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

August 29, 1980

Buffalo Oil Company
c/o Steve Finley
R R # 2, Box 101
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary cores taken from the Marple Lease, Well No. 1, Wilson County, Kansas and submitted to our laboratory on August 19, 1980.

The cores were sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/ks

5 c to Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Company Buffalo Oil Company Lease Marple Well No. 1

Location 1090' WEL & 200' SNL

Section 26 Twp. 27S Rge. 16E County Wilson State Kansas

Elevation, Feet	-	-
Name of Sand	Squirrel	Cattleman
Top of Core	853.0	991.0
Bottom of Core	873.0	1000.0
Top of Sand	853.0	991.0
Bottom of Sand	873.0	1000.0
Total Feet of Permeable Sand	15.0	0.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
	SQUIRREL SAND	
0 - 1	5.9	5.9
1 - 10	3.3	9.2
14 - 20	4.5	13.7
25 & Above	1.3	15.0
	CATTLEMAN SAND	
0	0.0	0.0

Average Permeability Millidarcys	9.7	0.0
Average Percent Porosity	14.3	9.6
Average Percent Oil Saturation	35.3	21.2
Average Percent Water Saturation	45.9	72.0
Average Oil Content, Bbls./A. Ft.	399.	152.
Total Oil Content, Bbls./Acre	7,986.	1,369.

LOG

Name Buffalo Oil Company Lease Marple Well No. 1

Depth Interval, Feet	Description
	SQUIRREL SAND
853.0 - 854.8	Brown shaly sandstone.
854.8 - 856.6	Brown slightly calcareous sandstone.
856.6 - 859.6	Brown shaly sandstone.
859.6 - 861.3	Brown and gray laminated sandstone and shale.
861.3 - 861.8	Brown slightly calcareous sandstone.
861.8 - 863.3	Brown and gray laminated sandstone and shale.
863.3 - 865.3	Brown sandstone.
865.3 - 873.0	Grayish brown shaly sandstone.
	CATTLEMAN SAND
991.0 - 1000.0	Gray laminated sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Buffalo Oil Company Lease Marple 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.		
						SQUIRREL SAND					
1	853.3	13.8	36	54	90	385	0.59	1.0	1.0	385	0.59
2	854.3	13.5	28	64	92	293	0.98	0.8	1.8	234	0.78
3	855.5	16.2	29	31	60	365	36.	0.8	2.6	292	28.80
4	856.5	14.1	33	48	81	361	17.	1.0	3.6	361	17.00
5	857.5	14.4	45	30	75	503	6.9	1.6	5.2	805	11.04
6	858.5	14.4	39	42	81	436	0.78	1.4	6.6	610	1.09
7	859.8	17.0	42	26	68	554	4.5	0.7	7.3	388	3.15
8	860.5	16.4	45	30	75	573	7.8	1.0	8.3	573	7.80
9	861.5	17.7	48	29	77	659	29.	0.5	8.8	330	14.50
10	862.5	15.4	38	36	74	454	18.	1.5	10.3	681	27.00
11	863.5	15.2	52	28	80	613	18.	1.0	11.3	613	18.00
12	865.1	13.5	38	37	75	398	14.	1.0	12.3	398	14.00
13	866.2	14.3	46	32	78	510	0.56	1.3	13.6	663	0.73
14	867.6	13.1	30	61	91	305	0.20	1.4	15.0	427	0.28
15	868.5	13.5	29	55	84	304	Imp.	1.0	16.0	304	0.00
16	869.5	13.1	30	57	87	305	Imp.	1.0	17.0	305	0.00
17	870.8	14.3	34	49	83	377	Imp.	1.0	18.0	377	0.00
18	871.6	12.7	16	75	91	158	Imp.	1.0	19.0	158	0.00
19	872.8	11.8	9	88	97	82	Imp.	1.0	20.0	82	0.00
						CATTLEMAN SAND					
1	991.7	12.1	15	80	95	141	Imp.	1.5	1.5	212	0.00
2	993.1	10.3	30	63	93	240	Imp.	1.5	3.0	360	0.00
3	994.7	9.6	25	71	96	186	Imp.	1.5	4.5	279	0.00
4	996.4	10.2	4	78	82	32	Imp.	1.5	6.0	48	0.00
5	997.8	7.6	32	65	97	189	Imp.	1.5	7.5	284	0.00
6	999.2	7.6	21	75	96	124	Imp.	1.5	9.0	186	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Buffalo Oil Company Lease Marple Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
	SQUIRREL SAND		
853.0 - 865.3	12.3	11.7	143.75
865.3 - 873.0	2.7	0.37	1.01
853.0 - 873.0	15.0	9.7	144.76
	CATTLEMAN SAND		
991.0 - 1000.0	9.0	Imp.	0.00

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
			SQUIRREL SAND			
853.0 - 865.3	12.3	15.0	39.6	37.9	461	5,670
865.3 - 873.0	7.7	13.3	28.5	58.6	301	2,316
853.0 - 873.0	20.0	14.3	35.3	45.9	399	7,986
			CATTLEMAN SAND			
991.0 - 1000.0	9.0	9.6	21.2	72.0	152	1,369