

OILFIELD RESEARCH LABORATORIES

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

March 4, 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 Tarr 2 Lease, Well No. DT-12, 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 18, 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

T16S, R22E, Sec 19

- REGISTERED ENGINEERS -

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

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Diamond B Industries Lease Tarr 2 Well No. DT-12
 Location _____
 Section _____ Twp. _____ Rge. _____ County Miami State Kansas

Elevation, Feet	-
Name of Sand	1st Squirrel
Top of Core	680.0
Bottom of Core	699.0
Top of Sand	680.0
Bottom of Sand	699.0
Total Feet of Permeable Sand	10.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	4.5	4.5
1 - 10	3.2	7.7
10 - 20	1.6	9.3
30 & Above	1.6	10.9

Average Permeability Millidarcys	11.2
Average Percent Porosity	15.2
Average Percent Oil Saturation	29.6
Average Percent Water Saturation	56.6
Average Oil Content, Bbls./A. Ft.	368.
Total Oil Content, Bbls./Acre	6,112.

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LOG

Name Diamond B Industries Lease Tarr 2 Well No. DT-12

<u>Depth Interval, Feet</u>	<u>Description</u>
680.0 - 683.2	Brown slightly calcareous shaly sandstone.
683.2 - 685.8	Brown slightly calcareous sandstone.
685.8 - 688.9	Light brown and gray laminated sandstone and shale.
688.9 - 690.3	Light brown shaly sandstone.
690.3 - 690.9	Light brown sandstone.
690.9 - 699.0	Grayish light brown very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond B Industries Lease Tarr 2 Well No. DT-12

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	680.1	15.1	44	43	87	515	8.9	1.0	1.0	515	8.90
2	681.5	19.0	45	30	75	663	6.1	1.0	2.0	663	6.10
3	682.5	15.6	29	46	75	351	1.0	1.2	3.2	421	1.20
4	683.7	20.1	47	27	74	733	15.	1.0	4.2	733	15.00
5	684.5	22.1	45	23	68	772	61.	1.0	5.2	772	61.00
6	685.5	21.2	23	35	58	378	32.	0.6	5.8	227	19.20
7	686.6	15.6	36	55	91	436	0.39	1.0	6.8	436	0.39
8	687.8	14.2	29	67	96	320	0.32	1.1	7.9	352	0.35
9	688.4	13.8	35	62	97	375	0.43	1.0	8.9	375	0.43
10	689.3	11.6	39	56	95	351	0.52	1.4	10.3	491	0.72
11	690.7	18.4	24	46	70	343	14.	0.6	10.9	206	8.40
12	691.7	9.2	15	80	95	107	Imp.	1.6	12.5	171	0.00
13	693.7	12.6	8	82	90	78	Imp.	1.5	14.0	117	0.00
14	695.5	15.4	26	70	96	311	Imp.	1.6	15.6	498	0.00
15	698.5	13.4	13	81	94	135	Imp.	1.0	16.6	135	0.00

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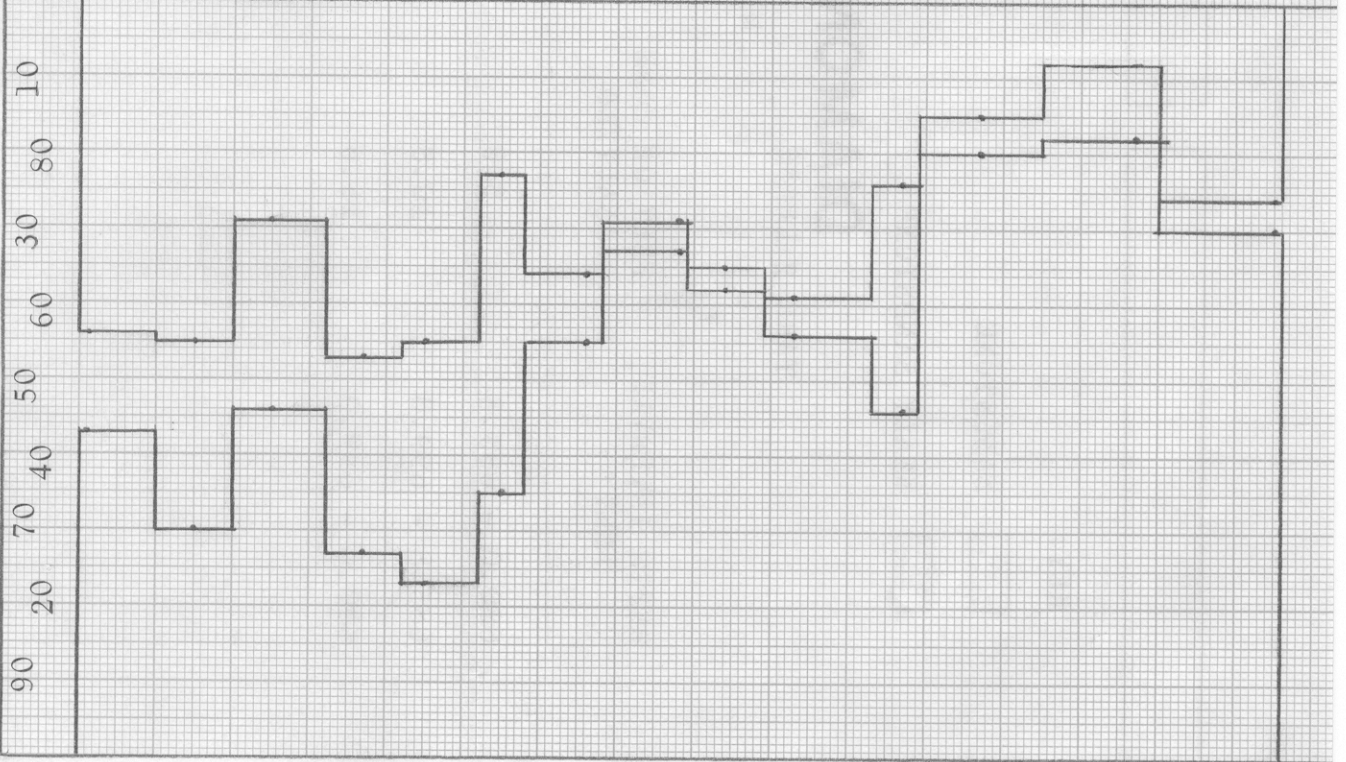
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

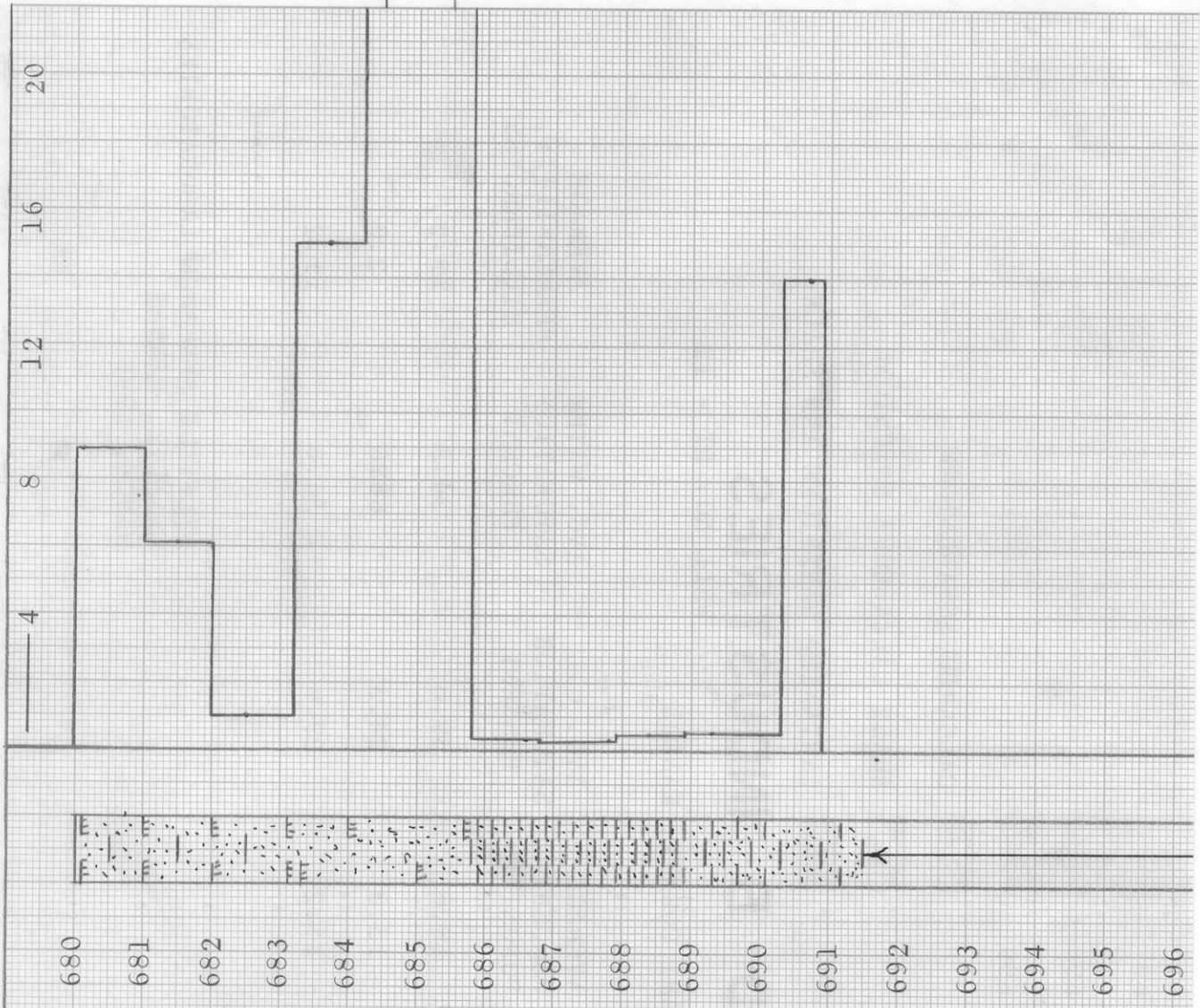
Company	Lease	Tarr 2	Well No.	DT-12	
Diamond B Industries					
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
680.0 - 685.8	5.8	19.2	111.40		
685.8 - 699.0	5.1	2.0	10.29		
680.0 - 699.0	10.9	11.2	121.69		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
680.0 - 685.8	5.8	18.6	39.6	574	3,331
685.8 - 699.0	10.8	13.3	24.3	258	2,781
680.0 - 699.0	16.6	15.2	29.6	368	6,112

WATER SAT., PERCENT →

OIL SAT., PERCENT ←



PERMEABILITY, IN MILLIDARCYS



61
32

697
698
699

KEY:



SANDSTONE



SHALY SANDSTONE



CALCAREOUS SANDSTONE



SHALY CALCAREOUS SANDSTONE



LAMINATED SANDSTONE AND SHALE

DIAMOND B INDUSTRIES

TARR 2 LEASE

WELL NO. DT - 12

MIAMI COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE	
					PERMEABILITY, MILLIDARCYS	PERMEABILITY, MILLIDARCYS
680.0 - 685.8	5.8	18.6	39.6	34.3	19.2	19.2
685.8 - 699.0	10.8	13.3	24.3	68.6	2.0	2.0
680.0 - 699.0	16.6	15.2	29.6	56.6	11.2	11.2

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CHANUTE, KANSAS
MARCH, 1981

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