



OILFIELD RESEARCH LABORATORIES

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

May 21, 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 North Unit Lease, Well No. 40, Anderson County, Kansas, and submitted to our laboratory on May 11, 1979.

This 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:cgb

5 c to Garnett, Kansas

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- LOG -

Company Glenn Caldwell Lease North Unit Well No. 40

<u>Depth Interval, Feet</u>	<u>Description</u>
710.0 - 711.4	Light brown and gray laminated sandstone and shale.
711.4 - 713.9	Dark brown sandstone.
713.9 - 716.0	Gray and brown slightly laminated sandy shale.
716.0 - 717.7	Dark brown sandstone.
717.7 - 719.0	Grayish brown sandy shale.
719.0 - 723.6	Dark brown sandstone.
723.6 - 724.9	Gray sandy shale.
724.9 - 730.0	Light brown laminated slightly carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Glenn Caldwell Lease North Unit Well No. 40

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.		
1	710.5	16.5	26	48	74	16.	1.4	1.4	466	22.40
2	711.5	21.5	25	40	65	76.	0.6	2.0	250	45.60
3	712.5	20.7	27	45	72	44.	1.0	3.0	434	44.00
4	713.5	20.2	31	46	77	62.	0.9	3.9	437	55.80
5	716.5	21.1	45	28	83	125.	1.0	4.9	737	125.00
6	717.5	18.0	49	28	77	47.	0.7	5.6	479	32.90
7	719.5	20.1	31	37	68	54.	1.0	6.6	483	54.00
8	720.5	20.4	37	29	66	61.	1.0	7.6	586	61.00
9	721.5	20.0	31	37	68	50.	1.0	8.6	481	50.00
10	722.5	22.1	31	39	70	90.	1.0	9.6	532	90.00
11	723.5	17.8	36	37	73	56.	0.6	10.2	298	33.60
12	725.5	17.2	51	36	87	4.2	1.1	11.3	749	4.62
13	726.5	18.4	55	28	83	1.4	1.0	12.3	785	1.40
14	727.5	19.2	46	25	71	3.3	1.0	13.3	685	3.30
15	728.5	18.6	53	24	77	3.8	1.0	14.3	765	3.80
16	729.5	18.6	48	26	74	2.9	1.0	15.3	693	2.90

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	North Unit	Well No.
Glenn Caldwell			40

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
710.0 - 713.9	3.9	43.0	167.80
716.0 - 730.0	11.4	40.6	462.52
710.0 - 730.0	15.3	41.2	630.32

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
710.0 - 713.9	3.9	19.2	27.3	45.5	407	1,587
716.0 - 730.0	11.4	19.2	42.9	31.1	638	7,273
710.0 - 730.0	15.3	19.2	38.9	34.8	579	8,860