OILFIELD RESEARCH LABORATORIES

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

February 23, 1968

22-25-19E

N & B Enterprises, et al
Box 229
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Smith Lease, Well No. 1, Woodson County, Kansas, and submitted to our laboratory on February 20, 1968.

This core, which is from a virgin area, was sampled by a represented of the client. An employee of Oilfield Research Laboratories made the trip to the well to get the core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjo

5 c. - Chanute, Kansas

Smith 1

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company N & B Enterprises, et al Lease Smith Well No. 1

Location SW, SE, NW

Section 22 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand	Squirrel
Top of Core	893.0
Bottom of Core	899.0
Top of Sand (Cored)	893.0
Bottom of Sand	897.5
Total Feet of Permeable Sand	4.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	2.9	2.9
5 & above	1.6	4.5

Average Permeability Millidarcys	5.3
Average Percent Porosity	15.7
Average Percent Oil Saturation	58.1
Average Percent Water Saturation	26.3
Average Oil Content, Bbls./A. Ft.	706.
Total Oil Content, Bbls./Acre	3,178.
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 N & B Enterprises, et al Lease Smith Well No. 1

Depth Interval, Feet	Description
893.0 - 895.5	Dark brown slightly laminated shaly sandstone.
895.5 - 897.5	Dark brown laminated shaly sandstone.
897.5 - 899.0	Sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company N & B Enterprises, et al Lease Smith Well No. 1

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	893.1	14.4	55	22	77	614	5.2	0.6	0.6	368	3.12
2	894.1	14.1	62	20	82	678	12.	1.0	1.6	678	12.00
3	895.1	16.2	62	20	82	779	3.5	0.9	2.5	701	3.42
4	896.1	16.8	50	34	84	652	1.3	1.1	3.6	717	1.43
5	897.1	16.5	62	33	95	794	4.5	0.9	4.5	714	4.05