



OILFIELD RESEARCH LABORATORIES

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

December 11, 1979

Diamond B. Industries
Rural Route 1
Paola, Kansas 66071

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Finley Lease, Well No. 5, Woodson County, Kansas, and submitted to our laboratory on November 27, 1979.

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

Benjamin R. Pearman
Benjamin R. Pearman

BRP/tem
4 c to Paola, Kansas
2 c to Chanute, Kansas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company	Diamond B Industries	Lease	Finley	Well No.	5
Location	—				
Section	31	Twp.	26S	Rge.	17E
		County	Woodson		State Kansas
Name of Sand					Bartlesville
Top of Core					954.0
Bottom of Core					965.6
Top of Sand					954.0
Bottom of Sand					965.6
Total Feet of Permeable Sand					6.9
Total Feet of Floodable Sand					
Distribution of Permeable Sand:					
Permeability Range Millidarcys	Feet	Cum. Ft.			
0 - 10	1.4	1.4			
50 - 75	1.4	2.8			
105 - 112	1.8	4.6			
175 & Above	2.3	6.9			
Average Permeability Millidarcys		127.6			
Average Percent Porosity		20.3			
Average Percent Oil Saturation		*37.4			
Average Percent Water Saturation		*42.5			
Average Oil Content, Ebls./A. Ft.		*536.			
Total Oil Content, Ebls./Acre		*1,823.			
Average Percent Oil Recovery by Laboratory Flooding Tests					
Average Oil Recovery by Laboratory Flooding Tests, Ebls./A. Ft.					
Total Oil Recovery by Laboratory Flooding Tests, Ebls./Acre					
Total Calculated Oil Recovery, Ebls./Acre					
Packer Setting, Feet					
Viscosity, Centipoises @					
A. P. I. Gravity, degrees @ 60 °F					
Elevation, Feet					

*For 3.4' of core.

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LOGName Diamond B Industries Lease Finley Well No. 5

<u>Depth Interval, Feet</u>	<u>Description</u>
954.0 - 954.4	Dark sandstone.
954.4 - 954.7	Sandy conglomerate.
954.7 - 955.8	Dark fine grained sandstone.
955.8 - 956.0	Sandy conglomerate.
956.0 - 957.3	Dark brown fine grained sandstone.
957.3 - 957.5	Coal.
957.5 - 958.5	Dark sandstone.
958.5 - 959.2	Gray sandy shale.
959.2 - 960.3	Dark slightly shaly sandstone.
960.3 - 961.3	Brown shaly sandstone.
961.3 - 965.6	Light brown very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company		Diamond B Industries		Lease		Finley		Well No.		5	
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	954.2	21.8	-	-	-	-	73.	0.4	0.4	-	29.20
2	955.2	22.1	-	-	-	-	108.	0.7	1.1	-	75.60
3	955.7	15.7	43	41	84	524	2.3	0.4	1.5	210	0.92
4	956.4	23.4	-	-	-	-	175.	1.3	2.8	-	227.50
5	958.2	23.0	44	34	78	785	368.	1.0	3.8	785	368.00
6	959.8	21.7	-	-	-	-	110.	1.1	4.9	-	121.00
7	962.2	15.1	34	46	80	398	8.2	1.0	5.9	398	8.20
8	963.8	17.3	32	48	80	430	50.	1.0	6.9	430	50.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Diamond B Industries		Lease	Finley		Well No.	5
	Depth Interval, Feet	Feet of Core Analyzed		Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	954.0 - 964.3	6.9		127.6	880.42		
	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
	954.0 - 964.3	6.9	20.3	37.4	42.5	536	1,823

*For 3.4' of core.