

# OILFIELD RESEARCH LABORATORIES

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

October 22, 1980

Hillenburg Oil Company  
Box 94  
Bronson, Kansas 66716

Gentlemen:

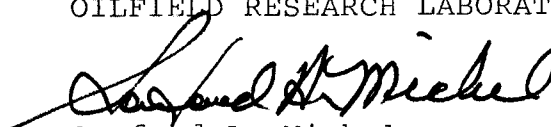
Enclosed herewith are the results of tests run on the rotary core taken from the Ermel D Lease, Well No. 10, Bourbon County, Kansas, and submitted to our laboratory on September 10, 1980.

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 Bronson, Kansas

T245 R22E, Sec. 7

**Oilfield Research Laboratories**  
**GENERAL INFORMATION & SUMMARY**

Company Hillenburg Oil Company Lease Ermel D Well No. 10  
 Location -  
 Section - Twp. - Rge. - County Bourbon State Kansas

Elevation, Feet . . . . .	
Name of Sand . . . . .	
Top of Core . . . . .	660.0
Bottom of Core . . . . .	675.0
Top of Sand . . . . .	660.0
Bottom of Sand . . . . .	675.0
Total Feet of Permeable Sand . . . . .	14.4

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 50	1.7	1.7
50 - 100	2.3	4.0
100 - 150	2.0	6.0
150 - 200	2.4	7.4
200 & Above	7.0	14.4

Average Permeability Millidarcys . . . . .	197.0
Average Percent Porosity . . . . .	20.8
Average Percent Oil Saturation . . . . .	42.7
Average Percent Water Saturation . . . . .	46.9
Average Oil Content, Bbls./A. Ft. . . . .	681.
Total Oil Content, Bbls./Acre . . . . .	10,221.

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LOGName Hillenburg Oil Company Lease Ermel D Well No. 10Depth Interval,  
FeetDescription

660.0 - 670.4	Brown slightly calcareous sandstone.
670.4 - 671.7	Brown and gray laminated slightly calcareous sandstone and shale.
671.7 - 675.0	Brown slightly calcareous sandstone.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE I-B**

Company Hillenburg Oil Company Lease Ermel D Well No. 10

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	660.5	20.8	22	71	93	355	115.	1.0	1.0	355	115.00
2	661.5	22.2	21	67	88	362	392	1.0	2.0	362	392.00
3	662.5	20.9	30	60	90	486	241.	1.0	3.0	486	241.00
4	663.5	18.9	60	35	95	880	148.	1.0	4.0	880	148.00
5	664.5	20.8	40	37	77	646	221.	1.0	5.0	646	221.00
6	665.5	21.4	31	59	90	515	384.	1.0	6.0	515	384.00
7	666.5	17.5	60	37	97	815	53.	1.0	7.0	815	53.00
8	667.5	19.9	50	48	98	772	188.	1.0	8.0	772	188.00
9	668.5	21.8	46	41	87	778	27.	1.0	9.0	778	27.00
10	669.5	19.9	46	39	85	710	200.	1.4	10.4	994	280.00
11	670.5	15.1	57	35	92	668	Imp.	0.6	11.0	401	00.00
12	671.5	19.6	50	40	90	760	7.2	0.7	11.7	532	5.04
13	672.5	23.4	41	51	92	744	78.	1.3	13.0	967	101.40
14	673.5	23.0	47	36	83	839	415.	1.0	14.0	839	415.00
15	674.5	24.1	47	43	90	879	266.	1.0	15.0	879	266.00

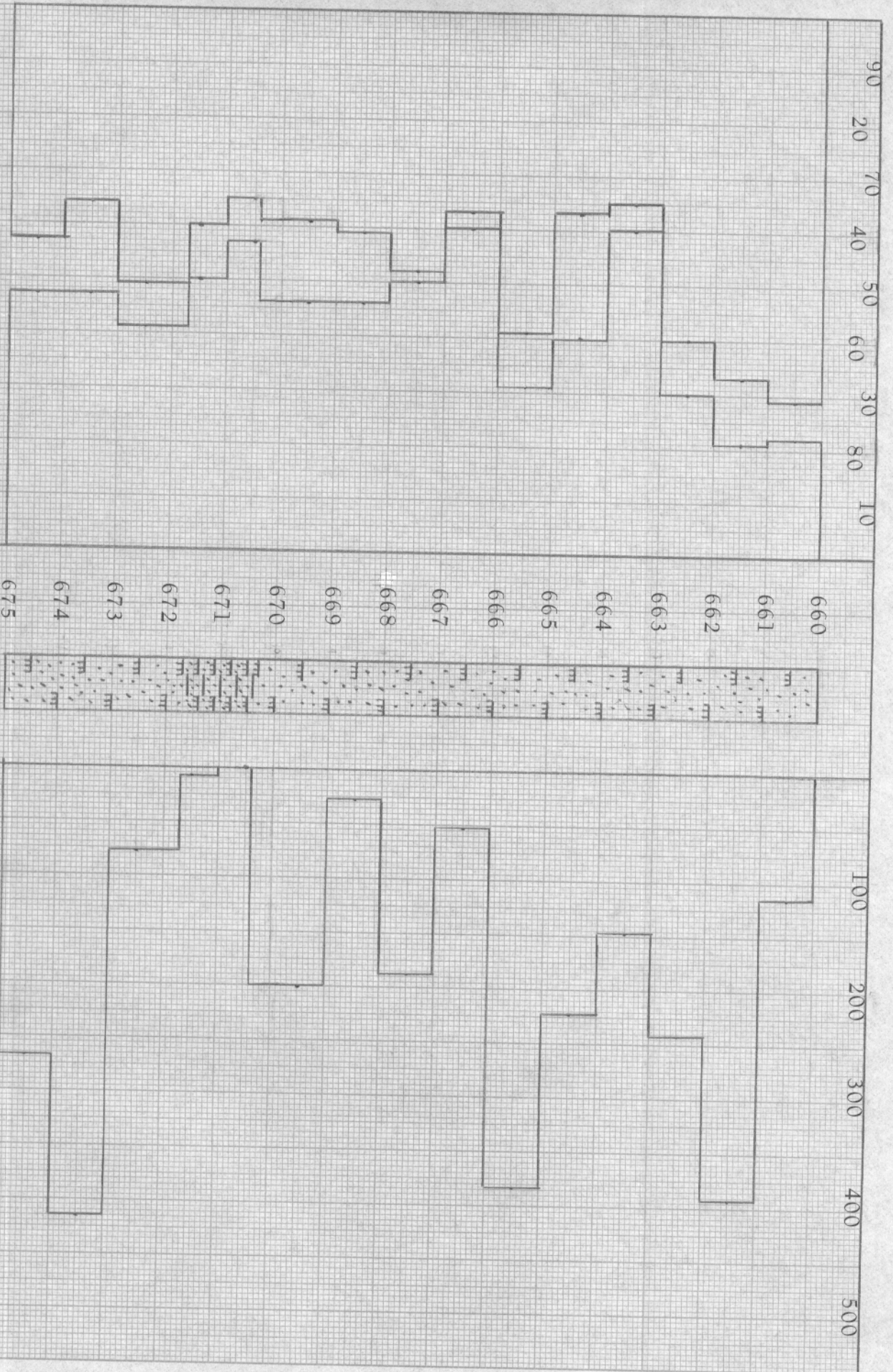


WATER SAT., PERCENT  
OIL SAT., PERCENT

K&M 10 0-10 TO THE CENTIMETER • 2 1/2 X 3 1/2 CM  
KEUPPEL & ESSER CO. MADE IN U.S.A.

47 1512

PERMEABILITY, IN MILLIDARCY



KEY:

Calcareous Sandstone

Laminated Calcareous Sandstone and Shale



CALCAREOUS SANDSTONE



LAMINATED CALCAREOUS SANDSTONE AND SHALE

# HILLENBURG OIL COMPANY

ERMEL D LEASE

BOURBON COUNTY, KANSAS

WELL NO. 10

DEPTH INTERVAL FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY
660.0 - 675.0	15.0	20.8	42.7	46.9	197.0

OILFIELD RESEARCH LABORATORIES  
 CHANUTE, KANSAS  
 OCTOBER, 1980

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