

OILFIELD RESEARCH LABORATORIES

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

February 12, 1980

KLI Petroleum Corporation
808 Southeast Sixth
Evansville, Indiana 74048

Gentlemen:

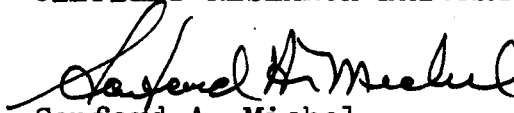
Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. K-40, Allen County, Kansas, and submitted to our laboratory on January 31, 1980.

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

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GENERAL INFORMATION & SUMMARY

Company KLI Petroleum Corporation Lease Nelson Well No. K-40

Location 955' SNL & 960' WEL SW $\frac{1}{4}$

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

Elevation, Feet

Name of Sand Bartlesville

Top of Core 651.0

Bottom of Core 671.0

Top of Sand 651.0

Bottom of Sand 663.0

Total Feet of Permeable Sand 8.4

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10 2.6 2.6

10 - 20 1.6 4.2

20 - 40 2.2 6.4

45 & Above 2.0 8.4

Average Permeability Millidarcys 27.3

Average Percent Porosity 16.0

Average Percent Oil Saturation 33.2

Average Percent Water Saturation 50.5

Average Oil Content, Bbls./A. Ft. 446.

Total Oil Content, Bbls./Acre 4,504.

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LOGName KLI Petroleum Corp. Lease Nelson Well No. K-40

<u>Depth Interval, Feet</u>	<u>Description</u>
651.0 - 652.7	Grayish brown very shaly sandstone.
652.7 - 654.2	Gray sandy shale.
654.2 - 654.8	Brown sandstone.
654.8 - 655.2	Brown and gray laminated sandstone and shale.
655.2 - 655.7	Brown shaly sandstone.
655.7 - 657.0	Gray very shaly sandstone.
657.0 - 657.8	Light brown slightly shaly sandstone.
657.8 - 663.0	Dark brown sandstone.
663.0 - 663.4	Grayish brown sandy conglomerate.
663.4 - 665.8	Gray sandy shale.
665.8 - 666.2	Coal.
666.2 - 671.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company KLI Petroleum Corporation Lease Nelson Well No. K-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.	Cum. Ft.		
1	651.5	12.4	22	69	91	212	Imp.	1.0	1.0	212	0.00
2	652.5	11.5	18	70	88	161	Imp.	0.7	1.7	113	0.00
3	654.5	15.2	49	40	89	578	15.	0.6	2.3	347	9.00
4	655.5	18.0	39	39	78	545	1.1	0.5	2.8	273	0.55
5	656.5	11.9	10	86	96	92	0.31	1.3	4.1	120	0.40
6	657.5	11.9	13	60	73	120	5.8	0.8	4.9	96	4.64
7	658.5	19.1	46	34	80	682	27.	1.2	6.1	818	32.40
8	659.7	19.1	52	30	82	771	90.	1.0	7.1	771	90.00
9	660.7	17.3	43	41	84	577	10.	1.0	8.1	577	10.00
10	661.9	17.8	38	42	80	525	36.	1.0	9.1	525	36.00
11	662.6	21.0	40	35	75	652	46.	1.0	10.1	652	46.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company KLI Petroleum Corporation **Lease** Nelson **Well No.** K-40

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
651.0 - 657.8	3.2	4.6	14.59
657.8 - 663.0	5.2	41.2	214.40
651.0 - 663.0	8.4	27.3	228.99

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
651.0 - 657.8	4.9	13.0	21.8	65.6	237	1,161
657.8 - 663.0	5.2	18.9	43.9	36.3	643	3,343
651.0 - 663.0	10.1	16.0	33.2	50.5	446	4,504

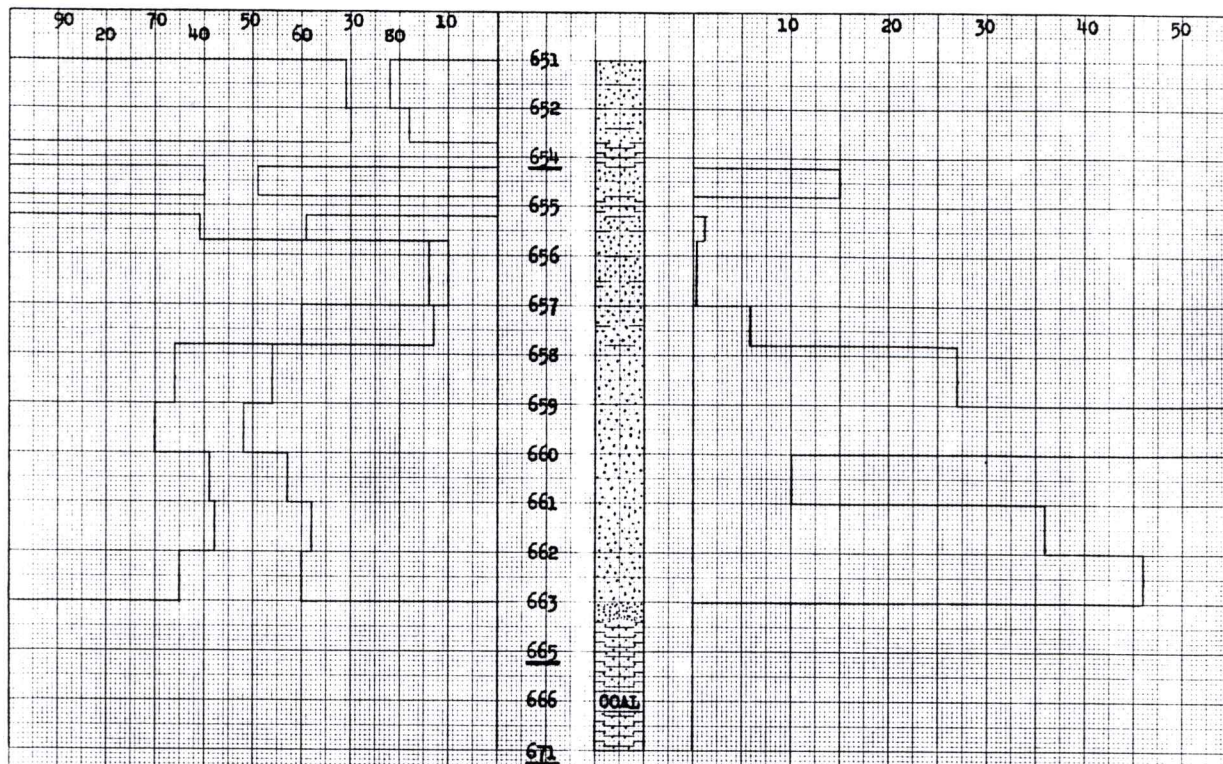
WATER SAT.,
PERCENT

K-E 10 X 10 TO THE CENTIMETER

OIL SAT.,
PERCENT

47 1512

PERMEABILITY, IN MILLIDARCTS



KEY:

SANDSTONE

SANDY CONGLOMERATIC

LAMINATED SANDSTONE AND SHALE

SHALY SANDSTONE

SANDY SHALE

COAL

KLI PETROLEUM CORPORATION

NELSON LEASE

ALLEN COUNTY, KANSAS

WELL NO. K - 40

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCTS
651.0 - 657.8	4.9	13.0	21.8	65.6	4.6
657.8 - 663.0	5.2	18.9	43.9	36.3	41.2
651.0 - 663.0	10.1	16.0	33.2	50.5	27.3

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CHANUTE, KANSAS
FEBRUARY, 1980. HR