OILFIELD RESEARCH LABORATORIES

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

14-28-20E

December 17, 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. 5-A, Neosho County, Kansas, and submitted to our laboratory on December 14, 1968.

This core is from a virgin territory and was sampled and sealed in plastic bags 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. - Chanute, Kansas

5-A

BLAINE

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Smith Engineering, Inc. Lease Blaine Well No. 5-A

Location 165' EWL & 495' NSL, SE/4

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

Name of Sand	Bartlesville
Top of Core	481.0
Bottom of Core	491.0
Top of Sand (Cored)	481.0
Bottom of Sand (Good)	487.7
Total Feet of Permeable Sand (Analyzed)	6.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	2.2	2.2
10 - 20	1.8	4.0
20 & above	2.0	6.0

Average Permeability Millidarcys	20.4
Average Percent Porosity	16.7
Average Percent Oil Saturation	40.4
Average Percent Water Saturation	46.6
Average Oil Content, Bbls./A. Ft.	533.
Total Oil Content, Bbls./Acre	3,194.
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. 5-A

Depth Interval, Feet	Description
481.0 - 484.2	Light brown fine grained micaceous slightly shaly sandstone.
484.2 - 485.0	Laminated shaly sandstone.
485.0 - 486.2	Brown fine grained micaceous slightly shaly sandstone.
486.2 - 486.7	Gray sandy shale.
486.7 - 487.7	Brown fine grained micaceous slightly shaly sandstone.
487.7 - 488.3	Dark carbonaceous sandstone.
488.3 - 491.0	Gray sandy shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Smith Engineering, Inc. Lease Blaine Well No. 5-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	481.1	20.4	25	45	70	396	16.	0.6	0.6	338	9.60
2	482.1	15.5	35	51	86	421	42.	1.0	1.6	421	42.00
3	483.1	14.4	49	45	94	548	42.	1.0	2.6	548	42.00
4	484.1	18.4	38	54	92	542	9.2	0.6	3.2	325	5.56
5	485.1	17.8	38	44	82	525	17.	0.6	3.8	315	10.20
6	486.1	17.3	41	41	82	551	11.	0.6	4.4	331	6.60
7	487.1	16.2	46	47	93	579	6.2	1.0	5.4	579	6.20
8	488.1	16.1	45	38	83	562	0.48	0.6	6.0	337	0.29