

# OILFIELD RESEARCH LABORATORIES

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

March 18, 1980

North Slope Properties, Ltd.  
c/o Don Thompson  
212 North Holiday Lane  
Iola, Kansas 66749

Gentlemen:

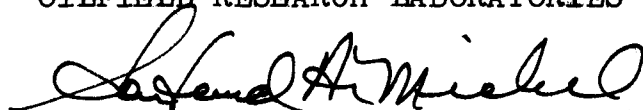
Enclosed herewith are the results of tests run on the rotary core taken from the McIntyre Lease, Well No. 42, Allen County, Kansas and submitted to our laboratory on March 7, 1980.

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/kas  
5 c to Iola, Kansas

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company North Slope Properties, Ltd. Lease McIntyre Well No. 42

Location 165' NL & 1120' WL SW $\frac{1}{4}$

Section 31 Twp. 23S Rge. 19E County Allen State Kansas

Elevation, Feet . . . . .

Name of Sand . . . . . Bartlesville

Top of Core . . . . . 906.0

Bottom of Core . . . . . 926.0

Top of Sand . . . . . (Tested) . . . . . 906.4

Bottom of Sand . . . . . 925.3

Total Feet of Permeable Sand . . . . . 18.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 20	3.1	3.1
20 - 40	6.8	9.9
40 - 60	4.7	14.6
60 & Above	4.3	18.9

Average Permeability Millidarcys . . . . . 42.0

Average Percent Porosity . . . . . 18.2

Average Percent Oil Saturation . . . . . 39.2

Average Percent Water Saturation . . . . . 16.5

Average Oil Content, Bbls./A. Ft. . . . . 561.

Total Oil Content, Bbls./Acre . . . . . 10,603.

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LOGName North Slope Properties, Ltd. Lease McIntyre Well No. 42

<u>Depth Interval, Feet</u>	<u>Description</u>
906.0 - 906.4	Grayish brown shaly sandstone.
906.4 - 907.2	Brown sandstone.
907.2 - 907.9	Grayish brown shaly sandstone.
907.9 - 914.8	Brown sandstone.
914.8 - 916.2	Brown shaly sandstone.
916.2 - 925.3	Dark brown sandstone.
925.3 - 926.0	Coal.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company North Slope Properties, Ltd. Lease McIntyre Well No. 12

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			T Total	Ft.		
1	906.5	19.8	41	14	630	54.	0.8	0.8	504	43.20
2	907.5	16.8	40	18	521	9.4	0.7	1.5	365	6.58
3	908.5	21.2	46	13	757	62.	1.0	2.5	757	62.00
4	909.5	8.5	25	35	165	50.	1.0	3.5	165	50.00
5	910.5	19.4	38	19	572	26.	1.0	4.5	572	26.00
6	911.5	14.5	42	32	473	19.	1.0	5.5	473	19.00
7	912.5	19.8	39	14	599	30.	1.0	6.5	599	30.00
8	913.5	18.8	42	17	613	52.	1.0	7.5	613	52.00
9	914.5	20.4	44	11	696	50.	0.9	8.4	626	45.00
10	915.5	15.1	38	12	445	8.2	1.4	9.8	623	11.48
11	916.5	17.7	39	10	536	38.	0.8	10.6	429	30.40
12	917.5	21.5	39	8	651	52.	1.0	11.6	651	52.00
13	918.5	15.0	36	19	419	32.	1.0	12.6	419	32.00
14	919.5	16.9	34	18	446	21.	1.0	13.6	446	21.00
15	920.5	19.8	37	9	568	35.	1.0	14.6	568	35.00
16	921.5	20.9	44	13	713	62.	1.0	15.6	713	62.00
17	922.5	20.4	41	18	649	24.	1.0	16.6	649	24.00
18	923.5	20.8	38	16	613	115.	1.0	17.6	613	115.00
19	924.5	19.3	42	17	629	60.	1.3	18.9	818	78.00

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company North Slope Properties, Ltd. Lease McIntyre Well No. 42

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
906.4 - 925.3	18.9	42.0	794.66

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 Bbl./Acre
906.4 - 925.3	18.9	18.2	39.2	16.5	561	10,603