

OILFIELD RESEARCH LABORATORIES

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

March 25, 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-15, 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 March 13, 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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Diamond B Industries Lease Henning Well No. DH-15

Location _____

Section 23 Twp. 16S Rge. 21E County Miami State Kansas

Elevation, Feet

Name of Sand.....

Upper Squirrel

Top of Core

647.0

Bottom of Core

664.8

Top of Sand

647.0

Bottom of Sand

664.8

Total Feet of Permeable Sand

14.1

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
1 - 10	4.0	4.0
10 - 20	3.2	7.2
30 - 50	2.9	10.1
50 - 100	3.0	13.1
100 & Above	1.0	14.1

Average Permeability Millidarcys

33.3

Average Percent Porosity

19.8

Average Percent Oil Saturation

27.9

Average Percent Water Saturation

50.4

Average Oil Content, Bbls./A. Fr.

439.

Total Oil Content, Bbls./Acre

7,293.

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LOG

Name Diamond B Industries Lease Henning Well No. DH-15

<u>Depth Interval, Feet</u>	<u>Description</u>
647.0 - 654.1	Light brown and gray laminated slightly calcareous sandstone and shale.
654.1 - 655.1	Grayish light brown slightly calcareous shaly sandstone.
655.1 - 656.9	Light brown and gray laminated slightly calcareous sandstone and shale.
656.9 - 659.1	Grayish light brown slightly calcareous shaly sandstone.
659.1 - 662.3	Light brown and gray slightly calcareous laminated sandstone and shale.
662.3 - 664.8	Grayish light brown slightly calcareous shaly sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond B Industries Lease Henning Well No. DH-15

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	647.3	22.9	30	45	75	533	44.	1.0	1.0	533	44.00
2	648.7	24.8	36	36	72	693	54.	1.0	2.0	693	54.00
3	649.5	25.7	43	38	81	857	113.	1.0	3.0	857	113.00
4	650.3	24.0	44	36	80	819	70.	1.0	4.0	819	70.00
5	651.2	21.6	42	44	86	704	13.	1.0	5.0	704	13.00
6	652.6	11.5	21	69	90	187	9.2	1.0	6.0	187	9.20
7	653.4	21.2	20	46	66	329	35.	1.1	7.1	371	38.50
8	654.2	16.8	46	45	91	600	3.0	1.0	8.1	600	3.00
9	655.2	21.8	24	47	71	406	11.	1.0	9.1	406	11.00
10	656.8	21.0	4	37	41	65	30.	0.8	9.9	52	24.00
11	658.5	16.0	16	71	87	199	4.1	1.0	10.9	199	4.10
12	659.5	21.0	30	46	76	489	60.	1.0	11.9	489	60.00
13	660.5	22.3	9	47	56	156	14.	1.2	13.1	187	16.80
14	661.4	17.9	38	52	90	528	9.4	1.0	14.1	528	9.40
15	663.1	15.2	23	67	90	271	Imp.	1.2	15.3	325	0.00
16	664.6	14.8	23	70	93	264	Imp.	1.3	16.6	343	0.00

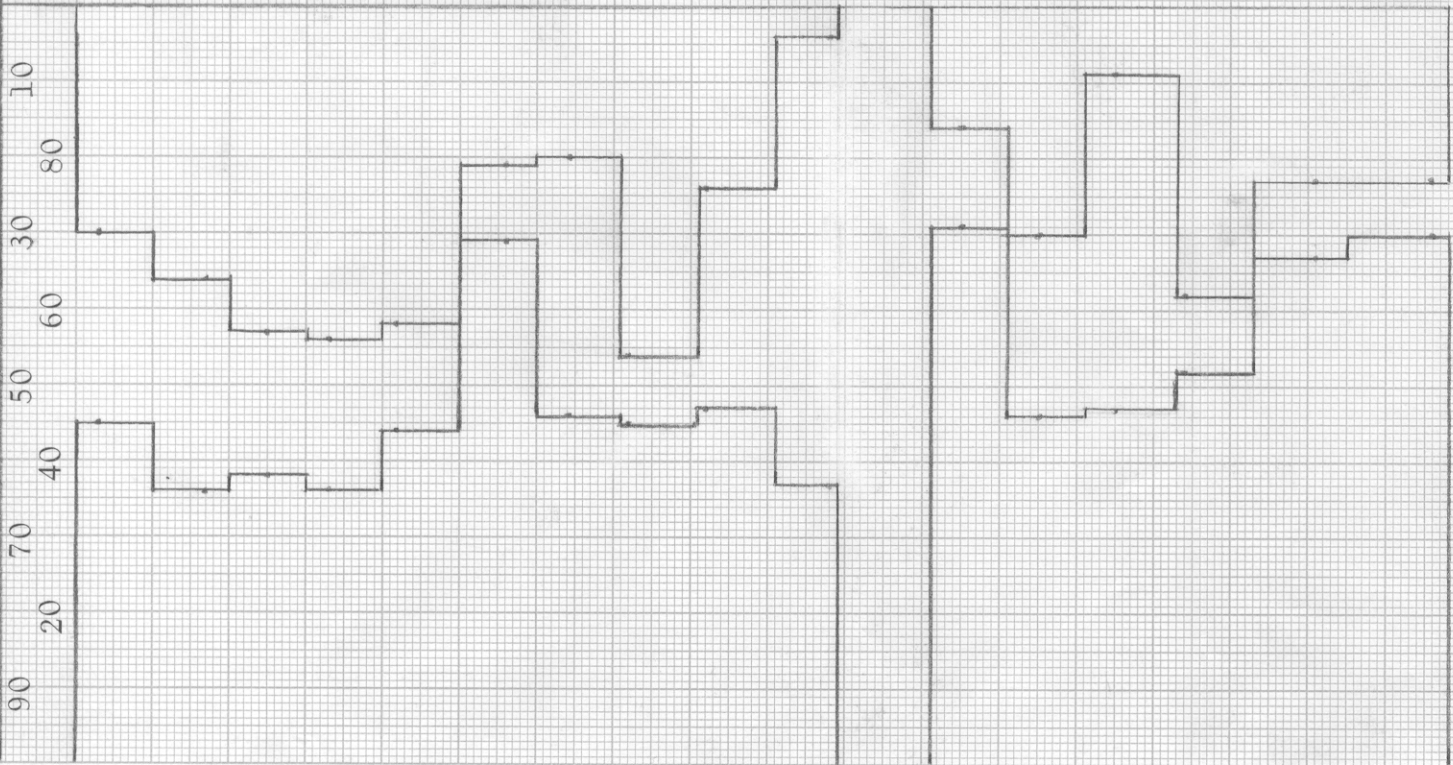
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SUMMARY OF PERMEABILITY & SATURATION TESTS

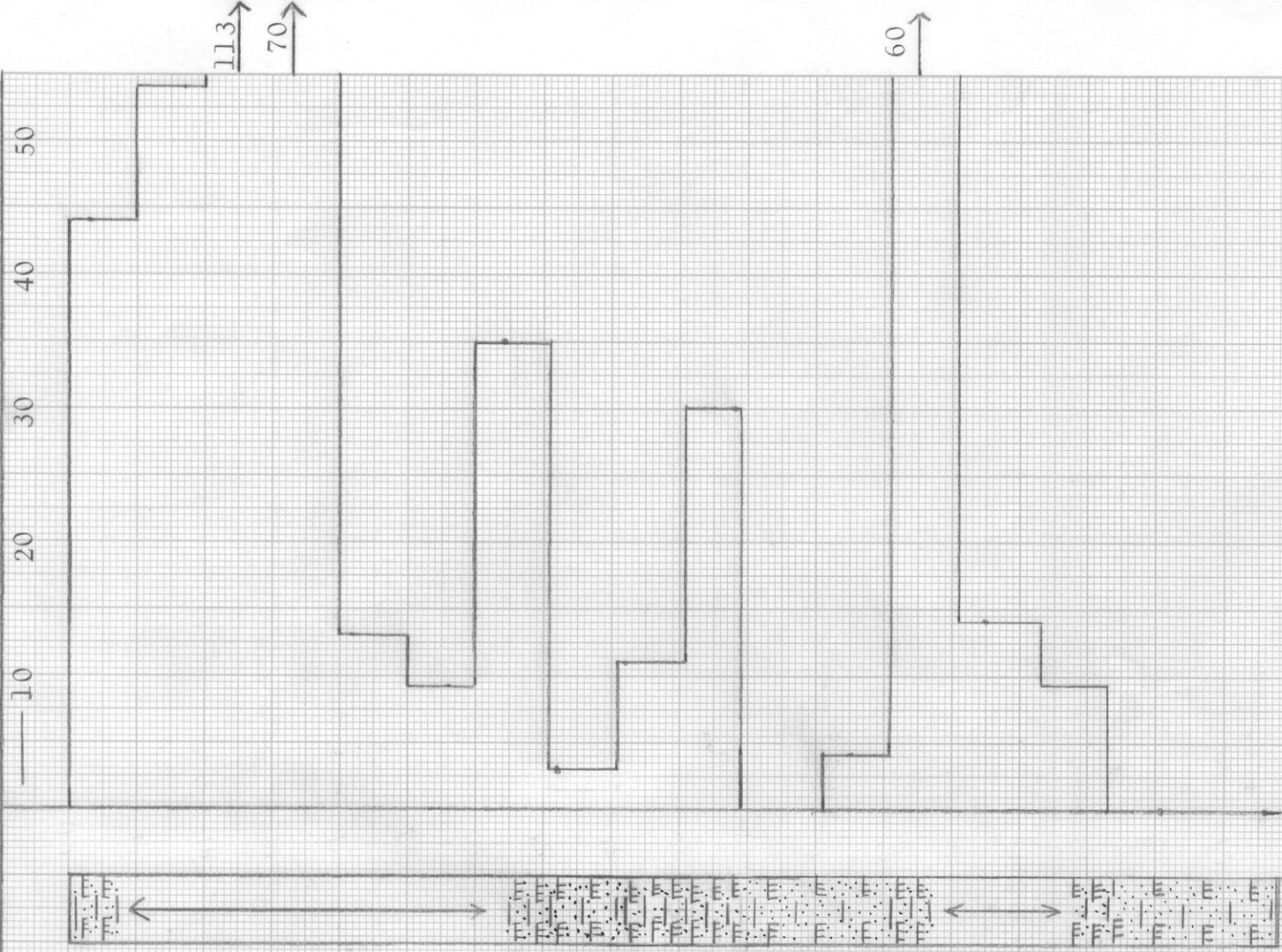
TABLE III

Company		Lease		Henning		Well No.		DH-15	
Diamond B Industries									
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.					
647.0 - 664.8	14.1	33.3		470.00					
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity		Average Percent Water Saturation		Average Oil Content Bbl./A. Ft.		Total Oil Content Bbls./Acre	
647.0 - 664.8	16.6	19.8		27.9		50.4		439	
								7,293	

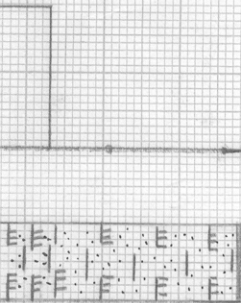
WATER SAT.,
PERCENT —————> OIL SAT.,
PERCENT <—————



———— PERMEABILITY, IN MILLIDARCYS



KEY:



KEY:



SHALY CALCAREOUS SANDSTONE



LAMINATED CALCAREOUS SANDSTONE AND SHALE

DIAMOND B INDUSTRIES

HENNING LEASE

WELL NO. DH-15

MIAMI COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE	
		PERCENT		SATURATION		PERCENT		PERMEABILITY, MILLIDARCS	
647.0 - 664.8	16.6	19.8		27.9		50.4		33.3	

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CHANUTE, KANSAS
MARCH, 1981