

9-22-19E



OILFIELD RESEARCH LABORATORIES

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

May 10, 1966

Russell Operating Company
101 Petroleum Building
Abilene, Texas

Attn: Mr. James E. Russell

Gentlemen:

Enclosed herewith are the results of permeability and porosity tests run on the Rotary core taken from the Strain Lease, Well No. DW-2, Anderson County, Kansas, and submitted to our laboratory on May 7, 1966.

This core was brought in to the laboratory by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Benjamin R. Pearman

BRP:rf

3 c. - Colony, Kansas
2 c. - Houston, Texas
1 c. - Chanute, Kansas

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-LOG-

Company Russell Operating Company Lease Strain Well No. DW-2

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

796.0 - 816.0 - Laminated sandstone and shale.

816.0 - 819.0 - Light brown, laminated, shaly sandstone.

819.0 - 820.0 - Sandy shale.

820.0 - 827.0 - Light brown, laminated, shaly sandstone.

827.0 - 828.0 - Sandy shale.

828.0 - 830.0 - Brown, laminated, slightly shaly sandstone.

830.0 - 836.0 - Laminated sandstone and shale.

836.0 - 839.0 - Hard calcareous shale.

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RESULTS OF PERMEABILITY AND POROSITY TESTS
TABLE I A

Company Russell Operating Company Lease _____ Strain _____ Well No. DW-2

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	796.5	Imp.	1.0	1.0	0.00	11.5
2	797.5	2.3	1.0	2.0	2.30	16.1
3	798.5	Imp.	1.0	3.0	0.00	7.2
4	799.5	Imp.	1.0	4.0	0.00	6.9
5	800.5	Imp.	1.0	5.0	0.00	12.7
6	801.5	Imp.	1.0	6.0	0.00	10.8
7	802.5	Imp.	1.0	7.0	0.00	6.6
8	803.5	Imp.	1.0	8.0	0.00	8.9
9	804.5	Imp.	1.0	9.0	0.00	5.1
10	805.5	0.22	1.0	10.0	0.22	12.8
11	806.5	0.38	1.0	11.0	0.38	13.4
12	807.5	Imp.	1.0	12.0	0.00	13.6
13	808.5	Imp.	1.0	13.0	0.00	12.6
14	809.5	3.9	1.0	14.0	3.90	16.4
15	810.5	Imp.	1.0	15.0	0.00	8.7
16	811.5	0.58	1.0	16.0	0.58	14.9
17	812.5	Imp.	1.0	17.0	0.00	11.5
18	813.5	0.67	1.0	18.0	0.67	12.9
19	814.5	0.44	1.0	19.0	0.44	14.5
20	815.5	1.0	1.0	20.0	1.00	14.4
21	816.5	3.5	1.0	21.0	3.50	14.5
22	817.5	4.8	1.0	22.0	4.80	17.9
23	818.5	2.4	1.0	23.0	2.40	14.8
24	819.5	Imp.	1.0	24.0	0.00	8.6
25	820.5	3.7	1.0	25.0	3.70	15.8
26	821.5	5.8	1.0	26.0	5.80	16.2
27	822.5	6.0	1.0	27.0	6.00	15.7
28	823.5	9.7	1.0	28.0	9.70	18.5
29	824.5	3.9	1.0	29.0	3.90	16.1
30	825.5	0.74	1.0	30.0	0.74	11.5
31	826.5	21.	1.0	31.0	21.00	20.7
32	827.5	Imp.	1.0	32.0	0.00	9.3
33	828.5	17.	1.0	33.0	17.00	21.5
34	829.5	26.	1.0	34.0	26.00	22.1
35	830.5	Imp.	1.0	35.0	0.00	7.1

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RESULTS OF PERMEABILITY AND POROSITY TESTS
TABLE I A

Company Russell Operating Company Lease Strain Well No. DW-2

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
36	831.5	Imp.	1.0	36.0	0.00	10.0
37	832.5	0.53	1.0	37.0	0.53	11.9
38	833.5	1.2	1.0	38.0	1.20	12.0
39	834.5	0.34	1.0	39.0	0.34	11.6
40	835.5	Imp.	1.0	40.0	0.00	9.0

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company	Russell Operating Company		Lease	Strain	Well No.	DW-2
Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity	Average Percent Porosity
796.0 - 816.0	20.0	1.2		9.49	11.6	
816.0 - 830.0	14.0	8.7		104.54	15.9	
830.0 - 836.0	6.0	0.69		2.07	10.3	
796.0 - 836.0	40.0	5.1		116.10	12.9	