

OILFIELD RESEARCH LABORATORIES

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

November 17, 1967

10-25-106

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 Coffield Lease, Well No. 1, Woodson County, Kansas, and submitted to our laboratory on November 13, 1967.

This core was sampled and the samples sealed in tin cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjo

5 c. - El Dorado, Kansas

Coffield

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company TEC Drilling Co., Inc. Lease Coffield Well No. 1

Location SW, SW, SW

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

Name of Sand	- - - - -	Squirrel
Top of Core	- - - - -	864.0
Bottom of Core	- - - - -	884.0
Top of Sand	- (Received) - - - - -	864.0
Bottom of Sand	- - - - -	881.5
Total Feet of Permeable Sand	- - - - -	17.5
Total Feet of Floodable Sand	- - - - -	-

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 5	3.3	3.3
5 - 10	10.6	13.9
10 & above	3.6	17.5

Average Permeability Millidarcys	- - - - -	7.3
Average Percent Porosity	- - - - -	17.9
Average Percent Oil Saturation	- - - - -	53.9
Average Percent Water Saturation	- - - - -	27.4
Average Oil Content, Bbls./A. Ft.	- - - - -	750.
Total Oil Content, Bbls./Acre	- - - - -	13,106.
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 Coffield Well No. 1

Depth Interval, Description
Feet

864.0 - 879.2 - Dark brown slightly shaly sandstone.

879.2 - 881.5 - Dark brown laminated shaly sandstone.

881.5 - 884.0 - Sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company TEC Drilling Co., Inc. Lease Coffield 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	864.1	17.0	36	34	70	475	5.4	0.6	0.6	284	3.24
2	865.1	18.6	45	29	74	650	7.5	1.0	1.6	650	7.50
3	866.1	18.7	52	24	76	754	9.5	1.0	2.6	754	9.50
4	867.1	18.0	53	24	77	740	12.	1.0	3.6	740	12.00
5	868.1	17.2	63	30	93	841	9.3	1.0	4.6	841	9.30
6	869.1	17.5	57	29	86	774	6.8	1.0	5.6	774	6.80
7	870.1	16.8	48	29	77	626	3.8	1.0	6.6	626	3.80
8	871.1	18.0	52	28	80	726	6.2	1.0	7.6	726	6.20
9	872.1	18.1	57	27	84	800	6.8	1.0	8.6	800	6.80
10	873.1	17.4	55	27	82	742	9.9	1.0	9.6	742	9.90
11	874.1	18.4	51	27	78	728	6.8	1.0	10.6	728	6.80
12	875.1	18.2	59	23	82	833	11.	1.0	11.6	833	11.00
13	876.1	17.1	44	27	71	584	7.7	1.0	12.6	584	7.70
14	877.1	19.2	59	23	82	879	10.	1.0	13.6	879	10.00
15	878.1	17.6	54	28	82	737	6.4	1.0	14.6	737	6.40
16	879.1	18.8	65	22	87	948	10.	0.6	15.2	570	6.00
17	880.1	17.9	62	30	92	861	2.6	1.4	16.6	1202	3.64
18	881.1	17.5	52	32	84	706	0.92	0.9	17.5	636	0.83

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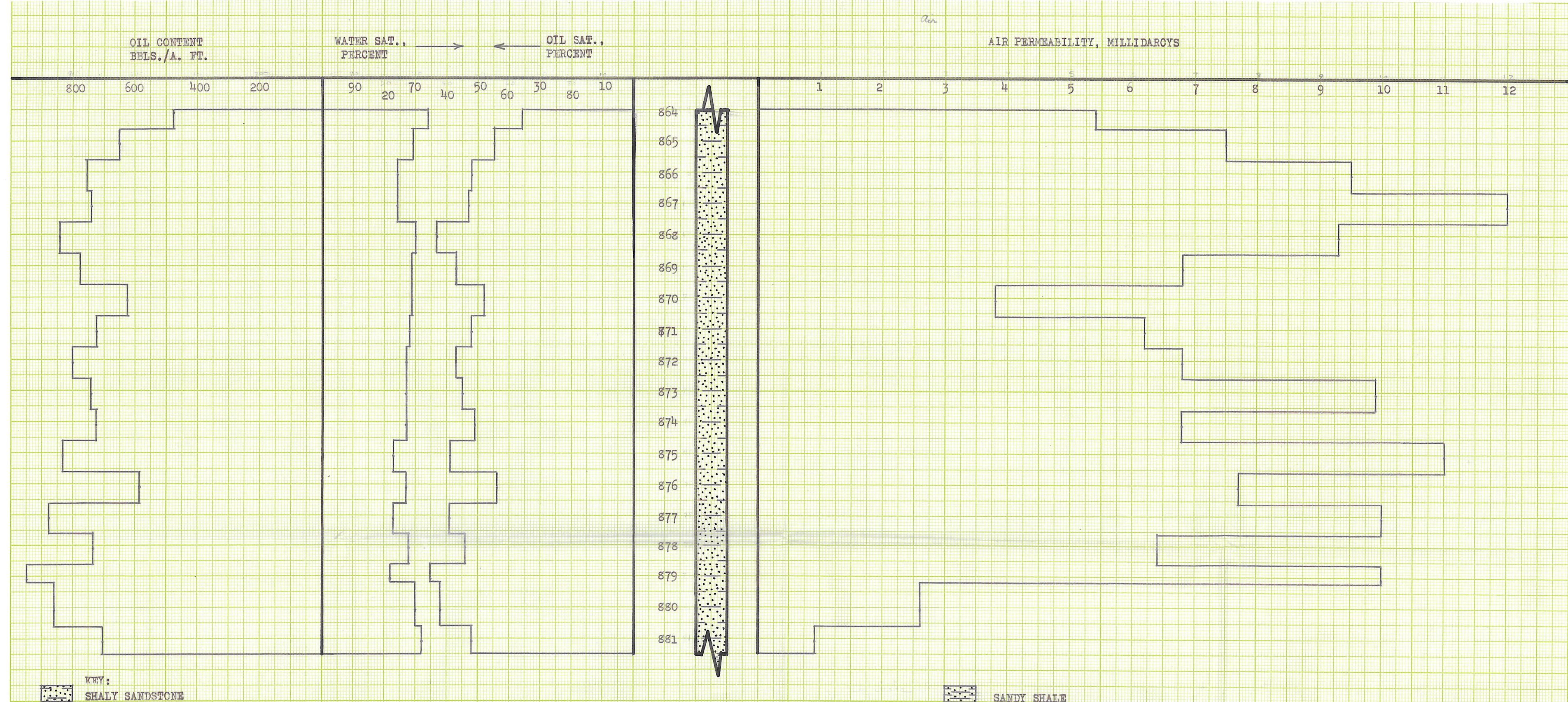
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company TEC Drilling Company, Inc. Lease Coffield Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
864.0 - 874.6	10.6	7.7	81.84
874.6 - 881.5	6.9	6.6	45.57
864.0 - 881.5	17.5	7.3	127.41

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
864.0 - 874.6	10.6	17.8	52.3	27.8	723	7,665.
874.6 - 881.5	6.9	18.0	56.3	26.8	789	5,441.
864.0 - 881.5	17.5	17.9	53.9	27.4	750	13,106.



TEC DRILLING COMPANY, INCORPORATED

COFFIELD LEASE
WOODSON COUNTY, KANSAS
WELL NO. 1

DEPTH INTERVAL FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BLS./A. FT.	TOTAL OIL CONTENT BLS./ACRE	AVG. AIR PERMEABILITY MILLIDARCYS
864.0 - 874.6	10.6	17.8	52.3	27.8	723	7,665	7.7
874.6 - 881.5	6.9	18.0	56.3	26.8	789	5,441	6.6
864.0 - 881.5	17.5	17.9	53.9	27.4	750	13,106	7.3

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CHANUTE, KANSAS
NOVEMBER, 1967