

1024021939

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

28 Oct. 1964

Company Jackson Bros. Lease Paul Hibbard Well No. 7-A
Location 330' North of South line & 495' West of East line, ~~NW~~ SW/4 NE/4
Section 5 Twp. 27S Rge. 13E County Greenwood State Kansas

Name of Limestone - - - - - Lansing
Top of Core - - - - - 361.0
Bottom of Core - - - - - 378.7
Top of Pay - - - - - (Analyzed) 361.0
Bottom of Pay - - - - - (Analyzed) 376.3
Total Feet of Permeable Pay - - - - - 10.3
Total Feet of Floodable Pay - - - - - 8.9

| Distribution of Permeable Pay Permeability Range Millidarcys | Feet | Cum. Ft. |
|--|------|----------|
| 0 - 33 | 4.0 | 4.0 |
| 119 - 200 | 3.3 | 7.3 |
| 200 - 400 | 2.0 | 9.3 |
| 400 & above | 1.0 | 10.3 |

Average Permeability Millidarcys - - - - - 144.2
Average Percent Porosity - - - - - 18.2
Average Percent Oil Saturation - - - - - 29.0
Average Percent Water Saturation - - - - - 56.5
Average Oil Content, Bbls./A. Ft. - - - - - 372.
Total Oil Content, Bbls./Acre - - - - - 3,824.
Average Percent Oil Recovery by Laboratory Flooding Tests - - - - - 9.1
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - - 98.
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - - 748.
Total Calculated Oil Recovery, Bbls./Acre - - - - - 1,850.
Packer Setting, Feet - - - - -
Viscosity, Centipoises @ - - - - -
A. P. I. Gravity, degrees @ 60 °F - - - - -
Elevation, Feet - - - - -

Water was used as the circulating fluid while taking this core. The core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories. The well was drilled in non-virgin territory.

FORMATION CORED

The detailed log of the formation cored is as follows:

| <u>Depth Interval,</u> | <u>Description</u> |
|------------------------|--------------------|
| <u>Feet</u> | |

| | |
|---------------|---|
| 361.0 - 362.6 | - Brown dolomitic limestone. |
| 362.6 - 365.0 | - Brownish gray, dolomitic limestone. |
| 365.0 - 370.0 | - Sandy shale. |
| 370.0 - 373.5 | - Brown dolomite. |
| 373.5 - 376.3 | - Gray and brown, slightly shaly, dolomite. |
| 376.3 - 377.4 | - Loss. |
| 377.4 - 378.7 | - Gray, slightly sandy limestone. |

Coring was started at a depth of 361.0 feet in limestone and completed at 378.1 feet in sandy limestone. For the most part, the pay is made up of brown, dolomitic 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 11.8 and 228.5 millidarcys respectively; the overall average being 144.2 (See Table III). By observing the data given on the coregraph, it is noticeable that the lime has an irregular permeability profile. The permeability varies from 0.58 to a maximum of 415. millidarcys.

PERCENT SATURATION & OIL CONTENT

The lime in this core shows a fairly good weighted average percent oil saturation, namely, 29.0. The weighted average percent oil satura-