



OILFIELD RESEARCH LABORATORIES

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

March 2, 1979

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

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Gritton Lease, Well No. 2, Montgomery County, Kansas, and submitted to our laboratory on February 28, 1979.

This 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
Benjamin R. Pearman

SAM:km
5 c to Cherryvale, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

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

Location 825' WEL & 825' NSL E $\frac{1}{2}$ SE

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

Name of Sand	- - - - -	Redd Sand
Top of Core	- - - - -	445.0
Bottom of Core	- - - - -	450.8
Top of Sand	- - - - -	445.0
Bottom of Sand	- - - - -	450.8
Total Feet of Permeable Sand	- - - - -	5.8
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 10	1.0	1.0
10 - 40	2.0	3.0
40 - 60	2.8	5.8

Average Permeability Millidarcys	- - - - -	34.9
Average Percent Porosity	- - - - -	19.3
Average Percent Oil Saturation	- - - - -	6.9
Average Percent Water Saturation	- - - - -	82.1
Average Oil Content, Bbls./A. Ft.	- - - - -	105.
Total Oil Content, Bbls./Acre	- - - - -	607.
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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Company Diamond Oil Producers, Inc. Lease Gritton Well No. 2

Location 825' WEL & 825' NSL E $\frac{1}{2}$ SE

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

Name of Sand	Wiser Sand
Top of Core	747.0
Bottom of Core	753.8
Top of Sand	747.0
Bottom of Sand	753.8
Total Feet of Permeable Sand	6.8
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 3	3.1	3.1
3 - 6	0.8	3.9
6 - 9	2.9	6.8

Average Permeability Millidarcys	4.6
Average Percent Porosity	13.3
Average Percent Oil Saturation	22.1
Average Percent Water Saturation	55.7
Average Oil Content, Bbls./A. Ft.	223.
Total Oil Content, Bbls./Acre	1,516.
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. 2

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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REDD SAND

445.0 - 446.0	Light brown and gray sandstone.
446.0 - 448.0	Gray sandstone.
448.0 - 449.0	Light brown and gray laminated slightly shaly sandstone.
449.0 - 450.8	Gray laminated sandstone.

WISER SAND

747.0 - 747.8	Gray slightly shaly sandstone.
747.8 - 750.9	Light brown and gray slightly shaly sandstone.
750.9 - 753.8	Light brown slightly shaly sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Diamond Oil Producers, Inc.			Lease		Gritton		Well No.		2	
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.	Conn. Ft.		
					<u>REDD SAND</u>					
1	445.5	19.8	12	69	81	28.	1.0	1.0	184	28.00
2	446.5	18.7	4	90	94	42.	1.0	2.0	58	42.00
3	447.5	17.0	3	92	95	35.	1.0	3.0	40	35.00
4	448.5	20.2	17	61	78	7.0	1.0	4.0	266	7.00
5	449.5	19.8	3	88	91	57.	1.0	5.0	46	57.00
6	450.5	20.5	1	95	96	42.	0.8	5.8	13	33.60
					<u>WISER SAND</u>					
7	747.5	15.5	3	89	92	5.0	0.8	0.8	29	4.00
8	748.5	13.6	18	59	77	2.8	1.2	2.0	228	3.36
9	749.5	13.7	25	47	72	7.2	1.0	3.0	266	7.20
10	750.5	13.8	27	43	70	6.6	0.9	3.9	260	5.94
11	751.5	13.4	29	47	76	2.1	1.1	5.0	332	2.31
12	752.5	13.7	22	57	77	6.9	1.0	6.0	234	6.90
13	753.5	9.3	29	53	82	2.3	0.8	6.8	167	1.84

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Diamond Oil Producers, Inc.	Lease	Gritton	Well No.	2
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Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
<u>REDD SAND</u>			
445.0 - 450.8	5.8	34.9	202.60
<u>WISER SAND</u>			
747.0 - 753.8	6.8	4.6	31.55

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
<u>REDD SAND</u>						
445.0 - 450.8	5.8	19.3	6.9	82.1	105	607
<u>WISER SAND</u>						
747.0 - 753.8	6.8	13.3	22.1	55.7	223	1,516