● CORE ANALYSIS ● WATER REPRESSURING ENGINEERING ● WATER ANALYSIS ● FLOODING WATER TREATMENT ● SURVEYING

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

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

July 19, 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, Disposal Well, Franklin County, Kansas, and submitted to our laboratory on July 14, 1962.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Fred O. Stenger

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Ross Schoonover Lease Broers Well No. Disposal Well

Location NE¼

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

Name of Sand	Squirrel
Top of Core	747.0
Bottom of Core	764.0
Top of Sand	747.0
Bottom of Sand	762.0
Total Feet of Permeable Sand	15.0
Total Feet of Floodable Sand	-

(Received)

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	7.0	7.0
10 - 20	7.0	14.0
20 & above	1.0	15.0

Average Permeability Millidarcys	10.4
Average Percent Porosity	17.4
Average Percent Oil Saturation	32.1
Average Percent Water Saturation	49.3
Average Oil Content, Bbls./A. Ft.	430.
Total Oil Content, Bbls./Acre	6,456.
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	

-LOG-

Company Ross Schoonover Lease Broers Disposal Well

Depth Interval, Feet	Description
747.0 - 756.0	Brown, laminated, shaly sandstone.
756.0 - 757.0	Brown, slightly shaly sandstone.
757.0 - 759.0	Brown and gray, laminated shaly sandstone.
759.0 - 762.0	Brown sandstone.
762.0 - 764.0	Sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Ross Schoonover Lease Broers Well No. Disposal Well

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	747.5	20.8	28	39	67	474	11.	1.0	1.0	474	11.00
2	748.5	21.6	26	40	66	435	7.9	1.0	2.0	435	7.90
3	749.5	20.8	27	41	68	457	14.	1.0	3.0	457	14.00
4	750.5	16.9	27	55	82	354	2.6	1.0	4.0	354	2.60
5	751.5	18.6	31	45	76	448	7.7	1.0	5.0	448	7.70
6	752.5	20.0	33	38	71	512	9.6	1.0	6.0	512	9.60
7	753.5	17.5	15	56	71	204	1.7	1.0	7.0	204	1.70
8	754.5	15.0	35	52	87	407	12.	1.0	8.0	407	12.00
9	755.5	14.5	13	73	86	146	14.	1.0	9.0	146	14.00
10	756.5	14.2	47	50	97	518	14.	1.0	10.0	518	14.00
11	757.5	17.9	33	45	78	458	1.2	1.0	11.0	458	1.20
12	758.5	16.4	29	57	86	369	3.6	1.0	12.0	369	3.60
13	759.5	15.7	51	46	97	622	18.	1.0	13.0	622	18.00
14	760.5	14.9	42	54	96	486	22.	1.0	14.0	486	22.00
15	761.5	16.2	45	49	94	566	17.	1.0	15.0	566	17.00
	47										
	8 c							Total	-------	6,456	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Ross Schoonover Lease Broers Well No. Disposal Well

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
747.0 - 754.0	7.0	7.8	54.50
754.0 - 762.0	8.0	12.7	101.80
747.0 - 762.0	15.0	10.4	156.30

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
747.0 - 754.0	7.0	19.5	26.7	44.9	412	2,884
754.0 - 762.0	8.0	15.6	36.9	53.3	447	3,572
747.0 - 762.0	15.0	17.4	32.1	49.3	430	6,456