

OILFIELD RESEARCH LABORATORIES

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

February 14, 1980

KLI Petroleum Corporation
808 Southeast Sixth
Evansville, Indiana 74048

Gentlemen:

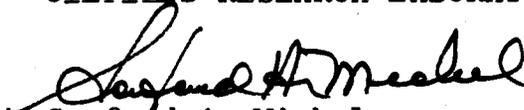
Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. K-43, Allen County, Kansas, and submitted to our laboratory on February 6, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem
5 c to Evansville, Indiana

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company KLI Petroleum Corporation Lease Nelson Well No. K-43

Location 1335' SNL & 1080' WEL SW $\frac{1}{4}$

Section 21 Twp. 26S Rgs. 21E County Allen State Kansas

Elevation, Feet

Name of Sand Bartlesville

Top of Core 654.5

Bottom of Core 689.0

Top of Sand 654.5

Bottom of Sand 676.6

Total Feet of Permeable Sand 19.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	6.6	6.6
10 - 20	1.4	8.0
20 - 40	6.0	14.0
40 - 80	3.8	17.8
120 & Above	1.8	19.6

Average Permeability Millidarcys 33.8

Average Percent Porosity 19.9

Average Percent Oil Saturation 33.7

Average Percent Water Saturation 39.8

Average Oil Content, Bbls./A. Ft. 511.

Total Oil Content, Bbls./Acre 10,007.

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LOG

Name KLI Petroleum Corporation Lease Nelson Well No. K-43

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
654.5 - 656.2	Brown shaly sandstone.
656.2 - 657.3	Gray sandy shale.
657.3 - 668.8	Brown slightly shaly sandstone.
668.8 - 669.2	Gray sandy shale.
669.2 - 676.6	Light brown sandstone with coal laminations.
676.6 - 689.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company KLI Petroleum Corporation Lease Nelson Well No. K-43

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	654.6	20.4	40	33	77	633	14.	0.7	0.7	443	9.80
2	655.5	17.7	39	45	84	536	54.	1.0	1.7	536	54.00
3	657.5	18.8	40	39	79	583	14.	0.7	2.4	408	9.80
4	658.5	17.2	34	46	80	454	4.3	1.0	3.4	454	4.30
5	659.5	19.6	39	38	77	593	22.	1.0	4.4	593	22.00
6	660.5	18.0	34	45	79	475	31.	1.0	5.4	475	31.00
7	661.5	18.9	33	44	77	484	59.	1.0	6.4	484	59.00
8	662.5	19.0	39	42	81	575	38.	1.0	7.4	575	38.00
9	663.5	22.1	37	39	76	634	6.5	1.0	8.4	634	6.50
10	664.5	16.8	37	50	87	482	8.7	1.0	9.4	482	8.70
11	665.5	17.8	35	41	76	483	21.	1.0	10.4	483	21.00
12	666.5	23.2	34	39	73	612	158.	1.0	11.4	612	158.00
13	667.5	21.3	44	41	85	727	29.	1.0	12.4	727	29.00
14	668.5	21.0	37	36	73	603	43.	0.8	13.2	482	34.40
15	669.5	22.7	42	34	76	740	121.	0.8	14.0	592	96.80
16	670.5	22.1	33	38	71	566	9.4	1.0	15.0	566	9.40
17	671.5	20.7	34	36	70	546	43.	1.0	16.0	546	43.00
18	672.5	23.6	14	27	41	256	21.	1.0	17.0	256	21.00
19	673.5	29.5	10	23	33	229	3.8	1.0	18.0	229	3.80
20	675.5	14.0	26	43	69	282	1.2	1.0	19.0	282	1.20
21	676.5	9.6	33	62	95	246	1.6	0.6	19.6	148	0.96

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company KLI Petroleum Corporation Lease Nelson Well No. K-43

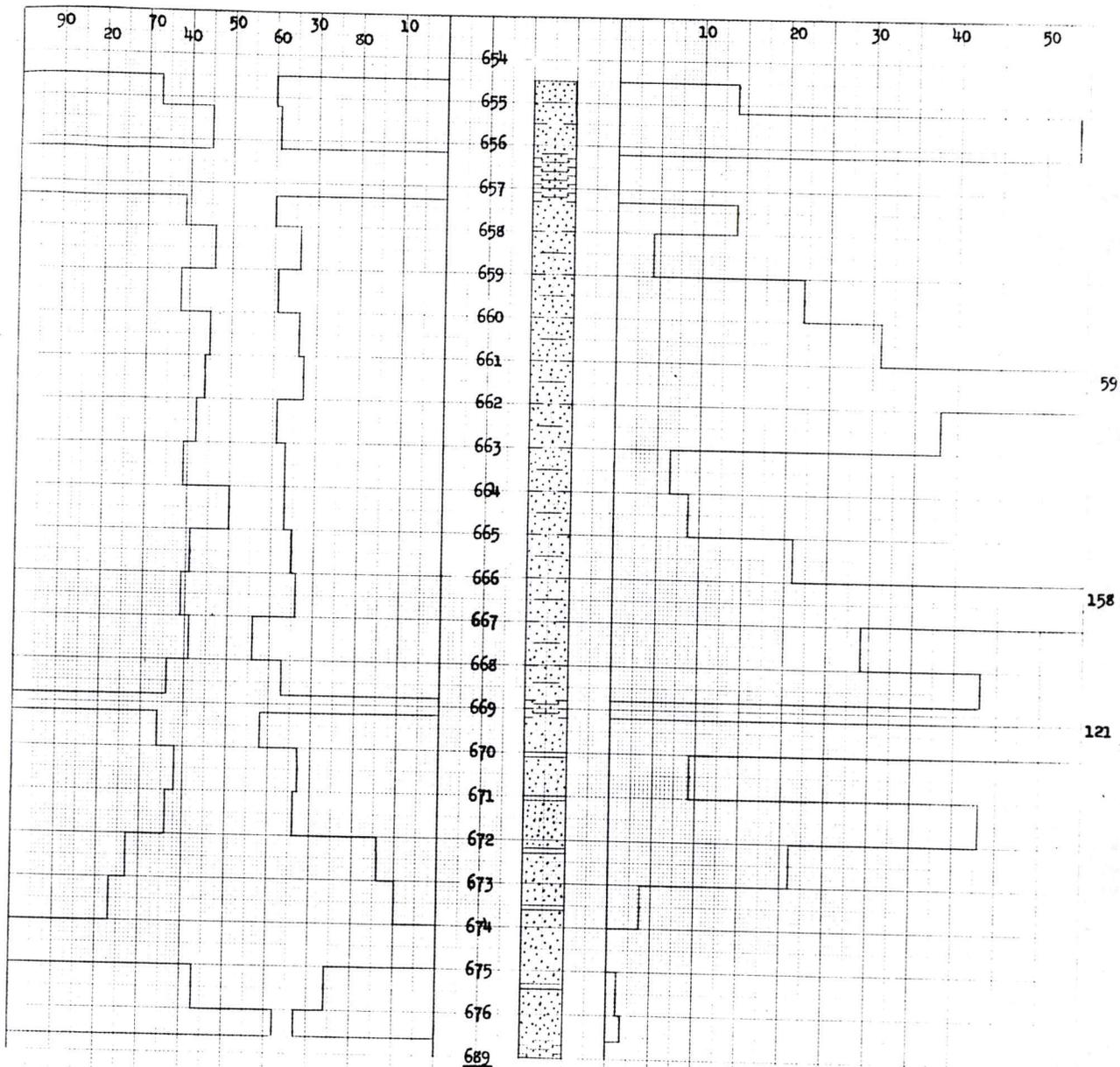
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
654.5 - 676.6	19.6	33.8	661.66

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
654.5 - 676.6	19.6	19.9	33.7	39.8	511	10,007

WATER SAT., PERCENT

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCY



KEY:

SANDSTONE WITH COAL LAMINATIONS

SHALY SANDSTONE

SANDY SHALE

KLI PETROLEUM CORPORATION

NELSON LEASE

ALLEN COUNTY, KANSAS

WELL NO. K - 43

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY
654.5 - 676.6	19.6	19.9	33.7	39.8	33.8

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 CHANUTE, KANSAS
 FEBRUARY, 1980. HR