

OILFIELD RESEARCH LABORATORIES

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

March 13, 1980

TECH American Kansas, Incorporated
P.O. Box 467
Moran, Kansas 66755

Gentlemen:

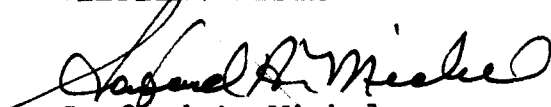
Enclosed herewith are the results of tests run on the rotary core taken from the Ermel Lease, Well No. 15, Bourbon County, Kansas, and submitted to our laboratory on March 4, 1980.

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/tem
5 c to Moran, Kansas

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GENERAL INFORMATION & SUMMARY

Company TECH American Kansas, Inc. Lease Ermel Well No. 15

Location 150' FSL & 150' FEL NW $\frac{1}{4}$

Section 8 Twp. 24S Rge. 22E County Bourbon State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

848.5

Bottom of Core

857.0

Top of Sand

848.5

Bottom of Sand

855.6

Total Feet of Permeable Sand

6.9

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 16

1.8

1.8

25 - 45

3.3

5.1

55 & Above

1.8

6.9

Average Permeability Millidarcys

34.7

Average Percent Porosity

16.9

Average Percent Oil Saturation

36.4

Average Percent Water Saturation

36.5

Average Oil Content, Bbls./A. Ft.

478.

Total Oil Content, Bbls./Acre

3,300.

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LOG

Name TECH American Kansas, Inc. Lease Ermek Well No. 15

<u>Depth Interval, Feet</u>	<u>Description</u>
848.5 - 849.3	Brown sandstone.
849.3 - 849.5	Light brown shaly sandstone.
849.5 - 850.0	Dark brown sandstone.
850.0 - 852.0	Brown broken shaly sandstone.
852.0 - 855.3	Dark brown sandstone.
855.3 - 855.6	Brown carbonaceous shaly sandstone.
855.6 - 857.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company TECH American Kansas, Incorporated Lease Ermel 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	848.6	16.3	45	45	90	569	62.	0.8	0.8	455	49.60
2	849.6	15.3	38	43	81	451	56.	1.0	1.8	451	56.00
3	851.5	17.4	29	44	73	392	15.	1.5	3.3	588	22.50
4	852.5	18.6	44	41	85	635	35.	1.0	4.3	635	35.00
5	853.5	16.5	31	21	52	397	40.	1.0	5.3	397	40.00
6	854.5	17.3	39	27	66	523	26.	1.3	6.6	680	33.80
7	855.5	15.0	27	32	59	314	8.9	0.3	6.9	94	2.67

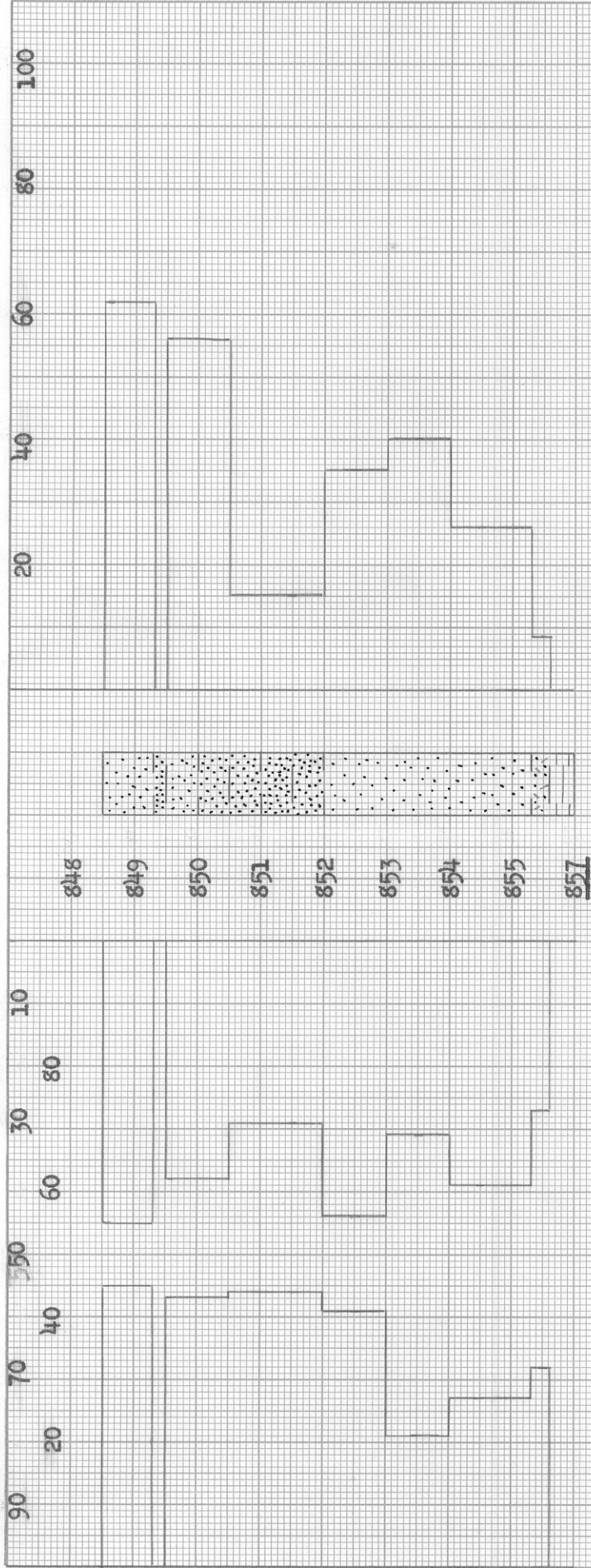
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		TECH American Kansas, Incorporated		Lease	Ernel	Well No.		15
Depth Interval, Feet		Depth Interval, Feet	Feet of Core Analyzed		Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.	
848.5 - 855.6		848.5 - 855.6	6.9		34.7		239.57	
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 Bbl./Acre
848.5 - 855.6		6.9	16.9	36.4	36.5		478	3,300

WATER SAT., PERCENT OIL SAT., PERCENT PERMEABILITY, IN MILLIDARCYS



KEY:

- SANDSTONE
- CARBONACEOUS SHALY SANDSTONE
- SHALY SANDSTONE
- SHALE

TECH AMERICAN KANSAS, INC.

PERMIT LEASE BOURBON COUNTY, KANSAS WELL NO. 15

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
848.5 - 855.6	6.9	16.9	36.4	36.5	34.7