

# OILFIELD RESEARCH LABORATORIES

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

January 11, 1980

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

Gentlemen:

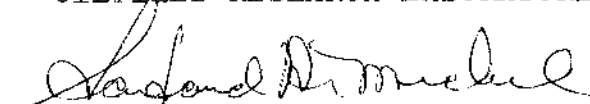
Enclosed herewith are the results of tests run on the rotary core taken from the Woodward "B" Lease, Well No. 8, Bourbon County, Kansas, and submitted to our laboratory on December 17, 1979.

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

7245, R322

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## GENERAL INFORMATION & SUMMARY

Company Hillenburg Oil Company Lease Woodward "B" Well No. 8

Location \_\_\_\_\_

Section \_\_\_\_\_ Twp \_\_\_\_\_ Rge \_\_\_\_\_ County Bourbon State Kansas

Elevation, Feet - - - - -

Name of Sand - - - - - Tucker

Top of Core - - - - - 684.0

Bottom of Core - - - - - 693.0

Top of Sand - - - - - 684.3

Bottom of Sand - - - - - 691.0

Total Feet of Permeable Sand - - - - - 6.7

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:  
Permeability Range  
Millidarcys

Feet

Cum. Ft.

0 - 15

2.7

2.7

15 - 35

2.0

4.7

45 & Above

2.0

6.7

Average Permeability Millidarcys - - - - -

32.5

Average Percent Porosity - - - - -

12.0

Average Percent Oil Saturation - - - - -

61.1

Average Percent Water Saturation - - - - -

32.9

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

581.

Total Oil Content, Bbls./Acre - - - - -

3,892.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -

Total Calculated Oil Recovery, Bbls./Acre - - - - -

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LOG

Name Hillenburg Oil Company Lease Woodward "B" Well No. 8

<u>Depth Interval, Feet</u>	<u>Description</u>
684.0 - 684.3	Gray sandy shale.
684.3 - 685.0	Brown shaly sandstone containing a vertical fracture.
685.0 - 689.9	Dark brown calcareous sandstone containing a vertical fracture.
689.9 - 691.0	Brown slightly shaly slightly calcareous sandstone.
691.0 - 693.0	Gray shale.

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**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE I-B**

Company Hillenburg Oil Company Lease Woodward "B" Well No. 8

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	684.5	14.2	64	34	98	705	3.0	0.7	0.7	494	2.10
2	685.3	8.1	40	51	91	251	97.	1.0	1.7	251	97.00
3	686.3	7.6	60	38	98	354	19.	1.0	2.7	354	19.00
4	687.7	12.4	72	25	97	693	49.	1.0	3.7	693	49.00
5	688.5	11.8	70	23	93	641	30.	1.0	4.7	641	30.00
6	689.2	15.5	76	21	97	914	12.	0.9	5.6	823	10.80
7	690.2	15.2	49	37	86	578	9.0	1.1	6.7	636	9.90

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Hillenburg Oil Company Lease Woodward "B" Well No. 8

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
684.3 - 691.0	6.7	32.5	217.80

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
684.3 - 691.0	6.7	12.0	61.1	32.9	581	3,892