



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

May 3, 1979

James E. Russell Petroleum, Inc.
P.O. Box 2618
Abilene, Texas 79604

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Minckley B Sec. 10 Lease, Well No. 113, Anderson County, Kansas, and submitted to our laboratory on April 16, 1979.

This core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:cgb

3 c to Abilene, Texas
2 c to Chanute, Kansas

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- LOG -

Company James E. Russell Petroleum, Inc. Lease Minckley B Sec. 10 Well No. 113

<u>Depth Interval, Feet</u>	<u>Description</u>
710.0 - 726.3	Light brown laminated sandstone and shale.
726.3 - 727.3	Light brown shaly sandstone.
727.3 - 728.0	Light brown laminated sandstone and shale.
728.0 - 730.4	Gray sandy shale.
730.4 - 734.2	Light brown laminated sandstone and shale; 30% sandstone.
734.2 - 734.9	Light brown slightly shaly sandstone.
734.9 - 749.3	Light brown laminated sandstone and shale; 40% sandstone.
749.3 - 761.8	Brown laminated sandstone and shale; 70% sandstone.
761.8 - 763.5	Grayish brown sandy shale.
763.5 - 764.8	Dark brown slightly shaly sandstone.
764.8 - 765.4	Light brown laminated sandstone and shale.
765.4 - 770.2	Dark grayish blue shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company James E. Russell Petroleum, Inc. Lease Minckley B Sec. 10

Well No. 113

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 ind.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	710.5	7.5	23	73	96	134	1.1	1.0	1.0	134	1.10
2	711.3	13.8	20	59	79	214	Imp.	1.0	2.0	214	0.00
3	712.5	8.6	12	73	85	80	Imp.	1.0	3.0	80	0.00
4	713.3	13.3	9	80	89	93	0.42	1.0	4.0	93	0.42
5	714.3	12.8	21	62	83	209	0.18	1.0	5.0	209	0.18
6	715.3	13.1	1	88	89	10	0.38	1.0	6.0	10	0.38
7	716.4	16.8	12	50	62	156	0.63	1.0	7.0	156	0.63
8	717.5	12.9	4	79	83	40	Imp.	1.0	8.0	40	0.00
9	718.5	11.5	12	78	90	107	0.36	1.5	9.5	160	0.54
10	720.3	15.2	18	45	63	212	1.8	1.5	11.0	318	2.70
11	721.7	15.1	12	65	77	141	31.	1.0	12.0	141	31.00
12	722.7	7.7	33	61	94	197	0.20	1.0	13.0	197	0.20
13	723.5	14.4	20	58	78	223	0.47	1.0	14.0	223	0.47
14	724.6	8.5	24	70	94	158	0.61	1.0	15.0	158	0.61
15	725.5	14.0	19	60	79	206	*	1.3	16.3	268	*
16	726.5	14.5	16	60	76	180	26.	1.0	17.3	180	26.00
17	727.6	12.0	7	86	93	65	Imp.	0.7	18.0	46	0.00
18	730.7	8.0	21	74	95	130	0.26	0.6	18.6	78	0.16
19	731.4	11.9	13	82	95	120	0.64	1.0	19.6	120	0.64
20	732.6	11.0	11	82	93	94	Imp.	1.0	20.6	94	0.00
21	733.6	12.4	17	80	97	164	0.80	1.2	21.8	197	0.96
22	734.6	14.2	37	45	82	408	8.6	0.7	22.5	286	6.02
23	735.6	11.2	19	78	97	165	0.40	1.1	23.6	182	0.44
24	736.5	12.1	18	79	97	169	Imp.	1.0	24.6	169	0.00
25	737.6	12.3	22	74	96	210	Imp.	1.0	25.6	210	0.00
26	738.5	12.4	17	80	97	164	Imp.	1.0	26.6	164	0.00
27	739.6	12.9	29	64	93	290	Imp.	1.0	27.6	290	0.00
28	740.6	13.6	25	69	94	264	0.30	1.0	28.6	264	0.30
29	741.6	11.1	20	75	95	172	Imp.	1.0	29.6	172	0.00
30	742.6	11.4	18	78	96	159	Imp.	1.0	30.6	159	0.00
31	743.5	12.4	16	80	96	154	0.43	1.0	31.6	154	0.43

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company James E. Russell Petroleum, Inc.

Lease Minckley B Sec 10

Well No. 113

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			Ft.	Cam. Ft.		
32	744.5	12.8	26	70	258	0.20	1.0	32.6	258	0.20
33	745.5	13.0	37	60	373	Imp.	1.0	33.6	373	0.00
34	746.6	14.7	46	43	525	0.68	1.0	34.6	525	0.68
35	747.6	14.2	36	60	397	0.69	1.0	35.6	397	0.69
36	748.5	13.8	32	58	343	1.2	1.3	36.9	446	1.56
37	749.5	15.3	36	45	427	1.0	0.7	37.6	299	0.70
38	750.3	13.9	37	42	399	3.7	1.0	38.6	399	3.70
39	751.7	13.8	44	44	471	3.2	1.0	39.6	471	3.20
40	752.5	14.5	45	49	506	1.6	1.0	40.6	506	1.60
41	753.5	14.6	20	65	227	0.52	1.0	41.6	227	0.52
42	753.5	12.6	35	62	342	0.80	1.0	42.6	342	0.80
43	754.4	15.3	27	57	321	2.6	1.0	43.6	321	2.60
44	755.5	15.0	38	51	442	1.5	1.0	44.6	442	1.50
45	756.5	15.0	26	58	303	1.2	1.0	45.6	303	1.20
46	757.5	14.0	28	67	304	0.21	1.0	46.6	304	0.21
47	758.4	14.3	42	54	466	2.0	1.0	47.6	466	2.00
48	759.5	14.3	36	54	399	2.4	1.0	48.6	399	2.40
49	760.4	15.3	46	39	546	1.6	0.8	49.4	437	1.28
50	761.5	13.5	42	33	440	1.1	0.3	49.7	132	0.33
51	763.6	11.7	62	32	563	0.27	1.0	50.7	563	0.27

Note: * Unable to obtain a perm sample

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company James E. Russell Petroleum, Inc. Lease Minckley B Sec. 10 Well No. 113

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
710.0 - 746.0	20.6	3.6	73.38	710.0 - 746.0	33.6	12.3	18.2	70.0	172	5,797
746.0 - 764.8	17.1	1.5	25.24	746.0 - 764.8	17.1	14.2	37.3	51.9	409	6,979
710.0 - 764.8	37.7	2.6	98.62	710.0 - 764.8	50.7	13.0	24.7	63.8	252	12,776