



# OILFIELD RESEARCH LABORATORIES

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

14-28-20E

November 25, 1968

Smith Engineering, Inc.  
15 South Forest  
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Blaine Lease, Well No. 3-A, Neosho County, Kansas, and submitted to our laboratory on November 22, 1968.

This core is from a virgin territory and was sampled and submitted to our laboratory by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dp

12 c.

Blaine 3-A

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Smith Engineering, Inc. Lease Blaine Well No. 3-A

Location 495' NSL & 165' WEL, SW SE

Section 14 Twp. 28S Rge. 20E County Neosho State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 484.0

Bottom of Core - - - - - 500.0

Top of Sand - - - (Cored) - - - - - 484.0

Bottom of <sup>good</sup>Sand - - - - - 492.2

Total Feet of Permeable Sand - - - (Analyzed) - - - - - 7.4

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:  
Permeability Range  
Millidarcys

Feet

Cum. Ft.

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	2.8	2.8
10 - 50	3.0	5.8
50 & above	1.6	7.4

Average Permeability Millidarcys - - - - - 26.7

Average Percent Porosity - - - - - 18.1

Average Percent Oil Saturation - - - - - 34.5

Average Percent Water Saturation - - - - - 44.3

Average Oil Content, Bbls./A. Ft. - - - - - 482.

Total Oil Content, Bbls./Acre - - - - - 3,569.

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 - - - - -

-LOG-Company Smith Engineering, Inc. Lease Blaine Well No. 3-A

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
484.0 - 486.7	Light brown micaceous shaly sandstone.
486.7 - 487.0	Gray shale.
487.0 - 487.2	Brown fine grained sandstone.
487.2 - 487.7	Gray sandy shale.
487.7 - 492.2	Light brown micaceous shaly sandstone.
492.2 - 493.1	Dark micaceous carbonaceous sandstone.
493.1 - 493.9	Gray laminated sandy shale.
493.9 - 500.0	Gray shale (discarded at well).

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Smith Engineering, Inc. Lease Blaine Well No. 3-A

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	484.1	16.7	30	44	74	389	3.6	0.6	0.6	233	2.16
2	485.1	17.2	33	52	85	441	30.	1.0	1.6	441	30.00
3	486.1	17.7	34	43	77	467	7.9	1.1	2.7	514	8.14
4	487.1	17.1	35	40	75	464	9.5	0.2	2.9	92	1.90
5	488.1	19.0	30	46	76	442	8.9	0.9	3.8	398	8.01
6	489.1	19.4	37	41	78	557	39.	1.0	4.8	557	39.00
7	490.1	18.7	32	44	76	464	53.	1.0	5.8	464	53.00
8	491.1	17.2	43	43	86	574	20.	1.0	6.8	574	20.00
9	492.1	18.7	34	41	75	493	59.	0.6	7.4	296	35.40