



OILFIELD RESEARCH LABORATORIES

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

June 29, 1966

Russell Operating Company
101 Petroleum Building
Abilene, Texas

Attn: Mr. James E. Russell

Gentlemen:

Enclosed herewith are the results of permeability and porosity tests run on the Rotary core taken from the McGhee Lease, Well No. 0-8, Anderson County, Kansas, and submitted to our laboratory on June 27, 1966.

This core was brought in to the laboratory by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

John L. Pate
John L. Pate

JLP:rf

- 2 c. - Abilene, Texas
- 1 c. - Colony, Kansas
- 2 c. - Houston, Texas
- 1 c. - Chanute, Kansas

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Company Russell Operating Company Lease McGhee Well No. 0-8

Depth Interval, Description
Feet _____

880.0 - 888.0 - Sandy shale.

888.0 - 891.0 - Laminated sandy shale.

891.0 - 899.0 - Brown shaly sandstone.

899.0 - 902.0 - Brown to dark, carbonaceous, shaly sandstone.

902.0 - 904.0 - Gray shaly sandstone.

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company Russell Operating Company Lease McGhee Well No. 0-8

| Sample No. | Depth Feet | Permeability Millidarcys | Feet of Core | | Permeability Capacity Ft. x Md. | Percent Porosity |
|------------|------------|--------------------------|--------------|----------|---------------------------------|------------------|
| | | | Ft. | Cum. Ft. | | |
| 1 | 888.5 | Imp. | 1.0 | 1.0 | 0.00 | 11.1 |
| 2 | 889.5 | Imp. | 1.0 | 2.0 | 0.00 | 10.2 |
| 3 | 890.3 | 0.93 | 1.0 | 3.0 | 0.93 | 15.9 |
| 4 | 891.5 | 12. | 1.0 | 4.0 | 12.00 | 20.9 |
| 5 | 892.5 | 11. | 1.0 | 5.0 | 11.00 | 21.2 |
| 6 | 893.5 | 11. | 1.0 | 6.0 | 11.00 | 20.6 |
| 7 | 894.5 | 5.4 | 1.0 | 7.0 | 5.40 | 19.7 |
| 8 | 895.5 | 2.1 | 1.0 | 8.0 | 2.10 | 15.7 |
| 9 | 896.5 | 5.5 | 1.0 | 9.0 | 5.50 | 19.7 |
| 10 | 897.5 | 6.9 | 1.0 | 10.0 | 6.90 | 19.0 |
| 11 | 898.5 | 4.0 | 1.0 | 11.0 | 4.00 | 17.9 |
| 12 | 899.5 | 0.79 | 1.0 | 12.0 | 0.79 | 11.1 |
| 13 | 900.5 | 5.2 | 1.0 | 13.0 | 5.20 | 17.9 |
| 14 | 901.5 | 4.7 | 1.0 | 14.0 | 4.70 | 17.8 |
| 15 | 902.5 | 1.9 | 1.0 | 15.0 | 1.90 | 16.0 |
| 16 | 903.5 | Imp. | 1.0 | 16.0 | 0.00 | 14.6 |

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

| Company | Russell Operating Company | Lease | McGhee | Well No. | |
|-------------------------|---------------------------|---|---|---------------------------------------|--------------------------------|
| Depth Interval, Feet | Feet of Core Analyzed | Average Air Permeability, Millidarcys | Average Effective Permeability, Millidarcys | Permeability Capacity Ft. x Md. | Average Percent Porosity |
| 888.0 - 899.0 | 11.0 | 6.5 | | 58.83 | 17.4 |
| 899.0 - 904.0 | 5.0 | 3.1 | | 12.59 | 15.5 |
| 888.0 - 904.0 | 16.0 | 5.5 | | 71.42 | 16.8 |