# OILFIELD RESEARCH LABORATORIES

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


March 7, 1966

23-28-20E

Stan Cannan
701 South Highland
Chanute, Kansas

Dear Sir:

Attached hereto are the results of tests run on the Rotary core taken from the Blaine Lease, Well No. 1, Neosho County, Kansas, and submitted to our laboratory on March 5, 1966.

This core was sampled after being received in the laboratory. The well was drilled in semi-virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

BRP:rf

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BLAINE 1

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Stan Cannan Lease Blaine Well No. 1

Location SE NE SW NW

Section 23 Twp. 28S Rge. 20E County Neosho State Kansas

| | |
|---|---|
| Name of Sand | Bartlesville |
| Top of Core | 475.0 |
| Bottom of Core | 484.5 |
| Top of Sand (Tested) | 475.0 |
| Bottom of Sand | 482.3 |
| Total Feet of Permeable Sand | 6.4 |
| Total Feet of Floodable Sand | |

Distribution of Permeable Sand:

| Permeability Range Millidarcys | Feet | Cum. Ft. |
|---|---|---|
| 9 - 20 | 2.0 | 2.0 |
| 20 - 50 | 3.2 | 5.2 |
| 50 & above | 1.2 | 6.4 |

| | |
|---|---|
| Average Permeability Millidarcys | 31.2 |
| Average Percent Porosity | 17.8 |
| Average Percent Oil Saturation | 48.0 |
| Average Percent Water Saturation | 26.8 |
| Average Oil Content, Bbls./A. Ft. | 664. |
| Total Oil Content, Bbls./Acre | 4,578. |
| 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 | |

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Company Stan Cannan Lease Blaine Well No. 1

| Depth Interval, Feet | Description |
|---|---|
| 475.0 - 475.6 | Brown, laminated, slightly shaly sandstone. |
| 475.6 - 476.0 | Sandy shale. |
| 476.0 - 477.6 | Brown, laminated, slightly shaly sandstone. |
| 477.6 - 478.6 | Light brown, shaly sandstone. |
| 478.6 - 481.8 | Brown, laminated, slightly shaly sandstone. |
| 481.8 - 482.3 | Dark carbonaceous sandstone. |
| 482.3 - 484.5 | Shale. |

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### RESULTS OF SATURATION & PERMEABILITY TESTS

### TABLE 1-B

Company Stan Cannan Lease Blaine Well No. 1

| 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 | 475.1 | 18.4 | 52 | 20 | 72 | 741 | 43. | 0.6 | 0.6 | 445 | 25.80 |
| 2 | 476.1 | 18.5 | 46 | 23 | 69 | 660 | 30. | 0.6 | 1.2 | 396 | 18.00 |
| 3 | 477.1 | 17.5 | 43 | 32 | 75 | 583 | 32. | 1.0 | 2.2 | 583 | 32.00 |
| 4 | 478.1 | 14.4 | 42 | 41 | 83 | 469 | 9.1 | 1.0 | 3.2 | 469 | 9.10 |
| 5 | 479.1 | 19.5 | 47 | 27 | 74 | 711 | 33. | 1.0 | 4.2 | 711 | 33.00 |
| 6 | 480.1 | 19.9 | 48 | 19 | 67 | 741 | 19. | 1.0 | 5.2 | 741 | 19.00 |
| 7 | 481.1 | 17.4 | 59 | 23 | 82 | 796 | 52. | 1.2 | 6.4 | 955 | 62.40 |
| 8 | 482.1 | 16.7 | 43 | 25 | 68 | 556 | Imp. | 0.5 | 6.9 | 278 | 0.00 |
| | | | | | | | | Total | | 4,578 | |