



OILFIELD RESEARCH LABORATORIES

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

April 14, 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 Baxter "B" Lease, Well No. 6, Montgomery County, Kansas, and submitted to our laboratory on March 31, 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

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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GENERAL INFORMATION & SUMMARY

Company Diamond Oil Producers, Inc. Lease Baxter "B" Well No. 6
 Location -
 Section 34 Twp. 31S Rge. 16E County Montgomery State Kansas

Elevation, Feet	
Name of Sand	Peru
Top of Core	647.0
Bottom of Core	667.0
Top of Sand	647.0
Bottom of Sand	662.6
Total Feet of Permeable Sand	12.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 2	3.5	3.5
2 - 4	1.7	5.2
4 - 8	2.7	7.9
14 & Above	5.0	12.9

Average Permeability Millidarcys	7.4
Average Percent Porosity	14.0
Average Percent Oil Saturation	25.4
Average Percent Water Saturation	58.9
Average Oil Content, Bbls./A. Ft.	287.
Total Oil Content, Bbls./Acre	4,477.

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LOGName Diamond Oil Producers, Inc. Lease Baxter "B" Well No. 6

<u>Depth Interval, Feet</u>	<u>Description</u>
647.0 - 648.2	Light brown calcareous shaly sandstone.
648.2 - 651.9	Light brown slightly calcareous shaly sandstone.
651.9 - 652.8	Light brown sandstone.
652.8 - 653.9	Light brown slightly calcareous sandstone.
653.9 - 654.8	Gray very calcareous sandstone.
654.8 - 656.0	Brown slightly calcareous sandstone.
656.0 - 657.2	Brown calcareous shaly sandstone.
657.2 - 658.9	Brown slightly calcareous sandstone.
658.9 - 660.1	Brown calcareous shaly sandstone.
660.1 - 661.3	Brown calcareous sandstone.
661.3 - 662.6	Brown slightly calcareous shaly sandstone.
662.6 - 667.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Inc. Lease Baxter "B" Well No. 6

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			Ft.	Cum. Ft.		
1	647.5	6.6	20	63	102	Imp.	1.2	1.2	122	0.00
2	648.5	13.9	18	64	194	2.6	0.7	1.9	136	1.82
3	649.5	15.3	14	72	166	5.2	1.0	2.9	166	5.20
4	650.5	14.0	11	69	120	6.2	1.0	3.9	120	6.20
5	651.5	15.9	20	69	247	2.0	1.0	4.9	247	2.00
6	652.5	15.4	19	65	227	15.	0.9	5.8	204	13.50
7	653.5	16.0	18	56	223	1.6	1.1	6.9	245	1.76
8	654.5	3.8	15	60	44	Imp.	0.9	7.8	40	0.00
9	655.5	15.6	32	56	387	14.	1.2	9.0	464	16.80
10	656.5	14.0	25	60	272	1.2	1.2	10.2	326	1.44
11	657.5	15.4	34	53	406	15.	0.8	11.0	325	12.00
12	658.5	15.8	28	59	343	14.	0.9	11.9	309	12.60
13	659.5	14.8	22	67	253	1.2	1.2	13.1	304	1.44
14	660.5	16.1	49	42	612	15.	1.2	14.3	734	18.00
15	661.5	17.6	49	36	669	4.5	0.7	15.0	468	3.15
16	662.5	14.7	39	40	445	Imp.	0.6	15.6	267	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Diamond Oil Producers, Inc. Lease Baxter "B" Well No. 6

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
647.0 - 654.8	5.7	5.3	30.48
654.8 - 662.6	7.2	9.1	65.43
647.0 - 662.6	12.9	7.4	95.91

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 Bbl./Acre
647.0 - 654.8	7.8	12.5	16.9	64.7	164	1,280
654.8 - 662.6	7.8	15.4	33.8	53.2	410	3,197
647.0 - 662.6	15.6	14.0	25.4	58.9	287	4,477