

OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

April 26, 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 Wolfe Lease, Well No. 41-X, Wilson County, Kansas, and submitted to our laboratory on April 22, 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

33-30-16E

Wolfe 41-X

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Assoc. Lease Wolfe Well No. 41-X

Location _____

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

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 761.0

Bottom of Core - - - - - 785.2

Top of Sand - - - - - (Tested) - - - - - 761.0

Bottom of Sand - - - - - (Tested) - - - - - 785.2

Total Feet of Permeable Sand - - - - - 14.0

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1	6.0	6.0
1 - 2	4.0	10.0
2 - 10	3.0	13.0
10 & above	1.0	14.0

Average Permeability Millidarcys - - - - - 3.3

Average Percent Porosity - - - - - 13.8

Average Percent Oil Saturation - - - - - 36.3

Average Percent Water Saturation - - - - - 40.8

Average Oil Content, Bbls./A. Ft. - - - - - 385.

Total Oil Content, Bbls./Acre - - - - - 9,335.

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 & Assoc. Lease Wolfe Well No. 41-XDepth Interval, Description
Feet

761.0 - 781.6 - Brown, laminated, shaly sandstone.

781.6 - 785.2 - Dark, carbonaceous, shaly sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

[illegible]

Oilfield Research Laboratories

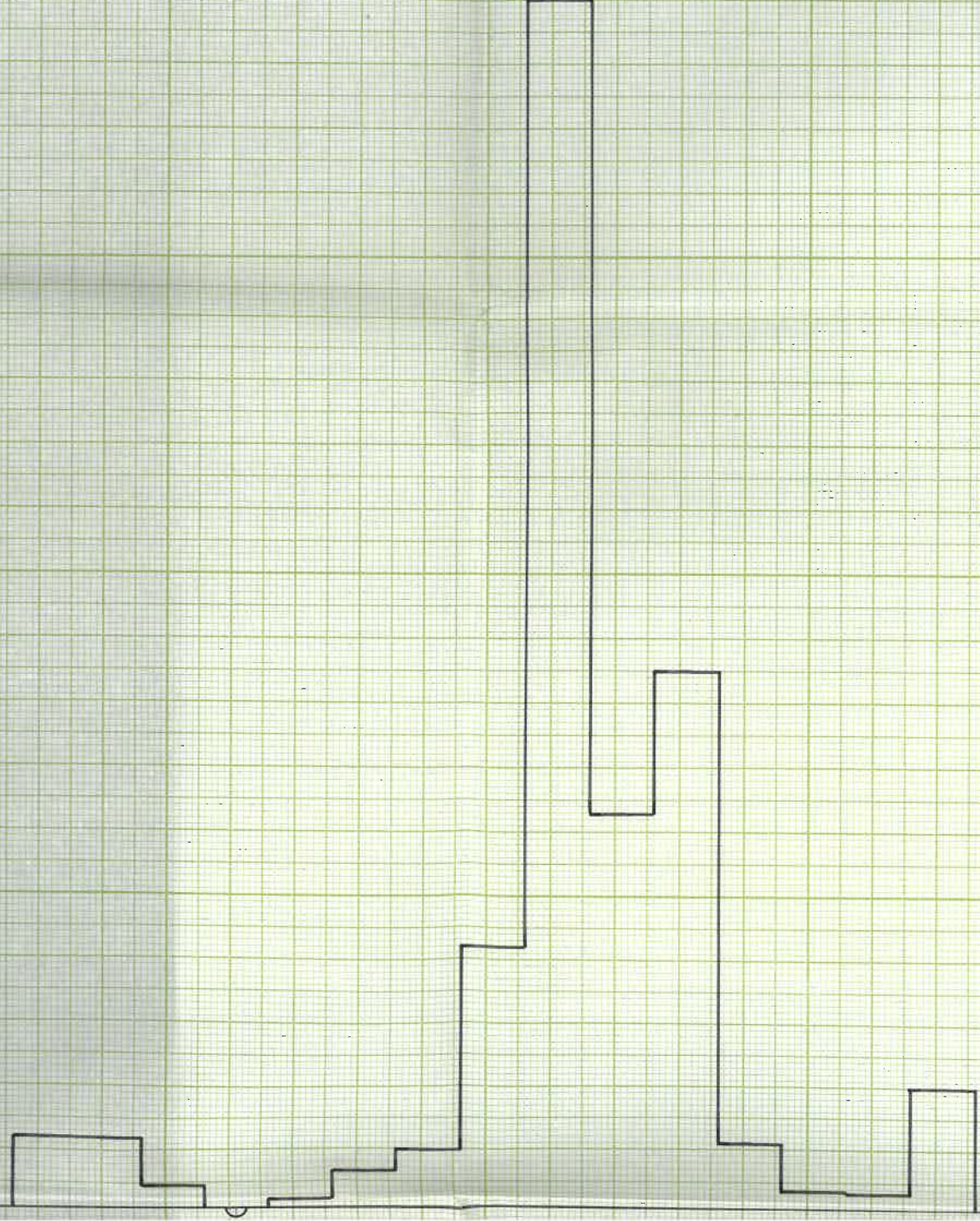
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Fred E. Wood & Associates		Lease		Wolfe		Well No.		41-X
Depth Interval, Feet		Depth Interval, Feet		Feet of Core Analyzed		Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.		
761.0 - 777.6		761.0 - 777.6		14.0		3.3		46.46		
777.6 - 785.2		777.6 - 785.2		0.0		0.0		0.0		
761.0 - 785.2		761.0 - 785.2		14.0		3.3		46.46		
Depth Interval, Feet		Feet of Core Analyzed		Average Percent Porosity		Average Percent Oil Saturation		Average Percent Water Saturation		Total Oil Content Bbls./Acre
761.0 - 777.6		16.6		14.2		35.1		40.5		6,322
777.6 - 785.2		7.6		13.1		39.2		41.5		3,013
761.0 - 785.2		24.2		13.8		36.3		40.8		9,335

AIR PERMEABILITY, IN MILLIDARCYs

2 4 6 8 10 12 14 16 18 20 22 24



 CARBONACEOUS SHALY SANDSTONE

○ IMPERMEABLE TO AIR

& ASSOCIATES

WELL NO. 41-X

L, KANSAS

AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLS./A.FT.	TOTAL OIL CONTENT BBLS./A.CHE	AVG. AIR PERMEABILITY, MILLIDARCYs
40.5	381	6,322	3.3
41.5	398	3,013	0.0
40.8	385	9,335	3.3

CILFIELD RESEARCH LABORATORIES
CHANDLER, KANSAS
APRIL, 1965

OIL CONTENT,
BBLS./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

90 80 70 60 50 40 30 20 10

400 300 200 100

761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785

SHALY SANDSTONE

CARBONACEOUS SH

WE

FRED E. WOOD & ASSOC

WOLFE LEASE

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. CONT BBLS./
761.0 - 777.6	16.6	14.2	35.1	40.5	381
777.6 - 785.2	7.6	13.1	39.2	41.5	398
761.0 - 785.2	24.2	13.8	36.3	40.8	389