



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

September 7, 1967

Kathol Petroleum Inc.
900 Sutton Place
Wichita, Kansas 67213

Gentlemen:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the Fesler Lease, Well No. 3, Chautauqua County, Kansas, and submitted to our laboratory on August 30, 1967.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:rf

3 c. - Wichita, Kansas
2 c. - Bob Freeman

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Kathol Petroleum, Inc. Lease Fesler Well No. 3

Location E/2 SE/4

Section 11 Twp. 35S Rge. 11E County Chautauqua State Kansas

Name of Sand	Peru
Top of Core - (Recovered)	1140.5
Bottom of Core	1173.8
Top of Sand - (Cored)	1140.5
Bottom of Sand	1170.0
Total Feet of Permeable Formation	16.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 1	3.0	3.0
1 - 3	3.4	6.4
3 - 5	4.0	10.4
5 - 8	2.0	12.4
8 & above	4.1	16.5

Average Permeability Millidarcys	5.1
Average Percent Porosity	16.2
Average Percent Oil Saturation	17.8
Average Percent Water Saturation	71.6
Average Oil Content, Bbls./A. Ft.	227.
Total Oil Content, Bbls./Acre	6,247.
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 Kathol Petroleum, Inc. Lease Fesler Well No. 3

Depth Interval, <u>Feet</u>	<u>Description</u>
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1139.0 - 1140.5 - Cavings.

1140.5 - 1151.0 - Grayish light brown, shaly sandstone.

1151.0 - 1152.6 - Light brown, slightly shaly sandstone.

1152.6 - 1155.2 - Sandy shale.

1155.2 - 1157.4 - Light brown, shaly sandstone.

1157.4 - 1165.0 - Light brown, slightly shaly sandstone.

1165.0 - 1170.0 - Light brown, slightly calcareous, slightly carbonaceous
sandstone.

1170.0 - 1173.8 - Shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Kathol Petroleum, Inc. Lease Fesler Well No. 3

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	1141.1	23.4	12	45	57	218	14.	1.1	1.1	240	15.40
2	1142.1	14.1	14	84	98	153	Imp.	1.0	2.1	153	0.00
3	1143.1	14.5	14	79	93	158	Imp.	1.0	3.1	158	0.00
4	1144.1	18.8	21	63	84	306	2.6	1.0	4.1	306	2.60
5	1145.1	15.6	21	77	98	254	Imp.	1.0	5.1	254	0.00
6	1146.1	14.4	15	80	95	168	Imp.	1.0	6.1	168	0.00
7	1147.1	16.6	24	74	98	309	Imp.	1.0	7.1	309	0.00
8	1148.1	16.2	15	84	99	188	Imp.	1.0	8.1	188	0.00
9	1149.5	13.9	16	82	98	172	0.42	1.4	9.5	241	0.59
10	1151.5	17.7	26	60	86	357	3.6	1.0	10.5	357	3.60
11	1152.5	12.5	17	81	98	165	0.89	0.6	11.1	99	0.53
12	1153.5	14.7	9	84	93	103	Imp.	1.4	12.5	144	0.00
13	1154.5	10.9	13	84	97	110	Imp.	1.2	13.7	132	0.00
14	1155.5	16.4	21	61	82	267	2.4	0.8	14.5	214	1.92
15	1156.5	15.6	20	78	98	242	Imp.	1.4	15.9	339	0.00
16	1157.5	17.6	25	61	86	341	2.9	0.6	16.5	205	1.74
17	1158.5	19.2	27	52	79	401	9.3	1.0	17.5	401	9.30
18	1159.5	16.7	19	63	82	246	8.7	1.0	18.5	246	8.70
19	1160.5	19.0	16	73	89	236	3.0	1.0	19.5	236	3.00
20	1161.5	18.4	18	67	85	256	13.	1.0	20.5	256	13.00
21	1162.5	14.1	13	80	93	142	Imp.	1.0	21.5	142	0.00
22	1163.5	19.6	23	66	89	350	5.2	1.0	22.5	350	5.20
23	1164.5	17.5	27	58	85	367	7.5	1.0	23.5	367	7.50
24	1165.5	13.0	17	69	86	171	0.44	1.0	24.5	171	0.44
25	1166.5	16.3	18	72	90	227	4.2	1.0	25.5	227	4.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Kathol Petroleum, Inc.		Lease	Fesler	Well No.	
						3	
Depth Interval, Feet	Feet of Core Analyzed	Average Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
1140.5 - 1150.0	3.5	16.2	16.8	74.2	5.3	18.59	2,017
1151.0 - 1155.2	1.6	14.0	15.3	77.8	2.6	4.13	732
1155.2 - 1169.0	11.4	16.9	19.2	67.8	5.3	61.00	3,498
1140.5 - 1169.0	16.5	16.2	17.8	71.6	5.1	83.72	6,247