

OILFIELD RESEARCH LABORATORIES

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

July 15, 1966

Russell Operating Company
101 Petroleum Building
Abilene, Texas

Attn: Mr. James E. Russell

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the McGhee - Wolfe Lease, Well No. W-141, Anderson County, Kansas, and submitted to our laboratory on July 12, 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

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

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

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GENERAL INFORMATION & SUMMARY

Company Russell Operating Company Lease McGhee-Wolfe Well No. W-141

Location 1300' NSL on Property line, S/2

Section 31 Twp. 22S Rge. 18E County Anderson State Kansas

Name of Sand - - - - - Squirrel

Top of Core - - - - - 864.0

Bottom of Core - - - - - 888.0

Top of Sand - - - (Tested) - - - 864.0

Bottom of Sand - - - - - 881.2

Total Feet of Permeable Sand - - - - - 7.9

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1
1 - 5

4.2
3.7

4.2
7.9

Average Permeability Millidarcys - - - - - 1.4

Average Percent Porosity - - - - - 12.4

Average Percent Oil Saturation - - - - -

Average Percent Water Saturation - - - - -

Average Oil Content, Bbls./A. Ft. - - - - -

Total Oil Content, Bbls./Acre - - - - -

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 Russell Operating Company Lease McGhee-Wolfe Well No. W-141

Depth Interval, Description

Feet

864.0 - 866.0 - Laminated sandy shale.

866.0 - 867.0 - Brown shaly sandstone.

867.0 - 873.0 - Laminated sandy shale.

873.0 - 875.0 - Brown, laminated, shaly sandstone.

875.0 - 878.3 - Laminated sandy shale.

878.3 - 881.2 - Brown to dark, carbonaceous, slightly shaly sandstone.

881.2 - 888.0 - Shale.

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RESULTS OF PERMEABILITY AND POROSITY TESTS
TABLE I A

Company Russell Operating Company Lease McGhee-Wolfe Well No. W-141

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	864.5	Imp.	1.0	1.0	0.00	12.8
2	865.5	0.46	1.0	2.0	0.46	14.0
3	866.5	1.6	1.0	3.0	1.60	15.9
4	867.5	Imp.	1.0	4.0	0.00	9.6
5	868.5	Imp.	1.0	5.0	0.00	13.0
6	869.5	Imp.	1.0	6.0	0.00	11.5
7	870.5	0.32	1.0	7.0	0.32	12.5
8	871.5	Imp.	1.0	8.0	0.00	10.2
9	872.5	Imp.	1.0	9.0	0.00	12.2
10	873.5	0.98	1.0	10.0	0.98	14.0
11	874.5	4.7	1.0	11.0	4.70	18.7
12	875.5	Imp.	1.0	12.0	0.00	7.7
13	876.5	Imp.	1.0	13.0	0.00	11.7
14	877.5	Imp.	1.3	14.3	0.00	11.4
15	878.5	1.8	0.7	15.0	1.26	12.7
16	879.5	1.6	1.0	16.0	1.60	14.2
17	880.5	0.43	1.2	17.2	0.52	9.9

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company, Russell Operating Company		Lease		McGhee-Wolfe		Well No.	W-141
Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Fl. x Md.	Average Percent Porosity		
864.0 - 873.0	9.0	0.79		2.38	12.4		
873.0 - 881.2	8.2	1.9		9.06	12.4		
864.0 - 881.2	17.2	1.4		11.44	12.4		