

OILFIELD RESEARCH LABORATORIES

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

March 30, 1968

Stubbs & Fleming
682, 4th National Bank Building
Wichita, Kansas 67202

Gentlemen:

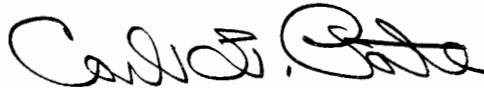
Enclosed herewith are the results of tests run on the Fulhage Lease, Well No. 1, Woodson County, Kansas, and submitted to our laboratory on March 27, 1968.

This core is from a virgin territory and was sampled and the samples sealed in tin cans by an employee of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Carl L. Pate

CLP:bjo

5 c. - Wichita, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Stubbs & Fleming Lease Fulhage Well No. 1

Location 235' SNL & 220' EWL, NW/4

Section 8 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand - - - - - Squirrel "B"

Top of Core - - - - - 953.0

Bottom of Core - - - - - 973.0
Good

Top of Sand - - - - - 956.4

Bottom of Sand - - - - - 966.2
Good

Total Feet of Permeable Sand - (Analyzed) - - - - - 10.2

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 50	3.4	3.4
50 - 75	4.8	8.2
75 - 100	1.0	9.2
100 & above	1.0	10.2

Average Permeability Millidarcys - - - - - 57.2

Average Percent Porosity - - - - - 20.1

Average Percent Oil Saturation - - - - - 57.7

Average Percent Water Saturation - - - - - 19.2

Average Oil Content, Bbls./A. Ft. - - - - - 908.

Total Oil Content, Bbls./Acre - - - - - 9,259.

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 - - - - -

- LOG -

Company Stubbs & Fleming Lease Fulhage Well No. 1

Depth Interval, Feet	Description
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953.0 - 953.4	- Dark shaly sandstone.
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953.4 - 956.4	- Gray finely laminated sandstone and shale.
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956.4 - 958.1	- Dark fine grained sandstone.
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958.1 - 966.2	- Dark slightly shaly sandstone.
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966.2 - 971.6	- Gray to dark micaceous carbonaceous sandstone.
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971.6 - 972.1	- Dark sandstone.
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972.1 - 973.0	- Dark micaceous carbonaceous sandstone.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Stubbs & Fleming Lease Fullhage Well No. 1

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	953.1	17.2	53	23	76	707	36.	0.4	0.4	283	14.40
2	957.1	20.7	55	16	71	883	50.	1.2	1.6	1059	60.00
3	958.0	17.2	44	36	80	587	-	0.5	2.1	293	-
P-3	958.2	-	-	-	-	-	61.	0.5	2.6	-	30.50
4	959.1	20.0	60	18	78	931	55.	1.0	3.6	931	55.00
5	960.1	20.3	62	20	82	977	39.	1.0	4.6	977	39.00
6	961.1	20.5	59	17	76	939	46.	1.0	5.6	939	46.00
7	962.1	22.5	59	18	77	1022	103.	1.0	6.6	1022	103.00
8	963.1	20.7	58	16	74	931	23.	1.0	7.6	931	23.00
9	964.1	22.6	64	18	82	1122	90.	1.0	8.6	1122	90.00
10	965.1	17.5	52	23	75	706	51.	1.0	9.6	706	51.00
11	966.1	20.4	65	20	85	1028	69.	0.6	10.2	617	41.40
12	971.7	18.8	52	15	67	759	72.	0.5	10.7	379	36.00

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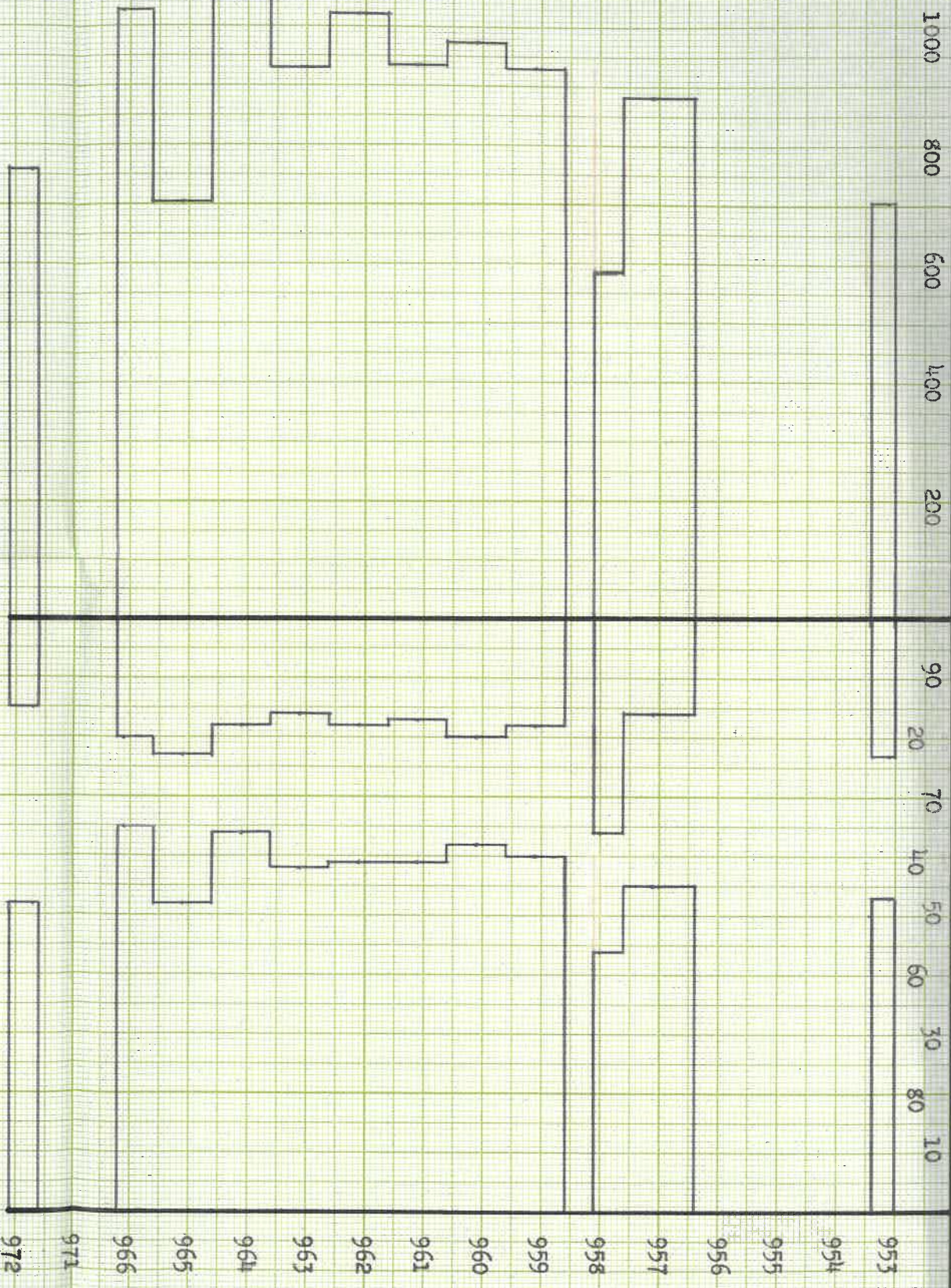
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Stubbs & Fleming	Lease	Fulhage	Well No.	1	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	953.0 - 957.6	1.6	46.5	74.40		
	958.1 - 972.1	8.6	59.9	514.90		
	953.0 - 972.1	10.2	57.2	589.30		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
	953.0 - 958.1	2.1	19.2	52.0	22.1	1,635.
	958.6 - 972.1	8.1	20.5	59.1	18.5	7,624.
	953.0 - 972.1	10.2	20.1	57.7	19.2	9,259.

OIL CONTENT
BBLs./A. FT.

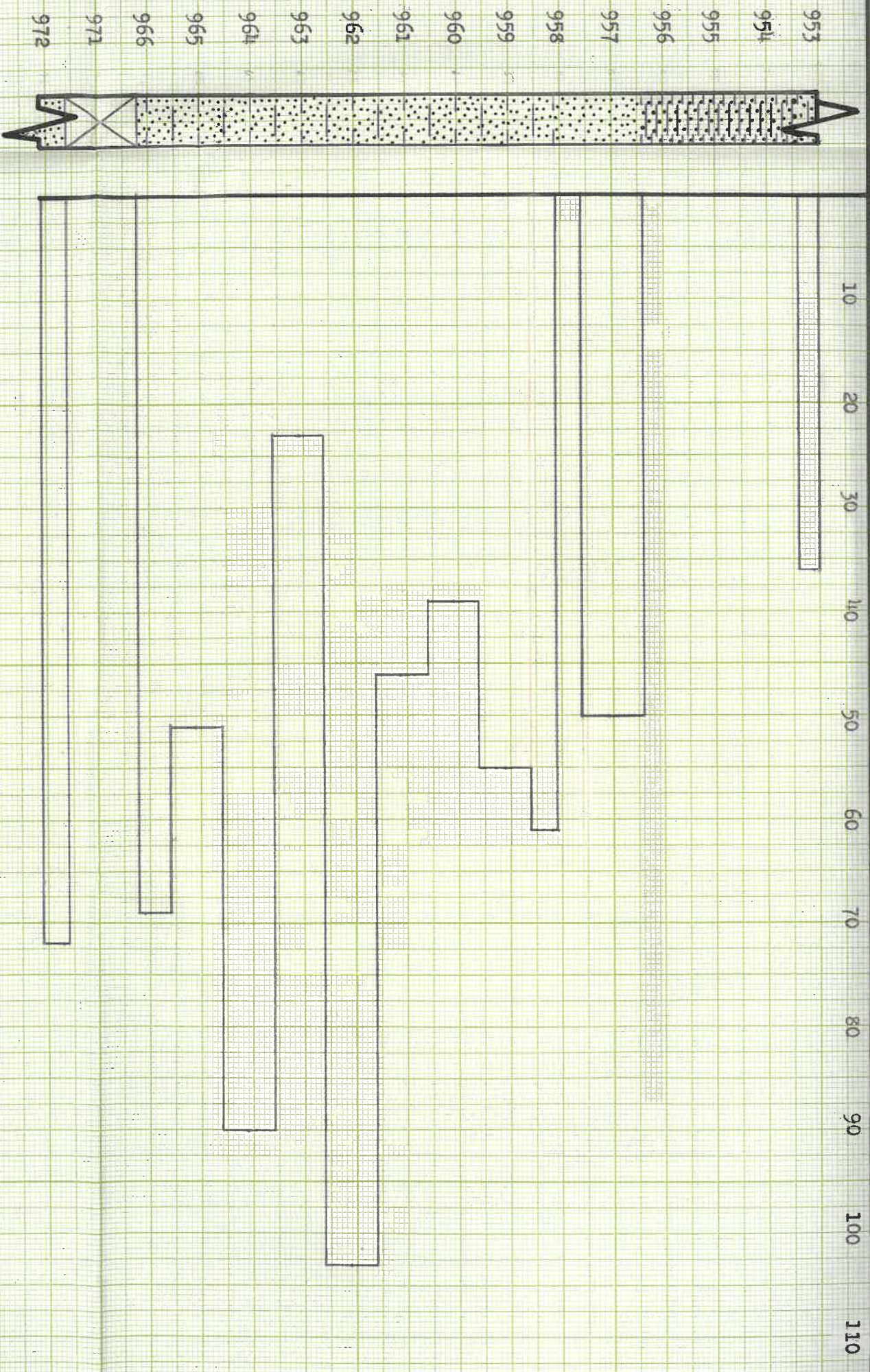
WATER SAT., PERCENT → OIL SAT., PERCENT ←



KEY:
SANDSTONE
CARBONACEOUS SANDSTONE

STUBBS

FULLAGE LEASE
WOODSON COUN



 LAMINATED SANDSTONE & SHALE
 SHALY SANDSTONE
 BREAK

JBBS 8 FLEMING

FULTON LEASE WELL No. 1
 WOODSON COUNTY, KANSAS

AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLS./A.FT.	TOTAL OIL CONTENT BBLS./ACRE	AVG. AIR PERMEABILITY MILLIDARCS
22.1	779.	1,635.	46.5
18.5	941.	7,624.	59.9
19.2	908.	9,259.	57.2