



OILFIELD RESEARCH LABORATORIES

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

May 1, 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 Minnich Lease, Well No. 1, Montgomery County, Kansas, and submitted to our laboratory on April 18, 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 Minnich Well No. 1
 Location —
 Section 10 Twp. 33S Rge. 17E County Montgomery State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

639.0

Bottom of Core

658.5

Top of Sand

639.0

Bottom of Sand

658.5

Total Feet of Permeable Sand

16.0

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

Feet

Cum. Ft.

0 - 40

3.0

3.0

135 - 200

8.8

11.8

200 - 300

3.2

15.0

300 & Above

1.0

16.0

Average Permeability Millidarcys

156.2

Average Percent Porosity

20.0

Average Percent Oil Saturation

27.9

Average Percent Water Saturation

51.4

Average Oil Content, Bbls./A. Ft.

433.

Total Oil Content, Bbls./Acre

6,927.

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LOGName Diamond Oil Producers, Inc. Lease Minnich Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
639.0 - 644.2	Brown slightly calcareous sandstone.
644.2 - 645.7	Grayish brown conglomeratic sandstone and shale.
645.7 - 646.5	Gray sandy shale.
646.5 - 647.6	Brown and gray laminated sandstone and shale.
647.6 - 655.4	Light brown slightly calcareous sandstone.
655.4 - 657.6	Gray laminated sandstone and shale.
657.6 - 658.5	Light brown slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Incorporated Lease Minnich

Well No. 1

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	639.7	20.8	35	44	79	565	199.	1.0	1.0	565	199.00
2	640.5	21.4	37	36	73	614	323.	1.0	2.0	614	323.00
3	641.7	21.4	32	41	73	531	266.	1.0	3.0	531	266.00
4	642.4	21.1	43	34	77	704	214.	1.0	4.0	704	214.00
5	643.6	21.3	33	42	75	545	221.	1.2	5.2	654	265.20
6	646.7	17.9	24	49	73	333	1.6	1.1	6.3	366	1.76
7	647.8	14.0	42	56	98	456	166.	0.5	6.8	228	83.00
8	648.6	21.5	42	33	75	701	163.	0.9	7.7	631	146.70
9	649.6	21.3	29	46	75	479	156.	1.0	8.7	479	156.00
10	650.6	21.0	23	53	76	375	135.	1.0	9.7	375	135.00
11	651.8	20.9	22	56	78	357	139.	1.0	10.7	357	139.00
12	652.4	21.9	20	67	87	340	158.	1.0	11.7	340	158.00
13	653.6	20.7	15	76	91	241	172.	1.0	12.7	241	172.00
14	654.7	21.6	16	68	84	268	149.	1.4	14.1	375	208.60
15	656.3	15.9	20	72	92	247	1.6	1.0	15.1	247	1.60
16	657.8	12.6	25	44	69	244	33.	0.9	16.0	220	29.70

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Diamond Oil Producers, Inc.		Lease	Minnich		Well No.	1
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
	639.0 - 658.5	16.0	156.2	2,498.56			
	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
	639.0 - 658.5	16.0	20.0	27.9	51.4	433	6,927