



OILFIELD RESEARCH LABORATORIES

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

November 21, 1977

G G L & Company
Box 67
Bronson Kansas 66716

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Abbey Lease, Well No. 2-B, Bourbon County, Kansas, and submitted to our laboratory on November 14, 1977.

This core is from a semi-virgin territory and was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Carl L. Pate

CLP:ss
3 c to Bronson, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company G G L & Company Lease Abbey Well No. 2-B
 Location 630' FSL & 160' FEL NW $\frac{1}{4}$
 Section 5 Twp. 24S Rge. 22E County Bourbon State Kansas
 Name of Sand Bartlesville
 Top of Core -(Received) 630.0
 Bottom of Core -(Received) 639.0
 Top of Sand -(Received) 630.0
 Bottom of Sand -(Received) 639.0
 Total Feet of Permeable Sand 9.0
 Total Feet of Floodable Sand
 Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 100	4.0	4.0
100 & Above	5.0	9.0

 Average Permeability Millidarcys 301.3
 Average Percent Porosity 25.4
 Average Percent Oil Saturation 38.8
 Average Percent Water Saturation 45.2
 Average Oil Content, Bbls./A. Ft. 752.
 Total Oil Content, Bbls./Acre 6,770.
 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 27.0

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company G G L & Company Lease Abbey Well No. 2-B

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	630.5	31.3	29	54	83	706	263.	1.0	1.0	706	263.00
2	631.5	28.7	36	53	89	803	1175.	1.0	2.0	803	1175.00
3	632.5	16.8	45	44	89	588	119.	1.0	3.0	588	119.00
4	633.5	22.4	40	39	79	697	223.	1.0	4.0	697	223.00
5	634.5	29.4	31	49	80	709	745.	1.0	5.0	709	745.00
6	635.5	26.4	35	54	89	719	90.	1.0	6.0	719	90.00
7	636.5	25.6	42	47	89	836	28.	1.0	7.0	836	28.00
8	637.5	24.7	52	41	93	999	16.	1.0	8.0	999	16.00
9	638.5	23.5	39	26	65	713	53.	1.0	9.0	713	53.00

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- LOG -

Company G G L & Company Lease Abbey Well No. 2-B

<u>Depth Interval, Feet</u>	<u>Description</u>
630.0 - 636.0	Dark brown medium grained sandstone.
636.0 - 638.0	Light brown medium grained sandstone.
638.0 - 639.0	Dark brown medium grained sandstone.