

OILFIELD RESEARCH LABORATORIES

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May 25, 1959

Texas Natural & Layton Oil Company
P. O. Box 263
Independence, Kansas

Gentlemen:

Attached hereto are the results of tests run on the Cable Tool core taken from the Thomas Lease, Well No. K-19, located in the NW $\frac{1}{4}$, Section 31, Township 16S, Range 21E, Franklin County, Kansas, and submitted to our laboratory by a representative of the client on May 16, 1959.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Carl L. Pate

CLP:cs

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Company Texas Natural & Layton Oil Co. Lease Thomas Well No. K-19

Depth Interval, Description
Feet

647.2 - 649.5 - Brown fine grained micaceous slightly shaley sandstone.

649.5 - 654.4 - Dark brown fine grained micaceous sandstone.

654.4 - 655.1 - Shale.

655.1 - 655.7 - Dark brown fine grained micaceous sandstone.

655.7 - 657.1 - Laminated sandy shale.

Oilfield Research Laboratories
RESULTS OF PERMEABILITY AND POROSITY TESTS
TABLE I A

Company Texas Natural & Layton Oil Co. Lease Thomas Well No. K-19

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	647.4	9.3	0.7	0.7	6.51	21.8
2	648.4	17.	1.0	1.7	17.00	22.5
3	649.4	45.	0.6	2.3	27.00	23.1
4	650.3	115.	1.3	3.6	149.50	22.8
5	651.3	26.	1.0	4.6	26.00	22.3
6	652.3	52.	1.0	5.6	52.00	22.9
7	653.3	71.	1.0	6.6	71.00	23.7
8	654.3	45.	0.6	7.2	27.00	20.0
9	655.2	50.	0.6	7.8	30.00	20.8
10	656.3	Imp.	1.4	9.2	0.00	-

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company	Texas Natural & Layton Oil Co.	Lease	Thomas	Well No.
Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.
647.2 - 655.7	7.8	52.1	-	406.01
				Average Percent Porosity
				22.4