



OILFIELD RESEARCH LABORATORIES

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

August 14, 1979

Sooner Exploration, Inc.
6633 E. 47th
Tulsa, Oklahoma 74145

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Rash Lease, Well No. 4-A, Montgomery County, Kansas, and submitted to our laboratory on August 11, 1979.

The core was sampled by a representative of Oilfield Research Laboratories after being received in the laboratory. The core was out of the ground approximately 22 hours before being sampled.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:km
5 c to Tulsa, Oklahoma

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LOG

Company Sooner Exploration, Inc. Lease Rash Well No. 4-A

<u>Depth Interval, Feet</u>	<u>Description</u>
827.0 - 830.4	Gray sandy shale.
830.4 - 845.0	Brown slightly carbonaceous slightly shaly sandstone.
845.0 - 846.8	Brown carbonaceous slightly shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sooner Exploration, Inc. Lease Rash Well No. 4-A

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	830.5	14.3	53	32	85	588	9.5	0.6	0.6	353	5.70
2	831.5	17.1	31	28	59	411	30.	1.0	1.6	411	30.00
3	832.5	15.6	64	11	75	775	2.4	1.0	2.6	775	2.40
4	833.5	18.5	46	22	68	660	47.	1.0	3.6	660	47.00
5	834.5	18.3	49	24	73	696	28.	1.0	4.6	696	28.00
6	835.5	16.9	43	23	66	564	13.	1.0	5.6	564	13.00
7	836.5	14.9	61	13	74	705	1.2	1.0	6.6	705	1.20
8	837.5	17.6	50	19	69	683	13.	1.0	7.6	683	13.00
9	838.5	14.6	56	22	78	634	12.	1.0	8.6	634	12.00
10	839.5	15.2	61	17	78	719	5.4	1.0	9.6	719	5.40
11	840.5	17.4	48	17	65	648	15.	1.0	10.6	648	15.00
12	841.5	16.3	42	20	62	531	3.1	1.0	11.6	531	3.10
13	842.5	14.4	51	26	77	570	21.	1.0	12.6	570	21.00
14	843.5	14.2	62	15	77	683	2.1	1.0	13.6	683	2.10
15	844.5	16.9	47	21	68	616	15.	1.0	14.6	616	15.00
16	845.5	15.9	62	13	75	765	3.5	1.8	16.4	1377	6.30

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Sooner Exploration, Inc.	Lease	Rash	Well No.	4-A
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
830.4 - 846.8	16.4	13.4	220.20	52.1	19.5	648
830.4 - 846.8	16.4	16.2		16.2		10,625