



OILFIELD RESEARCH LABORATORIES

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

April 24, 1980

Glenn Caldwell
P.O. Box 42
Garnett, Kansas 66032

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Bailey-Lohrengel Lease, Well No. 1, Anderson County, Kansas, and submitted to our laboratory on April 15, 1980.

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


Sanford A. Michel

SAM/tem

5 c to Garnett, Kansas

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GENERAL INFORMATION & SUMMARY

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 1
 Location SE¹/₄
 Section 22 Twp. 21S Rge. 21E County Anderson State Kansas

Elevation, Feet	
Name of Sand	Squirrel
Top of Core	580.0
Bottom of Core	599.7
Top of Sand	580.0
Bottom of Sand (Tested)	598.9
Total Feet of Permeable Sand	18.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	4.5	4.5
10 - 20	3.4	7.9
20 - 40	8.9	16.8
50 & Above	2.1	18.9

Average Permeability Millidarcys	23.5
Average Percent Porosity	20.4
Average Percent Oil Saturation	33.8
Average Percent Water Saturation	46.2
Average Oil Content, Bbls./A. Ft.	533.
Total Oil Content, Bbls./Acre	10,082.

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LOGName Glenn Caldwell Lease Bailey-Lohrengel Well No. 1

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
580.0 - 582.1	Brown sandstone.
582.1 - 583.3	Brown shaly sandstone.
583.3 - 583.7	Brown sandstone.
583.7 - 586.8	Brown shaly sandstone.
586.8 - 592.2	Brown slightly calcareous sandstone.
592.2 - 592.8	Brown slightly shaly sandstone.
592.8 - 596.1	Brown sandstone.
596.1 - 596.8	Brown shaly sandstone.
596.8 - 598.9	Brown sandstone.
598.9 - 599.7	Gray and brown laminated shale and sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Total	Ft.		
1	580.5	21.2	26	45	71	20.	1.0	1.0	428	20.00
2	581.5	20.9	21	52	73	36.	1.1	2.1	375	39.60
3	582.5	19.5	21	52	73	3.9	1.2	3.3	382	4.68
4	583.5	20.2	35	43	78	14.	0.4	3.7	220	5.60
5	584.4	20.9	33	43	76	3.1	1.0	4.7	535	3.10
6	585.5	16.0	21	69	90	0.89	1.0	5.7	261	0.89
7	586.5	21.0	36	39	75	32.	1.1	6.8	646	35.20
8	587.5	19.5	31	50	81	12.	1.0	7.8	469	12.00
9	588.4	19.8	23	52	75	14.	1.0	8.8	353	14.00
10	589.5	20.0	35	45	80	31.	1.0	9.8	543	31.00
11	590.3	21.1	46	43	89	19.	1.0	10.8	753	19.00
12	591.5	19.9	42	40	82	31.	1.4	12.2	907	43.40
13	592.5	19.6	30	48	78	8.2	0.6	12.8	365	6.56
14	593.6	20.4	34	43	77	34.	1.3	14.1	699	44.20
15	594.5	19.7	27	53	80	23.	1.0	15.1	413	23.00
16	595.4	20.9	37	40	77	27.	1.0	16.1	600	27.00
17	596.3	21.7	49	37	86	3.3	0.7	16.8	578	2.31
18	597.3	21.2	48	35	83	51.	1.1	17.9	869	56.10
19	598.4	20.1	44	39	83	57.	1.0	18.9	686	57.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
580.0 - 588.8	8.8	19.9	26.8	49.9	15.3	135.07	3,669
588.8 - 598.9	10.1	20.8	39.9	43.0	30.7	309.57	6,413
580.0 - 598.9	18.9	20.4	33.8	46.2	23.5	444.64	10,082