

OILFIELD RESEARCH LABORATORIES

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- REGISTERED ENGINEERS -

Chanute, Kansas

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December 20, 1962

Lindsay Drilling Company
204 North Lafayette
Chanute, Kansas

Gentlemen:


Enclosed herewith are the results of tests run on the Cable Tool core taken from the Gildart Lease, Well No. 1, Neosho County, Kansas, and submitted to our laboratory on December 17, 1962.

This core was sampled and the samples sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:rf

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GENERAL INFORMATION & SUMMARY

Company Lindsay Drilling Co. Lease Gildart Well No. 1
 Location East 50 Acres

Section 11 Twp 30S Rge 17E County Neosho State Kansas

| | |
|------------------------------|--------------|
| Name of Sand | Bartlesville |
| Top of Core | 931.0 |
| Bottom of Core | 942.5 |
| Top of Sand | 931.0 |
| Bottom of Sand | 941.0 |
| Total Feet of Permeable Sand | 10.0 |
| Total Feet of Floodable Sand | |

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

| | Feet | Cum. Ft. |
|-------------|------|----------|
| 0 - 100 | 5.0 | 5.0 |
| 100 - 500 | 4.0 | 9.0 |
| 500 & above | 1.0 | 10.0 |

| | |
|---|--------|
| Average Permeability Millidarcys | 231.0 |
| Average Percent Porosity | 22.7 |
| Average Percent Oil Saturation | 40.3 |
| Average Percent Water Saturation | 33.1 |
| Average Oil Content, Bbls./A. Ft. | 705. |
| Total Oil Content, Bbls./Acre | 7,047. |
| 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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-LOG-Company Lindsay Drilling Co. Lease Gildart Well No. 1Depth Interval, Description
Feet

931.0 - 935.0 - Brown sandstone.

935.0 - 941.0 - Brown to dark sandstone.

941.0 - 942.5 - Shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Lindsay Drilling Co.

Lease Gildart

Well No. 1

| Sample No. | Depth, Feet | Effective Porosity Percent | Percent Saturation | | | Oil Content Bbbs. / A Ft. | Perm., Mill. | Feet of Sand | | Total Oil Content | Perm. Capacity Ft. X md. |
|------------|-------------|----------------------------|--------------------|-------|-------|---------------------------|--------------|--------------|----------|-------------------|--------------------------|
| | | | Oil | Water | Total | | | Ft. | Cum. Ft. | | |
| 1 | 931.5 | 24.7 | 30 | 34 | 64 | 576 | 920. | 1.0 | 1.0 | 576 | 920.00 |
| 2 | 932.5 | 23.5 | 35 | 36 | 71 | 640 | 249. | 1.0 | 2.0 | 640 | 249.00 |
| 3 | 933.5 | 24.0 | 45 | 30 | 75 | 840 | 467. | 1.0 | 3.0 | 840 | 467.00 |
| 4 | 934.5 | 23.3 | 36 | 43 | 79 | 653 | 347. | 1.0 | 4.0 | 653 | 347.00 |
| 5 | 935.5 | 26.1 | 39 | 31 | 70 | 790 | 177. | 1.0 | 5.0 | 790 | 177.00 |
| 6 | 936.5 | 23.7 | 39 | 26 | 65 | 718 | 46. | 1.0 | 6.0 | 718 | 46.00 |
| 7 | 937.5 | 21.5 | 40 | 31 | 71 | 670 | 34. | 1.0 | 7.0 | 670 | 34.00 |
| 8 | 938.5 | 17.9 | 45 | 43 | 88 | 625 | 4.9 | 1.0 | 8.0 | 625 | 4.90 |
| 9 | 939.5 | 21.8 | 42 | 32 | 74 | 711 | 50. | 1.0 | 9.0 | 711 | 50.00 |
| 10 | 940.5 | 20.4 | 52 | 25 | 77 | 824 | 15. | 1.0 | 10.0 | 824 | 15.00 |
| Total | | | | | | | | | | 7,047 | |

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Lindsay Drilling Co. Lease Gildart Well No. 1

| Depth Interval, Feet | Feet of Core Analyzed | Average Permeability, Millidarcys | Permeability Capacity Ft. x Md. | Average Percent Oil Saturation | Average Percent Porosity | Average Percent Water Saturation | Average Oil Content Bbl./A. Ft. | Total Oil Content Bbl./Acre |
|-------------------------|--------------------------|---|---------------------------------------|--------------------------------------|--------------------------------|--|---------------------------------------|-----------------------------------|
| 931.0 - 935.0 | 4.0 | 496.0 | 1,983.00 | 36.5 | 23.9 | 35.8 | 678 | 2,709 |
| 935.0 - 941.0 | 6.0 | 54.5 | 326.90 | 42.8 | 21.9 | 31.3 | 723 | 4,338 |
| 931.0 - 941.0 | 10.0 | 231.0 | 2,309.90 | 40.3 | 22.7 | 33.1 | 705 | 7,047 |