



OILFIELD RESEARCH LABORATORIES

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

May 23, 1979

North Slope Properties, Ltd.
c/o Don Thompson
212 N. 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. 21, Allen County, Kansas, and submitted to our laboratory on May 17, 1979.

This core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:cgb

5 c to Iola, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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GENERAL INFORMATION & SUMMARY

Company North Slope Properties, Ltd. Lease McIntyre Well No. 21

Location _____

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

Name of Sand	Bartlesville
Top of Core	892.0
Bottom of Core	913.0
Top of Sand	897.5
Bottom of Sand	900.7
Total Feet of Permeable Sand	2.1
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 15	2.1	2.1

Average Permeability Millidarcys	10.0
Average Percent Porosity	16.6
Average Percent Oil Saturation	39.4
Average Percent Water Saturation	35.6
Average Oil Content, Bbls./A. Ft.	512.
Total Oil Content, Bbls./Acre	1,076.
Average Percent Oil Recovery by Laboratory Flooding Tests	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

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- LOG -

Company North Slope Properties, Ltd. Lease McIntyre Well No. 21

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
892.0 - 897.5	Gray sandy shale.
897.5 - 898.8	Grayish light brown laminated sandstone and shale.
898.8 - 899.9	Gray sandy shale.
899.9 - 900.7	Light brown laminated sandstone and shale.
900.7 - 913.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company North Slope Properties, Ltd. Lease McIntyre Well No. 21

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	898.7	17.4	44	28	72	594	13.	1.3	1.3	772	16.90
2	900.5	15.3	32	48	80	380	5.1	0.8	2.1	304	4.08

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.				
North Slope Properties, Ltd.	McIntyre	21				
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
897.5 - 900.7	2.1	10.0	20.98	39.4	35.6	1,076
897.5 - 900.7	2.1			16.6	51.2	