



OILFIELD RESEARCH LABORATORIES

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

February 14, 1979

Diamond Oil Producers, Inc.
114 South Depot
Cherryvale, Kansas 66735

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Mattox Lease, Well No. 2, Labette County, Kansas, and submitted to our laboratory on February 7, 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

SAM:km
5 c to Cherryvale, Kansas

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GENERAL INFORMATION & SUMMARY

Company Diamond Oil Producers, Inc. Lease Mattox Well No. 2

Location NW $\frac{1}{4}$

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

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 607.0

Bottom of Core - - - - - 627.0

Top of Sand - - - - - 607.0

Bottom of Sand - - - - - 627.0

Total Feet of Permeable Sand - - - - - 13.4

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1	6.0	6.0
1 - 5	3.6	9.6
5 - 10	2.8	12.4
10 - 20	1.0	13.4

Average Permeability Millidarcys - - - - - 3.5

Average Percent Porosity - - - - - 12.3

Average Percent Oil Saturation - - - - - 16.1

Average Percent Water Saturation - - - - - 59.0

Average Oil Content, Bbls./A. Ft. - - - - - 159.

Total Oil Content, Bbls./Acre - - - - - 2,536.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -

Total Calculated Oil Recovery, Bbls./Acre - - - - -

Packer Setting, Feet - - - - -

Viscosity, Centipoises @ - - - - -

A. P. I. Gravity, degrees @ 60 °F - - - - -

Elevation, Feet - - - - -

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LOG

Company Diamond Oil Producers, Inc. Lease Mattox Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
607.0 - 611.0	Gray laminated very shaly sandstone.
611.0 - 612.5	Gray laminated sandy shale.
612.5 - 614.2	Gray shale.
614.2 - 623.6	Light brown shaly sandstone.
623.6 - 624.0	Black shale.
624.0 - 624.4	Coal.
624.4 - 627.0	Gray very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Inc. Lease Mattox Well No. 2

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.	Conn. Ft.		
1	607.5	13.2	1	78	10	0.80	1.0	1.0	10	0.80
2	608.5	12.4	2	76	19	Imp.	1.0	2.0	19	0.00
3	609.5	12.8	7	75	70	0.27	1.0	3.0	70	0.27
4	610.5	13.4	2	70	21	0.21	1.0	4.0	21	0.21
5	614.7	13.8	23	49	246	9.1	0.8	4.8	197	7.28
6	615.5	13.0	8	67	81	0.92	1.0	5.8	81	0.92
7	616.5	14.9	31	49	358	11.	1.0	6.8	358	11.00
8	617.5	15.3	21	54	249	4.2	1.0	7.8	249	4.20
9	618.5	12.6	29	44	284	3.7	1.0	8.8	284	3.70
10	619.5	13.3	6	76	62	0.52	1.0	9.8	62	0.52
11	620.5	13.0	31	42	313	5.2	1.0	10.8	313	5.20
12	621.5	11.3	31	41	272	6.8	1.0	11.8	272	6.80
13	622.5	13.1	30	37	305	4.6	1.0	12.8	305	4.60
14	623.5	14.9	23	56	266	1.1	0.6	13.4	160	0.66
15	624.5	11.1	6	62	52	Imp.	0.6	14.0	31	0.00
16	625.5	6.4	10	60	50	Imp.	1.0	15.0	50	0.00
17	626.5	5.3	13	65	54	0.47	1.0	16.0	54	0.47

SUMMARY OF PERMEABILITY & SATURATION TESTS

Company Diamond Oil Producers, Inc. Lease Mattox Well No. 2

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
607.0 - 611.0	3.0	0.43	1.28
614.2 - 627.0	10.4	4.4	45.35
607.0 - 627.0	13.4	3.5	46.63

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
607.0 - 611.0	4.0	13.0	3.0	74.8	30	120
614.2 - 627.0	12.0	12.1	20.5	53.8	201	2,416
607.0 - 627.0	16.0	12.3	16.1	59.0	159	2,536