



OILFIELD RESEARCH LABORATORIES

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

October 12, 1967

Mr. W. H. Freels
c/o Joe Rolls
Box 321
Fort Scott, Kansas 66701

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Albert Elmer 20 Acres Lease, Well No. 2, Crawford County, Kansas, and submitted to our laboratory on October 5, 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:bjo

5 c. - Fort Scott, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company W. H. Freels Lease Albert Elmer 20 Acres Well No. 2

Location SE/4

Section 30 Twp. 27S Rge. 22E County Crawford State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 562.0

Bottom of Core - - - - - 582.0

Top of Sand - (Cored) - - - - - 562.0

Pay
Bottom of Sand - - - - - 573.1

Total Feet of Permeable Sand - (Analyzed) - - - - - 11.7

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10	2.1	2.1
10 - 50	3.0	5.1
50 - 100	4.0	9.1
100 & above	2.6	11.7

Average Permeability Millidarcys - - - - - 178.2

Average Percent Porosity - - - - - 20.6

Average Percent Oil Saturation - - - - - 56.0

Average Percent Water Saturation - - - - - 25.7

Average Oil Content, Bbls./A. Ft. - - - - - 893.

Total Oil Content, Bbls./Acre - - - - - 10,458.

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 W. H. Freels Lease Albert Elmer 20 Acres Well No. 2

Depth Interval, <u>Feet</u>	Description
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562.0 - 573.1	- Dark brown sandstone.
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573.1 - 574.2	- Gray micaceous carbonaceous sandstone.
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574.2 - 577.0	- Dark gray finely laminated sandstone and shale.
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577.0 - 582.0	- Laminated sandstone and shale (discarded at well).
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company W. H. Freels Lease Albert Elmer 20 Acres Well No. 2

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			Ft.	Cum. Ft.		
1	562.1	21.6	48	38	86	415.	0.6	0.6	482	248.00
2	563.1	25.0	47	26	73	848.	1.0	1.6	912	848.00
3	564.1	23.5	58	28	86	599.	1.0	2.6	1058	599.00
4	565.1	20.2	57	27	84	95.	1.0	3.6	892	95.00
5	566.1	23.1	51	19	70	43.	1.0	4.6	913	43.00
6	567.1	18.5	47	23	70	9.9	1.0	5.6	675	9.90
7	568.1	20.4	55	24	79	37.	1.0	6.6	870	37.00
8	569.1	21.8	67	19	86	57.	1.0	7.6	1132	57.00
9	570.1	19.3	61	25	86	32.	1.0	8.6	913	32.00
10	571.1	19.0	58	26	84	59.	1.0	9.6	854	59.00
11	572.1	17.8	66	27	93	56.	1.0	10.6	910	56.00
12	573.0	18.3	53	38	91	-	0.5	11.1	376	-
13	573.2	-	-	-	-	1.1	0.5	11.6	-	0.55
P-13	574.1	18.1	56	26	82	1.1	0.6	12.2	471	0.66

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	W. H. Freels	Lease	Albert Elmer 20 Acres	Well No.	2
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
562.0 - 566.6	4.6	398.5	1,833.00		
566.6 - 574.2	7.1	35.5	252.11		
562.0 - 574.2	11.7	178.2	2,085.11		

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
562.0 - 566.6	4.6	22.8	52.6	26.5	926.	4,257.
566.6 - 574.2	7.1	19.3	58.4	25.2	873.	6,201.
562.0 - 574.2	11.7	20.6	56.0	25.7	893.	10,458.