

# OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION  
OKMULGEE, OKLAHOMA  
PHONE: 4444

Chanute, Kansas

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

November 1, 1961

Oil Recovery Corporation  
405 Lexington Avenue  
New York 17, New York

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Russell Unit, Well No. CT-3, Neosho County, Kansas, and submitted to our laboratory on October 29, 1961.

This core was brought in sealed in plastic bags and sampled after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Carl L. Pate

CLP:rf

1 c. - New York  
3 c. - Tulsa  
1 c. - Chanute  
1 c. - Keas Drilling Co.



## OILFIELD RESEARCH LABORATORIES

LOGCompany Oil Recovery Corp. Lease Russell Unit Well No. CT-3

<u>Depth Interval,</u>	<u>Description</u>
<u>Feet</u>	

767.7 - 771.7 - Sandy shale.

771.7 - 775.0 - Light brown shaley sandstone.

775.0 - 776.7 - Sandy shale.

776.7 - 777.0 - Brown shaley sandstone.

777.0 - 778.7 - Sandy shale.

778.7 - 782.0 - Brown sandstone.

782.0 - 783.7 - Sandy shale.

783.7 - 790.7 - Brown laminated shaley sandstone.

790.7 - 796.7 - Dark brown sandstone.

796.7 - 798.0 - Brown to dark carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Oil Recovery Corp. Lease Russell Unit Well No. CT-3

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	771.9	17.9	34	54	88	473	6.0	0.7	0.7	331	4.20
2	772.9	16.8	31	59	90	404	20.	1.0	1.7	404	20.00
3	773.9	20.6	39	38	77	624	12.	1.0	2.7	624	12.00
4	774.9	16.3	19	60	79	240	9.5	0.6	3.3	144	5.70
5	776.9	17.4	54	35	89	730	1.3	0.3	3.6	219	0.39
6	778.9	22.0	47	46	93	803	146.	0.7	4.3	562	102.20
7	779.9	20.8	35	42	77	565	61.	1.0	5.3	565	61.00
8	780.9	20.7	34	46	80	546	21.	1.0	6.3	546	21.00
9	781.9	18.7	35	48	83	508	7.1	0.6	6.9	304	4.26
10	783.9	21.5	46	37	83	768	3.2	0.7	7.6	537	2.24
11	784.9	16.5	35	39	74	448	37.	1.0	8.6	448	37.00
12	785.9	18.4	53	39	92	757	Imp.	1.0	9.6	757	0.00
13	786.9	16.7	38	51	89	492	3.7	1.0	10.6	492	3.70
14	787.9	21.0	34	46	80	654	0.90	1.0	11.6	654	0.90
15	788.9	18.3	28	49	77	398	35.	1.0	12.6	398	35.00
16	789.9	20.3	35	53	88	551	9.5	1.3	13.9	716	12.35
17	790.9	16.6	41	41	82	528	260.	0.7	14.6	370	182.00
18	791.9	20.9	42	38	80	681	50.	1.0	15.6	681	50.00
19	792.9	17.5	51	39	90	692	33.	1.0	16.6	692	33.00
20	793.9	18.2	40	49	89	565	14.	1.0	17.6	565	14.00
21	794.9	19.9	46	33	79	710	164.	1.0	18.6	710	164.00
22	795.9	20.0	40	40	80	621	326.	1.3	19.9	820	423.80
23	796.9	19.1	39	39	78	578	91.	0.7	20.6	405	63.70
24	797.9	18.2	45	26	71	635	20.	0.6	21.2	381	12.00
Total								-----		12,325	

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Russell Unit	Well No.		
Oil Recovery Corp.			CT-3		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
771.7 - 782.0	6.9	33.5	230.75		
783.7 - 790.7	6.0	15.2	91.19		
790.7 - 798.0	7.3	129.1	942.50		
771.7 - 798.0	20.2	62.6	1,264.44		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
771.7 - 782.0	6.9	19.3	35.5	48.0	536
783.7 - 790.7	7.0	18.9	37.9	45.6	573
790.7 - 798.0	7.3	19.0	43.0	38.8	634
771.7 - 798.0	21.2	19.0	38.8	44.0	582
					3,699
					4,002
					4,624
					12,325