

OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

January 18, 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. 35-UJ, Wilson County, Kansas, and submitted to our laboratory on February 15, 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

1 c. - A.W. Bailey

28-30-10E

Long 35-UJ

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Associates Lease Long Well No. 35-UJ

Location _____

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

Name of Sand	- - - - -	Bartlesville
Top of Core	- - - - -	790.0
Bottom of Core	- - - - -	803.4
Oil Top of Sand	- - - - -	795.9
Bottom of Sand	- - - - -	803.4
Total Feet of Permeable Sand	- - - - -	5.7
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1	2.0	2.0
1 - 2	3.0	5.0
2 & above	0.7	5.7

Average Permeability Millidarcys	- - - - -	1.8
Average Percent Porosity	- - - - -	12.8
Average Percent Oil Saturation	- - - - -	53.5
Average Percent Water Saturation	- - - - -	34.0
Average Oil Content, Bbls./A. Ft.	- - - - -	546.
Total Oil Content, Bbls./Acre	- - - - -	5,746.
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

LOGCompany Fred E. Wood & Assoc. Lease Long Well No. 35-U

Depth Interval, Feet	Description
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790.0 - 795.9	- Grayish light brown, sandy shale.
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795.9 - 801.0	- Brown, laminated, shaly sandstone.
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801.0 - 803.4	- Hard, brown, shaly sandstone.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred E. Wood & Associates Lease Long Well No. 35-UJ

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	791.1	10.8	36	56	92	Imp.	1.0	1.0	301	0.00
2	793.1	12.3	52	45	97	Imp.	1.0	2.0	496	0.00
3	795.1	8.4	38	58	96	Imp.	1.0	3.0	248	0.00
4	796.1	15.1	68	25	93	5.7	0.7	3.7	558	3.99
5	797.1	13.1	58	27	85	0.79	1.0	4.7	589	0.79
6	798.1	14.0	53	25	78	1.3	1.0	5.7	576	1.30
7	799.1	14.4	63	22	85	Imp.	1.0	6.7	704	0.00
8	800.1	15.5	56	26	82	1.6	1.4	8.1	944	2.24
9	801.1	15.1	62	18	80	1.7	0.6	8.7	436	1.02
10	802.1	9.1	50	46	96	0.69	1.0	9.7	353	0.69
11	803.1	14.3	61	17	78	Imp.	0.8	10.5	541	0.00
Total							Total		5,746	

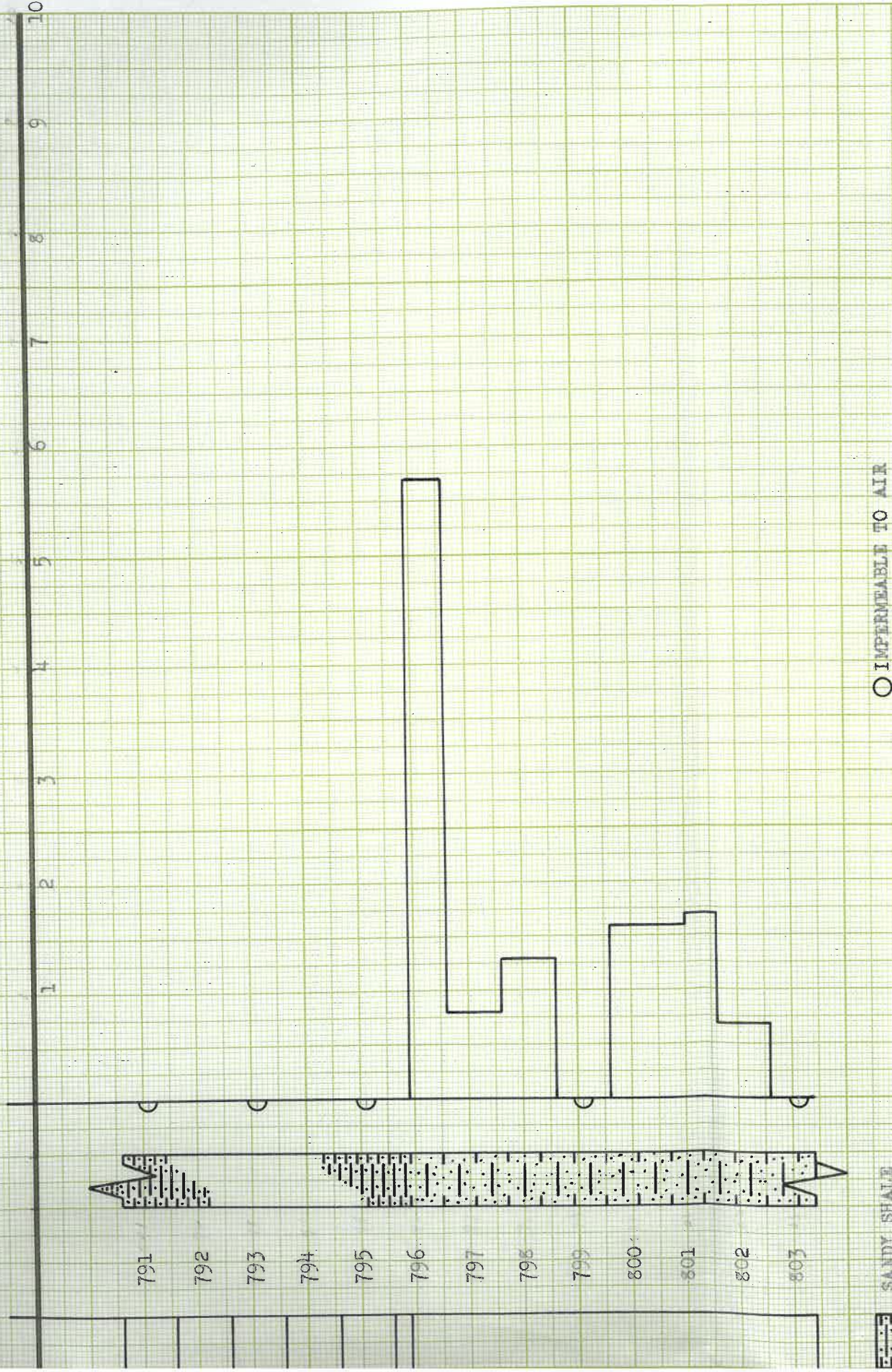
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Fred E. Wood & Associates	Lease	Long	Well No.	35-UJ		
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
	790.6 - 795.6	0.0	0.0	0.0			
	795.9 - 803.4	5.7	1.8	10.03			
	790.6 - 803.4	5.7	1.8	10.03			
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	790.6 - 795.6	3.0	10.5	42.0	53.0	348	1,045
	795.9 - 803.4	7.5	13.8	58.1	26.4	628	4,701
	790.6 - 803.4	10.5	12.8	53.5	34.0	546	5,746

AIR PERMEABILITY, IN MILLIDARCY'S



SANDY SHALE

OD & ASSOC.

WELL NO. 35-W

NTY, KANSAS

AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBIS./A. FT.	TOTAL OIL CONTENT BBIS./ACRE	AVG. AIR PERMEABILITY MILLIDARCY'S
53.0	348	1,045	0.0
26.4	628	4,701	1.8
34.0	546	5,746	1.8

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
FEBRUARY, 1965

OIL CONTENT,
BBLIS./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

1000

500

500

700

600

500

400

300

200

100

90

80

70

60

50

40

30

20

10

791

792

793

794

795

796

797

798

799

800

801

802

803

SHALY SANDSTONE



SANDY

FRED E. WOOD &

LONG LEASE

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WAT. SATURAT. PERCENT
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790.6 - 795.6 3.0 10.5 42.0 53.0

795.9 - 803.4 7.5 13.8 58.1 26.4

790.6 - 803.4 10.5 12.8 53.5 34.0