



OILFIELD RESEARCH LABORATORIES

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

September 19, 1979

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 Trimmell Lease, Well No. 2, Montgomery County, Kansas, and submitted to our laboratory on September 15, 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

BRP:km
5 c to Cherryvale, Kansas

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GENERAL INFORMATION & SUMMARY

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

Location 1570' NSL & 750' EWL SW $\frac{1}{4}$

Section 3 Twp 32S Rge. 16E County Montgomery State Kansas

Name of Sand	Peru
Top of Core	570.0
Bottom of Core	578.6
Top of Sand	570.0
Bottom of Sand	578.6
Total Feet of Permeable Sand	8.6
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 0.50	4.3	4.3
0.50 - 1.0	3.1	7.4
1.0 & Above	1.2	8.6

Average Permeability Millidarcys	0.60
Average Percent Porosity	14.5
Average Percent Oil Saturation	34.1
Average Percent Water Saturation	48.2
Average Oil Content, Bbls./A. Ft.	383.
Total Oil Content, Bbls./Acre	3,294.
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 Trimmell Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
570.0 - 570.9	Brown and gray slightly calcareous laminated sandstone and shale.
570.9 - 573.1	Dark brown slightly calcareous shaly sandstone.
573.1 - 574.2	Brown and gray slightly calcareous laminated sandstone and shale.
574.2 - 578.6	Light brown slightly carbonaceous shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	570.5	14.8	32	48	80	367	0.32	0.9	0.9	330	0.29
2	571.8	15.1	33	50	83	387	1.4	1.2	2.1	464	1.68
3	572.5	14.6	42	52	94	476	0.51	1.0	3.1	476	0.51
4	573.3	14.9	23	53	76	266	0.97	1.1	4.2	293	1.07
5	574.6	14.2	38	45	83	419	0.17	0.9	5.1	377	0.15
6	575.6	13.1	44	39	83	447	0.13	0.9	6.0	402	0.12
7	576.5	14.0	38	48	86	413	0.15	1.0	7.0	413	0.15
8	577.7	14.0	25	52	77	272	0.95	1.0	8.0	272	0.95
9	578.4	16.4	35	43	78	445	0.34	0.6	8.6	267	0.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Diamond Oil Producers, Inc.	Lease	Trimmell	Well No.	2
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
570.0 - 578.6	8.6	0.60	5.12		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
570.0 - 578.6	8.6	14.5	34.1	48.2	3,294