



OILFIELD RESEARCH LABORATORIES

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

June 13, 1979

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 Tom Kee Lease, Well No. 15, Woodson County, Kansas, and submitted to our laboratory on June 8, 1979.

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

Benjamin R. Pearman
Benjamin R. Pearman

BRP:km

4 c to El Dorado, Kansas
1 c to Yates Center, Kansas

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GENERAL INFORMATION & SUMMARY

Company TEC Drilling Company, Inc. Lease Tom Kee Well No. 15

Location NE NW SE

Section 18 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand	Squirrel
Top of Core	988.0
Bottom of Core	997.2
Top of Sand	989.2
Bottom of Sand	997.2
Total Feet of Permeable Sand	7.2
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10
10 - 50
50 - 100

2.0
4.5
0.7

2.0
6.5
7.2

Average Permeability Millidarcys	26.8
Average Percent Porosity	17.6
Average Percent Oil Saturation	53.1
Average Percent Water Saturation	21.3
Average Oil Content, Bbls./A. Ft.	727.
Total Oil Content, Bbls./Acre	5,819.
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

Name TEC Drilling Company, Inc. Lease Tom Kee Well No. 15

<u>Depth Interval, Feet</u>	<u>Description</u>
988.0 - 989.2	Dark gray calcareous sandy shale containing a vertical fracture.
989.2 - 991.4	Brown calcareous shaly sandstone.
991.4 - 993.3	Brown and gray laminated sandstone and shale.
993.3 - 995.4	Dark brown sandstone.
995.4 - 997.2	Dark brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company TEC Drilling Company, Inc. Lease Tom Kee Well No. 15

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	989.3	13.6	41	24	65	433	Imp.	0.8	0.8	346	0.00
2	990.3	18.2	50	24	74	706	3.6	1.0	1.8	706	3.60
3	991.2	15.1	50	29	79	586	3.7	0.4	2.2	234	1.50
4	992.2	17.9	56	21	77	778	24.	1.9	4.1	1478	46.00
5	993.4	22.2	48	21	69	827	84.	0.7	4.8	579	59.00
6	994.1	17.7	57	21	78	783	36.	1.4	6.2	1096	50.00
7	995.5	18.7	62	10	72	900	1.2	0.6	6.8	540	0.72
8	996.5	16.7	54	21	75	700	27.	1.2	8.0	840	32.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company TEC Drilling Company, Inc. Lease Tom-Kee Well No. 15

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
989.2 - 997.2	7.2	26.8	192.82

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
989.2 - 997.2	8.0	17.6	53.1	21.3	727	5,819