

OILFIELD RESEARCH LABORATORIES

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

December 13, 1979

Diamond B Industries
Rural Route 1
Paola, Kansas 66071

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Phillips Lease, Well No. DP-4, Miami County, Kansas, and submitted to our laboratory on December 1, 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


Benjamin R. Pearman

BRP/tem

3 c to Paola, Kansas
2 c to Pierre, South Dakota

T165, R21E, Sec. 24

OILFIELD RESEARCH LABORATORIES

LOGName Diamond B Industries Lease Phillips Well No. DP-4

<u>Depth Interval, Feet</u>	<u>Description</u>
657.0 - 657.6	Light brown calcareous sandstone.
657.6 - 659.4	Gray limestone.
659.4 - 660.3	Gray and light brown laminated shale and sandstone, 20% sandstone.
660.3 - 660.8	Brown and gray laminated sandstone and shale, 70% sandstone.
660.8 - 664.0	Gray and light brown laminated shale and sandstone, 30% sandstone.
664.0 - 667.0	Light brown shaly sandstone.
667.0 - 668.9	Gray and light brown laminated shale and sandstone, 20% sandstone.
668.9 - 671.8	Gray sandy shale.
671.8 - 672.5	Gray and light brown laminated shale and sandstone, 30% sandstone.
672.5 - 674.7	Gray sandy shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond B Industries Lease Phillips well No. DP-4

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	657.5	5.0	17	81	98	66	4.4	0.6	40	2.64	
2	659.5	4.4	10	85	95	34	Imp.	0.9	31	0.00	
3	660.5	21.0	36	36	72	587	90.	0.5	294	45.00	
4	661.5	9.9	14	82	96	108	0.51	1.0	108	0.51	
5	662.6	14.4	18	76	94	201	Imp.	1.0	201	0.00	
6	663.5	20.0	14	55	69	217	Imp.	1.2	260	0.00	
7	664.9	21.3	40	41	81	661	1.3	1.0	661	1.30	
8	666.4	18.6	33	55	88	476	5.8	1.0	476	5.80	
9	668.0	14.5	13	75	88	146	Imp.	1.0	146	0.00	
10	671.9	14.9	19	78	97	220	Imp.	0.7	154	0.00	

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

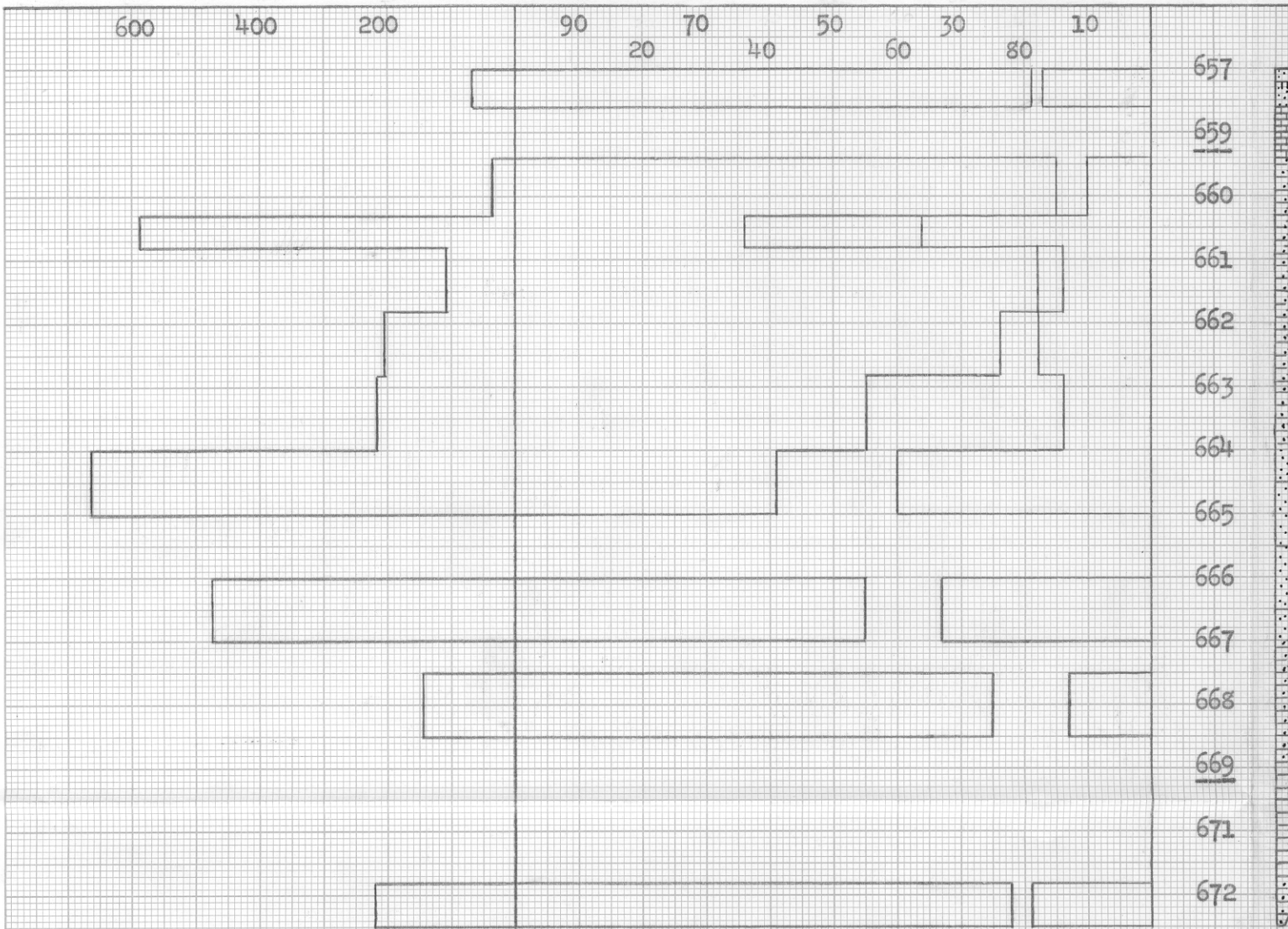
TABLE III

Company		Lease	Well No.	DP-4	
Diamond B Industries		Phillips			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
657.0 - 672.5	4.1	13.5	55.25		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbl./Acre
657.0 - 672.5	8.9	14.7	20.8	266	2,371

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT



KEY:



SHALY SANDSTONE



SANDY SHALE

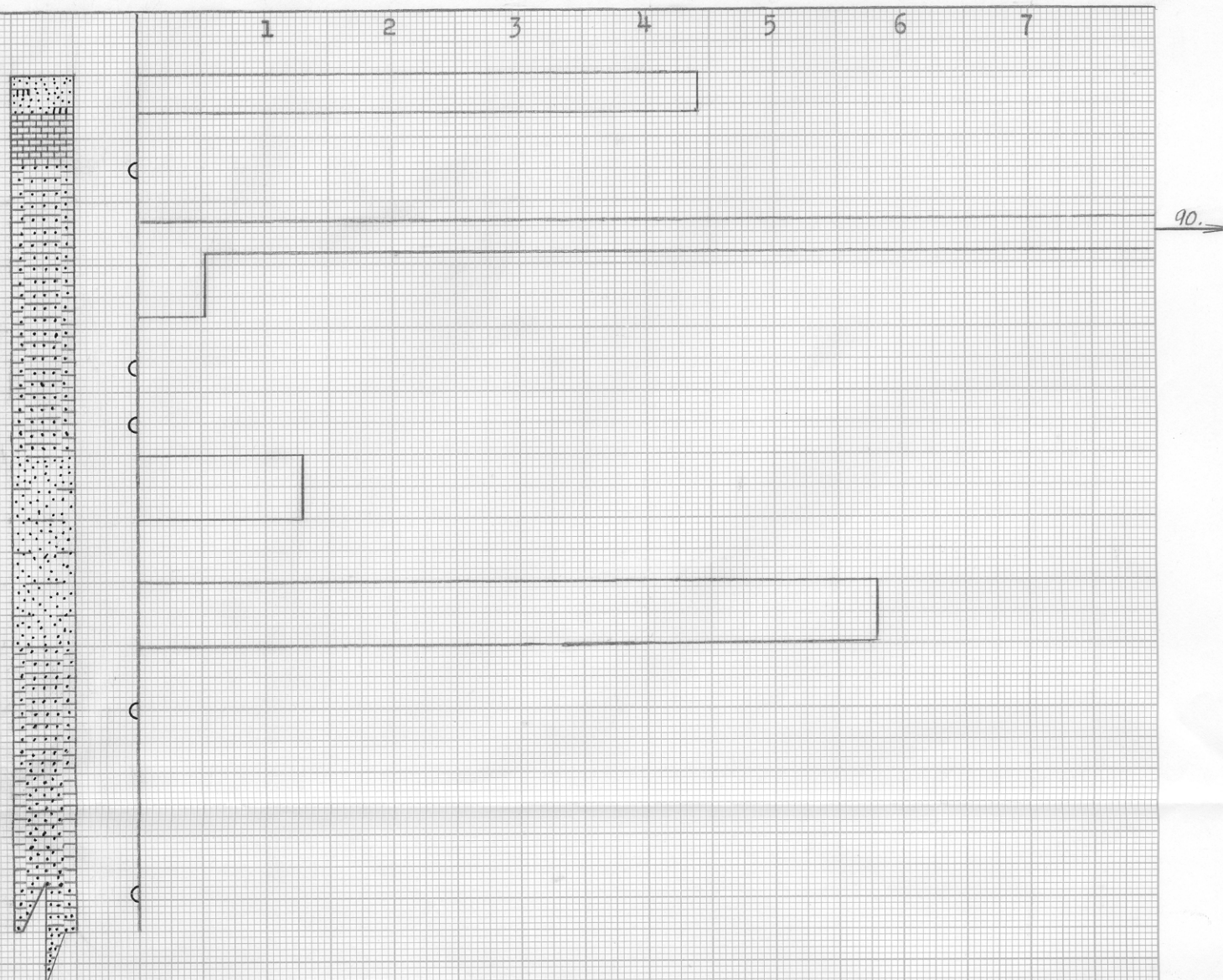


DIAMOND B IN

PHILLIPS LEASE

MIAMI COUNTY, KA


DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AV SA P
657.0 - 672.5	8.9	14.7	20.8	



CALCAREOUS SANDSTONE

LIMESTONE

 LAMINATED SANDSTONE AND SHALE

 IMPERMEABLE TO AIR

INDUSTRIES

WELL NO. DP - 4

KANSAS

AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A. FT.	TOTAL OIL CONTENT BBLs./ACRE	AVERAGE PERMEABILITY, MILLIDARCYS
66.6	266	2,371	13.5

OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 DECEMBER, 1979

HR

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