

OILFIELD RESEARCH LABORATORIES

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

March 5, 1981

Diamond B Industries
R R # 1
Paola, Kansas 66071

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Henning Lease, Well No. DH-7, located in Miami County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on February 21, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

1 c to Paola, Kansas
4 c to Pierre, South Dakota

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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GENERAL INFORMATION & SUMMARY

Company Diamond B Industries Lease Henning Well No. DH-7
 Location NE $\frac{1}{4}$
 Section 23 Twp. 16S Rgs. 21E County Miami State Kansas

Elevation, Feet	-
Name of Sand	Upper Squirrel
Top of Core	660.0
Bottom of Core	679.5
Top of Sand	660.0
Bottom of Sand	676.6
Total Feet of Permeable Sand	3.8

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	3.8	3.8

Average Permeability Millidarcys	3.8
Average Percent Porosity	15.5
Average Percent Oil Saturation	24.5
Average Percent Water Saturation	62.0
Average Oil Content, Bbls./A. Ft.	378.
Total Oil Content, Bbls./Acre	6,282.

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LOG

Name Diamond B Industries Lease Henning Well No. DH-7

<u>Depth Interval, Feet</u>	<u>Description</u>
660.0 - 661.4	Light brown shaly sandstone.
661.4 - 661.9	Light brown slightly shaly sandstone.
661.9 - 664.1	Light brown shaly sandstone.
664.1 - 665.0	Grayish light brown shaly sandstone.
665.0 - 670.3	Light brown shaly sandstone.
670.3 - 676.6	Grayish light brown shaly sandstone.
676.6 - 679.5	Gray sandy shale.

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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	660.5	20.8	26	35	61	420	3.8	1.4	588	5.32	
2	661.5	19.3	33	38	71	494	7.8	0.5	247	3.90	
3	662.4	19.9	33	32	65	510	4.4	1.0	510	4.40	
4	663.5	15.3	39	55	94	463	Imp.	1.2	556	0.00	
5	664.8	20.8	18	42	60	291	0.78	0.9	262	0.70	
6	665.5	14.5	44	54	98	495	Imp.	1.0	495	0.00	
7	666.5	11.0	35	60	95	299	Imp.	1.0	299	0.00	
8	667.6	13.4	29	56	85	301	Imp.	1.0	301	0.00	
9	668.7	13.8	28	69	97	300	Imp.	1.0	300	0.00	
10	669.8	14.7	18	78	96	205	Imp.	1.3	346	0.00	
11	670.8	14.5	12	79	91	135	Imp.	1.0	135	0.00	
12	671.5	14.2	18	79	97	198	Imp.	1.0	198	0.00	
13	672.5	14.1	4	49	54	44	Imp.	1.0	44	0.00	
14	674.5	11.5	20	71	91	178	Imp.	1.7	303	0.00	
15	676.5	13.1	15	79	94	152	Imp.	1.6	243	0.00	

Diamond B Industries

Lease Henning

Well No. DH-7

Company

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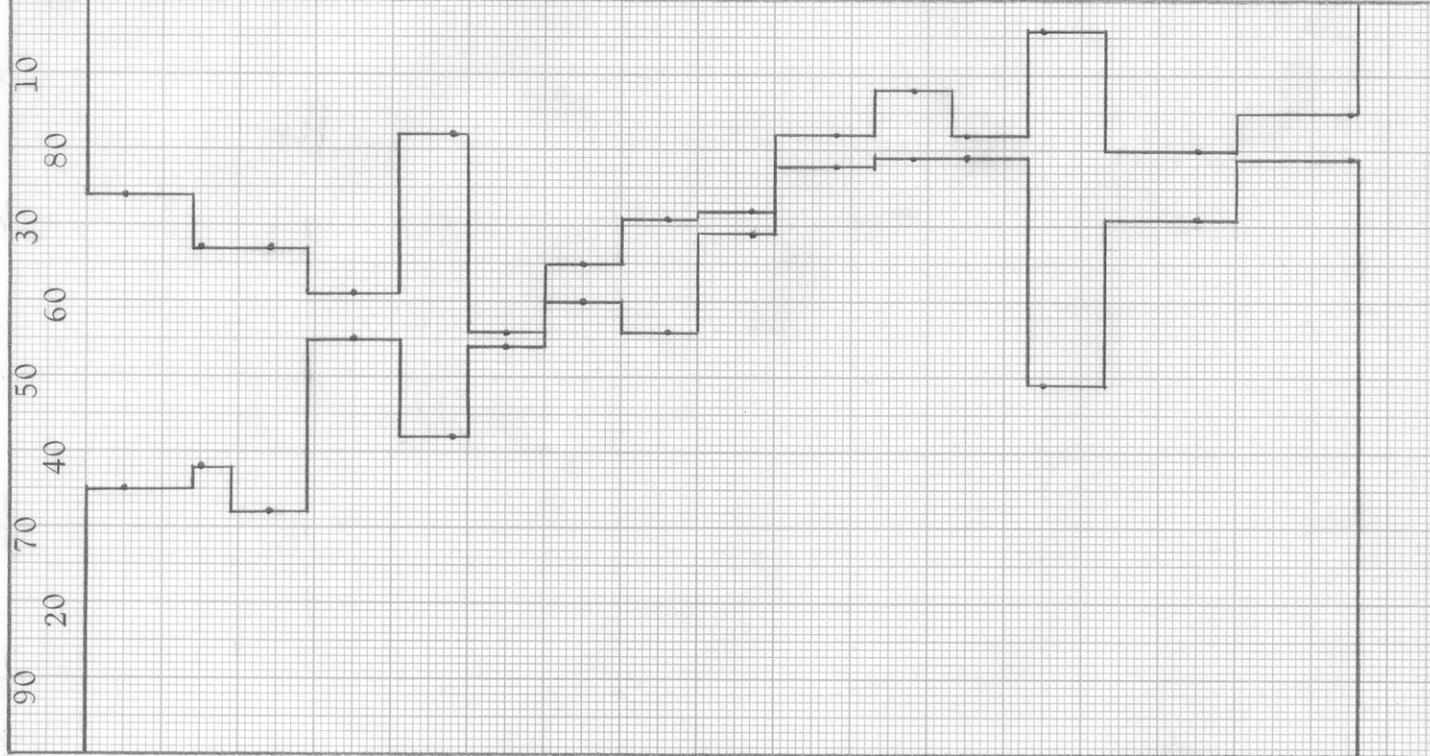
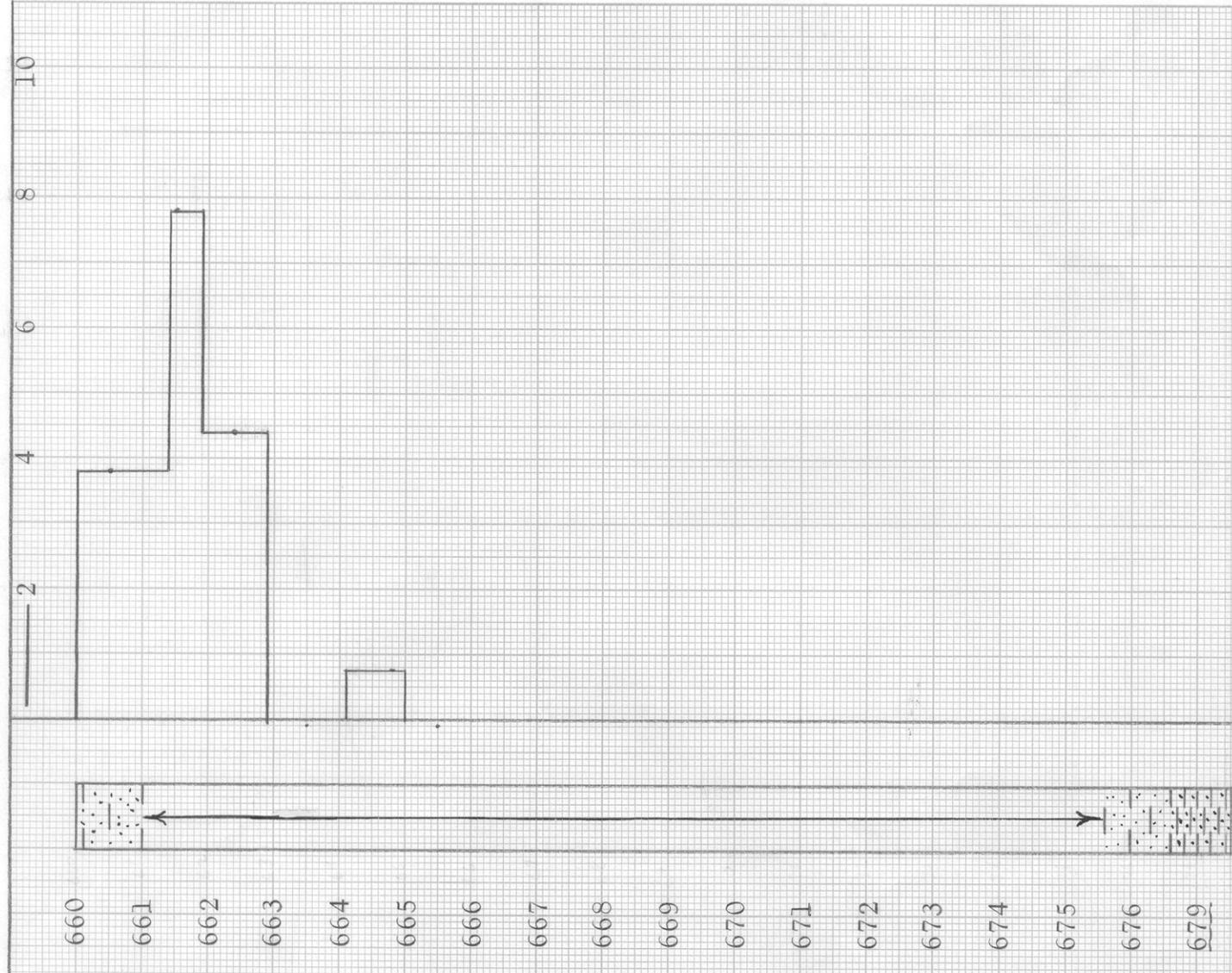
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Henning		Well No.	DH-7	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
660.0 - 665.0	3.8	3.4	12.80			
665.0 - 676.6	0	0	0			
660.0 - 676.6	3.8	3.4	12.80			
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
660.0 - 665.0	5.0	19.2	29.8	40.8	952	3,618
665.0 - 676.6	11.6	13.9	22.3	71.1	230	2,664
660.0 - 676.6	16.6	15.5	24.5	62.0	378	6,282

WATER SAT., PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:

SHALY SANDSTONE

SANDY SHALE

676
679

KEY:



SHALY SANDSTONE



SANDY SHALE

DIAMOND B INDUSTRIES

HENNING LEASE

WELL NO. DH - 7

MIAMI COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
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660.0 - 665.0

5.0

19.2

29.8

40.8

3.4

665.0 - 676.6

11.6

13.9

22.3

71.1

0.0

660.0 - 676.6

16.6

15.5

24.5

62.0

3.4

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CHANUTE, KANSAS
MARCH, 1981

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