



OILFIELD RESEARCH LABORATORIES

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

July 22, 1968

Glenn Layton, Jr.
Box 337
Wellsville, Kansas 66092

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core samples taken from the Johnson Lease, Well No. 4, Franklin County, Kansas, and submitted to our laboratory on July 18, 1968.

This core was sampled and the samples sealed in plastic bags by the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dlp

5 c. - Wellsville, Kansas

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GENERAL INFORMATION & SUMMARY

Company Glenn Layton, Jr. Lease Johnson Well No. 4

Location SE/4

Section 24 Twp. 15S Rge. 20E County Franklin State Kansas

Name of Sand - - - - - Squirrel

Top of Core - - - - - 776.9

Bottom of Core - - - - - 811.1

Pay
Top of Sand - - - - - 783.5

Bottom of Sand - (Bottom) - - - - - 811.1

Total Feet of Permeable Sand - - - - -

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

Average Permeability Millidarcys - - - - -

Average Percent Porosity - - - - - 21.1

Average Percent Oil Saturation - - - - - 43.9

Average Percent Water Saturation - - - - - 42.8

Average Oil Content, Bbls./A. Ft. - - - - - 723.

Total Oil Content, Bbls./Acre - - - - - 24,732.

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 Glenn Layton, Jr. Lease Johnson Well No. 4

Depth Interval, Description

<u>Feet</u>	<u></u>
776.9 - 779.5	Brownish gray shaly sandstone.
779.5 - 781.5	Grayish brown fine grained sandstone.
781.5 - 784.5	Light brown fine grained sandstone.
784.5 - 800.5	Brown fine grained sandstone.
800.5 - 801.5	Light brown laminated shaly sandstone.
801.5 - 804.5	Brown fine grained sandstone.
804.5 - 807.5	Brown slightly shaly sandstone.
807.5 - 811.1	Light brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Glenn Layton, Jr. Lease Johnson Well No. 4

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	777	16.8	27	67	94	352		0.6	0.6	210	
2	778	15.8	24	68	92	294		1.0	1.6	294	
3	779	16.4	30	64	94	382		1.0	2.6	382	
4	780	23.0	19	65	84	339		1.0	3.6	339	
5	781	21.3	19	68	87	314		1.0	4.6	314	
6	782	21.8	29	56	85	491		1.0	5.6	491	
7	783	24.2	23	57	80	432		1.0	6.6	432	
8	784	21.8	33	48	81	558		1.0	7.6	558	
9	785	21.8	46	37	83	778		1.0	8.6	778	
10	786	26.1	46	32	78	932		1.0	9.6	932	
11	787	22.5	43	40	83	750		1.0	10.6	750	
12	788	24.9	40	38	78	773		1.0	11.6	773	
13	789	19.2	59	39	98	879		1.0	12.6	878	
14	790	21.6	58	30	88	972		1.0	13.6	972	
15	791	24.3	62	20	82	1170		1.0	14.6	1170	
16	792	20.1	65	31	96	1014		1.0	15.6	1014	
17	793	22.3	67	22	89	1158		1.0	16.6	1158	
18	794	21.3	52	29	81	859		1.0	17.6	859	
19	795	19.7	51	27	78	780		1.0	18.6	780	
20	796	21.3	51	33	84	843		1.0	19.6	843	
21	797	24.1	63	21	84	1178		1.0	20.6	1178	
22	798	23.1	46	37	83	825		1.0	21.6	825	
23	799	22.8	47	36	83	832		1.0	22.6	832	
24	800	22.9	46	40	86	818		1.0	23.6	818	

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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.		
25	801	17.9	43	40	83	588		1.0	24.6	588	
26	802	22.6	44	42	86	772		1.0	25.6	772	
27	803	23.2	49	42	91	882		1.0	26.6	882	
28	804	20.3	49	44	93	772		1.0	27.6	772	
29	805	19.6	49	44	93	746		1.0	28.6	746	
30	806	19.3	40	44	84	599		1.0	29.6	599	
31	807	19.2	50	42	92	745		1.0	30.6	745	
32	808	17.8	40	55	95	552		1.0	31.6	552	
33	809	18.2	35	53	88	495		1.0	32.6	495	
34	810	19.4	46	51	97	692		1.0	33.6	692	
35	811	19.0	35	47	82	516		0.6	34.2	309	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company <u>Glenn Layton, Jr.</u>		Lease <u>Johnson</u>		Well No. <u>4</u>	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
776.9 - 783.5	6.6	20.1	24.3	373	2,462
783.5 - 807.5	24.0	21.7	50.0	842	20,222
807.5 - 811.1	3.6	18.5	39.5	569	2,048
776.9 - 811.1	34.2	21.1	43.9	723	24,732