



OILFIELD RESEARCH LABORATORIES

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

April 22, 1968

27-25-10E

TEC Drilling Company, Inc.
P. O. Box 693
El Dorado, Kansas 67042

Gentlemen:

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

This core is from a virgin territory and was sampled and the samples were sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjo

5 c. - El Dorado, Kansas

J.F. Smith 1

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GENERAL INFORMATION & SUMMARY

Company TEC Drilling Company, Inc Lease J. F. Smith Well No. 1

Location NE, NW, NW

Section 27 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand	Squirrel
Top of Core	878.0
Bottom of Core	884.0
Top of Sand (Analyzed)	878.0
Bottom of Sand	882.5
Total Feet of Permeable Sand	4.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	3.2	3.2
5 & above	1.3	4.5

Average Permeability Millidarcys	17.5
Average Percent Porosity	54.5
Average Percent Oil Saturation	29.3
Average Percent Water Saturation	746.
Average Oil Content, Bbls./A. Ft.	3,359.
Total Oil Content, Bbls./Acre	
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 TEC Drilling Company, Inc. Lease J. F. Smith Well No. 1

Depth Interval, Description
Feet

878.0 - 881.3 - Brown slightly laminated shaly sandstone.

881.3 - 882.5 - Brown laminated shaly sandstone.

882.5 - 884.0 - Sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company TEC Drilling Company, Inc. Lease J. F. 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	878.1	16.1	61	26	87	781	6.0	0.6	0.6	469	3.60
2	879.1	16.7	37	36	73	479	3.8	1.0	1.6	479	3.80
3	880.1	18.4	66	25	91	942	4.5	1.0	2.6	942	4.50
4	881.1	17.6	31	31	62	423	5.8	0.7	3.3	296	4.06
5	882.1	18.0	70	28	98	978	0.76	1.2	4.5	1173	0.91