

800' NSL + 165' WEL OF SW/4 NE/4.

Oilfield Research Laboratories

29 Aug. 1964

GENERAL INFORMATION & SUMMARY

Company Jackson Bros. Lease Hibbard Well No. L-A

Location 800' North of Center of Section, 165' West of East line, NW $\frac{1}{4}$

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

Name of <del>sand</del> <u>Limestone</u>	- - - - -	Lansing
Top of Core	- - - - -	376.0
Bottom of Core	- - - - -	397.0
Top of <del>sand</del> <u>Pay</u>	- - - - -	377.6
Bottom of <del>sand</del> <u>Pay</u>	- - - - -	388.0
Total Feet of Permeable <del>sand</del> <u>Lime</u>	- - - - -	8.8
Total Feet of Floodable <del>sand</del> <u>Lime</u>	- - - - -	3.6

Distribution of Permeable ~~sand~~ Lime  
Permeability Range  
Millidarcys

	Feet	Cum. Ft.
0 - 1	3.8	3.8
1 - 10	2.0	5.8
10 - 300	2.0	7.8
300 & above	1.0	8.8

Average Permeability Millidarcys	- - - - -	89.2
Average Percent Porosity	- - - - -	15.2
Average Percent Oil Saturation	- - - - -	17.1
Average Percent Water Saturation	- - - - -	60.2
Average Oil Content, Bbls./A. Ft.	- - - - -	174.
Total Oil Content, Bbls./Acre	- - - - -	1,568.
Average Percent Oil Recovery by Laboratory Flooding Tests	- - - - -	2.8
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	- - - - -	27.
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	- - - - -	98.
Total Calculated Oil Recovery, Bbls./Acre	- - - - -	533.
Packer Setting, Feet	- - - - -	
Viscosity, Centipoises @	- - - - -	
A. P. I. Gravity, degrees @ 60 °F	- - - - -	
Elevation, Feet	- - - - -	

A fresh water mud was used as a circulating fluid in the coring of the lime in this well. The core was sampled and sealed in tins cans by a representative 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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376.0 - 382.8	- Brownish gray, slightly sandy limestone.
382.8 - 386.5	- Sandy calcareous shale.
386.5 - 387.2	- Brown, sandy limestone.
387.2 - 387.5	- Shale.
387.5 - 389.6	- Brownish gray, sandy limestone.
389.6 - 391.0	- Gray, shaly limestone.
391.0 - 397.0	- Loss.

Coring was started at a depth of 376.0 feet in brownish gray, slightly sandy limestone and completed at 397.0 feet. There was a core loss of 6 feet at the bottom of core. This core shows a total of 10.8 feet of 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 5.8 and 288.1 millidarcys respectively; the overall average being 89.2 (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 0.31 to a maximum of 407. millidarcys.

#### PERCENT SATURATION & OIL CONTENT

The lime in this core shows a low weighted average percent oil saturation, namely, 17.1. The weighted average percent oil saturation