



OILFIELD RESEARCH LABORATORIES

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

March 7, 1979

Diamond Oil Producers, Inc.
114 South Depot
Cherryvale, Kansas 67335

Gentlemen:

Enclosed herewith are the results of tests run on the rotary cores taken from the Gritton Lease, Well No. 3, Montgomery County, Kansas, and submitted to our laboratory on March 2, and 5, 1979.

These cores were sampled and the samples sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:km
5 c to Cherryvale, Kansas

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GENERAL INFORMATION & SUMMARY

Company Diamond Oil Producers, Inc. Lease Gritton Well No. 3

Location 1155' WEL & 1155' NSL E $\frac{1}{2}$ SE

Section 26 Twp. 33S Rge. 14E County Montgomery State Kansas

Name of Sand - - - - - Upper Wiser

Top of Core - - - - - 737.0

Bottom of Core - - - - - 746.0

Top of Sand - - - - - 737.0

Bottom of Sand - - - - - (Tested) 745.6

Total Feet of Permeable Sand - - - - - 8.6

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5

1.0

1.0

5 - 10

7.6

8.6

Average Permeability Millidarcys - - - - - 7.3

Average Percent Porosity - - - - - 14.6

Average Percent Oil Saturation - - - - - 28.0

Average Percent Water Saturation - - - - - 50.5

Average Oil Content, Bbls./A. Ft. - - - - - 317.

Total Oil Content, Bbls./Acre - - - - - 2,730.

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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GENERAL INFORMATION & SUMMARY

Company Diamond Oil Producers, Inc. Lease Gritton Well No. 3

Location 1,155' WEL & 1,155' NSL E $\frac{1}{2}$ SE

Section 26 Twp 33S Rge. 14E County Montgomery State Kansas

Name of Sand - - - - - Lower Wiser

Top of Core - - - - - 760.0

Bottom of Core - - - - - 765.8

Top of Sand - - - - - 760.0

Bottom of Sand - - - - - 765.8

Total Feet of Permeable Sand - - - - - 5.8

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10

1.8

1.8

10 - 40

1.6

3.4

40 - 80

2.4

5.8

Average Permeability Millidarcys - - - - - 29.6

Average Percent Porosity - - - - - 16.1

Average Percent Oil Saturation - - - - - 14.7

Average Percent Water Saturation - - - - - 69.5

Average Oil Content, Bbls./A. Ft. - - - - - 183.

Total Oil Content, Bbls./Acre - - - - - 1,064.

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 Gritton Well No. 3

<u>Depth Interval, Feet</u>	<u>Description</u>	
		<u>Upper Wiser</u>
737.0 - 745.6	Brown shaly slightly calcareous sandstone.	
745.6 - 746.0	Grayish light brown finely laminated shaly sandstone.	
		<u>Lower Wiser</u>
760.0 - 761.0	Gray slightly shaly sandstone.	
761.0 - 761.8	Light brown and gray very shaly sandstone.	
761.8 - 763.0	Light brown and gray sandstone.	
763.0 - 763.8	Gray sandstone.	
763.8 - 765.8	Brown slightly calcareous sandstone.	

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Inc. Lease Gritton Well No. 3

UPPER WISER

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.	Cum. Ft.		
1	737.5	17.3	42	39	564	4.3	1.0	1.0	564	4.30
2	738.5	14.8	21	59	241	7.5	1.0	2.0	241	7.50
3	739.5	14.6	20	58	227	7.7	1.0	3.0	227	7.70
4	740.5	15.8	18	57	221	7.1	1.0	4.0	221	7.10
5	741.5	13.9	21	52	227	8.6	1.0	5.0	227	8.60
6	742.5	12.8	40	43	397	9.3	1.0	6.0	397	9.30
7	743.5	13.1	28	47	285	7.7	1.0	7.0	285	7.70
8	744.5	14.2	41	35	452	7.7	1.0	8.0	452	7.70
9	745.5	14.6	17	74	193	5.5	0.6	8.6	116	3.30
LOWER WISER										
10	760.5	15.1	1	89	12	2.0	1.0	1.0	12	2.00
11	761.5	14.1	16	70	175	0.35	0.8	1.8	140	0.30
12	762.5	18.7	15	66	218	56.	1.2	3.0	262	67.20
13	763.5	15.3	8	81	95	15.	0.8	3.8	76	12.00
14	764.5	17.6	21	61	287	49.	1.2	5.0	344	58.80
15	765.5	13.7	27	51	287	39.	0.8	5.8	230	31.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Diamond Oil Producers, Inc. Lease Gritton Well No. 3

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
737.0 - 745.6	8.6	<u>UPPER WISER</u>	63.20
		7.3	
760.0 - 765.8	5.8	<u>LOWER WISER</u>	171.50
		29.6	

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 Bbbls./Acre
737.0 - 745.6	8.6	14.6	<u>UPPER WISER</u>	50.5	317	2,730
			28.0			
760.0 - 765.8	5.8	16.1	<u>LOWER WISER</u>	69.5	183	1,064
			14.7			