

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

T.23 12.196 Sec.3

**TABLE 1-B**

Company James E. Russell Petroleum, Inc. Lease Minckley Well No. R-9

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	695.5	15.8	35	49	84	429	1.0	0.6	0.6	257	0.60
2	696.5	15.6	38	41	79	460	2.8	0.8	1.4	368	2.24
3	697.5	16.9	37	38	75	485	7.0	1.2	2.6	582	8.40
4	698.5	16.9	39	37	76	511	5.3	1.0	3.6	511	5.30
5	699.5	15.4	36	38	74	430	4.3	1.0	4.6	430	4.30
6	700.5	17.9	43	34	77	597	9.3	1.0	5.6	597	9.30
7	701.5	16.3	41	38	79	519	12.	1.0	6.6	519	12.00
8	702.5	18.6	51	32	83	736	11.	1.0	7.6	736	11.00
9	703.4	17.6	42	28	70	573	8.2	0.8	8.4	458	6.56

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## RESULTS OF LABORATORY FLOODING TESTS

### TABLE IV

Company James E. Russell Petroleum, Inc. Lease Minckley Well No. R-9

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	695.5	15.8	35	429	0	0	35	49	429	0	Imp.	-
2	696.5	15.6	38	460	0	0	38	41	460	0	Imp.	-
3	697.5	16.9	37	485	10	131	27	65	354	2	0.20	40
4	698.5	16.9	39	511	1	13	38	56	498	0	0.01	50
5	699.5	15.4	36	430	0	0	36	38	430	0	Imp.	-
6	700.5	17.9	43	597	10	139	33	56	458	6	0.20	40
7	701.5	16.3	41	519	6	76	35	62	443	0	0.02	50
8	702.5	18.6	51	736	10	144	41	48	592	4	0.20	40
9	703.4	17.6	42	573	2	27	40	50	546	6	0.40	50

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.