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OILFIELD RESEARCH LABORATORIES
RESULTS OF WATER DIFFERENTIATION TESTS

TABLE VII

Company: James E. Russell Petroleum, Inc. Lease Nelson Well No. RW-20

Sample No.	Depth, Feet	Chloride Content of Brine in Sand, ppm	Percent Water Saturation		
			Connate	Drilling & Foreign	Total
1	646.6	20,094.			
2	47.5	16,131.			
3	48.4	17,526.			
4	49.6	11,196.			
5	50.4	11,093.			
6	51.5	11,616.			
7	52.5	12,181.			
8	53.5	10,487.			
9	54.5	10,492.			
10	55.5	11,742.			
11	56.5	12,674.			
12	57.5	13,466.			
13	59.5	19,204.			
14	60.5	24,838.			
15	61.5	18,180.			
16	62.5	24,695.			
17	63.5	22,248.			
18	64.5	26,433.			
19	65.5	22,862.			
20	66.5	26,079.			
21	67.5	20,525.			
22	68.5	19,484.			
23	669.4	26,422.			

Notes: ppm = parts per million.

OILFIELD RESEARCH LABORATORIES
RESULTS OF WATER DIFFERENTIATION TESTS

TABLE VII

Company: James E. Russell Petroleum, Inc. Lease Nelson Well No. RW-20

Sample No.	Depth, Feet	Chloride Content of Brine in Sand, ppm	Percent Water Saturation		
			Connate	Drilling & Foreign	Total
24	670.4	25,643.			
25	71.4	23,696.			
26	72.5	24,774.			
27	73.5	19,477.			
28	74.5	25,835.			
29	75.5	18,371.			
30	76.5	19,235.			
31	77.5	12,137.			
32	78.5	12,418.			
33	79.6	19,997.			
34	80.5	25,883.			
35	81.5	21,045.			
36	82.5	16,414.			
37	83.5	16,906.			
38	84.5	21,799.			
39	85.5	22,501.			
40	86.5	19,984.			
41	87.5	22,961.			
42	88.5	19,792.			
43	89.5	17,997.			
44	90.5	22,429.			
45	91.5	20,432.			
46	692.4	16,083.			

Notes: ppm = parts per million.

OILFIELD RESEARCH LABORATORIESRESULTS OF WATER DIFFERENTIATION TESTSTABLE VIICompany James E. Russell Petroleum, Inc. Lease Nelson Well No. RW-20

Sample No.	Depth, Feet	Chloride Content of Brine in Sand, ppm	Percent Water Saturation		
			Connate	Drilling & Foreign	Total
47	693.5	25,464.			
48	94.5	16,214.			
49	95.5	11,632.			
50	96.5	14,169.			
51	97.5	15,497.			
52	98.5	14,510.			
53	99.5	16,493.			
54	700.5	15,692.			
55	01.5	12,057.			
56	02.4	12,084.			
57	03.4	23,967.			
58	04.4	14,838.			
59	05.5	13,136.			
60	06.5	12,176.			
61	07.5	13,247.			
62	08.5	17,570.			
63	09.5	23,996.			
64	10.5	20,342.			
65	11.4	18,381.			
66	12.6	22,336.			
67	13.5	15,760.			
68	714.5	19,581.			

Note: ppm - parts per million.

OILFIELD RESEARCH LABORATORIES
RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company James E. Russell Petroleum Inc. Lease Nelson Well No. RW-20

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Sample No.	Depth, Feet	Effective Porosity, Percent	Percent Saturation			Oil Content, Bbls./A.Ft.	Perm. Mill.	Feet of Sand		Total Oil Content
			Oil	Water	Total			Feet	Cum. Feet	
1	646.6	15.9	14	70	84	173	11.			
2	47.5	16.7	17	80	97	220	17.			
3	48.4	14.5	21	77	98	236	1.1			
4	49.6	20.4	16	70	86	253	46.			
5	50.4	18.2	17	50	67	240	102.			
6	51.5	18.1	23	59	82	323	38.			
7	52.5	18.6	25	50	75	361	30.			
8	53.5	17.0	22	67	89	290	14.			
9	54.5	16.9	22	60	82	288	31.			
10	55.5	19.6	15	69	84	228	59.			
11	56.5	20.1	44	40	84	686	39.			
12	57.5	19.5	28	47	75	424	48.			
13	59.5	19.5	60	29	89	908	38			
14	60.5	19.2	71	26	97	1058	2.2			
15	61.5	17.7	34	48	82	467	8.0			
16	62.5	19.5	48	29	77	726	2.5			
17	63.5	19.3	45	34	79	674	0.72			
18	64.5	18.4	53	26	79	757	0.66			
19	65.5	20.4	36	33	69	597	2.2			
20	66.5	21.5	40	25	65	667	2.6			
21	67.5	15.9	38	49	87	469	0.47			
22	68.5	21.5	43	23	66	717	8.8			
23	69.4	17.6	69	22	91	942	0.71			
24	70.4									

P-03

OILFIELD RESEARCH LABORATORIES
RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company James E. Russell Petroleum, Inc. Lease Nelson Well No. RW-20

Sample No.	Depth, Feet	Effective Porosity, Percent	Percent Saturation			Oil Content Bbls./A.Ft.	Perm. Mill.	Feet of Sand		Total Oil Content
			Oil	Water	Total			Feet	Cum. Feet	
25	671.4	16.2	58	35	93	729	0.43			
26	72.5	15.7	54	40	94	658	0.63			
27	73.5	15.8	37	60	97	454	0.60			
28	74.5	15.3	56	42	98	665	1.0			
29	75.5	14.4	28	70	98	313	1.1			
30	76.5	15.1	32	65	97	375	0.79			
31	77.5	17.3	38	60	98	510	1.7			
32	78.5	18.9	39	49	88	572	43.			
33	79.6	18.8	46	35	81	671	4.6			
34	80.5	18.2	54	30	84	763	2.1			
35	81.5	18.3	44	34	78	625	10.			
36	82.5	17.9	48	35	83	667	32.			
37	83.5	17.3	44	38	82	591	20.			
38	84.5	19.0	39	33	72	575	36.			
39	85.5	17.5	45	40	85	611	9.5			
40	86.5	16.5	51	39	90	653	12.			
41	87.5	15.5	25	68	93	301	3.2			
42	88.5	18.8	38	46	84	554	26.			
43	89.5	18.4	34	45	79	485	18.			
44	90.5	17.0	33	41	74	435	12.			
45	91.5	18.2	39	38	77	551	30.			
46	92.4	16.5	49	49	98	627	1.5			
47	93.5	16.3	55	42	97	696	1.3			

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company James E Russell Petroleum, Inc. Lease Nelson Well No. RW-20 Date _____

Sample No.	Depth, Feet	Percent Porosity	Orig. Oil Sat.		Oil Recovery		Residual Oil Sat.			Vol. of Water Rec. cc.	Effective Permeability, Millidarcys	I.F.F. #/Sq."	Foot-age	Cum. Ft.
			%	Bbls./A.Ft.	%	Bbls./A.Ft.	% Oil	% Water	Bbls./A.Ft.					
1	646.6	16.4	14	178	0	0	14	82	178	124	0.94	25		
2	47.5	16.9	18	236	0	0	18	80	236	216	1.50	15		
3	48.4	14.4	21	235	0	0	21	77	235	0	Imp.	-		
4	49.6	20.0	16	248	0	0	16	80	248	440	7.20	5		
5	50.4	18.6	17	245	0	0	17	78	245	288	22.99	5		
6	51.5	17.8	23	318	0	0	23	73	318	528	7.73	5		
7	52.5	18.9	25	367	0	0	25	73	367	516	5.66	15		
8	53.5	17.3	22	295	0	0	22	76	295	26	0.27	35		
9	54.5	16.9	23	302	0	0	23	74	302	550	4.33	15		
10	55.5	19.3	15	225	0	0	15	81	225	464	7.06	10		
11	56.5	20.1	44	686	0	0	44	52	686	30	0.48	40		
12	57.5	19.2	28	417	0	0	28	69	417	40	0.63	40		
13	59.5	19.5	60	908	0	0	60	38	908	608	5.00	25		
14	60.5	18.9	71	1041	0	0	71	26	1041	0	Imp.	-		
15	61.5	17.3	34	456	0	0	34	63	456	30	0.28	40		
16	62.5	19.4	48	722	0	0	48	29	722	0	Imp.	-		
17	63.5	19.0	44	649	0	0	44	35	649	0	Imp.	-		
18	64.5	18.4	53	757	0	0	53	26	757	0	Imp.	-		
19	65.5	20.2	36	564	0	0	36	34	564	0	Imp.	-		
20	66.5	21.4	39	647	0	0	39	27	647	0	Imp.	-		
21	67.5	15.9	38	469	0	0	38	49	469	0	Imp.	-		
22	68.5	21.5	43	717	0	0	43	24	717	0	Imp.	-		
23	69.4	17.4	68	918	0	0	68	24	918	0	Imp.	-		
24	670.4	20.2	54	846	0	0	54	17	846	0	Imp.	-		

RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company James F. Russell Petroleum Inc Lease Nelson Well No. RW-20 Date _____

Sample No.	Depth, Feet	Percent Porosity	Orig. Oil Sat.		Oil Recovery		Residual Oil Sat.			Vol. of Water Rec. cc.	Effective Permeability, Millidarcys	I.F.P. #/Sq."	Foot-age	Cum. Ft.
			%	Bbls./A.Ft.	%	Bbls./A.Ft.	% Oil	% Water	Bbls./A.Ft.					
25	671.4	16.2	58	729	0	0	58	35	729	0	Imp.	—		
26	72.5	15.5	54	649	0	0	54	40	649	0	Imp.	—		
27	73.5	15.9	38	469	0	0	38	60	469	0	Imp.	—		
28	74.5	15.3	56	665	0	0	56	42	665	0	Imp.	—		
29	75.5	14.0	29	315	0	0	29	68	315	0	Imp.	—		
30	76.5	15.1	32	375	0	0	32	65	375	0	Imp.	—		
31	77.5	16.9	38	498	0	0	38	60	498	0	Imp.	—		
32	78.5	19.2	39	581	10	149	29	69	432	282	9.16	10		
33	79.6	18.4	46	657	0	0	46	35	657	0	Imp.	—		
34	80.5	17.9	54	750	0	0	54	44	750	8	0.11	50		
35	81.5	18.1	44	618	4	56	40	56	562	52	0.72	40		
36	82.5	17.6	48	655	0	0	48	35	655	0	Imp.	—		
37	83.5	17.7	44	604	4	55	40	58	549	134	1.78	40		
38	84.5	19.3	39	584	0	0	39	57	584	64	0.89	40		
39	85.5	17.3	45	604	0	0	45	53	604	20	0.28	45		
40	86.5	16.8	51	665	9	117	42	56	548	170	1.89	35		
41	87.5	15.5	25	301	0	0	25	71	301	18	0.33	50		
42	88.5	19.2	38	566	2	30	36	60	536	342	4.16	20		
43	89.5	18.4	34	485	2	29	32	65	456	82	0.94	35		
44	90.5	17.4	33	445	4	54	29	69	391	288	2.61	20		
45	91.5	18.3	39	554	6	85	33	65	469	282	3.16	30		
46	92.4	16.5	49	627	0	0	49	49	627	0	Imp.	—		
47	93.5	16.1	55	687	0	0	55	42	687	0	Imp.	—		
48	694.5	17.2	50	667	13	173	37	61	494	212	2.28	35		

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company James F. Russell Petroleum, Inc. Lease Nelson Well No. RW-20 Date _____

Sample No.	Depth, Feet	Percent Porosity	Orig. Oil Sat.		Oil Recovery		Residual Oil Sat.			Vol. of Water Rec. cc.	Effective Permeability, Millidarcys	I.F.P. #/Sq."	Foot-age	Cum. Ft.
			%	Bbls./A.Ft.	%	Bbls./A.Ft.	% Oil	% Water	Bbls./A.Ft.					
49	695.5	19.8	38	584	2	31	36	62	553	442	5.61	25		
50	96.5	21.1	43	704	11	181	32	66	523	212	7.70	20		
51	97.5	20.6	37	591	3	48	34	65	543	298	6.79	25		
52	98.5	19.7	42	642	5	76	37	60	566	382	6.65	25		
53	99.5	19.9	40	618	3	46	37	61	572	480	6.77	20		
54	700.5	18.0	39	545	2	28	37	60	517	344	3.78	30		
55	01.4	20.6	38	607	2	32	36	62	575	452	5.33	30		
56	02.4	17.9	36	500	0	0	36	53	500	0	Imp.	-		
57	03.4	14.7	42	479	0	0	42	55	479	0	Imp.	-		
58	04.4	18.5	33	474	0	0	33	59	474	0	Imp.	-		
59	05.5	21.8	29	490	0	0	29	69	490	262	6.26	15		
60	06.5	20.0	28	434	0	0	28	68	434	518	5.11	15		
61	07.5	22.1	42	720	0	0	42	54	720	298	2.44	20		
62	08.5	19.1	38	563	0	0	38	58	563	36	0.33	35		
63	09.5	15.0	38	442	0	0	38	60	442	0	Imp.	-		
64	10.5	15.8	34	417	0	0	34	60	417	0	Imp.	-		
65	11.4	14.4	22	246	0	0	22	75	246	0	Imp.	-		
66	12.6	19.5	32	484	0	0	32	43	484	0	Imp.	-		
67	13.5	21.6	59	989	0	0	59	38	989	22	0.28	40		
68	714.5	20.4	62	981	0	0	62	34	981	28	0.22	35		