

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

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Company James E. Russell Petroleum, Inc. Lease C. E. McGhee Well No. W-8

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	740.4	9.8	15	75	90	114	Imp.	1.0	1.0	114	0.00
2	741.4	7.4	12	83	95	69	Imp.	1.0	2.0	69	0.00
3	742.4	8.6	7	89	96	47	Imp.	1.0	3.0	47	0.00
4	743.5	11.6	27	70	97	243	0.29	0.7	3.7	170	0.20
5	744.5	17.4	32	35	67	432	3.9	0.7	4.4	302	2.73
6	745.5	15.7	36	34	70	439	3.4	0.6	5.0	263	2.04
7	746.5	14.2	12	71	83	132	0.95	1.4	6.4	185	1.33
8	747.5	14.7	19	60	79	217	2.1	1.0	7.4	217	2.10
9	748.5	15.2	31	47	78	366	0.43	1.0	8.4	366	0.43
10	749.4	13.9	22	67	89	237	0.54	1.0	9.4	237	0.54
11	750.4	17.6	32	40	72	437	9.6	1.0	10.4	437	9.60
12	751.4	18.0	31	55	86	433	8.0	1.0	11.4	433	8.00
13	752.5	14.4	31	53	84	346	0.89	1.0	12.4	346	0.89
14	753.6	13.7	29	58	87	308	0.82	1.0	13.4	308	0.82
15	754.5	12.8	38	58	96	377	0.60	1.0	14.4	377	0.60
16	755.5	13.6	47	50	97	496	0.95	0.6	15.0	298	0.57
17	756.5	17.4	35	33	68	473	12.	0.7	15.7	331	8.40
18	757.6	16.9	47	26	73	616	16.	1.0	16.7	616	16.00
19	758.5	16.8	40	37	77	521	4.7	0.6	17.3	313	2.82
20	759.5	17.1	43	35	78	570	6.6	1.9	19.2	1083	12.54
21	761.3	16.5	51	28	79	653	6.7	0.5	19.7	327	3.35
22	762.5	16.8	51	26	77	665	8.9	1.6	21.3	1064	14.24
23	763.5	16.0	37	41	77	459	2.5	0.6	21.9	275	1.50
24	764.7	16.7	45	36	81	583	5.7	1.0	22.9	583	5.70
25	765.6	16.5	34	38	72	435	2.4	1.0	23.9	435	2.40
26	766.5	13.6	31	57	88	327	Imp.	1.0	24.9	327	0.00
27	767.6	15.7	51	39	90	621	2.6	1.0	25.9	621	2.60
28	768.7	16.4	41	36	77	522	5.8	1.0	26.9	522	5.80

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Company James E. Russell Petroleum, Inc. Lease C. E. McGhee Well No. W-8

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RESULTS OF LABORATORY FLOODING TESTS

Company James E. Russell Petroleum, Inc.

Lease C. E. McGhee

Well No W-8

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
1	740.4	10.3	15	120	0	0	15	75	120	0	Imp.	-
2	741.4	7.9	12	74	0	0	12	83	74	0	Imp.	-
3	742.4	8.9	7	48	0	0	7	89	48	0	Imp.	-
4	743.5	12.1	26	244	0	0	26	71	244	0	Imp.	-
5	744.5	16.9	33	433	0	0	33	34	433	0	Imp.	-
6	745.5	15.7	36	438	0	0	36	34	438	0	Imp.	-
7	746.5	14.7	12	137	0	0	12	71	137	0	Imp.	-
8	747.5	15.0	19	221	0	0	19	61	221	0	Imp.	-
9	748.5	15.7	30	365	0	0	30	48	365	0	Imp.	-
10	749.4	13.9	22	237	0	0	22	68	237	0	Imp.	-
11	750.4	17.6	32	437	0	0	32	40	437	0	Imp.	-
12	751.4	18.4	30	428	0	0	30	56	428	0	Imp.	-
13	752.5	14.9	30	347	0	0	30	54	347	0	Imp.	-
14	753.6	13.8	29	310	0	0	29	59	310	0	Imp.	-
15	754.5	13.0	38	383	0	0	38	58	383	0	Imp.	-
16	755.5	14.0	46	500	0	0	46	51	500	18	0.22	45
17	756.5	17.9	35	486	2	28	33	51	458	4	0.15	50
18	757.6	17.1	47	624	15	199	32	59	425	8	0.15	50
19	758.5	17.0	40	528	0	0	40	37	528	0	Imp.	-
20	759.5	17.3	43	577	6	81	37	57	496	0	0.01	50
21	761.3	16.9	50	656	0	0	50	29	656	0	Imp.	-
22	762.5	16.8	51	665	0	0	51	27	665	0	Imp.	-
23	763.5	16.5	36	461	0	0	36	42	461	0	Imp.	-
24	764.7	16.7	45	583	0	0	45	36	583	0	Imp.	-
25	765.6	17.0	33	435	0	0	33	39	435	0	Imp.	-
26	766.5	13.8	31	332	0	0	31	57	332	0	Imp.	-

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Notes: cc—cubic centimeter.

*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.

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RESULTS OF LABORATORY FLOODING TESTS

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Company James E. Russell Petroleum, Inc. Lease C. E. McGhee Well No. W-8

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
27	767.6	15.5	51	613	0	0	51	39	613	0	Imp.	-
28	768.7	16.3	41	518	0	0	41	37	518	0	Imp.	-
29	769.3	17.7	38	522	0	0	38	27	522	0	Imp.	-
30	770.7	11.3	24	210	0	0	24	71	210	0	Imp.	-
31	771.5	12.1	42	394	0	0	42	52	394	0	Imp.	-
32	773.4	10.1	17	133	0	0	17	68	133	0	Imp.	-
33	774.4	13.6	34	359	0	0	34	62	359	0	Imp.	-
34	775.2	16.5	26	333	0	0	26	47	333	0	Imp.	-
35	776.3	17.0	43	567	0	0	43	27	567	0	Imp.	-
36	777.3	17.3	57	765	0	0	57	28	765	0	Imp.	-
37	778.5	6.0	64	298	0	0	64	34	298	0	Imp.	-
38	779.4	14.3	56	621	0	0	56	32	621	0	Imp.	-
						AVERAGES						
					7.7	104	34.8	56.4	469		0.076	
		756.3 - 760.5	17.4									

Notes: cc—cubic centimeter.

*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.