● CORE ANALYSIS ● WATER REPRESSURING ENGINEERING ● WATER ANALYSIS ● FLOODING WATER TREATMENT ● SURVEYING

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: HE 1-2650

October 30, 1961

Montclair Oil Company
P.O. Box 337
Wellsville, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the A.C. Pflug Lease, Well No. B-4, Miami County, Kansas, and submitted to our laboratory on October 26, 1961.

This core was sampled and the samples sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

BRP:rf

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Montclair Oil Co. Lease A.C. Pflug Well No. B-4

Location NE

Section 25 Twp. 16S Rge. 21E County Miami State Kansas

Name of Sand	Squirrel
Top of Core	632.0
Bottom of Core	663.0
Top of Sand	632.0
Bottom of Sand	663.0
Total Feet of Permeable Sand	-
Total Feet of Floodable Sand	-

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.

Average Permeability Millidarcys	-
Average Percent Porosity	21.6
Average Percent Oil Saturation	42.5
Average Percent Water Saturation	50.5
Average Oil Content, Bbls./A. Ft.	711.
Total Oil Content, Bbls./Acre	22,042.
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 Montclair Oil Co. Lease A.C. Pflug Well No. B-4

Depth Interval, Feet	Description
632.0 - 633.5	Brown laminated shaley sandstone.
633.5 - 634.5	Grayish light brown shaley sandstone.
634.5 - 643.5	Brown sandstone.
643.5 - 644.5	Brownish gray sandy limestone.
644.5 - 660.5	Brown sandstone.
660.5 - 663.0	Dark brown laminated slightly shaley, slightly carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Montclair Oil Co. Lease A.C. Pflug Well No. B-4

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	632.1	19.5	46	45	91	696	-	0.6	0.6	418	-
2	633.0	20.2	54	39	93	846	-	0.9	1.5	761	-
3	634.0	18.9	36	54	90	529	-	1.0	2.5	529	-
4	635.0	19.7	50	42	92	764	-	1.0	3.5	764	-
5	636.0	20.4	44	50	94	696	-	1.0	4.5	696	-
6	637.0	21.3	44	50	94	728	-	1.0	5.5	728	-
7	638.0	21.2	32	59	91	526	-	1.0	6.5	526	-
8	639.0	20.5	39	55	94	620	-	1.0	7.5	620	-
9	640.0	20.3	42	52	94	661	-	1.0	8.5	661	-
10	641.0	21.5	50	41	91	834	-	1.0	9.5	834	-
11	642.0	19.6	45	48	93	684	-	1.0	10.5	684	-
12	643.0	21.7	38	54	92	640	-	1.0	11.5	640	-
13	644.0	10.3	54	40	94	431	-	1.0	12.5	431	-
14	645.0	22.3	40	54	94	692	-	1.0	13.5	692	-
15	646.0	22.7	46	49	95	810	-	1.0	14.5	810	-
16	647.0	23.3	48	50	98	830	-	1.0	15.5	830	-
17	648.0	22.2	46	48	94	792	-	1.0	16.5	792	-
18	649.0	21.5	48	50	98	801	-	1.0	17.5	801	-
19	650.0	24.3	52	45	97	980	-	1.0	18.5	980	-
20	651.0	24.3	49	48	97	924	-	1.0	19.5	924	-
21	652.0	24.6	48	48	96	916	-	1.0	20.5	916	-
22	653.0	25.6	44	50	94	874	-	1.0	21.5	874	-
23	654.0	24.9	34	57	91	657	-	1.0	22.5	657	-
24	655.0	22.1	29	56	85	497	-	1.0	23.5	497	-

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Montclair Oil Co. Lease A.C. Pflug Well No. B-4

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.		
25	656.0	22.8	37	56	93	655	-	1.0	24.5	655	-
26	657.0	24.0	44	48	92	820	-	1.0	25.5	820	-
27	658.0	22.1	42	52	94	719	-	1.0	26.5	719	-
28	659.0	20.8	35	55	90	565	-	1.0	27.5	565	-
29	660.0	23.6	37	57	94	678	-	1.0	28.5	678	-
30	661.0	22.5	38	51	89	664	-	1.0	29.5	664	-
31	662.0	19.9	30	60	90	464	-	1.0	30.5	464	-
32	662.9	24.7	43	51	94	824	-	0.5	31.0	412	-
								Total	-----	22,042	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Montclair Oil Co. Lease A.C. Pflug Well No. B-4

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.

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
632.0 - 644.5	12.5	20.4	44.0	48.6	662	8,292
644.5 - 663.0	18.5	23.0	41.5	51.9	745	13,750
632.0 - 663.0	31.0	21.6	42.5	50.5	711	22,042