

OILFIELD RESEARCH LABORATORIES

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

April 9, 1980

Hillenburg Oil Company
116th Street & South Lynn Lane Road
Broken Arrow, Oklahoma 74012

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Woodward "B" Lease, Well No. 10, Bourbon County, Kansas, and submitted to our laboratory on March 27, 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

3 c to Broken Arrow, Oklahoma

2 c to Bronson, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Hillenburg Oil Company Lease Woodward "B" Well No. 10
 Location 165' NSL & 600' EWL SW $\frac{1}{2}$
 Section 31 Twp. 24S Rge. 22E County Bourbon State Kansas

Elevation, Feet	Bartlesville
Name of Sand	680.0
Top of Core	699.1
Bottom of Core	680.0
Top of Sand	698.4
Bottom of Sand	16.3
Total Feet of Permeable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 0.50	6.0	6.0
0.50 - 1.0	5.3	11.3
1.0 - 5.0	3.1	14.4
5.0 & Above	1.9	16.3

Average Permeability Millidarcys	2.4
Average Percent Porosity	14.5
Average Percent Oil Saturation	27.4
Average Percent Water Saturation	62.2
Average Oil Content, Bbls./A. Ft.	310.
Total Oil Content, Bbls./Acre	5,699.

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LOG

Name Hillenburg Oil Co. Lease Woodward "B" Well No. 10

Depth Interval,
Feet

Description

680.0 - 680.9

Brown sandstone.

680.9 - 694.8

Grayish brown shaly sandstone.

694.8 - 696.3

Brown calcareous sandstone.

696.3 - 698.4

Brown shaly sandstone.

698.4 - 699.1

Gray sandy shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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	680.5	17.6	31	41	72	423	21.	0.9	0.9	381	18.90
2	681.5	17.4	36	53	65	486	4.7	1.1	2.0	535	5.17
3	682.5	16.6	29	56	85	374	0.92	1.0	3.0	374	0.92
4	683.5	16.2	32	53	85	402	0.41	1.0	4.0	402	0.41
5	684.5	15.0	28	60	88	326	0.53	1.0	5.0	326	0.53
6	685.5	14.6	18	73	91	204	0.49	1.0	6.0	204	0.49
7	686.5	14.9	30	60	90	347	0.42	1.0	7.0	347	0.42
8	687.5	15.5	29	63	92	349	1.0	1.0	8.0	349	1.00
9	688.3	16.2	31	61	92	390	0.68	1.0	9.0	390	0.68
10	689.2	14.6	19	73	92	215	1.0	1.0	10.0	215	1.00
11	690.2	15.7	18	70	88	219	0.61	0.5	10.5	109	0.31
12	690.8	15.1	25	67	92	293	0.71	1.3	11.8	381	0.92
13	692.5	14.9	16	81	97	185	Imp.	1.0	12.8	185	0.00
14	693.1	14.6	29	65	94	329	0.36	1.0	13.8	329	0.36
15	693.9	17.5	30	51	81	407	7.4	1.0	14.8	407	7.40
16	695.0	18.0	32	49	81	447	0.87	0.5	15.3	224	0.44
17	696.0	9.2	38	56	94	271	0.25	1.0	16.3	271	0.25
18	696.9	6.9	25	70	95	134	Imp.	1.1	17.4	147	0.00
19	697.9	7.2	22	74	96	123	0.43	1.0	18.4	123	0.43

Company Hillenburger Oil Company

Lease

Woodward "B"

Well No.

10

SUMMARY OF PERMEABILITY & SATURATION TESTS

Company	Hillenburg Oil Company
Lease	Woodward "B"
Well No.	10

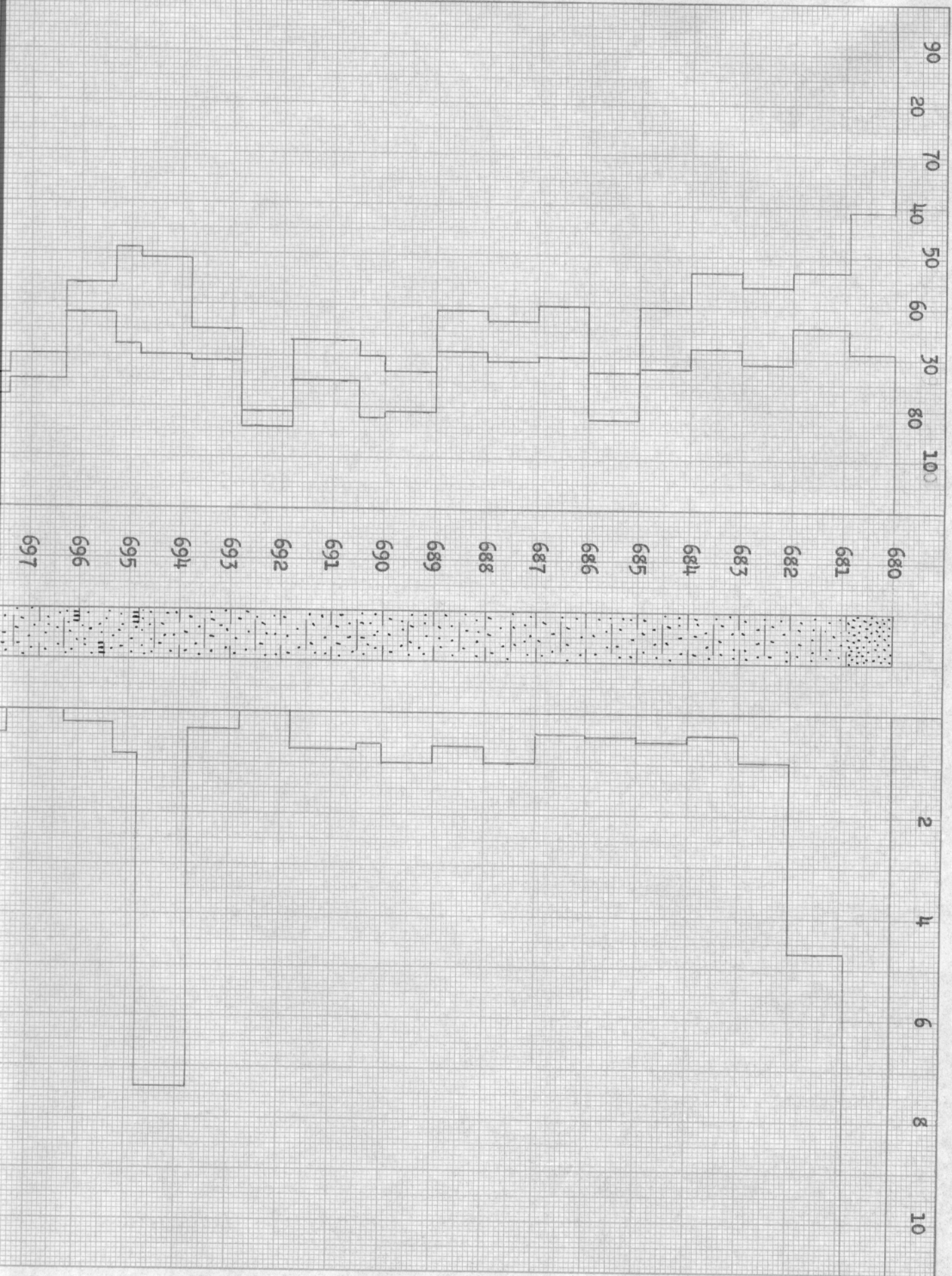
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbl./Acre
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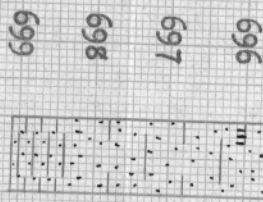
680.0	-	698.4	18.4	27.4	62.2	310	5,699
			14.5				

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCY





KEY:

 SANDSTONE
 CALCAREOUS SANDSTONE

 SHALEY SANDSTONE
 SANDY SHALE

HILLENBURG OIL COMPANY

WOODWARD "B" LEASE

BOURBON COUNTY, KANSAS

WELL NO. 510

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
680.0 - 698.4	18.4	14.5	27.4	62.2	2.4

OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 APRIL, 1980.
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