

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:

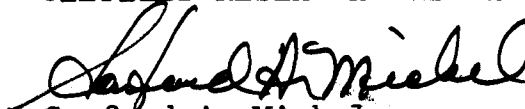
Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. K-42, Allen County, Kansas, and submitted to our laboratory on February 4, 1980.

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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company KLI Petroleum Corporation Lease Nelson Well No. K-42

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 655.0

Bottom of Core 675.8

Top of Sand 655.0

Bottom of Sand 675.3

Total Feet of Permeable Sand 18.0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10	7.4	7.4
10 - 20	2.0	9.4
20 - 40	3.1	12.5
40 - 80	2.2	14.7
80 & Above	3.3	18.0

Average Permeability Millidarcys 37.7

Average Percent Porosity 18.4

Average Percent Oil Saturation 41.0

Average Percent Water Saturation 38.2

Average Oil Content, Bbls./A. Ft. 593.

Total Oil Content, Bbls./Acre 10,676.

LOGName KLI Petroleum Corporation Lease Nelson Well NO. K-42

<u>Depth Interval, Feet</u>	<u>Description</u>
655.0 - 656.1	Brown sandstone.
656.1 - 657.4	Brown shaly sandstone.
657.4 - 658.3	Brown sandstone.
658.3 - 661.1	Brown slightly shaly sandstone.
661.1 - 661.4	Gray sandy shale.
661.4 - 662.7	Brown slightly shaly sandstone.
662.7 - 664.1	Dark brown sandstone.
664.1 - 664.4	Gray sandy shale.
664.4 - 666.9	Dark brown sandstone.
666.9 - 667.7	Brown sandstone with fine shale partings.
667.7 - 669.0	Brown sandstone.
669.0 - 670.0	Gray sandy shale.
670.0 - 670.3	Brown slightly shaly sandstone.
670.3 - 670.8	Gray sandy shale.
670.8 - 671.5	Brown sandstone.
671.5 - 671.7	Gray sandy shale.
671.7 - 674.4	Brown sandstone.
674.4 - 675.3	Brown shaly sandstone.
675.3 - 675.8	Gray sandy shale with coal laminations

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company KLI Petroleum Corporation

Lease Nelson

Well No. K-42

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	655.4	20.2	40	42	82	627	18.	1.1	1.1	690	19.80
2	656.6	16.4	32	48	80	407	4.0	1.3	2.4	529	5.20
3	657.6	16.9	47	38	85	616	14.	0.9	3.3	554	12.60
4	658.5	15.9	44	46	90	543	8.9	1.0	4.3	543	8.90
5	659.5	18.1	49	33	82	668	7.5	1.0	5.3	668	7.50
6	660.7	17.0	44	38	82	580	4.5	0.8	6.1	464	3.60
7	661.6	19.6	44	40	84	669	6.0	0.6	6.7	401	3.60
8	662.6	17.8	50	39	89	691	9.1	0.7	7.4	484	6.37
9	663.5	10.1	36	60	96	282	37.	1.4	8.8	395	51.80
10	664.6	18.6	57	20	77	823	58.	0.5	9.3	411	29.00
11	665.6	22.9	55	23	78	977	77.	1.0	10.3	977	77.00
12	666.5	19.6	44	33	77	669	20.	1.0	11.3	669	20.00
13	667.3	16.0	13	48	61	161	6.6	0.8	12.1	129	5.28
14	668.2	22.2	50	25	75	861	60.	0.7	12.8	603	42.00
15	668.9	22.5	41	32	73	716	84.	0.6	13.4	430	50.40
16	670.1	19.6	35	33	68	532	8.3	0.3	13.7	160	2.49
17	671.2	20.5	40	32	72	636	28.	0.7	14.4	445	19.60
18	672.2	23.4	40	30	70	726	121.	0.7	15.1	508	84.70
19	673.0	19.6	33	40	73	502	147.	1.0	16.1	502	147.00
20	674.3	20.6	35	36	71	559	80.	1.0	17.1	559	80.00
21	675.2	18.5	43	33	76	617	1.6	0.9	18.0	555	1.44

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company KLI Petroleum Corporation Lease Nelson Well No. K-42

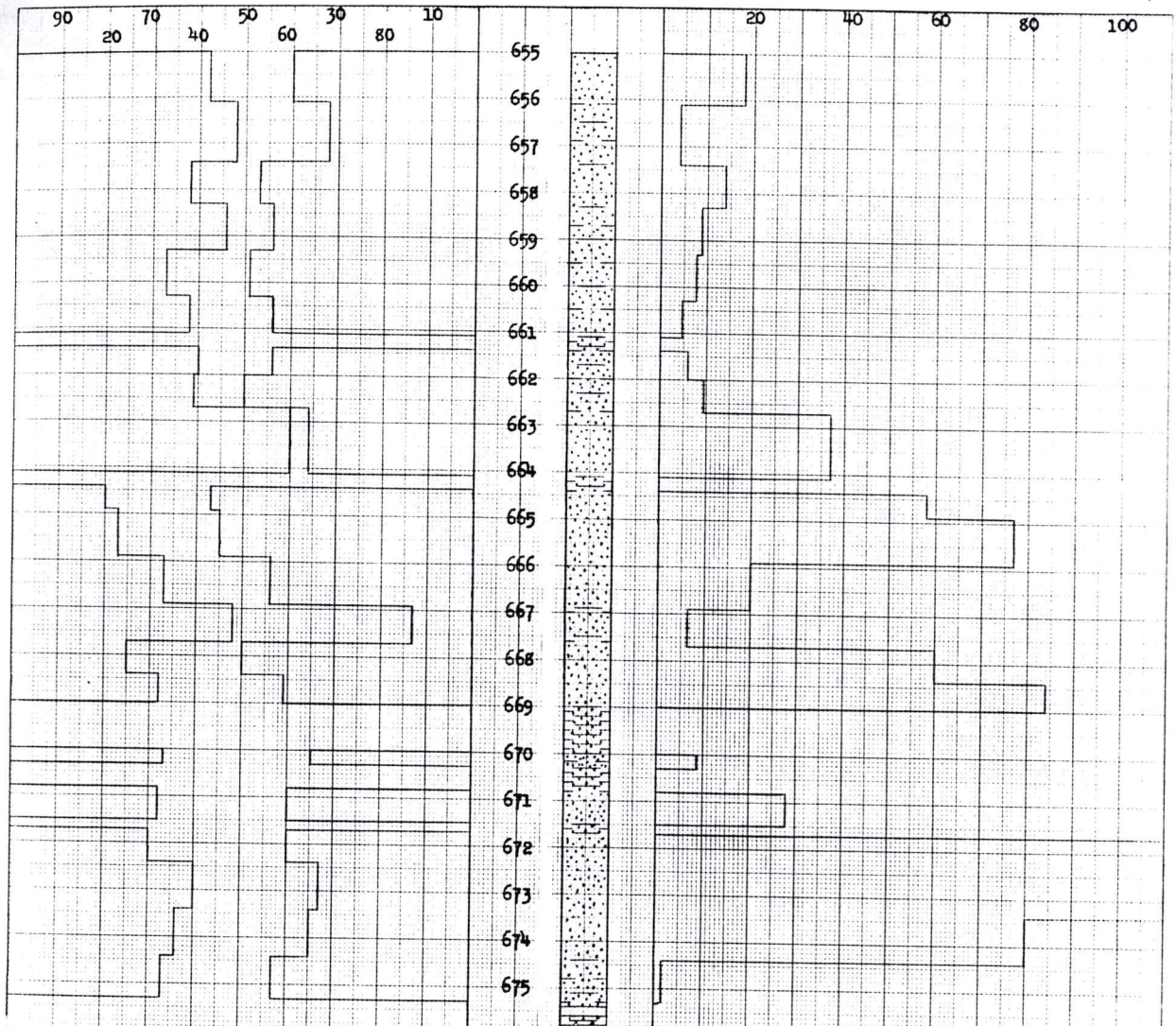
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
655.0 - 675.3	18.0	37.7	678.28

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
655.0 - 675.3	18.0	18.4	41.0	38.2	593	10,676

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCS



KEY:

SANDSTONE

SHALY SANDSTONE

SANDY SHALE WITH COAL LAMINATIONS

SANDSTONE WITH FINE SHALE PARTINGS

SANDY SHALE

KLI PETROLEUM CORPORATION

NELSON LEASE

WELL NO. K - 42

ALLEN COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
655.0 - 675.3	18.0	13.4	41.0	38.2	37.7

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CHANUTE, KANSAS
FEBRUARY, 1980. HR

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