

OILFIELD RESEARCH LABORATORIES

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

August 29, 1980

KLI Petroleum Corporation
808 Southeast Sixth Street
Evansville, Indiana 47708

Gentlemen:

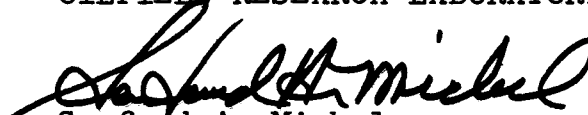
Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. K-46, Allen County, Kansas and submitted to our laboratory on July 17, 1980.

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/ks

3 c to Evansville, Indiana

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company KLI Petroleum Corporation Lease Nelson Well No. K-46
 Location -
 Section 21 Twp. 26S Rge. 21E County Allen State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	644.0
Bottom of Core	660.0
Top of Sand	644.0
Bottom of Sand	660.0
Total Feet of Permeable Sand	8.4

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 4	2.8	2.8
10 - 20	1.0	3.8
20 & Above	4.6	8.4

Average Permeability Millidarcys	16.1
Average Percent Porosity	15.1
Average Percent Oil Saturation	34.4
Average Percent Water Saturation	38.2
Average Oil Content, Bbls./A. Ft.	402.
Total Oil Content, Bbls./Acre	5,392.

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LOGName KLI Petroleum Corporation Lease Nelson Well No. K-46

<u>Depth Interval, Feet</u>	<u>Description</u>
644.0 - 646.0	Brown sandstone.
646.0 - 646.8	Grayish brown very shaly sandstone.
646.8 - 647.6	Brown sandstone.
647.6 - 650.3	Grayish brown very shaly sandstone.
650.3 - 650.4	Coal.
650.4 - 651.5	Grayish brown very shaly sandstone.
654.0 - 655.9	Grayish brown very shaly sandstone.
655.9 - 658.7	Brown sandstone.
658.7 - 660.0	Brown very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company KLI Petroleum Corporation

Lease Nelson

Well No. K-46

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	644.7	18.2	39	24	63	551	23.	1.0	1.0	551	23.00
2	645.4	13.4	30	61	91	312	30.	1.0	2.0	312	30.00
3	646.5	14.9	40	37	77	462	Imp.	0.8	2.8	370	0.00
4	647.5	17.7	32	29	61	439	23.	0.8	3.6	351	18.40
5	648.5	9.4	21	70	91	153	Imp.	1.0	4.6	153	0.00
6	649.5	9.8	49	46	95	373	Imp.	1.7	6.3	634	0.00
7	650.5	16.2	41	26	67	515	2.6	0.6	6.9	309	1.56
8	651.3	16.7	39	13	52	505	Imp.	0.5	7.4	253	0.00
9	654.4	9.5	5	90	95	37	Imp.	1.0	8.4	37	0.00
10	655.5	26.0	14	20	34	282	2.7	0.9	9.3	254	2.43
11	656.1	17.2	40	20	60	534	27.	1.1	10.4	587	29.70
12	657.5	18.3	50	13	63	710	13.	1.0	11.4	710	13.00
13	658.5	15.2	39	31	70	460	21.	0.7	12.1	322	14.70
14	659.7	15.1	36	30	66	422	1.6	1.3	13.4	549	2.08

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

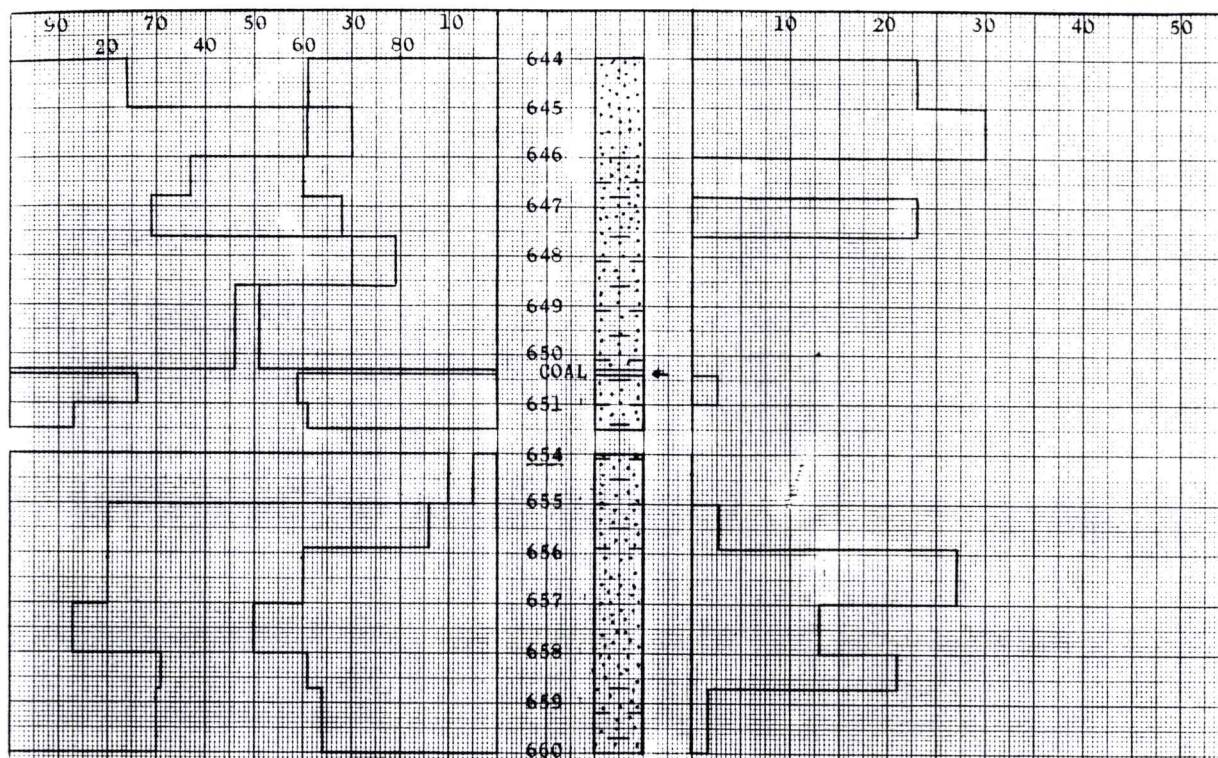
Company KLI Petroleum Corporation Lease Nelson Well No. K-46

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
644.0 - 651.5	3.4	21.5	72.96
654.0 - 660.0	5.0	12.4	61.91
644.0 - 660.0	8.4	16.1	134.87

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
644.0 - 651.5	7.4	13.8	37.2	41.6	396	2,933
654.0 - 660.0	6.0	16.7	31.0	34.0	410	2,459
644.0 - 660.0	13.4	15.1	34.4	38.2	402	5,392

WATER SAT.,
PERCENTOIL SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:

SANDSTONE

SHALY SANDSTONE

COAL

KLI PETROLEUM CORP.

NELSON LEASE

WELL NO. K-46

ALLEN COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCYS
644.0 - 651.5	7.4	13.8	37.2	41.6	21.5
654.0 - 660.0	6.0	16.7	31.0	34.0	12.4
644.0 - 660.0	13.4	15.1	34.4	38.2	16.1

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CHANUTE, KANSAS
AUGUST, 1980

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