

OILFIELD RESEARCH LABORATORIES

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

October 1, 1980

Tec Drilling Co., 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 K. Stockebrand Lease, Well No. 9, Woodson County, Kansas and submitted to our laboratory on August 7, 1980.

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



Sanford A. Michel

SAM/ks

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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Tec Drilling Co., Inc. Lease K. Stockebrand Well No. 9
 Location NW NE SE
 Section 17 Twp. 25S Rge. 16E County Woodson State Kansas

Elevation, Feet	
Name of Sand	Lower Squirrel
Top of Core	921.0
Bottom of Core	929.4
Top of Sand	921.0
Bottom of Sand	929.4
Total Feet of Permeable Sand	8.4

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 2	2.8	2.8
10 - 15	1.0	3.8
35 & Above	4.6	8.4

Average Permeability Millidarcys	25.9
Average Percent Porosity	16.9
Average Percent Oil Saturation	46.7
Average Percent Water Saturation	32.1
Average Oil Content, Bbls./A. Ft.	636.
Total Oil Content, Bbls./Acre	5,343.

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LOGName Tec Drilling Co., Inc. Lease K. Stockebrand Well No. 9

<u>Depth Interval, Feet</u>	<u>Description</u>
921.0 - 921.6	Brown and gray laminated slightly calcareous sandstone and shale.
921.6 - 924.1	Dark brown slightly calcareous sandstone.
924.1 - 927.6	Brown and gray laminated slightly calcareous sandstone and shale.
927.6 - 929.4	Brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Tec. Drilling Co., Inc. Lease K. Stockebrand Well No. 9

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	921.5	14.6	56	25	81	634	52.	0.6	0.6	380	31.20
2	922.5	17.5	58	19	77	787	46.	1.0	1.6	787	46.00
3	923.5	21.1	58	15	73	949	47.	1.5	3.1	1424	70.50
4	924.5	17.7	45	24	69	618	36.	1.5	4.6	927	54.00
5	926.5	18.8	60	17	77	875	14.	1.0	5.6	875	14.00
6	927.5	15.6	48	36	84	581	0.27	1.0	6.6	581	0.27
7	928.5	12.6	21	69	90	205	1.1	1.8	8.4	369	1.98

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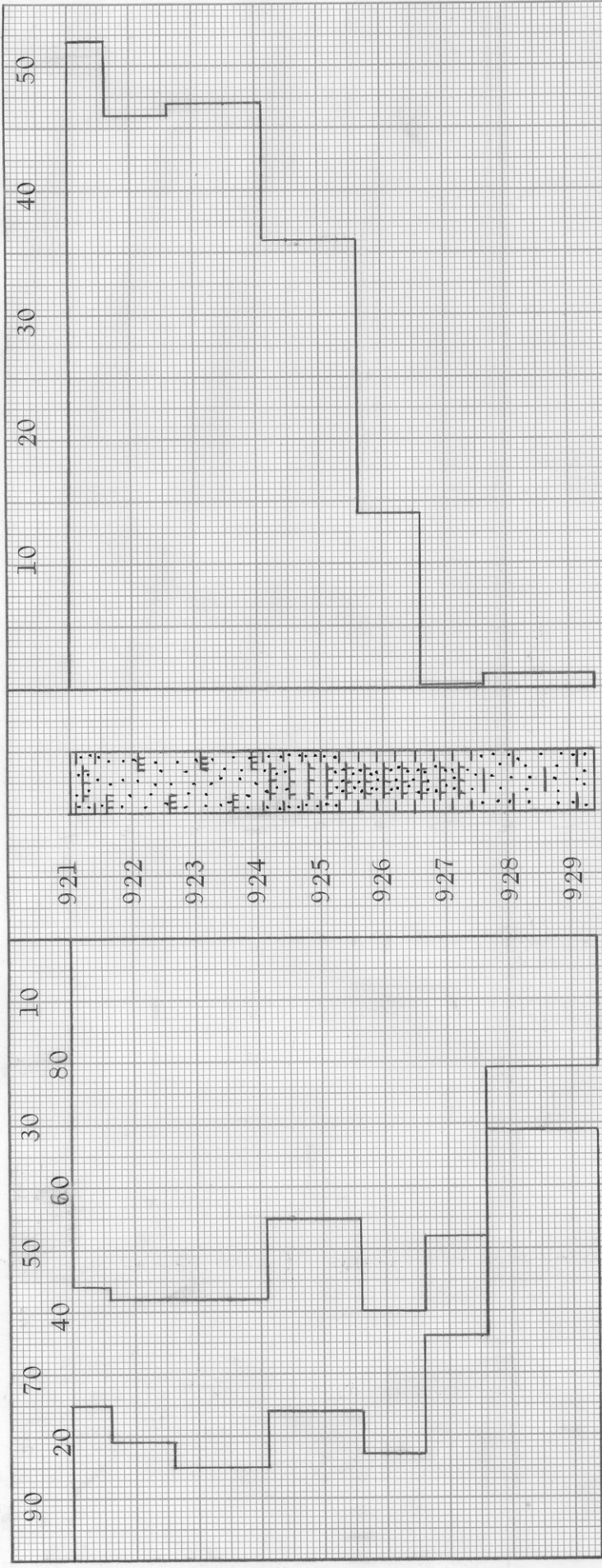
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease		Well No.		9
Tec Drilling Co., Inc.		K. Stockebrand				
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
921.0 - 929.4	8.4	25.9	217.95			
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 Bbbl./Acre
921.0 - 929.4	8.4	16.9	46.7	32.1	636	5,343

WATER SAT., PERCENT → OIL SAT., PERCENT ←

— PERMEABILITY, IN MILLIDARCY



KEY:

LAMINATED

CALCAREOUS SANDSTONE & SHALE

SHALY SANDSTONE

CALCAREOUS SANDSTONE

TEC DRILLING COMPANY, INC.

K. STOCKEBRAND LEASE

WELL NO. 119 NO. 9

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE	AVG. OIL	AVG. WATER	AVERAGE
		POROSITY PERCENT	SATURATION PERCENT	SATURATION PERCENT	PERMEABILITY MILLIDARCYs
921.0 - 929.4	8.4	16.9	46.7	32.1	25.9

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CHANUTE, KANSAS
SEPTEMBER, 1980

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