

15-001-26360

Core Available

21-26-21E

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

Company James E. Russell Petroleum, Inc. Lease Nelson Well No. RW-7

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	649.5	13.9	45	46	91	485	1.1	1.1	1.1	534	1.21
2	650.6	15.4	35	60	95	418	3.5	0.5	1.6	209	1.75
3	651.5	15.0	44	53	97	512	3.6	1.0	2.6	512	3.60
4	652.5	14.6	28	58	86	317	2.4	1.0	3.6	317	2.40
5	653.5	20.8	66	30	96	1065	35.	0.9	4.5	959	31.50
6	654.5	18.3	55	40	95	781	11.	1.0	5.5	781	11.00
7	655.5	20.8	62	29	91	1001	30.	0.8	6.3	801	24.00
8	656.6	16.3	50	43	93	632	2.6	0.5	6.8	316	1.30
9	658.5	18.5	43	36	79	617	30.	0.6	7.4	370	18.00
10	659.5	19.5	47	35	82	711	22.	1.0	8.4	711	22.00
11	660.6	20.7	43	47	90	691	13.	1.0	9.4	691	31.00
12	661.5	17.0	49	43	92	646	5.6	1.0	10.4	646	5.60
13	662.4	17.6	55	43	98	751	11.	1.0	11.4	751	11.00
14	663.6	19.4	48	46	94	722	35.	1.0	12.4	722	35.00
15	664.4	18.5	52	43	95	746	27.	1.0	13.4	746	27.00
16	665.5	21.0	42	46	88	684	32.	1.0	14.4	684	32.00
17	666.5	20.5	41	51	92	652	25.	1.0	15.4	652	25.00
18	667.6	21.7	33	64	97	556	52.	1.0	16.4	556	52.00
19	668.5	19.2	35	61	96	521	31.	1.0	17.4	521	31.00
			<u>AVERAGES</u>							<u>TOTALS</u>	
	649.4 - 653.0	14.6	38.6	53.2			2.5		3.6	1,572	8.96
	653.0 - 669.0	19.4	47.8	44.4			24.6		13.8	9,907	339.40
	649.4 - 669.0	18.4	45.9	46.2			20.0		17.4	11,479	348.36

The core was sampled by a representative of Oilfield Research Laboratories. Salt water mud and KCl were used as a drilling fluid.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval, Feet</u>	<u>Description</u>
637.0 - 649.4	Shale, gray.
649.4 - 650.5	Sandstone, shaly, light brown, with scattered gray shale and mica partings and scattered fine coal inclusions.
650.5 - 651.0	Sandstone, shaly, brown.
651.0 - 653.0	Sandstone, shaly, light brown, with scattered gray shale and mica partings.
653.0 - 653.9	Sandstone, brown.
653.9 - 654.4	Sandstone, shale, and coal, laminated, gray and brown.
654.4 - 656.2	Sandstone, brown, with scattered gray shale and mica partings.
656.2 - 656.5	Shale, gray.
656.5 - 657.0	Sandstone, shaly, brown.
657.0 - 658.4	Sandstone, brown, (ground up).
658.4 - 659.0	Sandstone, brown.
659.0 - 660.0	Sandstone, brown, with scattered gray shale and mica partings.
660.0 - 661.0	Sandstone, brown.
661.0 - 662.0	Sandstone, shaly, brown.
662.0 - 669.0	Sandstone, brown.
669.0 - 677.0	Shale, gray.
677.0 - 678.3	Shale, slightly sandy, gray.