



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

June 19, 1979

Layton Oil Company
P.O. Box 263
Independence, Kansas 67301

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Fee Lease, Well No. 6, Chautauqua County, Kansas, and submitted to our laboratory on June 13, 1979.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

SAM:km
5 c to Independence, Kansas

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GENERAL INFORMATION & SUMMARY

Company Layton Oil Company Lease Fee Well No. 6

Location 330' FNL & 1,000' FWL NW $\frac{1}{2}$

Section 19 Twp. 32S Rge. 13E County Chautauqua State Kansas

Name of Sand	Wiser
Top of Core	1130.0
Bottom of Core	1149.2
Top of Sand	1131.2
Bottom of Sand	(Tested) 1148.5
Total Feet of Permeable Sand	17.3
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 5	6.8	6.8
5 - 20	3.5	10.3
20 - 40	2.7	13.0
40 - 80	3.8	16.8
80 & Above	0.5	17.3

Average Permeability Millidarcys	25.1
Average Percent Porosity	16.7
Average Percent Oil Saturation	20.2
Average Percent Water Saturation	54.5
Average Oil Content, Bbls./A. Ft.	262.
Total Oil Content, Bbls./Acre	4,528.
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

Name Layton Oil Company Lease Fee Well No. 6

<u>Depth Interval, Feet</u>	<u>Description</u>
1130.0 - 1131.2	Gray shale.
1131.2 - 1133.5	Brown sandstone.
1133.5 - 1133.9	Brown shaly sandstone.
1133.9 - 1135.0	Brown sandstone.
1135.0 - 1137.1	Brown slightly calcareous sandstone.
1137.1 - 1139.4	Brown slightly calcareous sandstone.
1139.4 - 1140.0	Brown and gray laminated slightly calcareous sandstone and shale.
1140.0 - 1144.3	Light brown slightly calcareous shaly sandstone.
1144.3 - 1148.5	Light brown slightly calcareous sandstone.
1148.5 - 1149.2	Dark gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Layton Oil Company Lease Fee Well No. 6

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1131.6	20.9	20	40	60	324	39.	0.8	0.8	259	31.20
2	1132.7	18.1	22	40	62	309	20.	1.5	2.3	464	30.00
3	1133.7	18.7	19	35	54	276	2.8	0.4	2.7	110	1.12
4	1134.6	17.8	23	42	65	318	60.	1.1	3.8	350	66.00
5	1135.5	18.0	24	40	64	335	2.6	1.0	4.8	335	2.60
6	1136.7	14.2	25	63	88	275	4.9	1.1	5.9	303	5.39
7	1137.8	17.6	23	42	65	314	31.	0.9	6.8	283	27.90
8	1138.5	18.7	18	47	65	261	14.	1.4	8.2	365	19.60
9	1139.6	15.7	25	56	81	305	12.	0.6	8.8	183	7.20
10	1140.8	18.0	12	76	88	168	4.2	1.0	9.8	168	4.20
11	1141.6	15.8	13	73	86	159	1.8	1.0	10.8	159	1.80
12	1142.7	13.8	17	61	78	182	4.1	1.0	11.8	182	4.10
13	1143.6	9.1	24	70	94	169	0.32	1.3	13.1	220	0.42
14	1144.5	16.7	16	55	71	207	42.	0.7	13.8	145	29.40
15	1145.7	16.0	9	77	86	112	23.	1.0	14.8	112	23.00
16	1146.5	18.1	32	39	71	449	62.	1.0	15.8	449	62.00
17	1147.6	18.8	22	49	71	321	78.	1.0	16.8	321	78.00
18	1148.4	18.2	17	79	96	240	82.	0.5	17.3	120	41.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Layton Oil Company		Lease		Fee		Well No.		6	
Depth Interval, Feet		Feet of Core Analyzed		Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.					
1131.2 - 1140.0		8.8		21.7		191.01					
1140.0 - 1148.5		8.5		28.7		243.92					
1131.2 - 1148.5		17.3		25.1		434.93					

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	
1131.2 - 1140.0		8.8		17.7		22.1		45.3		301		2,652	
1140.0 - 1148.5		8.5		15.7		18.3		64.0		221		1,876	
1131.2 - 1148.5		17.3		16.7		20.2		54.5		262		4,528	