

OILFIELD RESEARCH LABORATORIES

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

February 13, 1980

KLI Petroleum Corporation
808 Southeast Sixth
Evansville, Indiana 74048

Gentlemen:

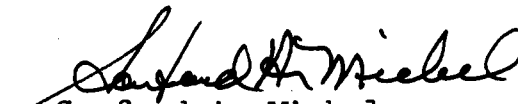
Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. K-41, Allen County, Kansas, and submitted to our laboratory on February 4, 1980.

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/kas
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-41

Location 550' SNL & 1175' WEL SW $\frac{1}{4}$

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

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	628.0
Bottom of Core	648.0
Top of Sand	628.4
Bottom of Sand	638.7
Total Feet of Permeable Sand	8.3

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 8	5.0	5.0
10 - 15	0.3	5.3
35 & Above	3.0	8.3

Average Permeability Millidarcys	18.6
Average Percent Porosity	17.9
Average Percent Oil Saturation	39.1
Average Percent Water Saturation	40.0
Average Oil Content, Bbls./A. Ft.	554.
Total Oil Content, Bbls./Acre	4,596.

LOGName KLI Petroleum Corporation Lease Nelson Well No. K-41

<u>Depth Interval, Feet</u>	<u>Description</u>
628.0 - 628.4	Gray shale.
628.4 - 628.7	Brown slightly shaly sandstone.
628.7 - 629.0	Gray sandy shale.
629.0 - 629.4	Brown sandstone.
629.4 - 629.8	Gray sandy shale.
629.8 - 631.4	Brown sandstone.
631.4 - 637.0	Brown shaly sandstone.
637.0 - 638.0	Brown sandstone.
638.0 - 638.7	Brown shaly sandstone.
638.7 - 639.5	Gray sandy shale with scattered coal laminations.
639.5 - 639.8	Coal.
639.8 - 642.0	Gray slightly calcareous sandy shale.
642.0 - 648.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company KLI Petroleum Corporation Lease Nelson Well No. K-41

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	628.5	13.2	47	47	94	481	12.	0.3	0.3	144	3.60
2	629.3	20.4	52	25	77	823	37.	0.4	0.7	329	14.80
3	630.4	21.4	53	25	78	880	43.	0.7	1.4	616	30.10
4	631.3	19.2	34	32	66	506	44.	0.9	2.3	455	39.60
5	632.5	17.5	41	39	80	557	4.2	1.3	3.6	724	5.46
6	634.5	11.7	26	65	91	236	5.0	1.0	4.6	236	5.00
7	635.5	20.1	40	37	77	624	6.6	1.0	5.6	624	6.60
8	636.5	17.3	41	42	83	550	6.5	1.0	6.6	550	6.50
9	637.5	20.2	41	37	78	643	42.	1.0	7.6	643	42.00
10	638.5	16.9	30	43	73	393	1.5	0.7	8.3	275	1.05

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company KLI Petroleum Corporation Lease Nelson Well No. K-41

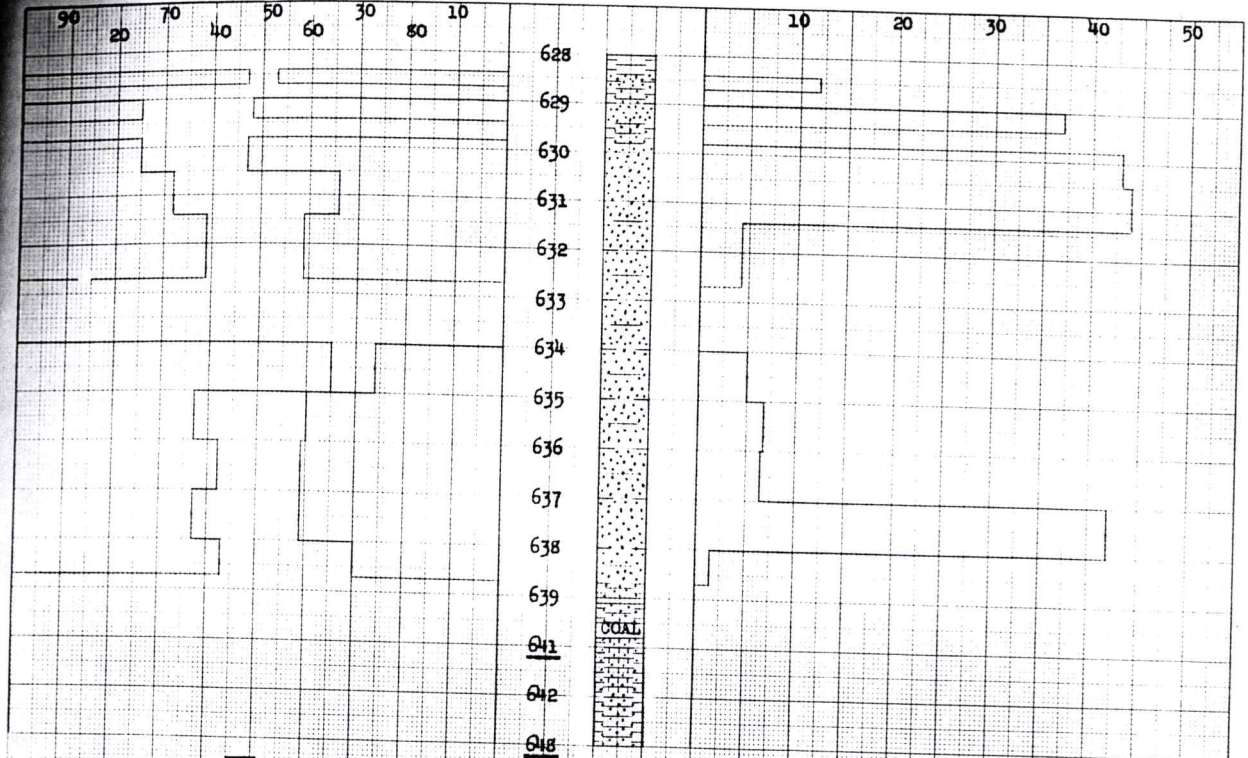
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
628.4 - 638.7	8.3	18.6	154.71

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
628.4 - 638.7	8.3	17.9	39.1	40.0	554	4,596

WATER SAT., PERCENT

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCY



KEY:

- SANDSTONE
- SANDY CALCAREOUS SHALE
- SANDY SHALE
- COAL
- SHALY SANDSTONE
- SHALE
- SANDY SHALE WITH COAL LAMINATIONS

KLI PETROLEUM CORPORATION

NELSON LEASE

WELL NO. K - 41

ALLEN COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY
628.4 - 638.7	8.3	17.9	39.1	40.0	18.5

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 CHANUTE, KANSAS
 FEBRUARY, 1980. HR