



# OILFIELD RESEARCH LABORATORIES

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

April 9, 1968

Stubbs & Fleming  
680 Fourth National Building  
Wichita, Kansas 67202

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary cores taken from the Fulhage Lease, Well No. 2, Woodson County, Kansas, and submitted to our laboratory on April 5, 1968.

These cores are from a virgin territory. The Squirrel "A" sand was sampled by a representative of the client. Squirrel "B" sand was sampled by a representative of Oilfield Research Laboratories. Only 1 sample was analyzed from the Squirrel "A" sand and the results of these tests are given on the enclosed table I-B.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjc

4 c. - Wichita, Kansas

Vertical handwritten notes on the left margin, including "E 25 100" and "Fulhage".

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Stubbs & Fleming Lease Fulhage Well No. 2

Location SW, SW, SW

Section 5 Twp. 25S Rge. 16E County Woodson State Kansas

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

Top of Core - - - - - 954.0

Bottom of Core - - - - - 979.0

Top of Sand - (Cored) - - - - - 954.0

Bottom of Sand - (Analyzed) - - - - - 966.0

Total Feet of Permeable Sand - (Analyzed) - - - - - 12.0

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:  
Permeability Range  
Millidarcys

Feet

Cum. Ft.

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 50	5.1	5.1
50 - 100	4.1	9.2
100 & above	2.8	12.0

Average Permeability Millidarcys - - - - - 65.2

Average Percent Porosity - - - - - 20.7

Average Percent Oil Saturation - - - - - 56.6

Average Percent Water Saturation - - - - - 19.2

Average Oil Content, Bbls./A. Ft. - - - - - 904.

Total Oil Content, Bbls./Acre - - - - - 10,804.

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. 2Depth Interval, Description  
Feet

## Squirrel "A"

908.0 - 910.5 - Brown slightly shaly sandstone.

910.5 - 911.0 - Laminated shaly sandstone.

## Squirrel "B"

954.0 - 954.9 - Brown sandstone.

954.9 - 955.5 - Brown shaly sandstone.

955.5 - 960.5 - Dark brown slightly laminated shaly sandstone.

960.5 - 964.5 - Dark brown sandstone.

964.5 - 966.0 - Dark carbonaceous slightly shaly sandstone.

966.0 - 967.7 - Gray sandy shale.

967.7 - 968.2 - Dark brown sandstone.

968.2 - 969.8 - Carbonaceous shaly sandstone.

969.8 - 979.0 - Sandy shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Stubbs & Fleming Lease Fulhage Well No. 2

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.	Cm. Ft.		
A	908.1	17.0	58	28	86	SQUIRREL " A "	5.9	1.0	1.0	765	5.90
1	954.1	21.2	55	13	68	SQUIRREL " B "	149.	0.9	0.9	689	134.20
2	955.1	16.3	42	32	74		13.	0.6	1.5	319	7.80
3	956.1	20.1	56	18	74		68.	1.1	2.6	962	74.80
4	957.1	20.4	55	20	75		65.	1.0	3.6	862	65.00
5	958.1	19.9	55	21	76		55.	1.0	4.6	849	55.00
6	959.1	19.7	59	19	78		54.	1.0	5.6	902	54.00
7	960.1	21.9	56	18	74		119.	0.9	6.5	857	107.20
8	961.1	21.4	59	19	78		41.	1.1	7.6	1078	45.10
9	962.1	22.1	56	16	72		110.	1.0	8.6	960	110.00
10	963.1	21.7	61	19	80		39.	1.0	9.6	1020	39.00
11	964.1	22.5	62	18	80		35.	0.9	10.5	973	31.50
12	965.1	20.1	57	21	78		39.	1.5	12.0	1333	58.50

AIR PERMEABILITY, MILLIDARCOYS

10 20 30 40 50 60 70 80 90 100 110 120

149

STONE



BREAK

# FLEMING

WELL NO. 2

Kansas

AVG. OIL CONTENT BBLS./A.FT.	TOTAL OIL CONTENT BBLS./ACRE	AVG. AIR PERMEABILITY MILLIDARCOYS
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904.

10,804.

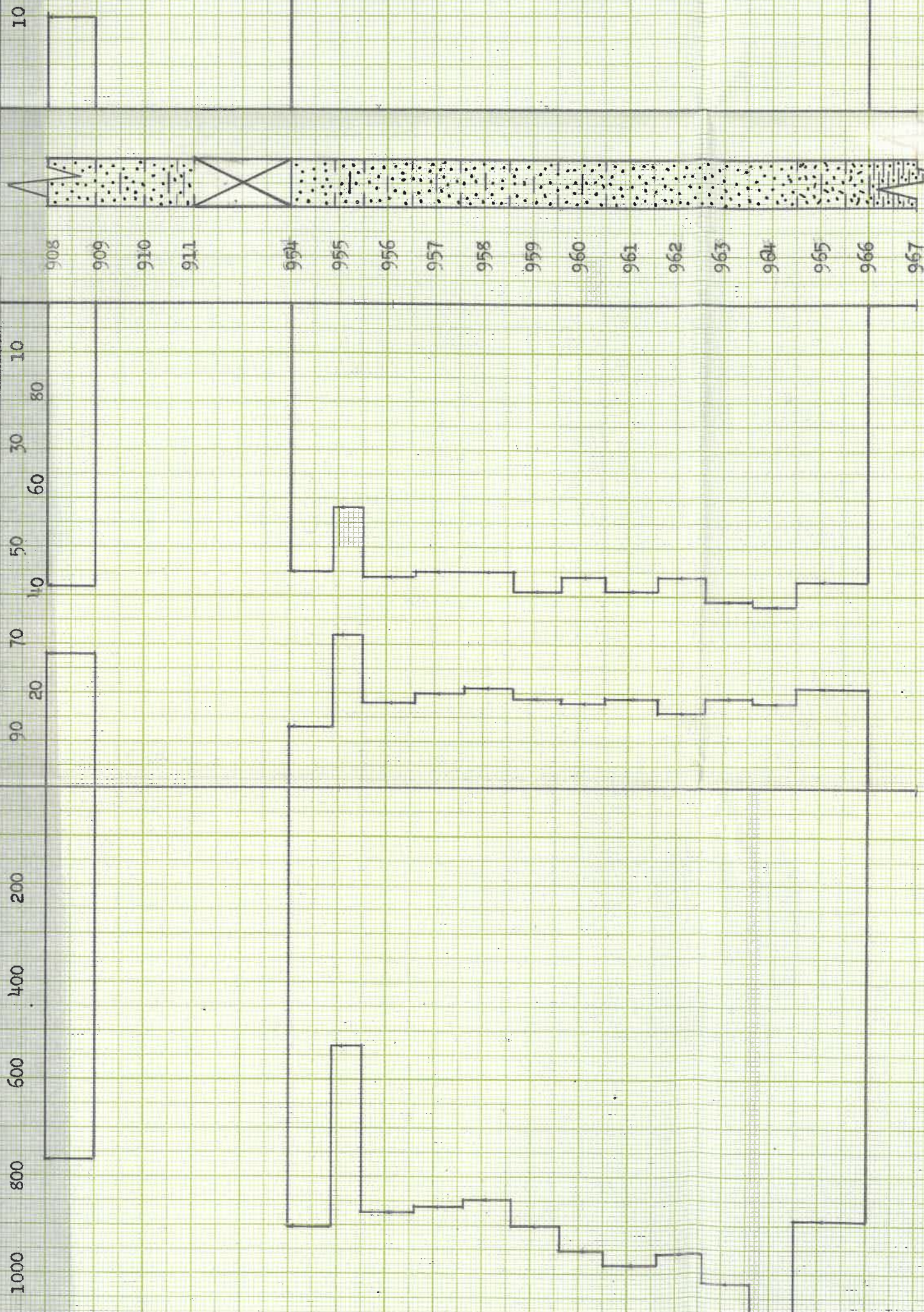
65.2

OILFIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS  
APRIL, 1968

OIL CONTENT  
BBLs./A. FT.

WATER SAT.,  
PERCENT

OIL SAT.,  
PERCENT



KEY:

SANDSTONE

SHALY SANDSTONE

CARBONACEOUS SHALY SANDSTONE

SANDY SHALE

# STUBBS & FLEM

FULHAGE LEASE

WELL NO. 2

Woodson County, Kansas

DEPTH INTERVAL FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A. FT.
954.0 - 966.0	12.0	20.7	56.6	19.2	904.