



# OILFIELD RESEARCH LABORATORIES

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

2423-10E

December 9, 1968

Newland Oil Company  
501 East Rutledge  
Yates Center, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Remlinger Lease, Well No. 11, Woodson County, Kansas, and submitted to our laboratory on December 9, 1968.

This core was sampled and submitted to our laboratory by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dp

2 c. - Yates Center, Kansas

Remlinger 11

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Newland Oil Company Lease Remlinger Well No. 11

Location NE NE NW

Section 24 Twp. 23S Rge. 16E County Woodson State Kansas

Name of Sand	Squirrel
Top of Core	942.0
Bottom of Core	957.0
Top of Sand	942.0
Bottom of Sand	955.6
Total Feet of Permeable Sand	2.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand:  
Permeability Range  
Millidarcys

Feet

Cum. Ft.

Average Permeability Millidarcys	0.72
Average Percent Porosity	15.6
Average Percent Oil Saturation	40.0
Average Percent Water Saturation	54.0
Average Oil Content, Bbls./A. Ft.	492.
Total Oil Content, Bbls./Acre	4,523.
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 Newland Oil Company Lease Remlinger Well No. 11

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
942.0 - 946.0	Grayish brown laminated shaly sandstone.
946.0 - 948.0	Gray sandy shale with very slight bleeding.
948.0 - 951.0	Core not received.
951.0 - 952.6	Gray sandy shale with very slight bleeding.
952.6 - 954.4	Gray sandy shale.
954.4 - 955.6	Grayish brown laminated shaly sandstone.
955.6 - 957.0	Gray sandy shale with very slight bleeding.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

TABLE 1-B

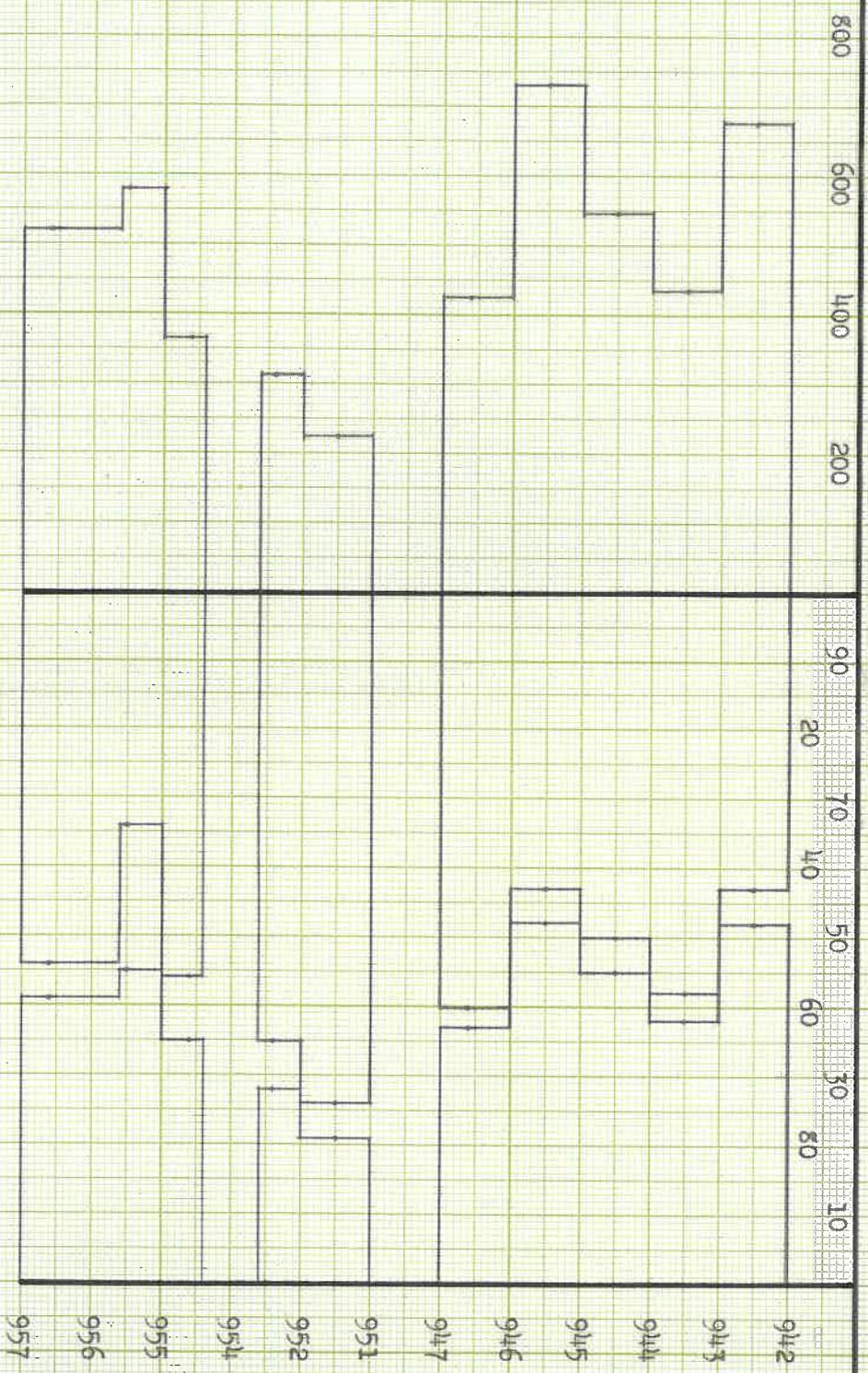
Company Newland Oil Company Lease Remlinger Well No. 11

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	942.5	16.7	52	43	95	674	0.44	1.0	1.0	674	0.44
2	943.5	14.7	38	58	96	434	1.0	1.0	2.0	434	1.00
3	944.5	15.7	45	50	95	548	Imp.	1.0	3.0	548	0.00
4	945.5	18.1	52	43	95	730	Imp.	1.0	4.0	730	0.00
5	946.6	14.8	37	60	97	425	Imp.	1.0	5.0	425	0.00
6	951.5	13.9	21	74	95	226	Imp.	1.0	6.0	226	0.00
7	952.4	14.4	28	65	93	313	Imp.	0.6	6.6	188	0.00
8	954.6	13.5	35	56	91	366	Imp.	0.6	7.2	220	0.00
9	955.5	16.6	45	34	79	580	Imp.	0.6	7.8	348	0.00
10	956.6	16.4	41	54	95	522	Imp.	1.4	9.2	730	0.00

OIL CONTENT,  
BBLS./A. FT.

WATER SAT.,  
PERCENT

OIL SAT.,  
PERCENT



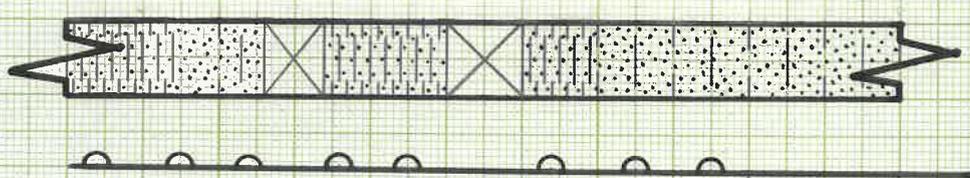
KEY:  
 SHALY SANDSTONE  
 SANDY SHALE

# NEWLAND OIL

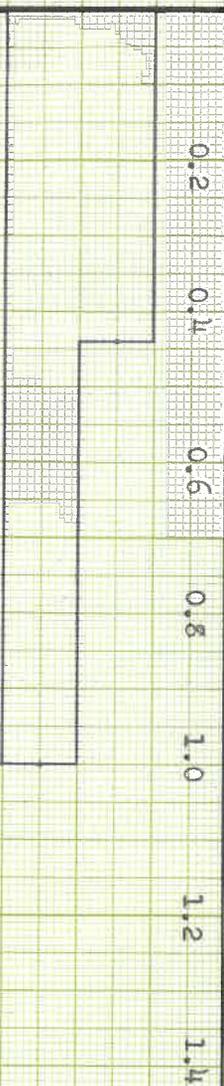
REMINGER LEASE

WOODSON COUNTY,

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OI SATURATI PERCENT
942.0 - 957.0	9.2	15.6	40.0



AIR PERMEABILITY, IN MILLIDARCY



BREAK



IMPERMEABLE TO AIR

# OIL COMPANY

WELL NO. 11

ODSON COUNTY, KANSAS

AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBL./A. FT.	TOTAL OIL CONTENT BBL./ACRE	AVG. AIR PERMEABILITY, MILLIDARCY
40.0	54.0	492	4,523	0.72

OILFIELD RESEARCH LABORATORIES  
 CHANUTE, KANSAS  
 DECEMBER, 1968