



OILFIELD RESEARCH LABORATORIES

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

December 16, 1965

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 McEndree Lease, Well No. 12, Allen County, Kansas, and submitted to our laboratory on December 11, 1965.

This core was sampled and the samples sealed in plastic bags 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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GENERAL INFORMATION & SUMMARY

Company	Layton Oil Company	Lease	McEndree	Well No.	12
Location	600 N & 600 E of Center				
Section	14	Twp.	25S	Rge.	19E
	County			Allen	State
					Kansas
Name of Sand	-				Bartlesville
Top of Core	-				825.0
Bottom of Core	-				880.0
Top of Sand	-				831.0
Bottom of Sand	-				871.1
Total Feet of Permeable Sand	-				35.7
Total Feet of Floodable Sand	-				
Distribution of Permeable Sand:					
Permeability Range Millidarcys	Feet		Cum. Ft.		
0 - 5	15.7		15.7		
5 - 10	11.0		26.7		
10 - 50	4.0		30.7		
50 - 100	2.0		32.7		
100 & above	3.0		35.7		
Average Permeability Millidarcys					30.4
Average Percent Porosity					19.2
Average Percent Oil Saturation					60.5
Average Percent Water Saturation					28.4
Average Oil Content, Bbls./A. Ft.					916.
Total Oil Content, Bbls./Acre					27,186.
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 Layton Oil Company Lease McEndree Well No. 12

Depth Interval, Feet	Description
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825.0 - 828.85-	Shale (Discarded at well).
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828.85- 831.0	- Laminated sandstone and shale.
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831.0 - 833.0	- Gray and brown, laminated, shaly sandstone.
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833.0 - 839.0	- Dark brown, laminated, shaly sandstone.
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839.0 - 846.0	- Dark brown, slightly shaly sandstone.
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846.0 - 852.0	- Dark brown and gray, laminated, shaly sandstone.
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852.0 - 852.4	- Loss.
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852.4 - 865.0	- Dark Brown and gray, laminated, shaly sandstone.
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865.0 - 868.0	- Laminated sandy shale.
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868.0 - 871.1	- Dark brown and gray, laminated, shaly sandstone.
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871.1 - 871.5	- Coal.
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871.5 - 880.0	- Gray soft shale (Discarded at well).
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Layton Oil Company Lease McEndree Well No. 12

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			Ft.	Cum. Ft.		
1	831.5					13.84	1.0	1.0		13.00
2	832.5					4.2	1.0	2.0	688	0.84
3	833.7	18.1	49	48	97		1.0	3.0		4.20
4	834.7	17.7	52	39	91	10.	1.0	4.0	714	10.00
5	835.7	19.0	62	30	92	9.0	1.0	5.0	911	9.00
6	836.5					Imp.	1.0	6.0		0.00
7	837.7	18.1	61	35	96	1.6	1.0	7.0	856	1.60
8	838.5					1.7	1.0	8.0		1.70
9	839.5	19.5	63	26	89	20.	1.0	9.0	952	20.00
10	840.5	22.0	56	23	79	123.	1.0	10.0	955	123.00
11	841.5	20.0	62	30	92	63.	1.0	11.0	961	63.00
12	842.5	21.4	62	26	88	25.	1.0	12.0	1029	25.00
13	843.5	21.2	55	24	79	62.	1.0	13.0	904	62.00
14	844.5	16.9	59	37	96	415.	1.0	14.0	772	415.00
15	845.5	23.6	57	26	83	205.	1.0	15.0	1043	205.00
16	846.7	18.9	54	36	90	6.7	1.0	16.0	791	6.70
17	847.7	17.0	58	30	88	8.1	1.0	17.0	764	8.10
18	848.7	19.2	63	32	95	3.1	1.0	18.0	938	3.10
19	849.7	19.6	69	24	93	5.7	1.0	19.0	1050	5.70
20	850.7	19.3	60	34	94	2.8	1.0	20.0	898	2.80
21	851.7	20.0	62	28	90	3.1	1.0	21.0	963	3.10
22	853.5	19.9	68	28	96	2.3	1.6	22.6	1679	3.68
23	854.7	20.6	65	26	91	6.3	1.0	23.6	1038	6.30
24	855.5	19.4	63	28	91	2.5	1.0	24.6	948	2.50
25	856.7	20.5	62	26	88	5.0	1.0	25.6	987	5.00
26	857.7	18.7	66	31	97	2.5	1.0	26.6	958	2.50
27	858.5	20.3	63	20	83	8.6	1.0	27.6	992	8.60

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Layton Oil Company Lease McEndree Well No. 12

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.		
28	859.5	20.2	62	23	85	972	9.2	1.0	28.6	972	9.20
29	860.7	17.0	59	28	87	778	3.7	1.0	29.6	778	3.70
30	861.7	18.4	64	21	85	914	9.4	1.0	30.6	914	9.40
31	862.7	20.5	55	19	74	874	10.0	1.0	31.6	874	10.00
32	863.5	21.6	56	20	76	938	26.	1.0	32.6	938	26.00
33	864.5						5.2	1.0	33.6		5.20
34	865.5						Imp.	1.0	34.6		0.00
35	866.5						Imp.	1.0	35.6		0.00
36	867.5						Imp.	1.0	36.6		0.00
37	868.5	18.8	63	28	91	919	.99	1.0	37.6	919	0.99
38	869.5						3.2	1.0	38.6		3.20
39	870.5						5.0	1.1	39.7		5.50

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease		McEndree		Well No.	
Layton Oil Company						12	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
831.0 - 839.0	7.0	5.8	40.34	831.0 - 839.0	7.0	5.8	40.34
839.0 - 846.0	7.0	130.5	913.00	839.0 - 846.0	7.0	130.5	913.00
846.0 - 871.1	21.7	6.1	131.27	846.0 - 871.1	21.7	6.1	131.27
831.0 - 871.1	35.7	30.4	1084.61	831.0 - 871.1	35.7	30.4	1084.61

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
831.0 - 839.0	4.0	18.2	56.0	38.0	792	3169
839.0 - 846.0	7.0	20.6	59.0	27.4	946	6616
846.0 - 871.1	18.6	19.4	62.1	26.8	936	17401
831.0 - 871.1	29.6	19.2	60.5	28.4	916	27186