

OILFIELD RESEARCH LABORATORIES

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February 29, 1980

Sooner Exploration, Inc.
6807 E. 89th.
Tulsa, Oklahoma 74113

Gentlemen:

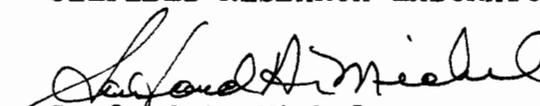
Enclosed herewith are the results of tests run on the rotary cores taken from the Rash Lease, Well No. 7-A, Montgomery County, Kansas and submitted to our laboratory on February 16, 1980.

The cores were sampled by a representative of Oilfield Research Laboratories after it was received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/kas
3 c to Tulsa, Oklahoma

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Sooner Exploration, Inc. Lease Rash Well No. 7-A

Location —

Section 24 Twp. 31S Rge. 16E County Montgomery State Kansas

Elevation, Feet

Name of Sand	Stray	Bartlesville
Top of Core	826.0	873.0
Bottom of Core	841.0	879.0
Top of Sand	826.0	873.0
Bottom of Sand (Tested)	840.0	877.5
Total Feet of Permeable Sand	10.0	3.5

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

STRAY SAND

0 - 1	2.0	2.0
1 - 2	4.7	6.7
2 & Above	3.3	10.0

BARTLESVILLE SAND

0 - 1	2.2	2.2
1 & Above	1.3	3.5

Average Permeability Millidarcys	1.9	3.7
Average Percent Porosity	13.1	12.6
Average Percent Oil Saturation	24.6	37.3
Average Percent Water Saturation	47.5	30.4
Average Oil Content, Bbls./A. Ft.	249.	366.
Total Oil Content, Bbls./Acre	3,492.	1,645.

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LOG

Name Sooner Exploration, Inc. Lease Rash Well No. 7-A

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>STRAY SAND</u>
826.0 - 827.7	Gray shaly sandstone.
827.7 - 841.0	Very light brown shaly sandstone.
	<u>BARTLESVILLE SAND</u>
873.0 - 874.3	Brown sandstone.
874.3 - 875.4	Brown shaly carbonaceous sandstone.
875.4 - 877.5	Brown and gray laminated sandstone and shale.
877.5 - 879.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sooner Exploration, Inc. Lease Rash Well No. 7-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			Ft.	Cum. Ft.		
					<u>STRAY SAND</u>					
1	826.5	13.2	13	58	133	Imp.	1.0	1.0	133	0.00
2	827.5	14.2	5	55	55	1.6	0.7	1.7	39	1.12
3	828.5	13.7	31	36	330	2.8	1.3	3.0	429	3.64
4	829.5	13.1	24	48	244	1.6	1.0	4.0	244	1.60
5	830.5	13.9	26	41	280	1.6	1.0	5.0	280	1.60
6	831.5	13.7	30	42	319	3.9	1.0	6.0	319	3.90
7	832.5	12.5	22	47	213	1.7	1.0	7.0	213	1.70
8	833.5	14.1	27	33	295	1.9	1.0	8.0	295	1.90
9	834.5	14.1	31	28	339	2.2	1.0	9.0	339	2.20
10	835.5	11.3	25	50	219	0.63	1.0	10.0	219	0.63
11	836.5	11.2	28	64	243	Imp.	1.0	11.0	243	0.00
12	837.5	13.9	28	48	302	Imp.	1.0	12.0	302	0.00
13	838.5	13.9	18	62	194	Imp.	1.0	13.0	194	0.00
14	839.5	11.2	28	59	243	0.36	1.0	14.0	243	0.36
					<u>BARTLESVILLE SAND</u>					
1	873.5	12.7	40	15	394	9.4	1.3	1.3	512	12.22
2	874.5	13.0	47	13	474	0.20	1.1	2.4	521	0.22
3	875.5	12.4	28	50	269	Imp.	1.0	3.4	269	0.00
4	876.5	12.2	33	48	312	0.32	1.1	4.5	343	0.35

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Sooner Exploration, Inc.	Lease	Rash	Well No.	7-A
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
		<u>STRAY SAND</u>			
	826.0 - 835.0	8.0	2.2	17.66	
	835.0 - 840.0	2.0	0.50	0.99	
	826.0 - 840.0	10.0	1.9	18.65	
		<u>BARTLESVILLE SAND</u>			
	873.0 - 877.5	3.5	3.7	12.79	
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre
		<u>STRAY SAND</u>			
	826.0 - 835.0	9.0	24.1	255	2,291
	835.0 - 840.0	5.0	25.4	240	1,201
	826.0 - 840.0	14.0	24.6	249	3,492
		<u>BARTLESVILLE SAND</u>			
	873.0 - 877.5	4.5	37.3	366	1,645