



OILFIELD RESEARCH LABORATORIES

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

April 3, 1979

Sieg Drilling Company
923 N. Cherry
Ottawa, Kansas 66067

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Willard Miller Lease, Well No. 1, Franklin County, Kansas, and submitted to our laboratory on March 29, 1979.

This core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:km
5 c to Ottawa, Kansas

- REGISTERED ENGINEERS -

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

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LOG

Company Sieg Drilling Company Lease Willard Miller Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
525.0 - 527.8	Gray sandy shale.
527.8 - 531.7	Brown sandstone with fine shale streaks.
531.7 - 532.6	Brown and gray laminated sandstone and shale.
532.6 - 533.5	Brown slightly shaly sandstone.
533.5 - 534.5	Light brown and gray laminated sandstone and shale.
534.5 - 540.0	Gray sandy shale.
540.0 - 585.0	Gray sandy shale with slight bleeding.

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.		
Sieg Drilling Company	Willard Miller	1		
			Permeability Capacity Ft. x Md.	
			Average Permeability, Millidarcys	
			Fest of Core Analyzed	
			Average Porosity	
			Average Oil Saturation	
			Average Water Saturation	
			Average Oil Content Bbl./A. Ft.	
			Total Oil Content Bbls./Acre	
527.8 - 534.5			6.7	15.9
			19.0	106.38
			55.0	819
			29.2	5,488
527.8 - 534.5			6.7	

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sieg Drilling Company Lease Willard Miller 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			Ft.	Cum. Ft.		
1	527.9	22.3	49	23	848	39.	0.4	0.4	339	15.60
2	528.5	17.4	57	35	769	8.2	0.8	1.2	615	6.56
3	529.5	16.9	47	44	616	9.3	1.0	2.2	616	9.30
4	530.5	19.6	46	29	700	26.	1.0	3.2	700	26.00
5	531.5	22.0	53	18	905	62.	0.7	3.9	634	43.40
6	532.4	14.4	49	40	547	0.69	0.8	4.7	438	0.55
7	533.3	21.0	66	21	1075	4.4	1.0	5.7	1,075	4.40
8	534.3	20.3	68	20	1071	0.57	1.0	6.7	1,071	0.57