

#1024021935

OILFIELD RESEARCH LABORATORIES

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

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

Chanute, Kansas

August 28, 1964

C SW SW NW NW 5-27S-13E
[165' EWL + 1155' SNL]

LOCATION IS 1020' G.L. ON N EDGE OF GENTLE
SOUTHERLY SLOPE ON FALL RIVER LAKE (1975) 7½ Q.

Jackson Brothers
514 North Main
Eureka, Kansas

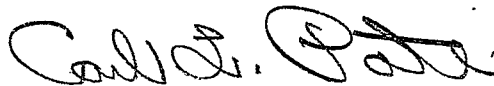
Gentlemen:

Enclosed herewith is the report of the analysis
of the Rotary core taken from the Lida Jackson Lease,
Well No. 3, Greenwood County, Kansas, and submitted
to our laboratory on August 22, 1964.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Carl L. Pate

CLP:rf

6 c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Jackson Bros. Lease Lida Jackson Well No. 3

Location 165' FWL & ^{1155'} 1755' FNL, NW $\frac{1}{4}$

Section 5 Twp. 27S Rge. 13E County Greenwood State Kansas

Name of Sand <u>Limestone</u>	Lansing
Top of Core	419.0
Bottom of Core	435.0
Top of Sand <u>Limestone</u> (Cored)	419.0
Bottom of Sand <u>Limestone</u>	433.0
Total Feet of Permeable Sand <u>Limestone</u>	9.0
Total Feet of Floodable Sand <u>Limestone</u>	-

Distribution of Permeable Sand <u>Limestone</u> Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.2	2.2
1 - 5	3.0	5.2
5 - 10	2.0	7.2
10 & above	1.8	9.0

Average Permeability Millidarcys	195.2
Average Percent Porosity	9.8
Average Percent Oil Saturation	26.7
Average Percent Water Saturation	15.5
Average Oil Content, Bbls./A. Ft.	170.
Total Oil Content, Bbls./Acre	1,957.
Average Percent Oil Recovery by Laboratory Flooding Tests	1.0
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	13.
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	30.
Total Calculated Oil Recovery, Bbls./Acre	-
Packer Setting, Feet	-
Viscosity, Centipoises @	-
A. P. I. Gravity, degrees @ 60 °F	-
Elevation, Feet <u>(GROUND LEVEL), EST. FROM 7$\frac{1}{2}$ Q)</u>	<u>1020'</u>

A fresh water mud was used as a circulating fluid in the coring of the lime in this well. This core was exposed to the air for two days before it was sampled. The core was sampled and sealed in tin cans by an employee of Oilfield Research Laboratories.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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419.0 - 421.0	- Gray shaly limestone.
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421.0 - 430.6	- Brownish gray, slightly sandy limestone.
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430.6 - 433.0	- Brownish gray, sandy limestone.
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433.0 - 435.0	- Shale.
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Coring was started at a depth of 419.0 feet in gray, shaly limestone and completed at 435.0 feet in shale. This core shows a total of 14.0 feet of limestone. For the most part, the pay is made up of brownish gray, slightly sandy to sandy limestone.

PERMEABILITY

For the sake of distribution, the core was divided into two sections. The weighted average permeability of the upper and lower sections is 3.6 and 962.0 millidarcys respectively; the overall average being 195.2 (See Table III). By observing the data given on the coregraph, it is noticeable that the lime has a very irregular permeability profile. The permeability of the lime varies from impermeable to a maximum of 1198. millidarcys.

PERCENT SATURATION & OIL CONTENT

The lime in this core shows a fairly low weighted average percent oil saturation, namely, 26.7. The weighted average percent oil saturation of the upper and lower sections is 28.2 and 15.0 respectively. The weighted average percent water saturation of the upper and lower sec-