



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

June 26, 1968

Savonburg Oil Company
Attention: Mr. Vic Cook
6334 South Rosebury
St. Louis, Missouri 63105

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Manson Lease; Well No. 1, Allen County, Kansas, and submitted to our laboratory on June 21, 1968.

This core was sampled and submitted to our laboratory by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:wd

3 c. - St. Louis, Missouri
2 c. - Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Company Savonburg Oil Company Lease Manson Well No. 1

Location SW, SE, SE

Section 29 Twp. 26S Rge. 20E County Allen State Kansas

Name of Sand	- - - - -	Bartlesville
Top of Core	- - - - -	788.0
Bottom of Core	- - - - -	823.7
Top of Sand	- - - - -	799.2
Pay	- - - - -	
Bottom of Sand	- - - - -	818.9
Total Feet of Permeable Sand (Analyzed)	- - - - -	15.0
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 100	4.7	4.7
100 - 200	2.3	7.0
200 - 300	4.0	11.0
300 & above	4.0	15.0

Average Permeability Millidarcys	- - - - -	222.3
Average Percent Porosity	- - - - -	19.3
Average Percent Oil Saturation	- - - - -	38.3
Average Percent Water Saturation	- - - - -	33.3
Average Oil Content, Bbls./A. Ft.	- - - - -	579.
Total Oil Content, Bbls./Acre	- - - - -	8,281.
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 Savonburg Oil Company Lease Manson Well No. 1

Depth Interval, Feet	Description
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788.0 - 788.7	- Brown fine grained micaceous sandstone.
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788.7 - 789.0	- Light brown sandstone.
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789.0 - 791.0	- Dark shale.
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791.0 - 799.0	- Core not received.
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799.0 - 799.2	- Gray shale.
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799.2 - 801.1	- Dark conglomeratic sandstone.
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801.1 - 811.0	- Brown fine grained sandstone.
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811.0 - 811.6	- Light brown micaceous carbonaceous sandstone.
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811.6 - 818.9	- Brown fine grained sandstone
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818.9 - 820.6	- Gray and light brown slightly calcareous sandstone.
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820.6 - 822.3	- Brown fine grained sandstone.
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822.3 - 823.7	- Brown and gray slightly calcareous sandstone.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Savonburg Oil Company Lease Manson 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	Total			Ft.	Cum. Ft.		
1	788.5	16.4	33	31	64	420	107.	0.7	0.7	294	75.00
2	799.5	16.9	38	21	59	498	13.	1.3	2.0	647	16.90
3	801.5	23.1	50	21	71	896	263.	1.0	3.0	896	263.00
4	803.5	22.2	46	16	62	792	340.	1.0	4.0	792	340.00
5	805.5	23.2	41	19	60	738	754.	1.0	5.0	738	754.00
6	807.5	21.2	43	21	64	707	143.	1.0	6.0	707	143.00
7	809.5	19.2	39	32	71	581	433.	1.0	7.0	581	433.00
8	811.5	15.5	57	37	94	786	170.	0.6	7.6	472	102.00
9	813.5	18.6	44	33	77	635	84.	1.0	8.6	635	84.00
10	814.5	21.0	42	32	74	684	314.	1.0	9.6	684	314.00
11	815.5	22.5	33	29	62	576	203.	1.0	10.6	576	203.00
12	816.5	19.7	38	34	72	581	250.	1.0	11.6	581	250.00
13	818.5	15.7	41	37	78	499	273.	1.0	12.6	499	273.00
14	820.5	14.6	18	62	80	204	0.54	1.0	13.6	204	0.54
15	822.5	11.8	21	65	86	192	2.2	1.4	15.0	269	3.08

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Savonburg Oil Company Lease Manson Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
799.2 - 818.9	11.9	266.9	3,175.90
819.4 - 823.7	2.4	1.5	3.62
799.2 - 823.7	14.3	222.3	3,179.52

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
799.2 - 818.9	11.9	20.6	42.0	27.2	656	7,808
819.4 - 823.7	2.4	13.0	19.7	63.8	197	473
799.2 - 823.7	14.3	19.3	38.3	33.3	579	8,281

Note: Sample #1 is not included in the above averages.