

OILFIELD RESEARCH LABORATORIES

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

July 18, 1980

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

Gentlemen:

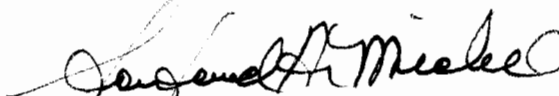
Enclosed herewith are the results of tests run on the rotary core taken from the Mattox A Lease, Well No. 12, Labette County, Kansas, and submitted to our laboratory on June 30, 1980.

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/tem

5 c to Cherryvale, Kansas

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GENERAL INFORMATION & SUMMARY

Company Diamond Oil Producers, Inc. Lease Mattox A Well No. 12
 Location 330' EWL & 1250' SNL
 Section 7 Twp. 33S Rge. 18E County Labette State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

604.5

Bottom of Core

625.6

Top of Sand

604.5

Bottom of Sand (Tested)

623.5

Total Feet of Permeable Sand

13.3

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 3

6.1

6.1

3 - 6

3.2

9.3

6 - 9

2.6

11.9

9 & Above

1.4

13.3

Average Permeability Millidarcys

4.6

Average Percent Porosity

14.1

Average Percent Oil Saturation

27.2

Average Percent Water Saturation

40.5

Average Oil Content, Bbls./A. Ft.

298.

Total Oil Content, Bbls./Acre

3,965.

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LOGName Diamond Oil Producers, Inc. Lease Mattox A Well No. 12

<u>Depth Interval, Feet</u>	<u>Description</u>
604.5 - 607.9	Brown shaly slightly calcareous sandstone.
607.9 - 610.3	Brown slightly shaly slightly calcareous sandstone.
610.3 - 611.7	Gray laminated sandstone and shale.
611.7 - 612.5	Gray sandy shale.
612.5 - 614.8	Gray laminated sandstone and shale.
614.8 - 616.0	Gray sandy shale.
616.0 - 618.7	Brown and gray laminated sandstone and shale.
618.7 - 619.9	Brown slightly calcareous slightly shaly sandstone.
619.9 - 621.3	Brown sandstone slightly calcareous.
621.3 - 621.9	Brown shaly slightly calcareous sandstone.
621.9 - 623.5	Brown and gray laminated slightly calcareous sandstone and shale.
623.5 - 623.9	Light brown calcareous very shaly sandstone.
623.9 - 624.0	Coal.
624.0 - 625.6	Brownish gray calcareous conglomeratic sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Inc. Lease Mattox A Well No. 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	604.7	13.7	20	53	73	213	2.8	0.5	0.5	107	1.40
2	605.5	13.7	22	54	76	234	2.2	1.0	1.5	234	2.20
3	606.5	13.5	24	55	79	251	2.2	1.0	2.5	251	2.20
4	607.3	13.9	28	48	76	302	2.2	0.9	3.4	272	1.98
5	608.5	15.3	30	41	71	356	5.8	1.0	4.4	356	5.80
6	609.5	13.3	29	60	89	299	6.0	1.4	5.8	419	8.40
7	616.5	14.7	27	46	73	308	2.5	1.5	7.3	462	3.75
8	618.5	13.5	33	24	57	346	0.45	1.2	8.5	415	0.54
9	619.5	15.6	29	27	56	351	8.7	1.2	9.7	421	10.44
10	620.5	15.8	27	26	53	331	11.	1.4	11.1	463	15.40
11	621.5	13.2	18	40	58	184	5.6	0.6	11.7	110	3.36
12	622.3	14.1	26	33	59	284	3.6	1.0	12.7	284	3.60
13	623.3	10.8	34	18	52	285	3.9	0.6	13.3	171	2.34

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Diamond Oil Producers, Incorporated			Lease	Mattox A	Well No.	12
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
	604.5 - 623.5	13.3	4.6	61.41			
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	604.5 - 623.5	13.3	14.1	27.2	40.5	298	3,965