



OILFIELD RESEARCH LABORATORIES

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

August 13, 1980

KLI Petroleum Corporation
808 Southeast Sixth Street
Evansville, Indiana 47708

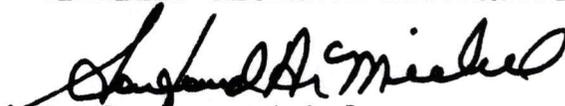
Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. K-49, Allen County, Kansas and submitted to our laboratory on July 10, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

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-49
 Location 1250' EWL & 175' SNL SW $\frac{1}{4}$
 Section 21 Twp. 26S Rge. 21E County Allen State Kansas

Thickness, Feet --
 Depth of Sand Bartlesville
 Depth of Core 644.0
 Bottom of Core 669.0
 Top of Sand 644.0
 Bottom of Sand 669.0
 Total Feet of Permeable Sand 21.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	10.7	10.7
10 - 20	5.7	16.4
20 - 40	2.8	19.2
40 - 50	1.0	20.2
80 & above	1.4	21.6

Average Permeability Millidarcys 16.7
 Average Percent Porosity 17.4
 Average Percent Oil Saturation 33.3
 Average Percent Water Saturation 20.1
 Average Oil Content, Bbls./A. Ft. 452.
 Total Oil Content, Bbls./Acre 9,759.

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LOGName KLI Petroleum Corporation Lease Nelson Well No. K-49

<u>Depth Interval, Feet</u>	<u>Description</u>
644.0 - 646.2	Brown very shaly sandstone.
646.2 - 651.9	Brown sandstone.
651.9 - 652.8	Brown shaly sandstone.
652.8 - 654.7	Brown slightly calcareous sandstone.
654.7 - 657.4	Brown shaly slightly calcareous sandstone.
657.4 - 658.0	Brown sandstone.
660.0 - 661.7	Brown slightly calcareous sandstone.
661.7 - 662.9	Brown shaly slightly calcareous sandstone.
662.9 - 663.4	Gray shaly slightly calcareous sandstone.
663.4 - 665.6	Brown slightly calcareous sandstone.
665.6 - 669.0	Brown shaly slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company KLI Petroleum Corporation Lease Nelson Well No. K-49

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	644.5	13.9	38	41	79	410	1.3	1.0	1.0	410	1.30
2	645.6	13.5	27	33	60	283	0.69	1.2	2.2	340	0.83
3	646.5	18.8	30	24	54	438	90.	0.8	3.0	350	72.00
4	647.5	17.6	28	29	57	382	14.	1.0	4.0	382	14.00
5	648.5	19.9	25	29	54	386	16.	1.0	5.0	386	16.00
6	649.5	17.6	27	28	55	369	19.	1.0	6.0	369	19.00
7	650.3	18.4	31	35	66	443	15.	1.0	7.0	443	15.00
8	651.4	19.3	25	26	51	374	21.	0.9	7.9	337	18.90
9	652.4	18.6	43	24	67	621	1.6	0.9	8.8	559	1.44
10	653.4	19.2	34	15	49	506	44.	1.0	9.8	506	44.00
11	654.6	19.4	38	12	50	572	33.	0.9	10.7	515	29.70
12	655.5	19.3	38	17	55	569	5.0	1.3	12.0	740	6.50
13	656.3	18.5	29	17	46	416	6.0	1.4	13.4	582	8.40
14	657.6	21.6	33	23	56	553	84.	0.6	14.0	332	50.40
15	660.5	17.9	29	14	43	403	23.	1.0	15.0	403	23.00
16	661.6	17.8	34	12	46	470	11.	0.7	15.7	329	7.70
17	662.6	16.4	50	14	64	636	2.5	1.2	16.9	763	3.00
18	663.2	10.9	11	14	25	93	4.1	0.5	17.4	47	2.05
19	664.3	12.3	37	10	47	353	8.2	1.2	18.6	424	9.84
20	665.4	16.7	29	12	41	376	10.	1.0	19.6	376	10.00
21	667.3	16.9	32	7	39	420	5.2	1.0	20.6	420	5.20
22	668.6	18.5	52	5	57	746	2.1	1.0	21.6	746	2.10

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company KLI Petroleum Corporation Lease Nelson Well No. K-49

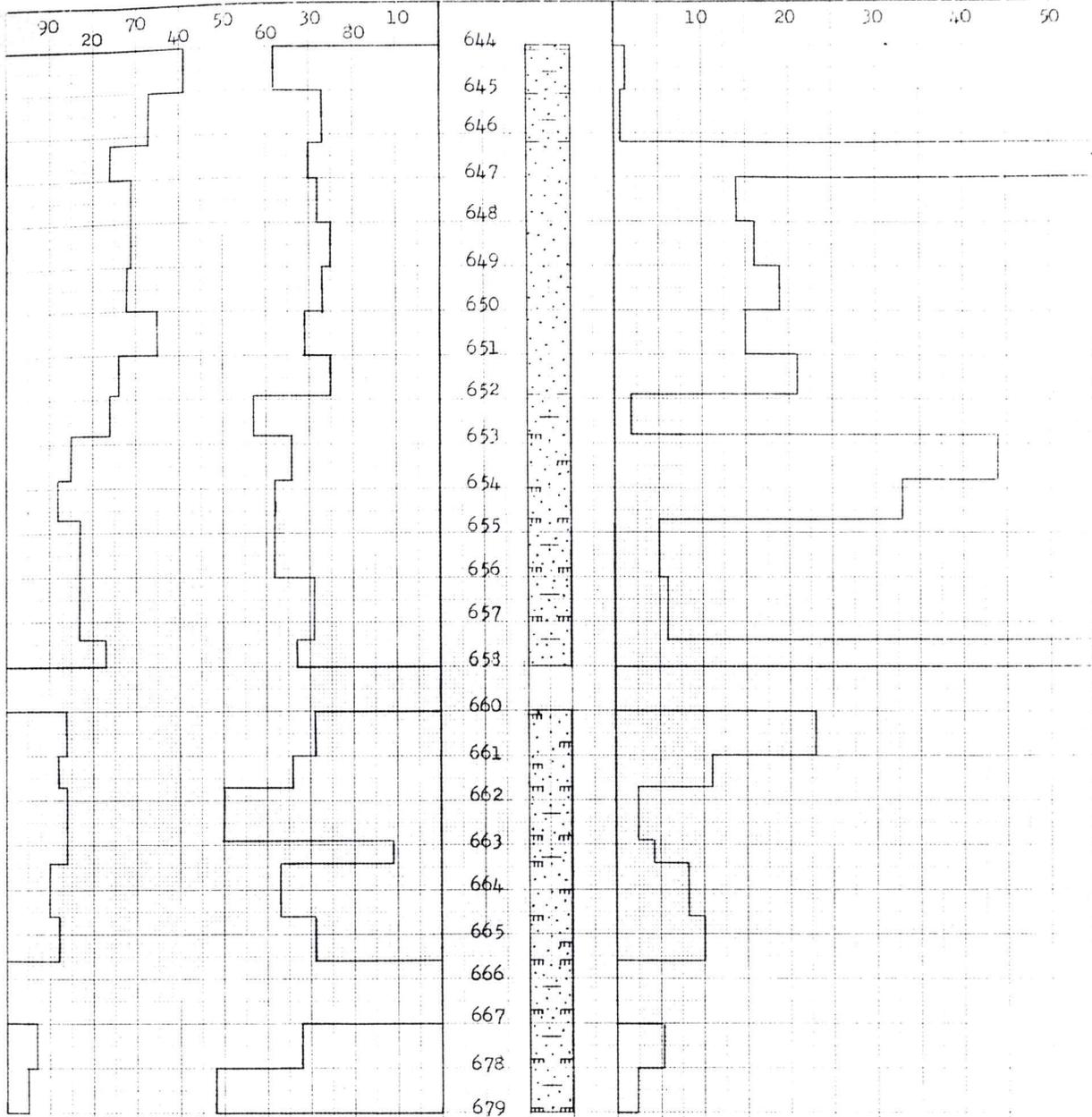
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
644.0 - 658.0	14.0	21.2	297.47
660.0 - 669.0	7.6	8.3	62.89
644.0 - 669.0	21.6	16.7	360.36

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 - 658.0	14.0	18.1	31.8	25.1	447	6,251
660.0 - 669.0	7.6	16.1	36.3	10.8	462	3,508
644.0 - 669.0	21.6	17.4	33.3	20.1	452	9,759

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCY



KEY:

 SHALY SANDSTONE
 CALCAREOUS SANDSTONE

 SANDSTONE
 SHALY CALCAREOUS SANDSTONE

KLI PETROLEUM CORP.

NELSON LEASE

ALLEN COUNTY, KANSAS

WELL NO. K-49

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY
644.0 - 658.0	14.0	18.1	31.8	25.1	21.2
660.0 - 669.0	7.6	16.1	36.3	10.8	8.3
644.0 - 669.0	21.6	17.4	33.3	20.1	16.7

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CHAMUTE, KANSAS
AUGUST, 1980

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