

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: HE 1-2650

January 11, 1962

Ross Schoonover
1000 West 6th
Topeka, Kansas

Dear Sir:

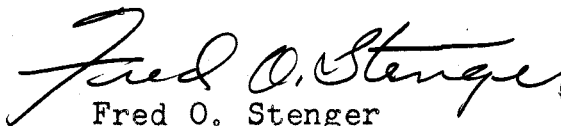
Enclosed herewith are the results of tests run on the Rotary core taken from the Broers Lease, Well No. 4, Franklin County, Kansas, and submitted to our laboratory on January 7, 1962.

This core was sampled and the samples sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Fred O. Stenger

FOS:rf

5 c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Ross Schoonover Lease Broers Well No. 4

Location NE $\frac{1}{4}$

Section 25 Twp. 15S Rge. 20E County Franklin State Kansas

Name of Sand	Squirrel
Top of Core	742.0 ✓
Bottom of Core	776.0
Top of ^{Good} Sand	748.0
Bottom of Sand (Received)	776.0 ✓
Total Feet of Permeable Sand (Analyzed)	31.0
Total Feet of Floodable Sand	-

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
--	------	----------

Average Permeability Millidarcys	81.
Average Percent Porosity	21.8
Average Percent Oil Saturation	43.1
Average Percent Water Saturation	37.0
Average Oil Content, Bbls./A. Ft.	724.
Total Oil Content, Bbls./Acre	24,664.
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	-

OILFIELD RESEARCH LABORATORIES

LOG

Company Ross Schoonover Lease Broers Well No. 4

Depth Interval, Description
Feet

742.0 - 748.0 - Light brown sandstone.

748.0 - 755.0 - Brown sandstone.

755.0 - 756.0 - Brown laminated, slightly shaley sandstone.

756.0 - 765.0 - Brown, slightly shaley sandstone.

765.0 - 772.0 - Brown, laminated, shaley sandstone.

772.0 - 776.0 - Brown sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Ross Schoonover

Lease Broers

Well No. 4

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	742.5	23.0	27	42	69	481	75.	1.0	1.0	481	75.00
2	743.5	22.5	26	41	67	454	47.	1.0	2.0	454	47.00
3	744.5	23.5	30	39	69	546	55.	1.0	3.0	546	55.00
4	745.5	23.8	29	38	67	535	97.	1.0	4.0	535	97.00
5	746.5	23.1	31	39	70	555	37.	1.0	5.0	555	37.00
6	747.5	24.3	36	34	70	679	74.	1.0	6.0	679	74.00
7	748.5	22.1	54	32	86	924	27.	1.0	7.0	924	27.00
8	749.5	20.5	50	35	85	795	72.	1.0	8.0	795	72.00
9	750.5	22.4	57	29	86	990	34.	1.0	9.0	990	34.00
10	751.5	24.0	61	24	85	1,136	166.	1.0	10.0	1,136	166.00
11	752.5	24.2	53	24	77	994	71.	1.0	11.0	994	71.00
12	753.5	23.8	52	25	77	960	133.	1.0	12.0	960	133.00
13	754.5	20.2	45	33	78	704	44.	1.0	13.0	704	44.00
14	755.5	16.7	42	46	88	544	41.	1.0	14.0	544	41.00
15	756.5	19.9	52	30	82	802	21.	1.0	15.0	802	21.00
16	757.5	21.0	46	31	77	749	24.	1.0	16.0	749	24.00
17	758.5	18.0	49	36	85	684	13.	1.0	17.0	684	13.00
18	759.5	21.2	55	33	88	903	26.	1.0	18.0	903	26.00
19	760.5	21.2	52	36	88	854	39.	1.0	19.0	854	39.00
20	761.5	20.4	51	43	94	806	25.	1.0	20.0	806	25.00
21	762.5	20.3	47	41	88	740	14.	1.0	21.0	740	14.00
22	763.5	21.4	46	35	81	763	29.	1.0	22.0	763	29.00
23	764.5	20.2	49	42	91	766	19.	1.0	23.0	766	19.00
24	765.5	19.1	42	46	88	622	15.	1.0	24.0	622	15.00
25	766.5	19.3	46	42	88	689	-	1.0	25.0	689	-
26	767.5	23.8	36	36	72	664	67.	1.0	26.0	664	67.00
27	768.5	22.8	36	37	73	636	28.	1.0	27.0	636	28.00
28	769.5	16.9	34	57	91	445	-	1.0	28.0	445	-

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Ross Schoonover Lease Broers Well No. 4

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.		
29	770.5	24.0	41	37	763	-	1.0	29.0	763	-
30	771.5	21.0	49	34	798	9.2	1.0	30.0	798	9.20
31	772.5	26.0	36	37	725	243.	1.0	31.0	725	243.00
32	773.5	21.3	45	38	743	411.	1.0	32.0	743	411.00
33	774.5	24.9	31	44	598	446.	1.0	33.0	598	446.00
34	775.5	24.9	32	45	617	112.	1.0	34.0	617	112.00
							Total	-----	24,664	

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Broers	Well No.		
Ross Schoonover				4	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
742.0 - 756.0	14.0	69.4	973.00		
756.0 - 766.0	10.0	22.5	225.00		
766.0 - 776.0	7.0	187.5	1,316.20		
742.0 - 776.0	31.0	81.0	2,514.20		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Ebl./A. Ft.	Total Oil Content Ebls./Acre
742.0 - 756.0	14.0	22.5	42.4	735	10,297
756.0 - 766.0	10.0	20.3	48.9	769	7,689
766.0 - 776.0	10.0	22.5	38.6	668	6,678
742.0 - 776.0	34.0	21.8	43.1	724	24,664