OILFIELD RESEARCH LABORATORIES

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

April 30, 1976

Glenn Caldwell
Box 42
Garnett, Kansas 66032

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core samples taken from the North Unit Lease, Well No. 12-S, Anderson County, Kansas, and submitted to our laboratory on April 27, 1976.

This core was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bl
5 c to Garnett, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Glenn Caldwell Lease North Unit Well No. 12-S

Location $N\frac{1}{2}$ $SE\frac{1}{4}$

Section 4 Twp. 21S Rge. 21E County Anderson State Kansas

Name of Sand		Bartlesville
Top of Core	(Received)	713.5
Bottom of Core	(Received)	731.5
Top of Oil Sand	(Received)	717.5
Bottom of Sand	(Received)	731.5
Total Feet of Permeable Sand	(Analyzed)	8.0
Total Feet of Floodable Sand		

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	3.0	3.0
5 - 10	2.0	5.0
10 & above	3.0	8.0

Average Permeability Millidarcys	12.6
Average Percent Porosity	16.6
Average Percent Oil Saturation	28.3
Average Percent Water Saturation	54.4
Average Oil Content, Bbls./A. Ft.	375.
Total Oil Content, Bbls./Acre	3,379.
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 Caldwell Lease North Unit Well No. 12-S

Depth Interval, Feet	Description
713.5 - 714.5	Brownish gray shaly sandstone.
714.5 - 717.5	Core not received.
717.5 - 718.5	Light brown shaly sandstone.
718.5 - 719.0	Core not received.
719.0 - 722.0	Brown slightly laminated shaly sandstone.
722.0 - 723.0	Core not received.
723.0 - 724.0	Brown slightly shaly sandstone.
724.0 - 724.5	Core not received.
724.5 - 725.5	Light brown slightly laminated shaly sandstone.
725.5 - 726.0	Core not received.
726.0 - 727.0	Hard gray sandy shale.
727.0 - 730.5	Core not received.
730.5 - 731.5	Grayish brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Glenn Caldwell Lease North Unit Well No. 12-S

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	714.0	14.4	3	71	74	34	~~10.~~	~~1.0~~	1.0	34	10.00
2	718.0	14.1	29	67	96	317	3.7	1.0	2.0	317	3.70
3	719.6	19.0	27	40	67	398	8.8	1.0	3.0	398	8.80
4	720.5	19.9	35	36	71	542	60.	1.0	4.0	542	60.00
5	721.5	18.2	40	39	79	565	6.9	1.0	5.0	565	6.90
6	723.5	18.5	38	51	89	546	10.	1.0	6.0	546	10.00
7	725.0	16.0	33	49	82	410	1.3	1.0	7.0	410	1.30
8	726.5	14.8	18	77	95	207	Imp.	1.0	8.0	207	0.00
9	731.0	14.5	32	60	92	360	0.49	1.0	9.0	360	0.49