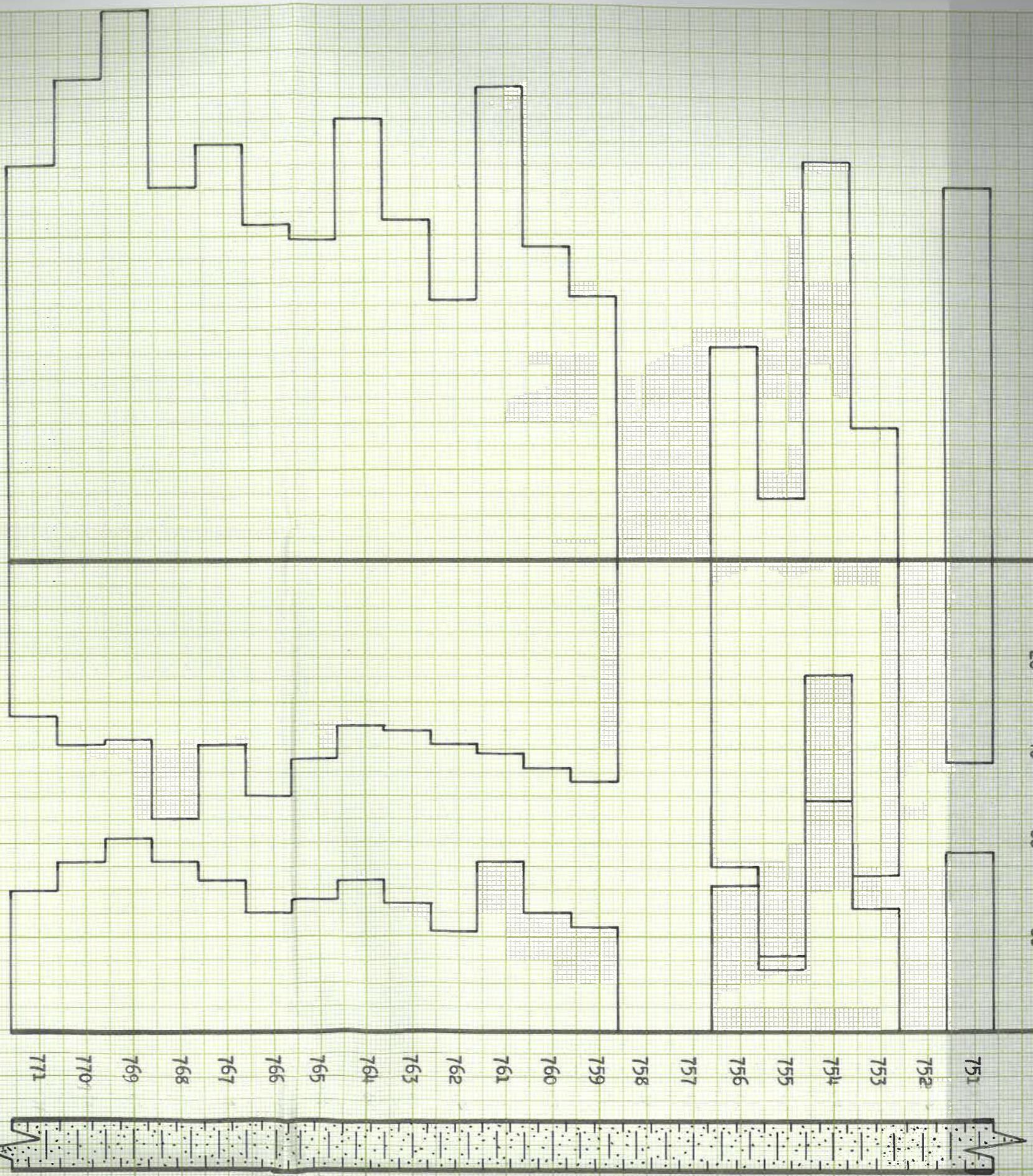
Company	Fred E. Wood & Associates	Lease	Scott	Well No.	49-IEJ
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
750.6 - 759.6	750.6 - 759.6	2.0	0.42	0.84	1,559
759.6 - 771.6	759.6 - 771.6	12.0	23.0	275.80	5,076
750.6 - 771.6	750.6 - 771.6	14.0	19.8	276.64	6,635
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
750.6 - 759.6	6.0	10.9	29.8	55.0	260
759.6 - 771.6	12.0	17.7	30.8	40.9	423
750.6 - 771.6	18.0	15.4	30.4	45.6	368

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

600 500 400 300 200 100 90 20 70 40 50 60 30 80 10



SHALY SANDSTONE

FRED E. WOOD

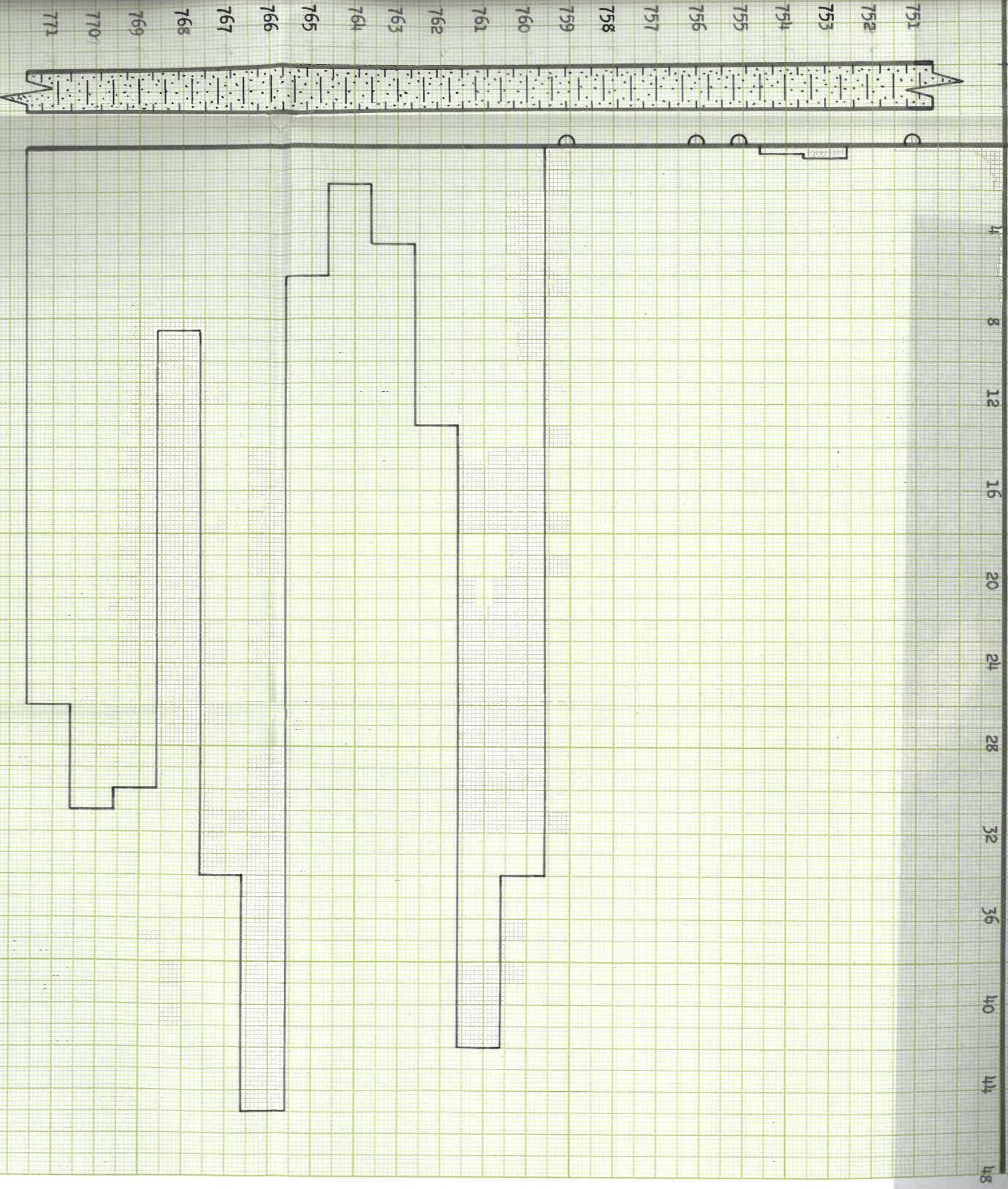
SCOTT LEASE

WILSON COUNTY,

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT
750.6 - 759.6	6.0	10.9	29.8
759.6 - 771.6	12.0	17.7	30.8
750.6 - 771.6	18.0	15.4	30.4

751
752
753
754
755
756
757
758
759
760
761
762
763
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765
766
767
768
769
770
771

AIR PERMEABILITY, IN MILLIDARCS



CARBONACEOUS SANDSTONE

○ IMPERMEABLE TO AIR

WOOD & ASSOCIATES

WILSON COUNTY, KANSAS

WELL NO. 49-1B1

DEPTH	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBL./A. FT.	TOTAL OIL CONTENT BBL./A. FT.	AVG. AIR PERMEABILITY, MILLIDARCS
751	29.8	55.0	260	1,559	0.42
752	30.8	40.9	423	5,076	23.0
753	30.4	45.6	368	6,635	19.8

OILFIELD RESEARCH LABORATORIES
 CHANTRE, KANSAS
 MAY, 1966