



OILFIELD RESEARCH LABORATORIES

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

November 15, 1972

Mr. George A. Hoffman
Box 537
Henderson, Kentucky 42420

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core samples taken from the Lowe Lease, Well No. H-3, Allen County, Kansas, and submitted to our laboratory on November 13, 1972.

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

Carl L. Pate

CLP:bl
5 c.

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GENERAL INFORMATION & SUMMARY

Company George A. Hoffman Lease Lowe Well No. H-3

Location NW¹₄

Section 28 Twp. 26S Rge. 21E County Allen State Kansas

Name of Sand - - - - - Bartlesville

Top of Core (Received) - - - - - 664.0

Bottom of Core (Received) - - - - - 679.0

Top of ^{Good} Sand - - - - - 667.0

Bottom of Sand (Received) - - - - - 679.0

Total Feet of Permeable Sand - - - - - 15.0

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand: Permeability Range Millidarcys

Feet

Cum. Ft.

0 - 5	3.0	3.0
5 - 10	2.0	5.0
10 - 25	3.0	8.0
25 - 50	4.0	12.0
50 & above	3.0	15.0

Average Permeability Millidarcys - - - - - 26.0

Average Percent Porosity - - - - - 17.7

Average Percent Oil Saturation - - - - - 42.6

Average Percent Water Saturation - - - - - 43.4

Average Oil Content, Bbls./A. Ft. - - - - - 594.

Total Oil Content, Bbls./Acre - - - - - 8,906.

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 - - - - -

1053.3 Sec 29
* 1067.4 Sec 28

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LOG

Company George A. Hoffman Lease Lowe Well No. H-3

Depth Interval, Description
Feet

664.0 - 667.0 - Light brown shaly sandstone.

667.0 - 671.0 - Brown slightly shaly sandstone.

671.0 - 678.0 - Brown sandstone.

678.0 - 679.0 - Brown carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company George A. Hoffman Lease Lowe Well No. H-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	664.5	14.3	17	68	85	189	2.0	1.0	1.0	189	2.00
2	665.5	13.1	26	66	92	264	0.18	1.0	2.0	264	0.18
3	666.5	16.2	43	53	96	541	2.3	1.0	3.0	541	2.30
4	667.5	17.1	47	45	92	624	14.	1.0	4.0	624	14.00
5	668.5	20.0	44	37	81	683	29.	1.0	5.0	683	29.00
6	669.5	18.3	49	39	88	696	48.	1.0	6.0	696	48.00
7	670.5	19.0	44	43	87	649	20.	1.0	7.0	649	20.00
8	671.5	20.3	50	35	85	788	37.	1.0	8.0	788	37.00
9	672.5	19.4	41	34	75	617	8.5	1.0	9.0	617	8.50
10	673.5	16.8	45	46	91	586	7.0	1.0	10.0	586	7.00
11	674.5	18.5	53	35	88	761	38.	1.0	11.0	761	38.00
12	675.5	18.1	45	36	81	632	55.	1.0	12.0	632	55.00
13	676.5	19.6	45	39	84	684	58.	1.0	13.0	684	58.00
14	677.5	18.9	44	31	75	646	56.	1.0	14.0	646	56.00
15	678.5	15.3	46	44	90	546	15.	1.0	15.0	546	15.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company George A. Hoffman Lease Lowe Well No. H-3

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
664.0 - 667.0	3.0	1.5	4.48
667.0 - 679.0	12.0	32.1	385.50
664.0 - 679.0	15.0	26.0	389.98

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
664.0 - 667.0	3.0	14.5	28.7	62.3	331	994
667.0 - 679.0	12.0	18.4	46.1	38.7	659	7,912
664.0 - 679.0	15.0	17.7	42.6	43.4	594	8,906