

# OILFIELD RESEARCH LABORATORIES

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

January 21, 1980

KLI Petroleum Corporation  
808 Southeast 6th Street  
Evansville, Indiana 47708

Gentlemen:

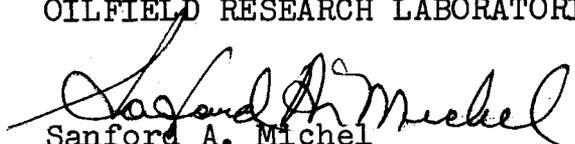
Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. K-36, Allen County, Kansas, and submitted to our laboratory on December 21, 1979.

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.  K-36

Location  2210' SNL & 165' WEL NE $\frac{1}{4}$

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

Elevation, Feet . . . . .	
Name of Sand . . . . .	Bartlesville
Top of Core . . . . .	632.0
Bottom of Core . . . . .	653.0
Top of Sand . . . . .	646.1
Bottom of Sand . . . . .	653.0
Total Feet of Permeable Sand . . . . .	6.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.7	2.7
5 - 7	2.1	4.8
12 & Above	2.1	6.9

Average Permeability Millidarcys . . . . .	7.9
Average Percent Porosity . . . . .	16.4
Average Percent Oil Saturation . . . . .	28.8
Average Percent Water Saturation . . . . .	46.3
Average Oil Content, Bbls./A. Ft. . . . .	362.
Total Oil Content, Bbls./Acre . . . . .	2,496.

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LOG

Name KLI Petroleum Corporation Lease Nelson Well No. K-36

Depth Interval,  
Feet

Description

632.0 - 646.1	Gray sandy shale.
646.1 - 647.0	Brown shaly sandstone.
647.0 - 649.1	Brown sandstone.
649.1 - 651.2	Brown slightly shaly sandstone.
651.2 - 653.0	Brown and gray laminated sandstone and shale.

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## RESULTS OF SATURATION & PERMEABILITY TESTS

### TABLE 1-B

Company KLI Petroleum Corporation Lease Nelson Well No. K-36

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	646.5	14.5	54	30	84	608	0.40	0.9	0.9	547	0.36
2	647.3	18.3	23	33	56	327	12.	1.0	1.9	327	12.00
3	648.3	17.8	23	45	68	318	26.	1.0	3.0	350	28.60
4	649.5	15.1	27	65	92	316	6.5	1.0	4.0	316	6.50
5	650.5	17.5	28	42	70	380	5.6	1.1	5.1	418	6.16
6	651.5	16.2	40	45	85	503	0.95	0.8	5.9	402	0.76
7	652.6	14.6	12	63	75	136	0.18	1.0	6.9	136	0.18

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

**TABLE III**

Company KLI Petroleum Corporation Lease Nelson Well No. K-36

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
646.1 - 653.0	6.9	7.9	54.56

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
646.1 - 653.0	6.9	16.4	28.8	46.3	362	2,496