



OILFIELD RESEARCH LABORATORIES

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

August 3, 1979

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 Lytle Lease, Well No. 8, Anderson County, Kansas, and submitted to our laboratory on July 31, 1979.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:dlb

5 c to Garnett, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Glenn Caldwell Lease Lytle Well No. 8

Location Center NW NW

Section 27 Twp. 21S Rge. 19E County Anderson State Kansas

Name of Sand	- - - - -	Squirrel
Top of Core	- - - - -	766.0
Bottom of Core	- - - - -	782.0
Top of Sand	- - - - -	766.0
Bottom of Sand	- - - - -	778.2
Total Feet of Permeable Sand	- - - - -	11.2
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1
1 - 5

4.9
6.3

4.9
11.2

Average Permeability Millidarcys	- - - - -	1.5
Average Percent Porosity	- - - - -	12.4
Average Percent Oil Saturation	- - - - -	33.8
Average Percent Water Saturation	- - - - -	59.0
Average Oil Content, Bbls./A. Ft.	- - - - -	329.
Total Oil Content, Bbls./Acre	- - - - -	3,684.
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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LOG

Company Glenn Caldwell Lease Lytle Well No. 8

<u>Depth Interval, Feet</u>	<u>Description</u>
766.0 - 769.7	Light brown laminated shaly sandstone.
769.7 - 770.0	Gray sandy shale.
770.0 - 776.9	Light brown laminated shaly sandstone.
776.9 - 777.6	Gray sandy shale.
777.6 - 778.2	Light brown laminated shaly sandstone.
778.2 - 779.8	Gray sandy shale.
779.8 - 782.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Glenn Caldwell Lease Lytile Well No. 8

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	766.4	11.9	38	48	86	351	1.1	1.0	1.0	351	1.10
2	767.4	12.9	32	62	94	320	0.80	1.0	2.0	320	0.80
3	768.6	15.5	43	47	90	517	2.7	1.0	3.0	517	2.70
4	769.5	15.0	44	48	92	512	1.3	0.7	3.7	358	0.91
5	770.5	11.7	37	56	93	336	0.39	1.0	4.7	336	0.39
6	771.5	11.2	27	67	94	235	4.1	1.0	5.7	235	4.10
7	772.5	11.4	36	57	93	318	1.4	1.0	6.7	318	1.40
8	773.5	11.9	40	52	92	369	0.49	1.0	7.7	369	0.49
9	774.5	11.8	26	70	96	238	2.5	1.0	8.7	238	2.50
10	775.5	11.7	31	64	95	281	0.47	1.0	9.7	281	0.47
11	776.5	12.1	31	64	95	291	0.48	0.9	10.6	262	0.43
12	777.8	12.5	17	78	95	165	2.3	0.6	11.2	99	1.38

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Glenn Caldwell	Lease	Lytle	Well No.	8
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
766.0 - 774.0	7.7	1.5	11.89		
774.0 - 778.2	3.5	1.4	4.78		
766.0 - 778.2	11.2	1.5	16.67		

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
766.0 - 774.0	7.7	12.6	36.9	54.9	364	2,804
774.0 - 778.2	3.5	12.0	27.2	68.1	251	880.
766.0 - 778.2	11.2	12.4	33.8	59.0	329	3,684.