



OILFIELD RESEARCH LABORATORIES

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

May 24, 1966

Robert K. Butcher
510 Thompson Building
Tulsa, Oklahoma

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the 53 State Street Corporation Lease, Well No. 2-A, Greenwood County, Kansas, and submitted to our laboratory on May 20, 1966.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

4 c. - Tulsa, Oklahoma
2 c. - Madison, Kansas
1 c. - Shreveport, La.

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Company Robert K. Butcher Lease 53 State St. Corp. Well No. 2-A

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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2290.0 - 2298.0 - Dark shale.

2298.0 - 2308.0 - Sandy shale.

2308.0 - 2316.0 - Laminated sandstone and shale.

2316.0 - 2319.0 - Grayish light brown, laminated, shaly sandstone.

2319.0 - 2320.0 - Shale.

2320.0 - 2339.0 - Light brown, coarse grained sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Robert K. Butcher

Lease 53 State Street Corporation

Well No. 2-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.		
1	2308.1	7.7	30	60	179	Imp.	0.6	0.6	107	0.00
2	2309.1	8.6	18	77	120	Imp.	1.0	1.6	120	0.00
3	2310.1	15.4	11	73	131	0.27	1.0	2.6	131	0.27
4	2312.1	14.4	13	61	145	1.2	0.8	3.4	116	0.96
5	2313.1	13.9	13	62	140	0.69	0.9	4.3	126	0.62
6	2316.1	15.5	17	58	204	1.7	0.6	4.9	122	1.02
7	2317.1	16.2	21	57	264	5.1	1.0	5.9	264	5.10
8	2318.1	15.5	22	55	264	4.6	1.4	7.3	370	6.44
9	2320.1	17.1	42	44	556	2.0	0.6	7.9	334	1.20
10	2321.1	18.9	27	44	396	84.	1.0	8.9	396	84.00
11	2322.1	20.9	17	51	276	27.	1.0	9.9	276	27.00
12	2323.1	21.8	25	50	423	58.	1.0	10.9	423	58.00
13	2324.1	18.3	30	60	426	184.	1.0	11.9	426	184.00
14	2325.1	20.4	38	50	601	241.	1.0	12.9	601	241.00
15	2326.1	20.7	26	44	417	70.	1.0	13.9	417	70.00
16	2327.1	21.2	34	39	559	101.	1.0	14.9	559	101.00
17	2328.1	21.2	35	50	575	184.	1.0	15.9	575	184.00
18	2329.1	19.8	23	52	354	99.	1.0	16.9	354	99.00
19	2330.1	17.8	31	66	428	153.	1.0	17.9	428	153.00
20	2331.1	19.6	33	50	501	556.	1.0	18.9	501	556.00
21	2332.1	17.3	24	57	322	51.	1.0	19.9	322	51.00
22	2333.1	20.6	15	75	239	202.	1.0	20.9	239	202.00
23	2334.1	19.1	14	63	207	184.	1.0	21.9	207	184.00
24	2335.1	19.8	26	72	399	241.	1.0	22.9	399	241.00
25	2336.1	18.7	22	58	319	181.	1.0	23.9	319	181.00
26	2337.1	18.3	17	61	241	151.	1.0	24.9	241	151.00
							Total	-----	8,373	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.			
Robert K. Butcher	53 State St. Corp.	2-A			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
2308.0 - 2319.0	5.7	2.5	14.41		
2320.0 - 2337.6	17.6	157.2	2,768.20		
2308.0 - 2337.6	23.3	119.6	2,782.61		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
2308.0 - 2319.0	7.3	13.7	18.0	187	1,356
2320.0 - 2337.6	17.6	19.6	26.2	398	7,017
2308.0 - 2337.6	24.9	17.8	23.8	336	8,373