



OILFIELD RESEARCH LABORATORIES

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

November 3, 1966

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

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Derringer Lease, Well No. 5, Woodson County, Kansas, and submitted to our laboratory on November 1, 1966.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

BRP:rf

5 c.

19-23-10E

Derringer 5

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GENERAL INFORMATION & SUMMARY

Company TEC Drilling Company, Inc Lease Derringer Well No. 5

Location _____

Section 19 Twp. 23S Rge. 16E County Woodson State Kansas

Name of Sand - - - - - Squirrel

Top of Core - - - - - 1060.0

Bottom of Core - - - - - (Recovered) 1070.2

Top of Sand - - - - - 1060.3

Bottom of Sand - - - - - 1069.6

Total Feet of Permeable Sand - - - - - 4.6

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10

1.7

1.7

17 - 81

2.9

4.6

Average Permeability Millidarcys - - - - - 28.2

Average Percent Porosity - - - - - 17.8

Average Percent Oil Saturation - - - - - 42.2

Average Percent Water Saturation - - - - - 36.6

Average Oil Content, Bbls./A. Ft. - - - - - 584.

Total Oil Content, Bbls./Acre - - - - - 2,975.

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 TEC Drilling Company Lease Derringer Well No. 5

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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1060.0 - 1060.3	- Grayish brown, shaly sandstone.
1060.3 - 1061.6	- Brown sandstone.
1061.6 - 1063.0	- Gray sandy shale.
1063.0 - 1065.6	- Brown sandstone.
1065.6 - 1066.2	- Gray sandy shale.
1066.2 - 1066.6	- Grayish brown, laminated, shaly sandstone.
1066.6 - 1067.0	- Gray sandy shale.
1067.0 - 1067.3	- Brown, slightly shaly sandstone.
1067.3 - 1069.1	- Grayish light brown, laminated, sandy shale.
1069.1 - 1069.6	- Grayish brown, laminated, shaly sandstone.
1069.6 - 1070.2	- Grayish brown, laminated, sandy shale.
1070.2 - 1077.0	- Loss.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company TEC Drilling Company Lease Derringer Well No. 5

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	1060.4	17.0	51	24	75	673	21.	0.3	0.3	202	6.30
2	1061.2	18.0	42	25	67	586	81.	1.0	1.3	586	81.00
3	1063.2	20.0	46	30	76	713	21.	0.6	1.9	428	12.60
4	1064.4	21.3	40	26	66	661	9.5	1.0	2.9	661	9.50
5	1065.3	16.1	48	42	90	599	17.	1.0	3.9	599	17.00
6	1066.4	14.1	29	63	92	317	0.29	0.4	4.3	127	0.12
7	1067.2	16.2	40	54	94	502	9.9	0.3	4.6	151	2.97
8	1069.2	15.0	38	54	92	442	Imp.	0.5	5.1	221	0.00
								Total	-----	2,975	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	TEC Drilling Company	Lease	Derringer	Well No.		
				5		
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	1060.3 - 1065.6	3.9	32.4	126.40		
	1066.2 - 1069.6	0.7	4.4	3.09		
	1060.3 - 1069.6	4.6	28.2	129.49		
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
1060.3 - 1065.6	3.9	18.6	44.3	30.4	635.	2,476
1066.2 - 1069.6	1.2	15.0	35.4	57.0	415	499
1060.3 - 1069.6	5.1	17.9	42.2	36.6	584	2,975