

OILFIELD RESEARCH LABORATORIES

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April 1, 1980

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

Gentlemen:

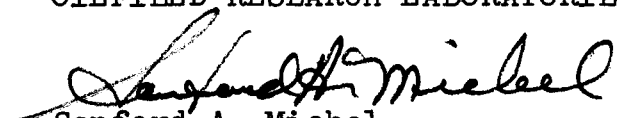
Enclosed herewith are the results of tests run on the rotary core taken from the McIntyre Lease, Well No. 22, Allen County, Kansas, and submitted to our laboratory on March 18, 1980.

The core was sampled by a representative of Oilfield Research Laboratories after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem

3 c to Iola, Kansas
2 c to St. Louis, Missouri

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company North Slope Properties, Ltd. Lease McIntyre Well No. 22
 Location —
 Section 31 Twp. 23S Rge. 19E County Allen State Kansas

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	897.0
Bottom of Core	917.0
Top of Sand (Tested)	904.2
Bottom of Sand	917.0
Total Feet of Permeable Sand	5.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 25	3.0	3.0
30 & Above	2.9	5.9

Average Permeability Millidarcys	22.7
Average Percent Porosity	19.1
Average Percent Oil Saturation	37.2
Average Percent Water Saturation	12.2
Average Oil Content, Bbls./A. Fl.	551.
Total Oil Content, Bbls./Acre	3,252.

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LOGName North Slope Properties, Ltd. Lease McIntyre Well No. 22

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
897.0 - 904.2	Gray laminated sandstone and shale.
904.2 - 905.2	Brown shaly sandstone.
905.2 - 906.1	Brown sandstone.
906.1 - 906.7	Gray sandy shale.
906.7 - 907.7	Brown sandstone.
907.7 - 910.1	Grayish brown sandy shale.
910.1 - 910.7	Brown slightly shaly sandstone.
910.7 - 914.6	Gray sandy shale.
914.6 - 917.0	Brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company North Slope Properties, Ltd.

Lease McIntyre

Well No. 22

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	904.5	18.9	34	8	42	499	1.4	1.0	499	1.40	
2	905.5	19.3	37	3	40	554	14.	0.9	499	12.60	
3	906.8	19.4	42	12	54	632	46.	0.5	316	23.00	
4	907.5	19.6	36	18	54	547	20.	0.5	274	10.00	
5	910.4	18.9	36	10	46	528	16.	0.6	317	9.60	
6	915.2	18.9	41	15	56	601	34.	1.4	841	47.60	
7	916.5	19.2	34	19	53	506	30.	1.0	506	30.00	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company North Slope Properties, Ltd. Lease McIntyre Well No. 22

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
904.2 - 917.0	5.9	22.7	134.20

Depth Interval, Feet	Feet of Core Analyzed	Average Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbl./Acre
904.2 - 917.0	5.9	19.1	37.2	12.2	551	3,252