



OILFIELD RESEARCH LABORATORIES

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

May 29, 1967

Pat Michaelis
19 $\frac{1}{2}$ South Jefferson
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Levi Ott Lease, Well No. 6, Greenwood County, Kansas, and submitted to our laboratory on May 26 and 27, 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

6 c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Pat Michaelis Lease Levi Ott Well No. 6

Location SW/4

Section 7 Twp. 22S Rge. 13E County Greenwood State Kansas

Name of Lime . . . (Kansas City) Upper Lower

Top of Core 1103.0 1143.0

Bottom of Core 1116.0 1152.0

Top of Pay 1104.8 1144.6

Bottom of Pay 1110.6 1150.6

Total Feet of Permeable Lime 7.2 6.6

Total Feet of Floodable Lime - -

Distribution of Permeable Lime
Permeability Range
Millidarcys

Feet

Cum. Ft.

Upper K.C. 0 - 10
10 & above

5.4
1.8

5.4
7.2

Lower K.C. 0 - 10
10 & above

4.6
2.0

4.6
6.6

Average Permeability Millidarcys 10.2 7.7

Average Percent Porosity 14.9 27.6

Average Percent Oil Saturation 28.7 15.7

Average Percent Water Saturation 61.6 45.8

Average Oil Content, Bbls./A. Ft. 336. 309.

Total Oil Content, Bbls./Acre 2,955. 2,346.

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 Levi Ott Well No. 6

Depth Interval, Description
Feet

UPPER KANSAS CITY LIMESTONE

1103.0 - 1104.8 - Light brown, dolomitic limestone.

1104.8 - 1112.0 - Grayish light brown, slightly dolomitic, slightly
vuggy limestone.

1112.0 - 1116.0 - Gray crystalline, slightly dolomitic limestone.

1116.0 - 1143.0 - Drilled.

LOWER KANSAS CITY LIMESTONE

1143.0 - 1152.0 - Brown, medium grained, sandy limestone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Pat Michaelis Lease Levi Ott Well No. 6

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.		
						UPPER K.C. LIMESTONE					
1	1105.1	16.0	29	52	81	360	44.	0.8	0.8	288	35.20
2	1106.1	14.4	55	33	88	614	8.3	1.0	1.8	614	8.30
3	1107.1	17.8	38	58	96	525	0.21	1.0	2.8	525	0.21
4	1108.1	12.2	24	70	94	227	0.60	1.0	3.8	227	0.60
5	1109.1	18.0	29	66	95	405	22.	1.0	4.8	405	22.00
6	1110.1	16.1	25	71	96	312	6.4	1.0	5.8	312	6.40
7	1111.1	14.2	17	68	85	187	0.42	1.4	7.2	262	0.59
8	1112.1	12.9	17	79	96	170	Imp.	0.6	7.8	102	0.00
9	1113.1	11.8	24	70	94	220	Imp.	1.0	8.8	220	0.00
						LOWER K.C. LIMESTONE					
10	1143.1	31.9	5	40	45	124	3.9	0.6	9.4	74	2.34
11	1144.1	29.4	9	49	58	205	0.12	1.0	10.4	205	0.12
12	1145.1	29.4	17	42	59	388	0.20	1.0	11.4	388	0.20
13	1146.1	28.9	10	53	63	224	3.9	1.0	12.4	224	3.90
14	1147.1	27.2	16	41	57	338	15.	1.0	13.4	338	15.00
15	1148.1	24.9	23	42	65	444	Imp.	1.0	14.4	444	0.00
16	1149.1	16.1	30	52	82	375	29.	1.0	15.4	375	29.00
17	1150.1	34.9	11	45	56	298	0.14	1.0	16.4	298	0.14

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Pat Michaelis	Lease	Levi Ott	Well No.	6
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
		<u>UPPER KANSAS CITY LIME</u>			
1104.8 - 1113.1	7.2	10.2	73.30		
		<u>LOWER KANSAS CITY LIME</u>			
1143.0 - 1150.6	6.6	7.7	50.70		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
		<u>UPPER KANSAS CITY LIME</u>			
1104.8 - 1113.1	8.8	14.9	28.7	61.6	336
		<u>LOWER KANSAS CITY LIME</u>			
1143.0 - 1150.6	7.6	27.6	15.7	45.8	309
					2,955
					2,346