



OILFIELD RESEARCH LABORATORIES

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

September 25, 1978

George A. Hoffman
P.O. Box 537
Henderson, Kentucky 42420

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Nelson Lease, Well No. H-21, Allen County, Kansas, and submitted to our laboratory on September 15, 1978.

The core was sampled and the samples were sealed in plastic bags by the client. Each sample is assumed to represent one foot of core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:km
4 c to Henderson, Kentucky
1 c to Erie, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company George A. Hoffman Lease Nelson Well No. H-21

Location 400' FEL & 500' FSL SW 1/4

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

Name of Sand - - - - - Upper Bartlesville

Top of Core - - - - - 623.0

Bottom of Core - - - - - 627.0

Top of Sand - - - - - 623.0

Bottom of Sand - - - - - 627.0

Total Feet of Permeable Sand - - - - - 4.0

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 30	2.0	2.0
30 & Above	2.0	4.0

Average Permeability Millidarcys - - - - - 39.0

Average Percent Porosity - - - - - 18.1

Average Percent Oil Saturation - - - - - 22.3

Average Percent Water Saturation - - - - - 43.0

Average Oil Content, Bbls./A. Ft. - - - - - 311.

Total Oil Content, Bbls./Acre - - - - - 1,242.

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 George A. Hoffman Lease Nelson Well No. H-21

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
623.0 - 626.0	Light brown shaly sandstone.
626.0 - 627.0	Dark slightly carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company George A. Hoffman Lease Nelson Well No. H-21

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	623.5	18.9	20	43	63	293	29.	1.0	1.0	293	29.00
2	624.5	17.5	25	46	71	339	62.	1.0	2.0	339	62.00
3	625.5	17.7	23	46	69	316	44.	1.0	3.0	316	44.00
4	626.5	18.1	21	37	58	294	21.	1.0	4.0	294	21.00