

OILFIELD RESEARCH LABORATORIES

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

June 23, 1980

Diamond Oil Producers, Inc.
114 South Depot
Cherryvale, Kansas 67335

Gentlemen:

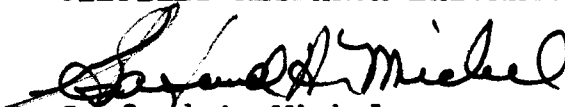
Enclosed herewith are the results of tests run on the rotary core taken from the Mattox Lease, Well No. 9, Labette County, Kansas, and submitted to our laboratory on June 10, 1980.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/tem

5 c to Cherryvale, Kansas

- REGISTERED ENGINEERS -

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

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Diamond Oil Producers, Inc. Lease Mattox Well No. 9
 Location —
 Section 7 Twp. 33S Rgs. 18E County Labette State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

600.0

Bottom of Core

630.0

Top of Sand

600.0

Bottom of Sand

630.0

Total Feet of Permeable Sand

30.0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10

9.0

9.0

10 - 20

4.0

13.0

20 - 30

8.3

21.3

30 - 40

3.5

24.8

40 & Above

5.2

30.0

Average Permeability Millidarcys

22.6

Average Percent Porosity

17.5

Average Percent Oil Saturation

21.6

Average Percent Water Saturation

44.5

Average Oil Content, Bbls./A. Ft.

295.

Total Oil Content, Bbls./Acre

8,859.

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LOG

Name Diamond Oil Producers, Inc. Lease Mattox Well No. 9

<u>Depth Interval, Feet</u>	<u>Description</u>
600.0 - 604.0	Light brown laminated shaly sandstone.
604.0 - 608.5	Light brown slightly shaly sandstone.
608.5 - 623.1	Brown slightly shaly sandstone.
623.1 - 624.5	Brown laminated shaly sandstone.
624.5 - 630.0	Brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Incorporated Lease Mattox

Well No. 9

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			Ft.	Cum. Ft.		
1	600.5	12.3	12	69	115	3.4	1.0	1.0	115	3.40
2	601.5	15.6	8	58	97	4.7	1.0	2.0	97	4.70
3	602.5	19.8	2	56	31	20.	1.0	3.0	31	20.00
4	603.5	14.9	3	70	35	7.8	1.0	4.0	35	7.80
5	604.5	20.2	6	59	94	56.	1.0	5.0	94	56.00
6	605.5	19.8	11	54	169	39.	1.0	6.0	169	39.00
7	606.5	16.7	10	57	130	40.	1.0	7.0	130	40.00
8	607.5	18.5	9	49	129	11.	1.5	8.5	194	16.50
9	609.5	17.6	23	43	314	21.	1.3	9.8	408	27.30
10	610.5	20.3	28	32	441	56.	1.2	11.0	529	67.20
11	611.5	19.0	23	32	339	21.	1.5	12.5	509	31.50
12	613.3	18.1	21	31	295	7.7	1.5	14.0	443	11.55
13	614.5	17.2	17	44	227	5.0	1.0	15.0	227	5.00
14	615.5	20.1	33	30	515	24.	1.0	16.0	515	24.00
15	616.5	18.1	30	35	421	22.	1.0	17.0	421	22.00
16	617.5	15.8	32	43	392	17.	1.0	18.0	392	17.00
17	618.5	15.7	20	55	244	9.9	1.5	19.5	366	14.85
18	620.0	18.7	39	32	566	22.	1.5	21.0	849	33.00
19	621.8	18.0	32	36	447	13.	1.0	22.0	447	13.00
20	622.3	17.2	28	39	374	9.9	0.6	22.6	224	5.94
21	623.0	17.5	22	36	299	11.	0.5	23.1	150	5.50
22	624.1	14.6	20	46	227	5.4	1.4	24.5	318	7.56
23	624.7	18.8	26	40	379	35.	0.5	25.0	190	17.50
24	625.5	18.2	24	46	339	25.	1.0	26.0	339	25.00
25	626.5	17.8	28	41	387	39.	1.0	27.0	387	39.00
26	627.5	17.9	33	38	458	41.	1.0	28.0	458	41.00
27	628.5	17.6	33	34	451	52.	1.0	29.0	451	52.00
28	629.5	14.5	33	45	371	31.	1.0	30.0	371	31.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

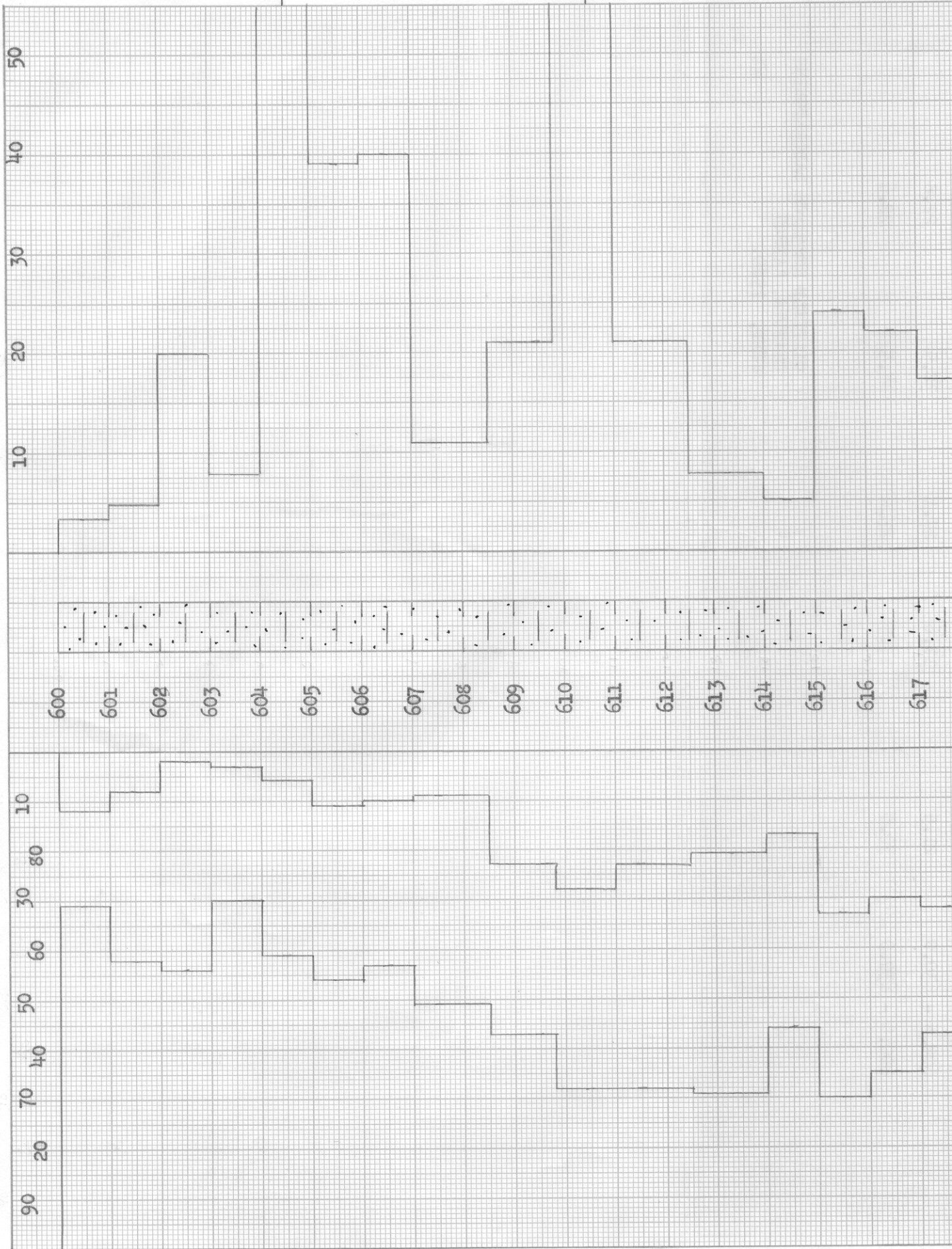
TABLE III

Company		Diamond Oil Producers, Incorporated		Lease	Mattox	Well No.	
		Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
		600.0 - 608.5	8.5	22.0	187.40		
		608.5 - 630.0	21.5	22.8	490.90		
		600.0 - 630.0	30.0	22.6	678.30		
		Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
		600.0 - 608.5	8.5	17.3	7.7	58.4	865
		608.5 - 630.0	21.5	17.6	27.1	38.9	7,994
		600.0 - 630.0	30.0	17.5	21.6	44.5	8,859

WATER SAT.,
PERCENT

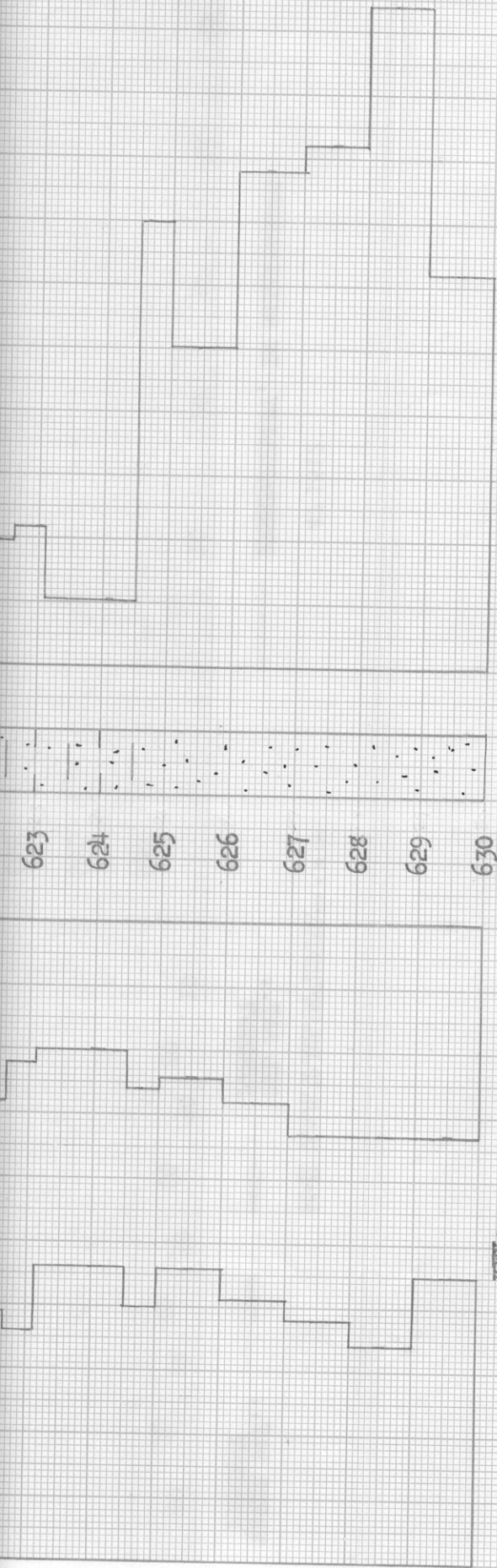
OIL SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCYS



56

56



DIAMOND OIL PRODUCERS, INC.

MATTOX LEASE

WELL NO. 9

LABETTE COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCS
600.0 - 608.5	8.5	17.3	7.7	58.4	22.0
608.5 - 630.0	21.5	17.6	27.1	38.9	22.8
600.0 - 630.0	30.0	17.5	21.6	44.5	22.6