

OILFIELD RESEARCH LABORATORIES

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

June 4, 1981

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 Krietler Lease, Well No. 1, located in Anderson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on June 2, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Garnett, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Glenn Caldwell Lease Krietler Well No. 1
 Location 220' FEL & 220' FSL NW $\frac{1}{4}$
 Section 27 Twp. 21S Rge. 21E County Anderson State Kansas

Elevation, Feet
 Name of Sand..... Squirrel
 Top of Core 539.0
 Bottom of Core 559.7
 Top of Sand 539.0
 Bottom of Sand 559.7
 Total Feet of Permeable Sand 20.7

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 4	4.1	4.1
4 - 8	3.2	7.3
8 - 16	5.0	12.3
25 - 50	3.7	16.0
50 - 70	4.7	20.7

Average Permeability Millidarcys 23.2
 Average Percent Porosity 19.6
 Average Percent Oil Saturation 30.3
 Average Percent Water Saturation 46.8
 Average Oil Content, Bbls./A. Ft. 472.
 Total Oil Content, Bbls./Acre 9,774.

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LOG

Name Glenn Caldwell Lease Krietler Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
539.0 - 544.9	Brown sandstone.
544.9 - 546.0	Brown shaly sandstone.
546.0 - 548.0	Brown sandstone.
548.0 - 554.2	Brown shaly sandstone.
554.2 - 559.7	Brown sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Glenn Caldwell Lease Krietler Well No. 1

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	539.5	21.0	46	40	86	749	26.	1.0	1.0	749	26.00
2	540.6	20.9	31	49	80	503	15.	1.0	2.0	503	15.00
3	541.5	18.5	41	44	85	588	11.	1.0	3.0	588	11.00
4	542.5	20.1	36	41	77	561	31.	1.0	4.0	561	31.00
5	543.5	19.6	49	40	89	745	26.	1.0	5.0	745	26.00
6	544.5	20.5	36	36	72	573	50.	0.9	5.9	516	45.00
7	545.5	18.1	18	56	74	253	2.2	1.1	7.0	278	2.42
8	546.5	18.0	14	62	76	196	15.	1.0	8.0	196	15.00
9	547.6	17.6	29	55	84	396	14.	1.0	9.0	396	14.00
10	548.5	18.8	15	56	71	219	1.6	1.0	10.0	219	1.60
11	549.5	17.1	9	73	82	119	4.5	1.0	11.0	119	4.50
12	550.5	15.8	10	66	76	123	0.78	1.0	12.0	123	0.78
13	551.5	19.9	30	45	75	463	6.8	1.0	13.0	463	6.80
14	552.5	18.6	35	39	74	505	3.1	1.0	14.0	505	3.10
15	553.7	18.6	31	47	78	447	5.2	1.2	15.2	536	6.24
16	554.5	20.6	30	46	76	479	12.	1.0	16.2	479	12.00
17	555.6	23.4	43	30	73	781	68.	1.0	17.2	781	68.00
18	556.5	21.9	46	31	77	782	62.	1.0	18.2	782	62.00
19	557.5	21.9	33	39	72	561	58.	1.0	19.2	561	58.00
20	558.7	21.8	23	41	64	389	52.	0.8	20.0	311	41.60
21	559.5	20.9	32	43	75	519	44.	0.7	20.7	363	30.80

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SUMMARY OF PERMEABILITY & SATURATION TESTS

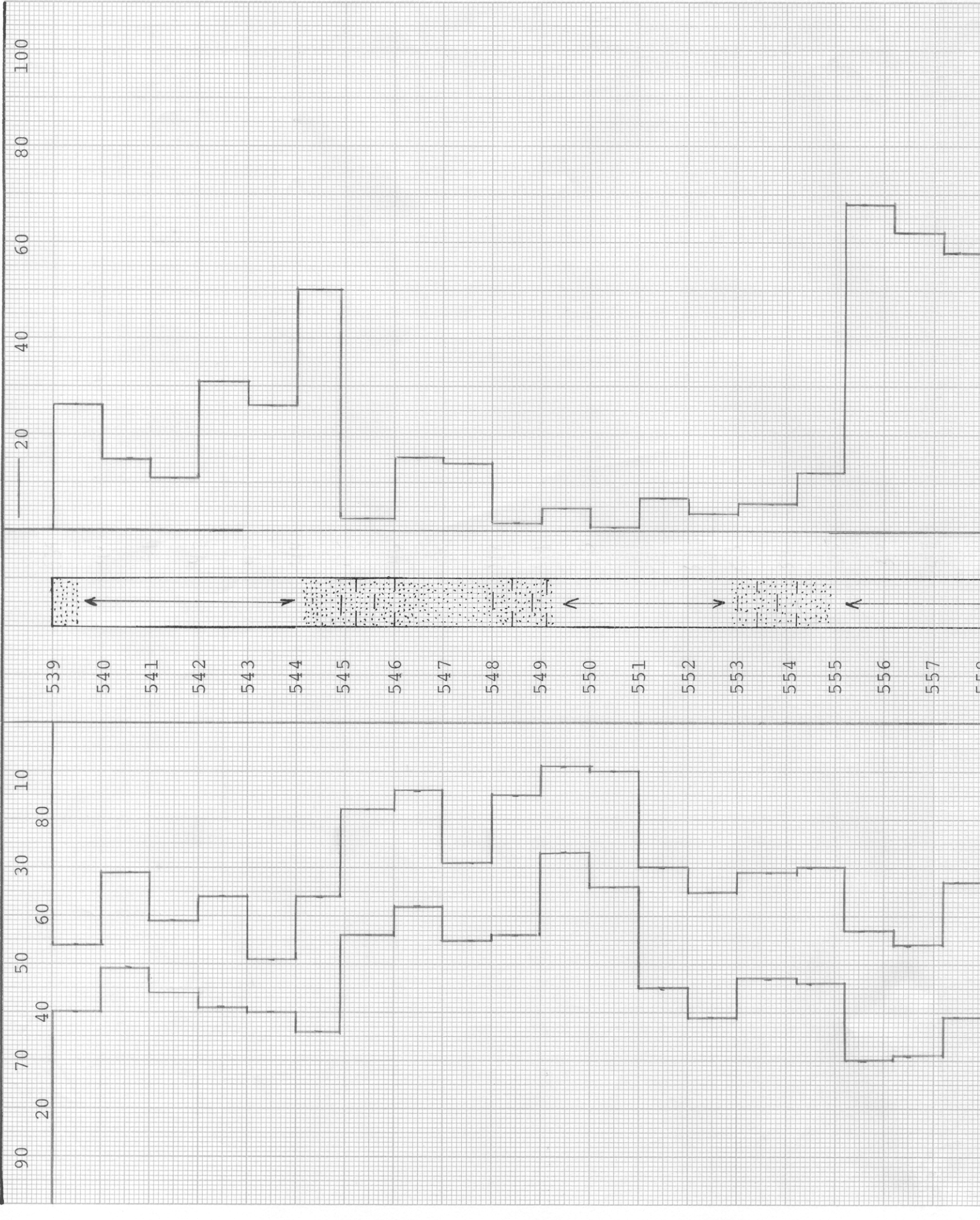
TABLE III

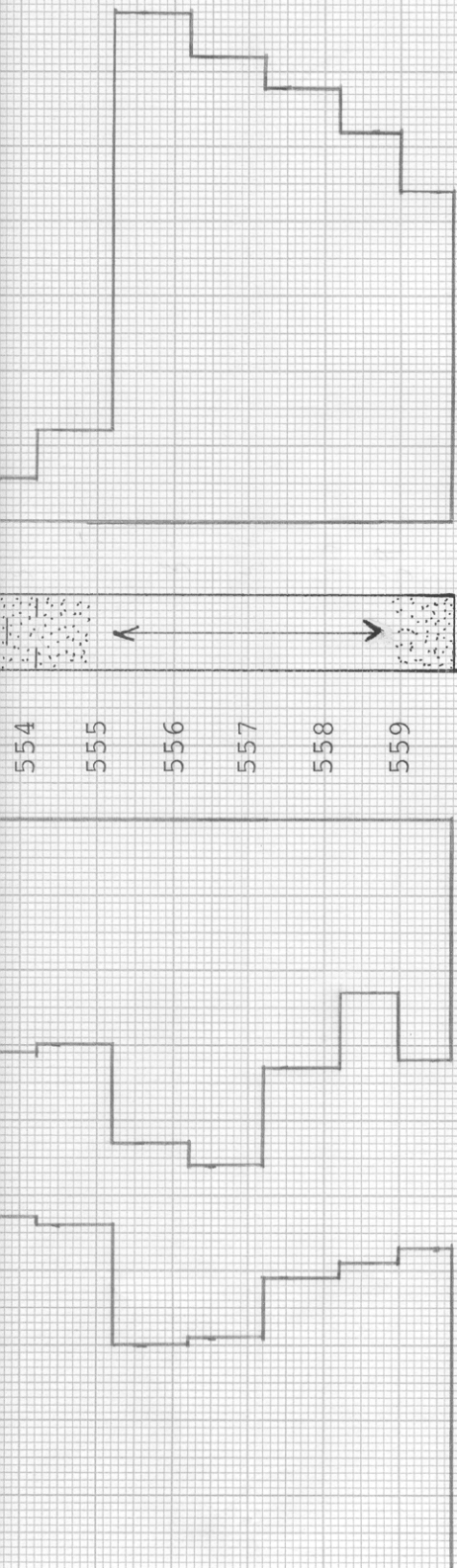
Company	Glenn Caldwell	Lease	Krietler	Well No.					
				1					
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Porosity Percent	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre
539.0 - 544.9	539.0 - 544.9	5.9	26.1	154.00	20.1	39.9	41.8	621	3,662
544.9 - 551.0	544.9 - 551.0	6.1	6.3	38.30	17.6	15.9	61.2	218	1,331
551.0 - 559.7	551.0 - 559.7	8.7	33.2	288.54	20.8	33.9	40.1	550	4,781
539.0 - 559.7	539.0 - 559.7	20.7	23.2	480.84	19.6	30.3	46.8	472	9,774

WATER SAT., PERCENT

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCYS





KEY:



SANDSTONE



SHALY SANDSTONE

GLENN CALDWELL

KRIETTLER LEASE

ANDERSON COUNTY, KANSAS

WELL NO. 1

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
539.0 - 544.9	5.9	20.1	39.9	41.8	26.1
544.9 - 551.0	6.1	17.6	15.9	61.2	6.3
551.0 - 559.7	8.7	20.8	33.9	40.1	33.2
539.0 - 559.7	20.7	19.6	30.3	46.8	23.2

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 CHANUTE, KANSAS
 JUNE, 1981