



OILFIELD RESEARCH LABORATORIES

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

February 19, 1980

Birch & Shumway
Box 681
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Fowler Lease, Well No. 1, Neosho County, Kansas, and submitted to our laboratory on February 13, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas
3 c to Chanute, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Birch & Shumway Lease Fowler Well No. 1

Location NW NE $\frac{1}{4}$

Section 1 Twp. 29S Rge. 18E County Neosho State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	705.0
Bottom of Core	714.0
Top of Sand	707.4
Bottom of Sand (Tested)	712.1
Total Feet of Permeable Sand	2.4

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.4	2.4

Average Permeability Millidarcys	0.43
Average Percent Porosity	12.9
Average Percent Oil Saturation	45.3
Average Percent Water Saturation	33.8
Average Oil Content, Bbls./A. Ft.	480.
Total Oil Content, Bbls./Acre	1,921.

OILFIELD RESEARCH LABORATORIES

LOG

Name Birch & Shumway Lease Fowler Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
705.0 - 707.4	Gray sandy shale.
707.4 - 710.0	Light brown very shaly sandstone.
710.0 - 710.7	Gray sandy shale.
710.7 - 712.1	Black carbonaceous shaly sandstone.
712.1 - 713.0	Gray shaly sandstone.
713.0 - 714.0	Gray sandy shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Birch & Shumway Lease Fowler 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	707.6	13.2	43	31	74	440	Imp.	0.6	0.6	264	0.00
2	708.5	9.2	16	74	90	114	0.33	1.0	1.6	114	0.33
3	709.8	13.7	61	20	81	648	Imp.	1.0	2.6	648	0.00
4	711.6	14.7	56	16	72	639	0.51	1.4	4.0	895	0.71

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.				
Birch & Shumway	Fowler	1				
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
707.4 - 712.1	2.4	0.43	1.04			
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre	
707.4 - 712.1	4.0	12.9	45.3	33.8	480	1,921