



OILFIELD RESEARCH LABORATORIES

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

September 22, 1980

Hillenburg Oil Company
Box 94
Bronson, Kansas 66716

Gentlemen:

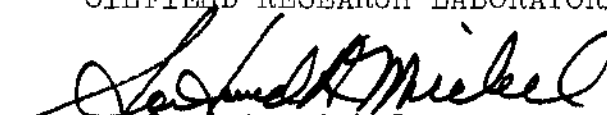
Enclosed herewith are the results of tests run on the rotary core taken from the Humphrey Lease, Well No. 50, Bourbon County, Kansas, and submitted to our laboratory on July 25, 1980.

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

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GENERAL INFORMATION & SUMMARY

Company Hillenburg Oil Company Lease Humphrey Well No. 50

Location -

Section 36 Twp. 24S Rge. 21E County Bourbon State Kansas

Elevation, Feet

Name of Sand Bartlesville

Top of Core 679.0

Bottom of Core 685.0

Top of Sand 679.0

Bottom of Sand 685.0

Total Feet of Permeable Sand 6.0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 4 5.0 5.0

25 & Above 1.0 6.0

Average Permeability Millidarcys 6.1

Average Percent Porosity 20.8

Average Percent Oil Saturation 39.4

Average Percent Water Saturation 56.0

Average Oil Content, Bbls./A. Ft. 588.

Total Oil Content, Bbls./Acre 3,530.

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LOG

Name Hillenburg Oil Co. Lease Humphrey Well No. 50

<u>Depth Interval, Feet</u>	<u>Description</u>
679.0 - 681.6	Grayish brown slightly shaly sandstone.
681.6 - 683.3	Grayish brown very shaly sandstone.
683.3 - 684.0	Grayish brown slightly shaly sandstone.
684.0 - 685.0	Grayish brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Hillenburg Oil Company Lease Humphrey Well No. 50

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	679.5	12.6	59	38	97	577	2.5	1.0	1.0	577	2.50
2	680.5	22.2	46	47	93	792	3.7	1.0	2.0	792	3.70
3	681.5	13.7	58	39	97	617	2.7	0.6	2.6	370	1.62
4	682.5	22.8	31	62	93	548	0.56	1.7	4.3	932	0.95
5	683.5	26.2	21	76	97	427	2.6	0.7	5.0	299	1.82
6	684.5	24.9	29	69	98	560	26.	1.0	6.0	560	26.00

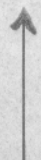
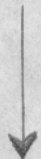
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Hillenburt Oil Company		Lease	Humphrey		Well No.	50
	Depth Interval, Feet	Feet of Core Analyzed		Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.	
	679.0 - 685.0	6.0		6.1		36.59	
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	
679.0 - 685.0	6.0	20.8	39.4	56.0	588	3,530	

WATER SAT.,
PERCENT

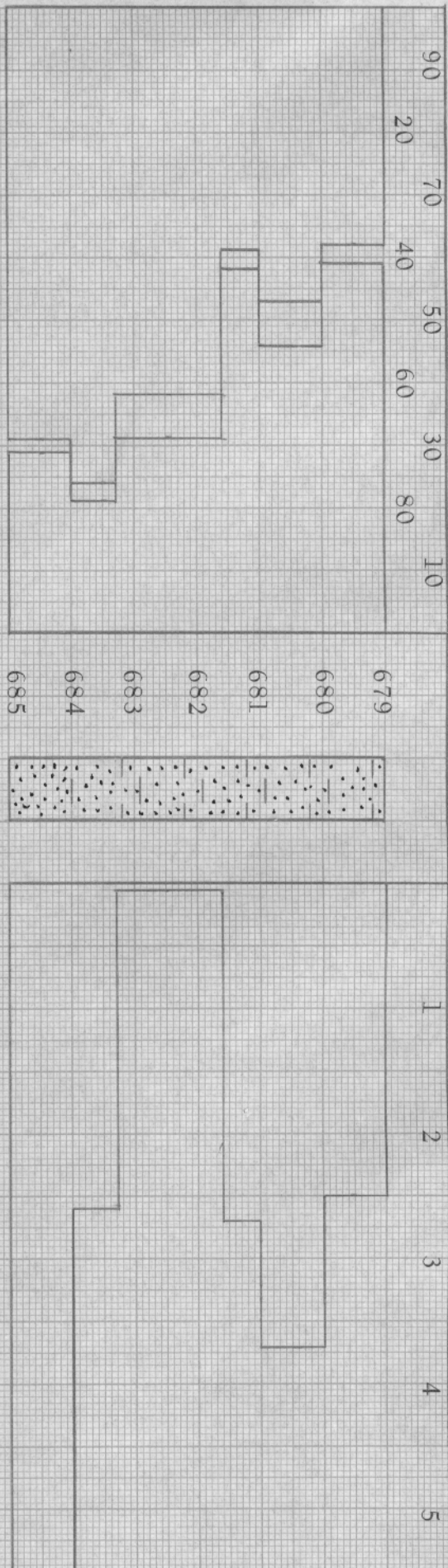


OIL SAT.,
PERCENT

K&E 10 X 10 O. THE CENTIMETER #25 X 38 CM.
KEUFFEL & ESSER CO. MADE IN U.S.A.

47 1512

PERMEABILITY IN MILLIDARCS



KEY:



SHALY SANDSTONE



SANDSTONE

HILLENBURG OIL COMPANY

HUMPHREY LEASE

BOURBON COUNTY, KANSAS

WELL NO. 50

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCS
679.0 - 685.0	6.0	20.8	39.4	56.0	6.1

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CHANUTE, KANSAS
SEPTEMBER, 1980