

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company James E. Russell Petroleum, Inc. Lease Minckley Well No. R-21

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	716.1	14.5	38	49	87	428	0.34	1.0	1.0	428	0.34
2	717.5	16.8	36	42	78	469	7.5	1.0	2.0	469	7.50
3	718.5	18.1	36	32	68	506	13.	0.6	2.6	304	7.80
4	719.5	16.2	38	44	82	478	7.2	0.9	3.5	430	6.48
5	720.5	14.4	30	51	81	335	3.4	0.6	4.1	201	2.04
6	721.5	15.8	36	48	84	441	6.0	1.4	5.5	617	8.40
7	722.5	14.9	38	44	82	439	2.7	1.0	6.5	439	2.70

Oilfield Research Laboratories

RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company James E. Russell Petroleum, Inc.

Lease Minckley

Well No. R-21

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	716.1	14.5	38	428	0	0	38	49	428	0	Imp.	-
2	717.5	16.9	36	472	8	105	28	67	367	10	0.40	40
3	718.5	17.9	39	542	9	125	30	67	417	26	0.80	30
4	719.5	16.8	38	495	7	91	31	65	404	2	0.20	45
5	720.5	14.4	30	335	0	0	30	51	335	0	Imp.	-
6	721.5	15.8	36	441	0	0	36	48	441	0	Imp.	-
7	722.5	14.9	38	439	0	0	38	44	439	0	Imp.	-

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.