

OILFIELD RESEARCH LABORATORIES

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

April 9, 1980

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

Gentlemen:

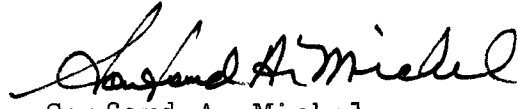
Enclosed herewith are the results of tests run on the rotary core taken from the Baxter "B" Lease, Well No. 4, Montgomery County, Kansas, and submitted to our laboratory on April 1, 1980.

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 Baxter "B" Well No. 4
 Location 165' WE1. & 825' NS1. N $\frac{1}{8}$ SE $\frac{1}{4}$
 Section 34 Twp. 31S Rge. 16E County Montgomery State Kansas

Elevation, Feet	
Name of Sand	Peru
Top of Core	649.0
Bottom of Core	663.5
Top of Sand	649.0
Bottom of Sand	660.8
Total Feet of Permeable Sand	11.8

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 2	3.7	3.7
6 - 10	1.5	5.2
10 - 15	4.3	9.5
15 & Above	2.3	11.8

Average Permeability Millidarcys	9.7
Average Percent Porosity	17.0
Average Percent Oil Saturation	35.4
Average Percent Water Saturation	42.4
Average Oil Content, Bbls./A. Ft.	469.
Total Oil Content, Bbls./Acre	5,533.

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LOG

Name Diamond Oil Producers, Inc. Lease Baxter "B" Well No. 4

<u>Depth Interval, Feet</u>	<u>Description</u>
649.0 - 652.3	Brown slightly calcareous sandstone.
652.3 - 652.8	Brown slightly shaly sandstone.
652.8 - 655.1	Brown sandstone.
655.1 - 660.8	Brown shaly sandstone.
660.8 - 663.5	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Inc. Lease Baxter "B" Well No. 4

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	649.5	16.3	34	44	78	430	27.	1.0	1.0	430	27.00
2	650.5	14.1	30	50	80	328	12.	1.0	2.0	328	12.00
3	651.5	17.4	28	48	76	378	17.	1.3	3.3	491	22.10
4	652.5	16.6	28	47	75	361	6.8	0.5	3.8	181	3.40
5	653.5	16.9	34	44	78	446	14.	1.3	5.1	580	18.20
6	654.5	16.7	30	48	78	389	11.	1.0	6.1	389	11.00
7	655.5	18.4	33	40	73	471	9.6	1.0	7.1	471	9.60
8	656.5	18.0	35	42	77	489	7.4	1.0	8.1	489	7.40
9	657.5	17.4	36	42	78	486	1.6	1.0	9.1	486	1.60
10	658.5	17.0	45	36	81	594	1.3	1.0	10.1	594	1.30
11	659.5	18.0	45	31	76	628	0.60	0.7	10.8	440	0.42
12	660.5	17.2	49	33	82	654	0.63	1.0	11.8	654	0.63

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Diamond Oil Producers, Inc.			Lease	Baxter "B"	Well No.	4
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
649.0 - 660.8	649.0 - 660.8	11.8	9.7	114.65			
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	
649.0 - 660.8	11.8	17.0	35.4	42.4	469	5,533	