

KLI PETROLEUM CORPORATION

CORE ANALYSIS REPORT

NELSON LEASE WELL NO. ^K 32

ALLEN COUNTY, KANSAS

OILFIELD RESEARCH LABORATORIES

536 N. HIGHLAND

CHANUTE, KANSAS



OILFIELD RESEARCH LABORATORIES

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

January 11, 1980

KLI Petroleum Corporation
808 Southeast 6th Street
Evansville, Indiana 74048

Gentlemen:

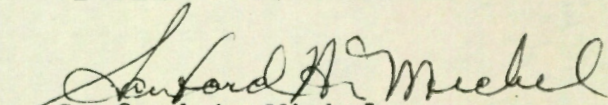
Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. 32, Allen County, Kansas, and submitted to our laboratory on December 14, 1979.

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. 32

Location 590' SNL & 165' WEL NE $\frac{1}{4}$

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

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 648.0

Bottom of Core - - - - - 776.0

Top of Sand - - - - - 648.0

Bottom of Sand - - - - - 671.6

Total Feet of Permeable Sand - - - - - 12.3

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5

9.9

9.9

5 - 10

2.4

12.3

Average Permeability Millidarcys - - - - - 2.5

Average Percent Porosity - - - - - 14.0

Average Percent Oil Saturation - - - - - 22.3

Average Percent Water Saturation - - - - - 62.0

Average Oil Content, Bbls./A. Ft. - - - - - 255.

Total Oil Content, Bbls./Acre - - - - - 5,897.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -

Total Calculated Oil Recovery, Bbls./Acre - - - - -

Packer Setting, Feet - - - - -

Viscosity, Centipoises @ - - - - -

A. P. I. Gravity, degrees @ 60 °F - - - - -

Elevation, Feet - - - - -

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LOGName KLI Petroleum Corporation Lease Nelson Well No. 32

<u>Depth Interval, Feet</u>	<u>Description</u>
648.0 - 654.8	Grayish brown very shaly sandstone.
654.8 - 655.6	Light brown slightly shaly sandstone.
655.6 - 656.1	Gray sandy shale.
656.1 - 656.6	Light brown slightly shaly sandstone.
656.6 - 666.0	Grayish brown shaly sandstone.
666.0 - 668.9	Brown shaly sandstone.
668.9 - 671.6	Brown and gray laminated sandstone and shale.
671.6 - 676.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company KLI Petroleum Corporation Lease Nelson Well No. 32

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	648.5	14.9	26	48	74	301	0.28	1.0	1.0	301	0.28
2	649.5	12.7	15	65	80	148	1.0	1.0	2.0	148	1.00
3	650.5	10.6	24	71	95	197	Imp.	1.0	3.0	197	0.00
4	651.5	12.4	17	73	90	164	Imp.	1.0	4.0	164	0.00
5	652.5	10.8	1	94	95	8	Imp.	1.0	5.0	8	0.00
6	653.5	15.1	25	52	77	293	1.3	1.0	6.0	293	1.30
7	654.5	13.9	31	62	93	334	Imp.	0.8	6.8	267	0.00
8	655.5	16.2	27	53	80	339	6.7	0.8	7.6	271	5.36
9	656.5	18.2	31	24	55	438	7.1	0.5	8.1	219	3.55
10	657.5	13.0	19	67	86	192	Imp.	1.4	9.5	269	0.00
11	658.5	14.7	15	70	85	171	Imp.	1.0	10.5	171	0.00
12	659.5	15.2	17	59	76	201	3.6	1.0	11.5	201	3.60
13	660.5	10.5	3	91	94	24	Imp.	1.0	12.5	24	0.00
14	661.5	12.9	16	76	92	160	0.84	1.0	13.5	160	0.84
15	662.5	14.5	18	67	85	203	Imp.	1.0	14.5	203	0.00
16	663.5	16.0	24	51	75	298	Imp.	1.0	15.5	298	0.00
17	664.5	13.8	15	71	86	161	Imp.	1.0	16.5	161	0.00
18	665.5	17.8	40	35	75	552	2.6	1.0	17.5	552	2.60
19	666.5	15.8	33	47	80	405	0.58	1.0	18.5	405	0.58
20	667.5	10.0	13	85	98	101	0.47	1.0	19.5	101	0.47
21	668.5	14.1	20	64	84	219	2.3	0.9	20.4	197	2.07
22	669.5	16.2	53	26	79	666	6.8	1.1	21.5	733	7.48
23	670.5	14.3	27	64	91	300	1.0	1.0	22.5	300	1.00
24	671.5	15.6	35	47	82	424	Imp.	0.6	23.1	254	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company KLI Petroleum Corporation Lease Nelson Well No. 32

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
648.0 - 665.0	6.3	2.5	15.93
665.0 - 671.6	6.0	2.4	14.20
648.0 - 671.6	12.3	2.5	30.13

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
648.0 - 665.0	16.5	13.7	18.5	65.8	203	3,355
665.0 - 671.6	6.6	14.8	31.9	52.3	385	2,542
648.0 - 671.6	23.1	14.0	22.3	62.0	255	5,897