

OILFIELD RESEARCH LABORATORIES

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

July 21, 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-A Lease, Well No. 11, Labette County, Kansas, and submitted to our laboratory on June 30, 1980.

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


Sanford A. Michel

SAM/kas
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-A Well No. 11

Location 1155' EWL & 1225' SNL NW $\frac{1}{4}$

Section 7 Twp. 33S Rge. 18E County Labette State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	605.0
Bottom of Core	637.0
Top of Sand (Tested)	612.8
Bottom of Sand	637.0
Total Feet of Permeable Sand	19.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 4	8.8	8.8
4 - 8	4.9	13.7
8 - 12	1.8	15.5
12 & Above	4.1	19.6

Average Permeability Millidarcys	6.6
Average Percent Porosity	15.1
Average Percent Oil Saturation	22.9
Average Percent Water Saturation	47.3
Average Oil Content, Bbls./A. Ft.	273.
Total Oil Content, Bbls./Acre	5,922.

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LOGName Diamond Oil Producers, Inc. Lease Mattox-A Well No. 11

<u>Depth Interval, Feet</u>	<u>Description</u>
605.0 - 612.8	Gray laminated sandstone and shale.
612.8 - 613.8	Brown and gray laminated sandstone and shale.
613.8 - 617.7	Brown shaly sandstone.
617.7 - 618.8	Brown and gray laminated sandstone and shale.
618.8 - 622.5	Grayish brown very shaly sandstone.
622.5 - 625.0	Gray sandy shale.
625.0 - 626.1	Light brown very shaly sandstone.
626.1 - 627.7	Light brown shaly sandstone.
627.7 - 631.2	Light brown sandstone.
631.2 - 632.9	Brown and gray laminated sandstone and shale.
632.9 - 633.7	Light brown sandstone.
633.7 - 637.0	Light brown shaly sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Inc.

Lease Mattox-A

Well No. 11

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	613.5	16.5	51	39	90	653	3.6	1.0	1.0	653	3.60
2	614.5	16.8	29	41	70	378	7.8	1.0	2.0	378	7.80
3	615.5	16.7	31	41	72	402	8.0	1.0	3.0	402	8.00
4	616.5	16.7	25	46	71	324	5.5	1.0	4.0	324	5.50
5	617.5	15.4	24	52	76	287	7.7	0.9	4.9	258	6.93
6	618.5	14.5	22	50	72	248	Imp.	1.1	6.0	273	0.00
7	619.5	14.0	7	65	72	76	1.8	1.0	7.0	76	1.80
8	620.5	14.6	3	73	76	34	Imp.	1.0	8.0	34	0.00
9	621.5	13.7	13	67	80	138	0.26	1.0	9.0	138	0.26
10	622.3	13.5	17	65	82	178	1.1	0.7	9.7	125	0.77
11	625.5	13.8	10	55	65	107	0.66	1.1	10.8	118	0.73
12	626.5	15.2	19	56	75	224	4.6	1.0	11.8	224	4.60
13	627.5	15.6	26	47	73	315	13.	0.6	12.4	189	7.80
14	628.5	16.2	38	30	68	478	15.	1.0	13.4	478	15.00
15	629.5	16.7	18	32	50	233	18.	1.0	14.4	233	18.00
16	630.5	16.0	37	27	64	459	17.	1.5	15.9	689	25.50
17	631.5	14.4	18	51	69	201	2.4	0.7	16.6	141	1.68
18	632.2	15.3	18	49	67	214	2.3	1.0	17.6	214	2.30
19	633.5	13.1	23	44	67	234	11.	0.8	18.4	187	8.80
20	634.5	12.8	26	42	68	258	5.4	1.0	19.4	258	5.40
21	635.6	15.0	12	75	87	140	1.3	1.0	20.4	140	1.30
22	636.8	13.8	28	17	45	300	2.6	1.3	21.7	390	3.38

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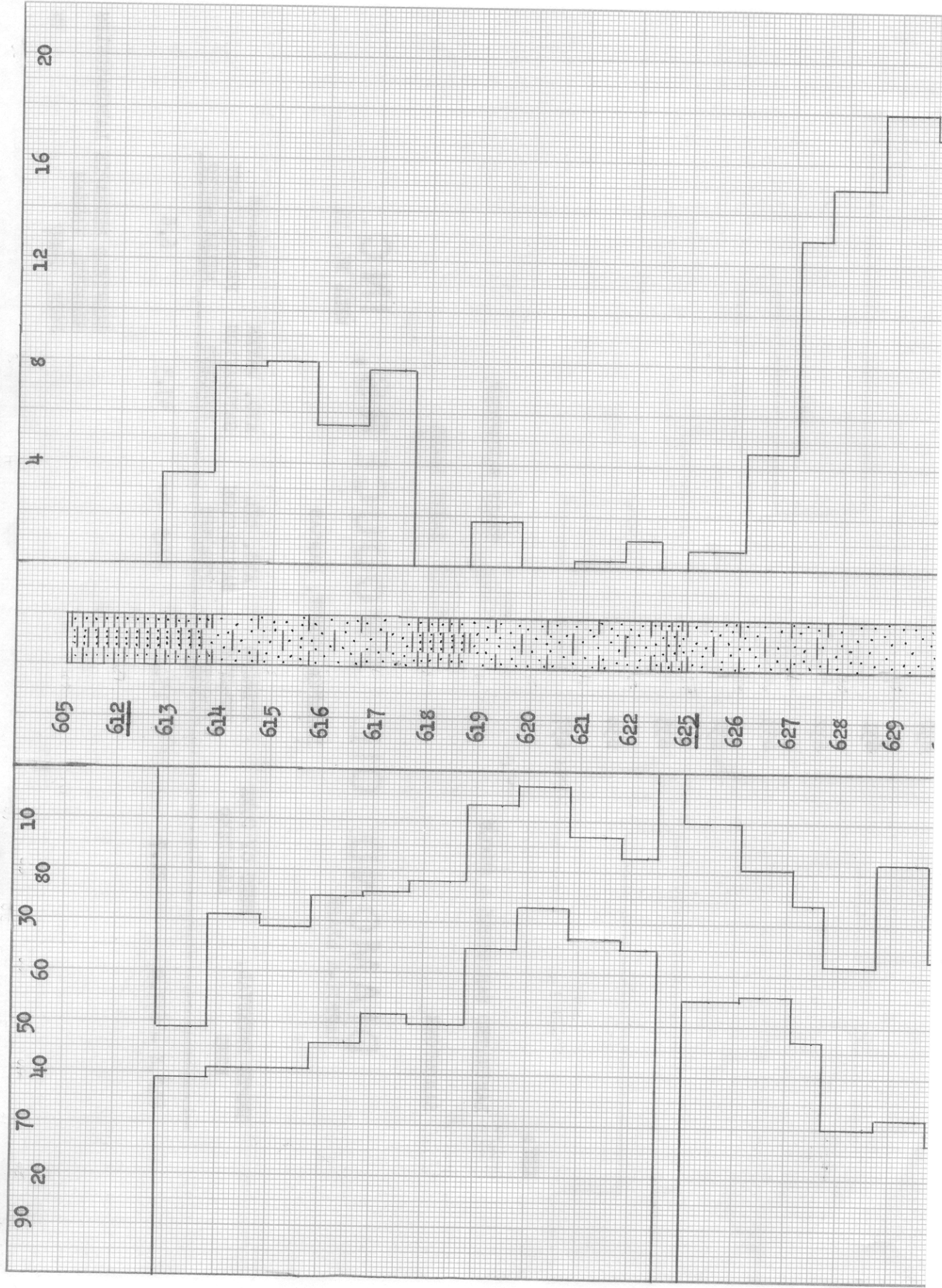
SUMMARY OF PERMEABILITY & SATURATION TESTS

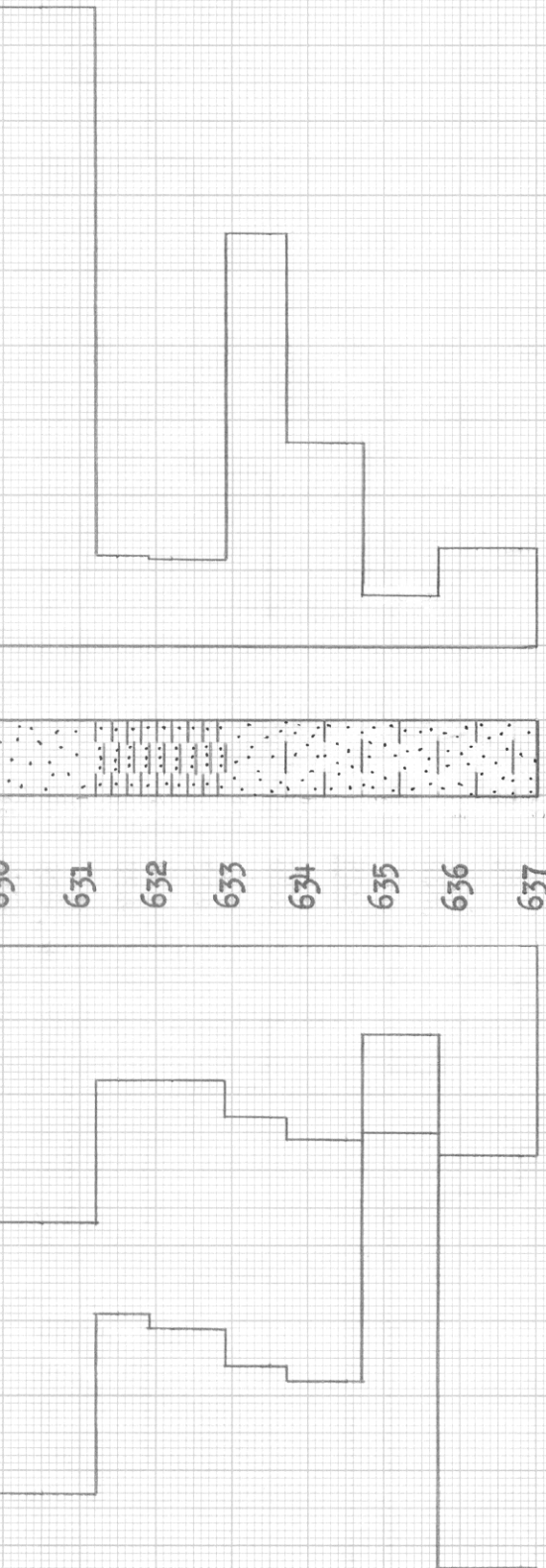
TABLE III

Company	Diamond Oil Producers, Inc.	Lease	Mattox-A	Well No.	11								
	Depth Interval, Feet	612.8 - 637.0	Feet of Core Analyzed	19.6	Average Permeability, Millidarcys	6.6	Permeability Capacity Ft. x Md.	129.15					
	Depth Interval, Feet	612.8 - 637.0	Feet of Core Analyzed	21.7	Average Percent Porosity	15.1	Average Percent Water Saturation	22.9	Average Oil Content Bbl./A. Ft.	47.3	273	Total Oil Content Bbls./Acre	5,922



WATER SAT., PERCENT ←

PERMEABILITY, IN MILLIDARCS →





KEY:

 LAMINATED SANDSTONE & SHALE
 SANDSTONE

 SHALY SANDSTONE
 SANDY SHALE

DIAMOND OIL PRODUCERS, INC.

MATTOX-A LEASE LABETTE COUNTY, KANSAS WELL NO. 11

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE	
		PERCENT POROSITY	PERCENT SATURATION	PERCENT SATURATION	PERCENT PERMEABILITY	PERCENT SATURATION	PERCENT PERMEABILITY	PERCENT SATURATION	MILLIDARCYS
612.8 - 637.0	21.7	15.1	22.9	47.3	6.6				

OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 JULY, 1980 VM