● CORE ANALYSIS ● WATER REPRESSURING ENGINEERING ● WATER ANALYSIS ● FLOODING WATER TREATMENT ● SURVEYING

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
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Chanute, Kansas

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CHANUTE, KANSAS
PHONE: HE 1-2650

January 26, 1962

Layton Oil Company
P.O. Box 263
Independence, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Krueger Lease, Well No. P-106, Neosho County, Kansas, and submitted to our laboratory on January 24, 1962.

This core was brought in unsealed 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

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Layton Oil Company Lease Krueger Well No. P-106

Location SW

Section 19 Twp. 27S Rge. 19E County Neosho State Kansas

Name of Sand	Bartlesville
Top of Core	735.0
Bottom of Core	793.0
Top of Sand	735.5
Bottom of Sand	792.5
Total Feet of Permeable Sand	15.4
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	4.8	4.8
5 - 10	6.0	10.8
10 - 30	4.6	15.4

Average Permeability Millidarcys	8.8
Average Percent Porosity	17.1
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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LOG

Company Layton Oil Co. Lease Krueger Well No. P-106

Depth Interval, Feet	Description
735.0 - 735.5	Laminated sandstone and shale.
735.5 - 738.9	Brown laminated shaley sandstone.
738.9 - 741.2	Dark brown slightly shaley sandstone.
741.2 - 782.8	Drilled.
782.8 - 785.5	Light brown shaley sandstone.
785.5 - 792.5	Brown slightly shaley sandstone.
792.5 - 793.0	Shale.

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company Layton Oil Co. Lease Krueger Well No. P-106

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	736	6.8	1.0	1.0	6.80	19.4
2	737	9.2	1.0	2.0	9.20	19.0
3	738	1.1	1.4	3.4	1.54	12.7
4	739	24.	0.6	4.0	14.40	19.5
5	740	10.	1.0	5.0	10.00	17.6
6	741	1.3	0.7	5.7	0.91	11.3
7	783	1.1	0.7	6.4	0.77	15.6
8	784	1.2	1.0	7.4	1.20	15.3
9	785	1.8	1.0	8.4	1.80	15.4
10	786	7.4	1.0	9.4	7.40	19.5
11	787	6.0	1.0	10.4	6.00	17.8
12	788	11.	1.0	11.4	11.00	18.5
13	789	9.9	1.0	12.4	9.90	17.4
14	790	15.	1.0	13.4	15.00	17.8
15	791	12.	1.0	14.4	12.00	18.2
16	792	28.	1.0	15.4	28.00	19.1

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Layton Oil Company Lease Krueger Well No. P-106

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
735.5 - 741.2	5.7	7.5	42.85
782.8 - 792.5	9.7	9.6	93.07
735.5 - 792.5	15.4	8.8	135.92

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
735.5 - 741.2	5.7	16.4				
782.8 - 892.5	9.7	17.5				
735.5 - 792.5	15.4	17.1				