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

May 31, 1979

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. 30, Allen County, Kansas, and submitted to our laboratory on May 18, 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

BRP:cgb
5 c to Iola, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company North Slope Properties, Ltd. Lease McIntyre Well No. 30

Location 1010' FSL & 760' FWL

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

Name of Sand	Bartlesville
Top of Core	895.0
Bottom of Core	915.5
Top of Sand	895.0
Bottom of Sand	914.9
Total Feet of Permeable Sand	14.7
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 – 2	4.4	4.4
2 – 4	6.7	11.1
4 – 8	3.0	14.1
8 & Above	0.6	14.7

Average Permeability Millidarcys	3.2
Average Percent Porosity	16.8
Average Percent Oil Saturation	22.7
Average Percent Water Saturation	52.7
Average Oil Content, Bbls./A. Ft.	302.
Total Oil Content, Bbls./Acre	4,434.
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. 30

Depth Interval, Feet	Description
895.0 - 898.2	Gray and light brown laminated sandstone and shale.
898.2 - 899.4	Gray shale.
899.4 - 900.1	Gray and light brown laminated sandstone and shale.
900.1 - 901.6	Light brown shaly sandstone.
901.6 - 903.6	Gray sandy shale.
903.6 - 910.2	Light brown shaly sandstone.
910.2 - 910.7	Gray sandy shale.
910.7 - 911.0	Light brown shaly sandstone.
911.0 - 912.5	Gray sandy shale.
912.5 - 914.9	Light brown shaly sandstone.
914.9 - 915.5	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company North Slope Properties, Ltd. **Lease** McIntyre **Well No.** 30

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	895.5	15.9	22	56	78	271	0.51	1.0	1.0	271	0.51
2	896.5	14.9	12	67	79	139	1.7	1.0	2.0	139	1.70
3	897.5	15.2	10	70	80	118	2.5	1.2	3.2	142	3.00
4	899.7	13.2	17	76	93	174	3.2	0.7	3.9	122	2.24
5	900.5	18.3	25	44	69	355	2.1	0.9	4.8	320	1.89
6	901.5	17.5	26	46	72	353	4.4	0.6	5.4	212	2.64
7	903.8	16.2	21	72	93	264	1.9	0.6	6.0	158	1.14
8	904.7	17.5	20	49	69	272	1.9	1.0	7.0	272	1.90
9	905.8	16.9	33	42	75	433	1.1	0.8	7.8	346	0.88
10	906.3	18.2	32	41	73	452	3.4	0.8	8.6	362	2.72
11	907.3	17.3	25	50	75	336	5.6	1.1	9.7	370	6.16
12	908.5	16.2	20	54	74	251	2.5	1.0	10.7	251	2.50
13	909.3	17.8	29	40	69	401	6.0	1.3	12.0	521	7.80
14	910.8	17.1	23	44	67	305	3.4	0.3	12.3	92	1.02
15	912.7	18.9	33	40	73	484	10.	0.6	12.9	290	6.00
16	913.5	16.5	23	55	78	294	2.8	1.0	13.9	294	2.80
17	914.5	19.9	22	45	67	340	3.0	0.8	14.7	272	2.40

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company North Slope Properties, Ltd. Lease McIntyre Well No. 30

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
895.0 - 901.6	5.4	2.2	11.98
903.6 - 914.9	9.3	3.8	35.32
895.0 - 914.9	14.7	3.2	47.30

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
895.0 - 901.6	5.4	15.8	17.8	60.6	223	1,206
903.6 - 914.9	9.3	17.5	25.5	48.2	347	3,228
895.0 - 914.9	14.7	16.8	22.7	52.7	302	4,434