



OILFIELD RESEARCH LABORATORIES

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

November 15, 1978

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 Smith Lease, Well No. 4, Woodson County, Kansas, and submitted to our laboratory on November 7, 1978.

This core was sampled and the samples 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:cb
4 c to El Dorado, Kansas
1 c to Yates Center, Kansas

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- LOG -

Company TEC Drilling Co., Inc. Lease Tom Smith Well No. 4

<u>Depth Interval, Feet</u>	<u>Description</u>
887.0 - 888.0	Brown shaly sandstone.
888.0 - 888.3	Gray sandy shale.
888.3 - 900.6	Brown to dark brown laminated shaly sandstone.
900.6 - 902.0	Gray and light brown laminated sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company TEC Drilling Company, Inc. Lease Tom Smith Well No. 4

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 ind.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	889.2	14.5	40.	46.	86	449	Imp.	1.7	1.7	764	0.00
2	892.2	15.3	40	43	83	474	9.2	2.0	3.7	948	18.40
3	893.5	16.8	56	25	81	729	14.	2.0	5.7	1458	28.00
4	894.5	17.1	42	36	78	556	7.5	1.0	6.7	556	7.50
5	895.5	15.6	52	30	82	629	5.4	1.0	7.7	629	5.40
6	896.3	15.8	58	30	88	711	8.2	1.0	8.7	711	8.20
7	897.9	16.9	58	28	86	760	11.	1.5	10.2	1140	16.50
8	899.5	16.2	65	26	91	817	5.8	2.1	12.3	1718	12.18

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company TEC Drilling Company, Inc. Lease Tom Smith Well No. 4

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
888.3 - 900.6	10.6	9.1	96.18

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
888.3 - 900.6	12.3	16.0	51.7	33.0	644	7,924