OILFIELD RESEARCH LABORATORIES
536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

Chanute, Kansas

November 30, 1965

Pat Michaelis
19½ South Jefferson
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Isch Lease, Well No. 1, Greenwood County, Kansas, and submitted to our laboratory on November 22, 1965.

This core was sampled and the samples sealed in plastic bags by a representative of the client. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

BRP:rf

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GENERAL INFORMATION & SUMMARY

Company Pat Michaelis Lease Isch Well No. 1

Location 900' SNL & 300' EWL

Section 10 Twp. 22S Rge. 13E County Greenwood State Kansas

Name of Sand	Squirrel
Top of Core	1499.0
Bottom of Core	1513.0
Top of Sand (Tested)	1499.0
Bottom of Sand (Tested)	1513.0
Total Feet of Permeable Sand	12.4
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	5.9	5.9
5 - 10	3.0	8.9
10 - 21	3.5	12.4

Average Permeability Millidarcys	7.1
Average Percent Porosity	16.9
Average Percent Oil Saturation	30.2
Average Percent Water Saturation	52.9
Average Oil Content, Bbls./A. Ft.	406.
Total Oil Content, Bbls./Acre	5,688.
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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Company Pat Michaelis Lease Isch Well No. 1

Depth Interval, Feet	Description
1494.0 - 1499.0	Loss.
1499.0 - 1502.8	Light brown, shaly sandstone.
1502.8 - 1503.7	Gray sandy shale.
1503.7 - 1506.3	Grayish light brown, laminated, shaly sandstone.
1506.3 - 1509.8	Brown, slightly shaly sandstone.
1509.8 - 1513.0	Grayish light brown, laminated sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Pat Michaelis Lease Isch Well No. 1

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	1499.1	18.3	32	41	73	454	15.	0.6	0.6	272	9.00
2	1500.1	15.1	38	48	86	444	6.5	1.0	1.6	444	6.50
3	1501.1	17.1	33	45	78	437	14.	1.0	2.6	437	14.00
4	1502.1	15.9	30	53	83	370	13.	1.2	3.8	444	15.60
5	1503.0	9.9	19	77	96	146	Imp.	0.9	4.7	131	0.00
6	1504.1	15.5	20	75	95	240	1.6	0.9	5.6	216	1.44
7	1505.0	17.4	21	59	80	283	1.4	1.0	6.6	283	1.40
8	1505.8	12.0	13	84	97	121	Imp.	0.7	7.3	85	0.00
9	1506.5	18.1	42	51	93	589	21.	0.7	8.0	412	14.70
10	1507.5	17.4	25	53	78	337	5.6	1.0	9.0	337	5.60
11	1508.5	19.8	29	47	76	445	9.9	1.0	10.0	445	9.90
12	1509.6	21.8	30	40	70	506	0.98	0.8	10.8	405	0.78
13	1510.6	19.4	38	38	76	572	3.9	1.2	12.0	686	4.68
14	1511.6	19.4	41	40	81	617	2.6	1.0	13.0	617	2.60
15	1512.6	16.5	37	51	88	474	1.4	1.0	14.0	474	1.40
								Total	-------	5,688	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Pat Michaelis Lease Isch Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
1499.0 - 1502.8	3.8	11.9	45.10
1502.8 - 1513.0	8.6	4.9	42.50
1499.0 - 1513.0	12.4	7.1	87.60

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
1499.0 - 1502.8	3.8	16.4	33.2	47.7	420	1,597
1502.8 - 1513.0	10.2	17.2	29.0	54.6	401	4,091
1499.0 - 1513.0	14.0	16.9	30.2	52.9	406	5,688