



OILFIELD RESEARCH LABORATORIES

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

July 18, 1968

N & B Enterprises
Box 229
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Chambers Lease, Well No. 5, Woodson County, Kansas, and submitted to our laboratory on July 17, 1968.

This core was sampled and the samples sealed in plastic bags by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dp

5 c. - Chanute, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company N & B Enterprises Lease Chambers Well No. 5

Location NE

Section 7 Twp 25S Rge 16E County Woodson State Kansas

Name of Sand	- - - - -	Squirrel
Top of Core	- - - - -	955.0
Bottom of Core	- - - - -	974.0
Top of Sand	- - - - -	959.9
Bottom of Sand	- - - - -	970.9
Total Feet of Permeable Sand	- - - - -	10.5
Total Feet of Floodable Sand	- - - - -	-

Distribution of Permeable Sand: Permeability Range Millidarcys

	Feet	Cum. Ft.
0 - 10	2.6	2.6
10 - 40	2.1	4.7
40 - 90	3.1	7.8
90 & above	2.7	10.5

Average Permeability Millidarcys	- - - - -	53.4
Average Percent Porosity	- - - - -	19.9
Average Percent Oil Saturation	- - - - -	55.6
Average Percent Water Saturation	- - - - -	16.6
Average Oil Content, Bbls./A. Ft.	- - - - -	856.
Total Oil Content, Bbls./Acre	- - - - -	8,993.
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 N & B Enterprise Lease Chambers Well No. 5

Depth Interval, Feet	Description
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955.0 - 959.0	Sandy shale (discarded at well).
959.0 - 959.9	Gray and dark sandy shale.
959.9 - 963.2	Dark fine grained sandstone containing a few thin shale layers.
963.2 - 963.5	Gray sandy shale.
963.5 - 970.4	Dark fine grained sandstone containing a shale streak.
970.4 - 970.9	Dark fine grained slightly carbonaceous sandstone.
970.9 - 972.0	Gray sandy shale
972.0 - 974.0	Discarded at well.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company N & B Enterprises Lease Chambers Well No. 5

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Hhln. / A Fl.	Perm., MDI.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Fl.	Cum. Fl.		
1	960.1	17.0	46	24	70	607	8.1	0.7	0.7	425	5.66
2	961.1	20.0	62	12	74	963	72.	1.0	1.7	963	72.00
3	962.1	20.1	56	21	77	874	2.2	0.9	2.6	786	1.98
4	963.1	15.9	49	31	80	605	34.	0.6	3.2	363	20.40
5	964.1	19.3	55	15	70	823	65.	1.1	4.3	905	71.50
6	965.1	20.0	58	15	73	901	2.5	1.0	5.3	901	2.50
7	966.1	20.0	57	14	71	885	38.	1.0	6.3	885	38.00
8	967.1	24.8	55	9	69	1058	101.	1.0	7.3	1,058	101.00
9	968.0	19.3	53	16	69	794	84.	1.0	8.3	794	84.00
10	969.3	19.3	50	18	68	749	90.	1.0	9.3	749	90.00
11	970.0	22.5	54	17	71	942	90.	0.7	10.0	660	63.00
12	970.2	17.1	76	15	91	1008	22.	0.5	10.5	504	11.00

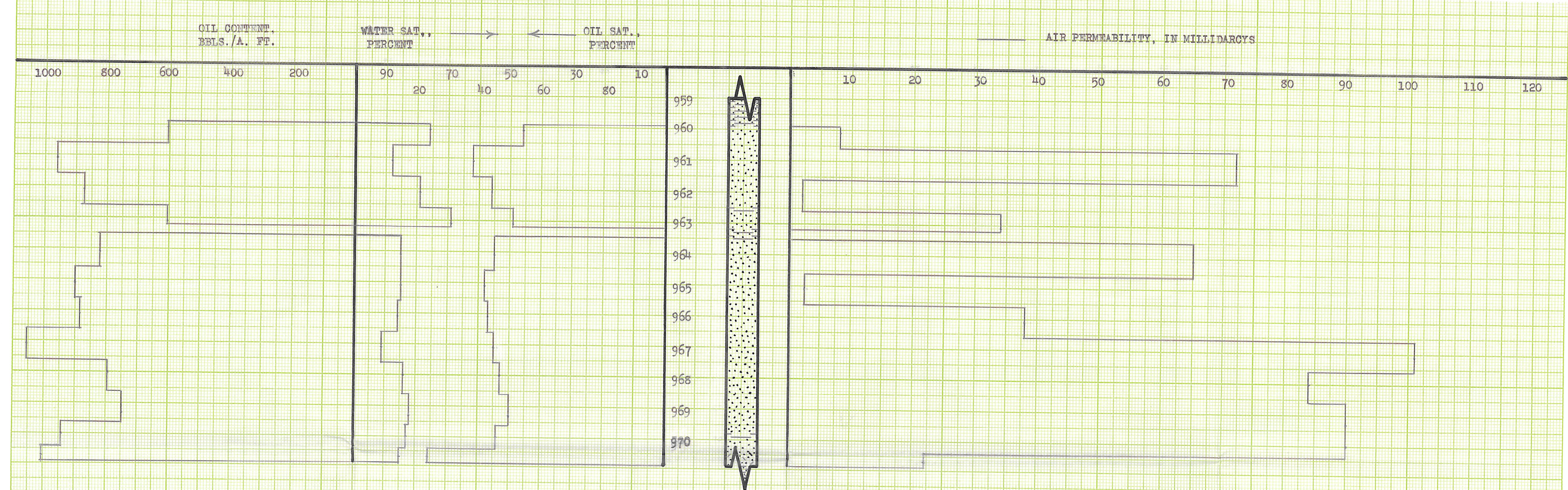
Oilfield Research Laboratories
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company N & B Enterprises Lease Chambers Well No. 5

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, mD/darcy	Permeability Capacity Ft. x Md.
959.9 - 965.6	5.3	32.9	174.04
965.6 - 970.9	5.2	74.4	387.00
959.9 - 970.9	10.5	53.4	561.04

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
959.9 - 965.6	5.3	19.0	55.3	18.4	818	4,343
965.6 - 970.9	5.2	20.7	56.1	14.7	896	4,650
959.9 - 970.9	10.5	19.9	55.6	16.6	856	8,993



SANDSTONE CONTAINING A FEW THIN SHALE LAYERS
CARBONACEOUS SANDSTONE

SANDY SHALE

N. 8 B. ENTERPRISES

CHAMBERS LEASE WELL NO. 5
WOODSON COUNTY, KANSAS

DEPTH INTERVAL FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBL./A. FT.	TOTAL OIL CONTENT BBL./ACRE	AVG. AIR PERMEABILITY, MILLIDARCYS
959.9 - 965.6	5.3	19.0	55.3	18.4	818	4,343	32.9
965.6 - 970.9	5.2	20.7	56.1	14.7	896	4,650	74.4
959.9 - 970.9	10.5	19.9	55.6	16.6	856	8,993	53.4

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
JULY, 1968

STANDARD CROSS SECTION
MILLIMETER