

OILFIELD RESEARCH LABORATORIES

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

October 20, 1980

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

Gentlemen:

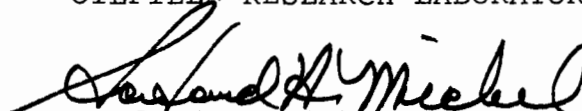
Enclosed herewith are the results of tests run on the rotary core taken from the Bailey-Lohrengel Lease, Well No. 9, Anderson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on August 19, 1980.

Your business is greatly appreciated.

Very truly yours,

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Sanford A. Michel

SAM/tem

5 c to Garnett, Knasas

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GENERAL INFORMATION & SUMMARY

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 9
 Location NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$
 Section 22 Twp. 21S Rge. 21E County Anderson State Kansas

Elevation, Feet	
Name of Sand	Squirrel
Top of Core	602.0
Bottom of Core	622.0
Top of Sand	602.0
Bottom of Sand	622.0
Total Feet of Permeable Sand	20.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 20	8.4	8.2
20 - 30	6.7	14.9
30 - 40	2.6	17.5
40 & Above	2.5	20.0

Average Permeability Millidarcys	23.1
Average Percent Porosity	19.1
Average Percent Oil Saturation	49.7
Average Percent Water Saturation	41.9
Average Oil Content, Bbls./A. Ft.	745.
Total Oil Content, Bbls./Acre	14,897.

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Name Glenn Caldwell Lease Bailey-Lohrengel Well No. 9

<u>Depth Interval, Feet</u>	<u>Description</u>
602.0 - 603.8	Brown sandstone.
603.8 - 605.2	Brown shaly sandstone.
605.2 - 605.7	Brown sandstone.
605.7 - 607.8	Brown and gray laminated sandstone and shale.
607.8 - 612.2	Dark brown slightly calcareous sandstone.
612.2 - 612.8	Brown slightly calcareous slightly shaly sandstone.
612.8 - 613.7	Brown and gray slightly calcareous conglomeratic sandstone and shale.
613.7 - 622.0	Dark brown slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 9

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	602.7	17.7	50	48	98	687	10.	1.0		687	10.00
2	603.5	17.8	53	42	95	732	14.	0.8		586	11.20
3	604.4	19.9	51	44	95	787	6.3	1.4		1102	8.82
4	605.6	20.5	44	39	84	700	44.	0.5		350	22.00
5	606.6	16.3	14	77	91	177	1.4	1.0		177	1.40
6	607.6	17.3	27	63	90	362	6.3	1.1		398	6.93
7	608.5	20.2	43	41	84	674	33.	1.0		674	33.00
8	609.5	18.1	37	48	85	520	33.	1.0		520	33.00
9	610.2	21.2	65	30	95	1069	43.	1.0		1069	43.00
10	611.5	18.8	45	46	91	656	24.	1.4		918	33.60
11	612.5	19.4	54	40	94	813	30.	0.6		488	18.00
12	613.3	18.2	32	49	81	452	9.3	0.9		407	8.37
13	614.3	20.1	45	40	85	702	62.	1.0		702	62.00
14	615.5	19.9	61	32	93	942	25.	1.0		942	25.00
15	616.3	19.8	58	37	95	891	24.	1.0		891	24.00
16	617.4	20.0	66	30	96	1024	28.	1.0		1024	28.00
17	618.3	20.2	60	34	94	940	19.	1.0		940	19.00
18	619.0	19.2	64	31	95	953	12.	1.0		953	12.00
19	620.1	19.0	55	40	95	811	28.	1.0		811	28.00
20	621.4	18.9	66	26	92	968	26.	1.3		1258	33.80

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Glenn Caldwell Lease Bailey-Lohrengel Well No. 9

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
602.0 - 622.0	20.0	23.1	461.12

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
602.0 - 622.0	20.0	19.1	49.7	41.9	745	14,897