

OILFIELD RESEARCH LABORATORIES

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

August 28, 1980

Hillenburg Oil Company
P. O. Box 94
Bronson, Kansas 66716

Gentlemen:

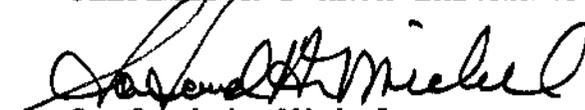
Enclosed herewith are the results of tests run on the rotary core taken from the Humphrey Lease, Well No. 48, Bourbon County, Kansas and submitted to our laboratory on July 22, 1980.

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

5 c to Bronson, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Hillenburg Oil Company Lease Humphrey Well No. 48
 Location ---
 Section 36 Twp. 24S Rge. 21E County Bourbon State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	680.0
Bottom of Core	688.7
Top of Sand	680.0
Bottom of Sand	686.6
Total Feet of Permeable Sand	6.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 30	3.8	3.8
45 & Above	2.8	6.6

Average Permeability Millidarcys	49.5
Average Percent Porosity	17.9
Average Percent Oil Saturation	39.5
Average Percent Water Saturation	41.2
Average Oil Content, Bbls./A. Ft.	548.
Total Oil Content, Bbls./Acre	3,619.

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LOGName Hillenburg Oil Company Lease Humphrey Well No. 48

<u>Depth Interval, Feet</u>	<u>Description</u>
680.0 - 683.8	Brown sandstone.
683.8 - 686.6	Dark brown sandstone.
686.6 - 688.7	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

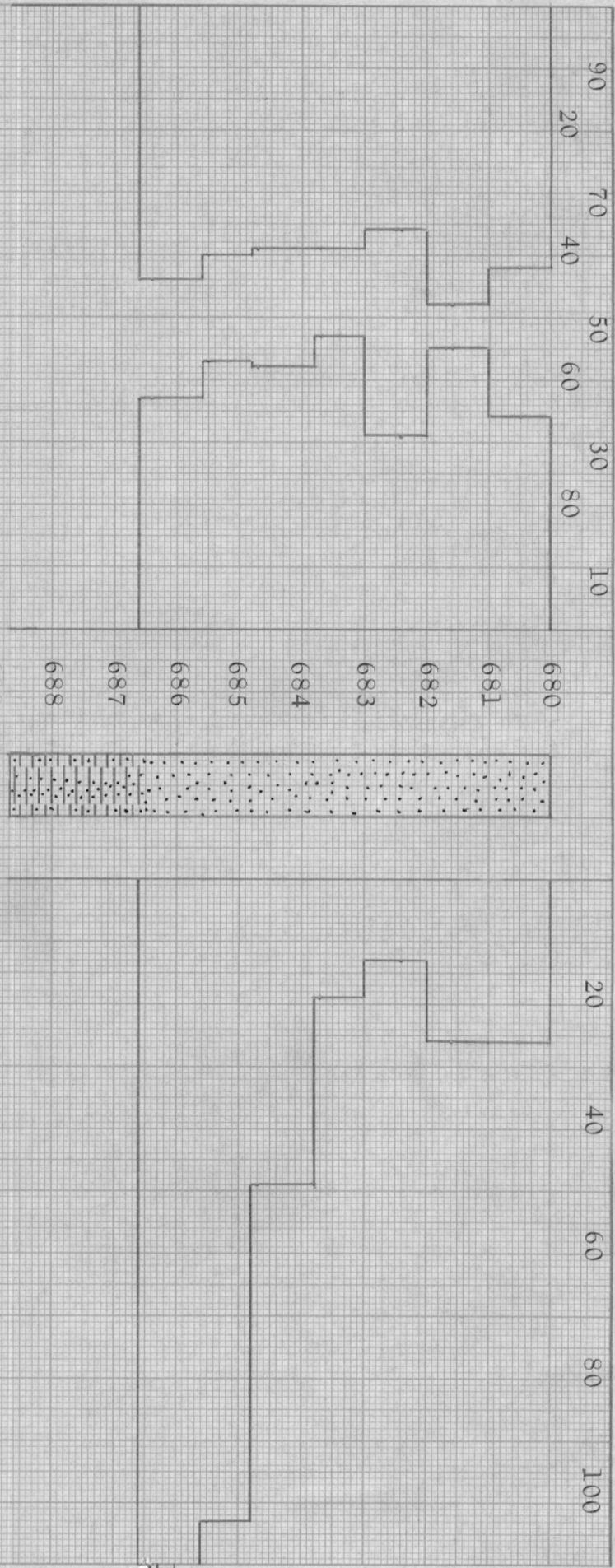
TABLE 1-B

Company Hillenburg Oil Company Lease Humphrey Well No. 48

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Band		Total Oil Content	Perm. Capacity Ft. X Ft.
			Oil	Water			Total	Ft.		
1	680.5	18.6	34	42	491	26.	1.0	1.0	491	26.00
2	681.6	16.1	45	48	562	26.	1.0	2.0	562	26.00
3	682.4	19.0	31	36	457	13.	1.0	3.0	457	13.00
4	683.7	19.1	47	39	696	19.	0.8	3.8	557	15.20
5	684.7	18.3	42	39	596	49.	1.0	4.8	596	49.00
6	685.5	17.0	43	40	567	103.	0.8	5.6	454	82.40
7	686.4	17.5	37	44	502	115.	1.0	6.6	502	115.00

WATER SAT., ———→ OIL SAT., ———→
PERCENT PERCENT

————— PERMEABILITY, IN MILLIDARCYS



KEY:

□ SANDSTONE

▨ SANDY SHALE

HILLENBURG OIL COMPANY

HUMPHREY LEASE
BOURBON COUNTY, KANSAS
WELL NO. 48

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCYS
680.0 - 686.6	6.6	17.9	39.5	41.2	49.5