OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole drilled in the SE1/4SE1/4SE1/4 (660 feet N/S, 660 feet W/E) of sec 3, T 15 N, R 109 W, Sweetwater County, Wyoming

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	
			Weight percent				Gal per ton			Tendency to	
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		coke	Remarks
SBR75-19116	314.0-315.4	11818	0.6	0.0	98.7	0.7	1.5a	0.1		None	
SBR75-19117	315.4-316.4	11819	4.4	2.8	90.7	2.1	11.7	6.7	0.903	None	
SBR75-19118	316.4-317.7	11820	4.9	2.3	90.5	2.3	13.1	5.5	.896	None	
SBR75-19119	317.7-319.0	11821	6.4	2.1	88.9	2.6	17.0	5.0	.901	None	
SBR75-19120	319.0-320.0	11822	1.1	2.0	95.4	1.5	2.9a	4.8		None	
SBR75-19121	359.0-360.0	11823	.0	1.7	97.8	.5	No Oil	4.1		None	
SBR75-19122	360.0-361.5	11824	.0	2.4	96.9	.7	Trace	5.7		None	
SBR75-19123	361.5-362.5	11825	.0	2.6	96.6	.8	Trace	6.2		None	
SBR75-19124	362.5-363.5	11826	.1	2.1	96.3	1.5	.2a	5.0		None	
SBR75-19125	363.5-364.7	11827	6.3	1.5	90.1	2.1	16.9	3.6	.902	None	
SBR75-19126	364.7-366.4	11828	5.6	2.2	89.3	2.9	14.7	5.3	.911	None	
SBR75-19127	366.4-368.0	11829	.8	1.4	96.5	1.3	2.0a	3.4		None	
SBR75-19128	393.0-394.7	11830	2.8	2.3	93.5	1.4	7.4	5.5	.896	None	
SBR75-19129	394.7-395.7	11831	.9	1.7	96.3	1.1	2.3a	4.1		None	
SBR75-19130	395.7-397.1	11832	1.8	3.1	94.0	1.1	4.7a	7.4		None	
SBR75-19131	397.1-398.9	11833	.0	1.4	97.6	1.0	Trace	3.4		None	
SBR75-19132	538.2-539.6	11834	.0	.7	98.6	.7	Trace	1.7		None	
SBR75-19133	539.6-541.0	11835	1.2	1.6	96.1	1.1	3.0a	3.8		None	
SBR75-19134	702.0-703.0	11836	.0	1.2	98.2	.6	Trace	3.0		None	
SBR75-19135	703.0-704.0	11837	.0	1.6	97.7	.7	Trace	3.7		None	
SBR75-19136	704.0-705.4	11838	.0	1.1	95.9	3.0	No Oil	2.7		None	
SBR75-19137	705.4-706.6	11839	.2	2.7	95.2	1.9	.5a	6.5		None	
SBR75-19138	706.6-707.9	11840	.0	2.3	96.7	1.0	Trace	5.5		None	
SBR75-19139	707.9-709.6	11841	1.9	2.4	94.2	1.5	4.8a	5.8		None	
SBR75-19140	709.6-710.6	11842	.5	2.1	96.3	1.1	1.4a	5.0		None	
SBR75-19141	710.6-712.0	11843	.0	2.4	96.4	1.2	Trace	5.8		None	
SBR75-19142	712.0-714.0	11844	.0	1.9	97.2	.9	No Oil	4.5		None	
SBR75-19143	714.0-716.0	11845	.0	1.9	97.0	1.1	Trace	4.6		None	
SBR75-19144	716.0-718.0	11846	.0	1.0	98.3	.7	No Oil	2.5		None	
SBR75-19145	718.0-720.0	11847	.0	2.0	97.4	.6	Trace	4.7		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19146	720.0-722.0	11848	0.0	1.5	97.1	1.4	No Oil	3.6		None	
SBR75-19147	722.0-723.8	11849	.0	1.7	97.7	.6	Trace	4.1		None	
SBR75-19148	723.8-724.8	11850	3.1	1.5	91.8	3.6	8.1	3.6	0.911	None	
SBR75-19149	724.8-726.0	11851	3.9	1.2	93.2	1.7	10.4	2.9	.906	None	
SBR75-19150	726.0-727.1	11852	.2	1.2	97.0	1.6	.6a	2.9		None	
SBR75-19151	727.1-728.1	11853	4.0	1.6	92.5	1.9	10.4	3.8	.922	None	
SBR75-19152	728.7-729.7	11854	4.1	1.7	93.0	1.2	10.9	4.1	.910	None	
SBR75-19153	729.7-730.9	11855	5.9	2.2	89.8	2.1	15.2	5.4	.925	None	
SBR75-19154	730.9-732.0	11856	6.8	2.0	88.4	2.8	17.7	4.8	.917	None	
SBR75-19155	732.0-733.0	11857	6.6	2.6	88.3	2.5	17.3	6.2	.919	None	
SBR75-19156	733.0-734.0	11928	6.3	2.8	88.7	2.2	16.3	6.7	.923	None	
SBR75-19157	734.0-735.0	11859	7.3	3.4	86.8	2.5	18.9	8.1	.930	None	
SBR75-19158	735.0-736.0	11861	7.1	3.2	87.2	2.5	17.9	7.7	.946	None	
SBR75-19159	736.0-737.0	11862	8.2	3.2	84.3	4.3	20.8	7.7	.943	None	
SBR75-19160	737.0-738.0	11863	6.7	2.8	87.9	2.6	17.2	6.7	.939	None	
SBR75-19161	738.1-739.1	11864	5.8	2.9	89.1	2.2	14.6	7.0	.948	None	
SBR75-19162	739.1-740.1	11865	5.7	3.4	87.8	3.1	14.3	8.1	.954	None	
SBR75-19163	740.1-741.1	11866	5.0	3.5	88.9	2.6	12.6	8.4	.951	None	
SBR75-19164	741.1-742.1	11867	4.2	3.5	89.9	2.4	10.6	8.4	.948	None	
SBR75-19165	742.1-743.1	11868	4.4	3.0	90.2	2.4	11.1	7.2	.942	None	
SBR75-19166	743.1-744.2	11869	4.8	2.0	90.3	2.9	12.5	4.8	.929	None	
SBR75-19167	744.2-745.2	11929	4.0	1.5	91.5	3.0	10.5	3.6	.924	None	
SBR75-19168	745.2-746.3	11871	5.5	2.4	89.7	2.4	14.1	5.8	.926	None	
SBR75-19169	746.3-747.4	11872	5.2	2.0	90.4	2.4	13.3	4.8	.928	None	
SBR75-19170	747.4-748.5	11873	4.6	2.0	91.0	2.4	12.2	4.7	.915	None	
SBR75-19171	748.5-749.8	11874	5.0	2.5	89.8	2.7	13.0	6.0	.916	None	
SBR75-19172	749.8-750.9	11875	6.8	2.2	87.1	3.9	17.6	5.3	.925	None	
SBR75-19173	750.9-751.9	11876	6.2	2.6	88.6	2.6	16.0	6.2	.925	None	
SBR75-19174	752.1-753.2	11877	5.4	1.8	89.8	3.0	14.3	4.3	.917	None	
SBR75-19175	753.2-754.2	11878	4.9	2.4	90.3	2.4	12.8	5.8	.910	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19176	754.2-755.2	11879	8.7	2.2	86.5	2.6	22.9	5.3	0.914	None	
SBR75-19177	755.2-756.4	11880	10.7	3.2	83.0	3.1	27.4	7.7	.940	None	
SBR75-19178	756.4-757.2	11881	1.3	1.9	94.9	1.9	3.3a	4.6		None	
SBR75-19179	757.2-758.1	11882	3.6	1.7	92.7	2.0	9.2	4.1	.937	None	
SBR75-19180	758.1-759.3	11883	7.2	2.9	87.5	2.4	18.5	7.0	.939	None	
SBR75-19181	759.3-760.3	11884	3.0	1.6	94.5	.9	7.5	3.8	.949	None	
SBR75-19182	760.3-761.6	11885	2.4	1.9	94.7	1.0	6.2	4.6	.941	None	
SBR75-19183	761.6-762.8	11886	1.7	2.2	95.2	.9	4.3a	5.3		None	
SBR75-19184	762.8-764.0	11887	2.5	2.3	94.0	1.2	6.2	5.5	.942	None	
SBR75-19185	764.0-765.0	11888	2.5	2.2	94.1	1.2	6.5	5.3	.940	None	
SBR75-19186	765.1-766.2	11889	6.0	2.7	88.2	3.1	15.3	6.5	.942	None	
SBR75-19187	766.2-767.3	11890	4.4	2.6	90.8	2.2	11.2	6.2	.934	None	
SBR75-19188	767.3-768.4	11891	3.0	2.6	92.6	1.7	8.0	6.2	.916	None	
SBR75-19189	768.4-769.5	11892	3.2	2.3	92.1	2.4	8.3	5.5	.926	None	
SBR75-19190	769.5-770.5	11893	3.1	2.4	92.6	1.9	7.9	5.8	.927	None	
SBR75-19191	770.5-772.2	11894	2.6	2.0	94.3	1.1	6.6	4.8	.930	None	
SBR75-19192	772.2-773.3	11895	1.1	2.1	96.0	.8	2.8a	5.0		None	
SBR75-19193	773.3-774.5	11896	1.4	1.0	96.4	1.2	3.5a	2.4		None	
SBR75-19194	774.5-775.5	11897	1.7	1.4	96.1	.8	4.4a	3.4		None	
SBR75-19195	775.5-776.5	11898	1.3	1.1	95.8	1.8	3.5a	2.6		None	
SBR75-19196	776.5-777.6	11899	.6	.8	97.8	.8	1.5a	1.9		None	
SBR75-19197	777.6-778.8	11900	.1	1.1	98.0	.8	.2a	2.6		None	
SBR75-19198	778.8-779.9	11901	.0	.7	98.8	.5	Trace	1.6		None	
SBR75-19199	821.2-823.0	11902	.2	2.3	96.0	1.5	.5a	5.5		None	
SBR75-19200	823.0-825.0	11903	.3	1.4	97.0	1.3	.7a	3.4		None	
SBR75-19201	825.0-826.8	11904	.6	.4	97.3	1.7	1.5a	1.0		None	
SBR75-19202	826.8-828.3	11905	.0	1.4	96.9	1.7	Trace	3.3		None	
SBR75-19203	828.3-830.0	11906	.2	.6	97.3	1.9	.7a	1.4		None	
SBR75-19204	830.0-832.8	11907	.3	1.0	97.7	1.0	.8a	2.4		None	
SBR75-19205	832.8-834.4	11908	.2	1.0	97.5	1.3	.4a	2.4		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	Remarks
SBR75-19206	834.4-837.0	11909	0.2	1.5	97.6	0.7	0.5a	3.6		None	
SBR75-19207	837.0-840.0	11910	.2	1.8	96.3	1.7	.6a	4.3		None	
SBR75-19208	840.0-843.0	11911	.2	1.4	96.4	2.0	.4a	3.4		None	
SBR75-19209	843.0-846.0	11912	.2	.9	97.8	1.1	.5a	2.2		None	
SBR75-19210	846.0-849.0	11913	.3	1.2	96.3	2.2	.8a	2.9		None	
SBR75-19211	849.0-849.7	11914	.7	.5	97.9	.9	1.9a	1.2		None	
SBR75-19212	850.3-850.7	11915	1.7	2.4	93.5	2.4	4.5a	5.8		None	
SBR75-19213	850.7-851.7	11916	.3	.6	98.5	.6	.9a	1.4		None	
SBR75-19214	851.7-852.7	11917	.4	1.8	96.3	1.5	1.0a	4.3		None	
SBR75-19215	852.7-853.7	11918	1.0	2.2	95.4	1.4	2.5a	5.3		None	
SBR75-19216	853.7-855.0	11919	1.3	1.5	95.9	1.3	3.4a	3.6		None	
SBR75-19217	855.0-856.3	11920	.7	2.4	95.9	1.0	1.8a	5.8		None	
SBR75-19218	856.3-857.3	11921	.3	4.1	94.1	1.5	.7a	9.8		None	
SBR75-19219	857.3-858.4	11922	.7	3.0	94.0	2.3	1.9a	7.2		None	
SBR75-19220	858.4-859.4	11923	1.2	1.7	94.6	2.5	3.1a	4.1		None	
SBR75-19221	859.6-860.7	11924	1.9	2.4	94.0	1.7	5.1a	5.8		None	
SBR75-19222	860.7-861.8	11925	1.5	1.8	94.7	2.0	3.9a	4.3		None	
SBR75-19223	861.8-862.8	11926	2.1	1.7	94.6	1.6	5.5	4.1	0.914	None	
SBR75-19224	862.8-863.8	11927	2.2	1.6	94.8	1.4	5.7	3.8	.917	None	
SBR75-19225	863.8-864.8	11963	2.0	1.9	94.6	1.5	5.2a	4.6		None	
SBR75-19226	864.8-865.8	11964	2.4	1.5	94.4	1.7	6.3	3.6	.920	None	
SBR75-19227	865.8-866.8	11965	2.7	1.5	94.6	1.2	6.9	3.6	.921	None	
SBR75-19228	866.8-867.8	11966	2.6	1.8	94.2	1.4	6.9	4.3	.915	None	
SBR75-19229	867.8-868.8	11967	3.2	1.4	93.7	1.7	8.4	3.4	.920	None	
SBR75-19230	868.8-869.8	11968	3.2	1.8	93.4	1.6	8.3	4.3	.912	None	
SBR75-19231	869.8-870.9	11969	3.9	2.2	91.8	2.1	10.2	5.3	.918	None	
SBR75-19232	870.9-872.0	11970	4.0	2.0	92.1	1.9	10.3	4.8	.916	None	
SBR75-19233	872.0-873.1	11971	3.4	1.5	92.6	2.5	8.8	3.6	.917	None	
SBR75-19234	873.1-874.2	11972	3.0	2.0	93.2	1.8	7.8	4.8	.929	None	
SBR75-19235	874.2-875.5	11973	3.0	1.6	93.1	2.3	7.8	3.8	.925	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	60°/60° F	Tendency to coke	Remarks
SBR75-19236	875.5-876.6	11974	3.1	1.9	93.3	1.7	8.0	4.6	0.914	None	
SBR75-19237	877.0-878.0	11975	3.7	2.0	92.9	1.4	9.5	4.8	.928	None	
SBR75-19238	878.0-879.0	11976	3.2	2.2	93.1	1.5	8.4	5.2	.924	None	
SBR75-19239	879.0-880.0	11977	2.8	1.5	93.7	2.0	7.2	3.5	.919	None	
SBR75-19240	880.0-881.2	11978	3.3	1.7	92.5	2.5	8.5	4.2	.926	None	
SBR75-19241	881.2-882.5	11979	2.9	2.0	93.6	1.5	7.6	4.8	.915	None	
SBR75-19242	882.5-883.6	11980	2.8	2.0	94.1	1.1	7.5	4.8	.904	None	
SBR75-19243	883.6-884.6	11981	3.5	2.0	92.6	1.9	9.4	4.8	.899	None	
SBR75-19244	884.6-885.6	11982	4.2	1.9	91.8	2.1	11.2	4.6	.899	None	
SBR75-19245	885.6-886.7	11983	3.8	2.4	91.9	1.9	9.7	5.8	.928	None	
SBR75-19246	886.7-887.8	11984	4.2	1.8	91.9	2.1	11.0	4.3	.923	None	
SBR75-19247	887.8-888.9	11985	5.3	1.2	91.6	1.9	13.9	2.9	.920	None	
SBR75-19248	888.9-890.2	11986	4.1	1.5	92.9	1.5	10.6	3.6	.923	None	
SBR75-19249	890.2-891.2	11987	3.7	1.4	93.4	1.5	9.6	3.4	.924	None	
SBR75-19250	891.2-892.2	11988	1.0	1.2	94.8	3.0	2.7a	2.9		None	
SBR75-19251	892.2-893.2	11989	1.4	1.5	96.1	1.0	3.6a	3.6		None	
SBR75-19252	893.2-894.5	11990	2.3	2.2	94.1	1.4	6.1	5.3	.907	None	
SBR75-19253	894.5-895.8	11991	3.3	1.6	93.6	1.5	8.9	3.8	.888	None	
SBR75-19254	895.8-897.0	11992	3.1	1.1	93.9	1.9	8.4	2.6	.885	None	
SBR75-19255	897.0-898.0	11993	4.4	2.4	91.3	1.9	11.3	5.8	.931	None	
SBR75-19256	898.3-899.0	11994	1.7	1.1	95.3	1.9	4.3a	2.6		None	
SBR75-19257	899.0-900.0	11995	3.0	1.7	93.9	1.4	7.7	4.1	.920	None	
SBR75-19258	900.0-901.1	11996	3.6	1.7	93.1	1.6	9.3	4.1	.922	None	
SBR75-19259	901.1-902.3	11997	3.6	1.8	93.2	1.4	9.3	4.3	.913	None	
SBR75-19260	902.3-903.3	11998	4.9	1.7	91.6	1.8	12.6	4.1	.938	None	
SBR75-19261	903.3-904.4	11999	4.1	1.4	92.7	1.8	10.7	3.3	.923	None	
SBR75-19262	904.4-905.7	12040	2.9	1.0	94.1	2.0	7.6	2.4	.915	None	
SBR75-19263	905.7-907.0	12001	4.1	1.4	92.5	2.0	11.0	3.4	.904	None	
SBR75-19264	907.0-908.2	12002	4.3	1.3	92.1	2.3	11.4	3.1	.906	None	
SBR75-19265	908.2-909.2	12003	2.4	1.5	95.1	1.0	6.3	3.6	.907	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton			Tendency to	
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	coke	Remarks
SBR75-19266	909.2-910.3	12004	4.6	2.0	91.8	1.6	12.3	4.8	0.905	None	
SBR75-19267	910.3-911.3	12005	3.5	1.1	94.1	1.3	9.0	2.8	.926	None	
SBR75-19268	911.3-912.4	12006	2.7	1.4	94.4	1.5	7.0	3.4	.924	None	
SBR75-19269	912.4-913.6	12007	2.2	1.1	95.3	1.4	5.8	2.6	.924	None	
SBR75-19270	913.6-914.7	12008	1.7	1.1	96.3	.9	4.4a	2.6		None	
SBR75-19271	914.7-915.8	12009	1.7	1.2	95.8	1.3	4.4a	3.0		None	
SBR75-19272	915.8-916.9	12010	1.6	1.1	96.3	1.0	4.1a	2.6		None	
SBR75-19273	916.9-917.9	12011	1.6	1.1	96.2	1.1	4.2a	2.7		None	
SBR75-19274	917.9-919.3	12012	3.4	1.3	92.4	2.9	8.7	3.1	.921	None	
SBR75-19275	919.4-920.2	12013	3.1	1.2	94.1	1.6	8.1	2.9	.918	None	
SBR75-19276	920.2-921.2	12014	4.3	1.2	92.7	1.8	11.1	3.0	.921	None	
SBR75-19277	921.2-922.2	12015	5.3	1.2	91.5	2.0	13.9	2.9	.920	None	
SBR75-19278	922.2-923.2	12016	4.7	.7	92.9	1.7	12.5	1.7	.910	None	
SBR75-19279	923.2-924.2	12017	5.5	1.3	91.2	2.0	14.6	3.0	.912	None	
SBR75-19280	924.2-925.2	12018	5.1	1.4	91.5	2.0	13.4	3.3	.920	None	
SBR75-19281	925.2-926.2	12019	4.4	1.1	91.5	3.0	11.5	2.5	.923	None	
SBR75-19282	926.2-927.2	12020	5.5	1.3	91.3	1.9	14.3	3.1	.923	None	
SBR75-19283	927.2-928.2	12021	4.9	1.4	91.4	2.3	12.7	3.5	.922	None	
SBR75-19284	928.2-929.2	12022	4.6	1.7	91.9	1.8	12.0	4.0	.916	None	
SBR75-19285	929.2-930.2	12023	5.7	1.5	91.0	1.8	15.0	3.6	.908	None	
SBR75-19286	930.2-931.0	12024	3.3	1.7	93.7	1.3	8.7	4.1	.911	None	
SBR75-19287	931.0-931.7	12025	4.1	1.6	92.3	2.0	10.7	3.8	.914	None	
SBR75-19288	931.7-932.8	12026	6.9	1.2	89.2	2.7	18.0	2.9	.919	None	
SBR75-19289	932.8-933.9	12027	5.8	1.5	90.4	2.3	15.0	3.6	.922	None	
SBR75-19290	933.9-935.3	12028	6.0	1.4	90.8	1.8	15.9	3.4	.913	None	
SBR75-19291	935.3-936.3	12029	6.0	1.6	89.7	2.7	15.7	3.8	.919	None	
SBR75-19292	936.3-937.2	12030	6.2	1.0	90.0	2.8	16.2	2.4	.913	None	
SBR75-19293	937.2-938.0	12031	4.5	1.5	91.4	2.6	11.8	3.6	.913	None	
SBR75-19294	938.4-939.4	12032	5.2	1.2	91.3	2.3	13.7	2.9	.909	None	
SBR75-19295	939.4-940.4	12033	5.6	1.5	90.5	2.4	14.6	3.6	.921	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19296	940.6-941.7	12034	5.5	1.2	91.1	2.2	14.5	2.9	0.918	None	
SBR75-19297	941.7-942.8	12035	5.2	1.3	91.2	2.3	13.4	3.0	.926	None	
SBR75-19298	942.8-943.9	12036	4.9	1.2	91.2	2.7	12.7	2.9	.923	None	
SBR75-19299	943.9-945.0	12037	4.9	1.2	91.8	2.1	12.7	2.9	.924	None	
SBR75-19300	945.0-946.0	12038	6.1	1.4	90.9	1.6	15.9	3.4	.916	None	
SBR75-19301	946.0-946.7	12039	12.9	1.3	82.0	3.8	33.2	3.1	.934	None	
SBR75-19302	946.7-948.0	12041	10.4	.8	86.1	2.7	27.4	1.9	.911	None	
SBR75-19303	948.0-949.0	12042	6.2	.9	90.2	2.7	16.3	2.3	.910	None	
SBR75-19304	949.0-950.0	12043	6.1	1.1	90.6	2.2	15.9	2.7	.916	None	
SBR75-19305	950.0-951.0	12044	5.8	1.1	91.0	2.1	15.1	2.6	.916	None	
SBR75-19306	951.0-952.0	12045	4.8	1.2	92.2	1.8	12.6	2.9	.909	None	
SBR75-19307	952.0-953.0	12046	6.2	1.6	90.3	1.9	16.2	3.8	.919	None	
SBR75-19308	953.0-954.0	12047	5.7	1.2	91.0	2.1	15.1	2.9	.907	None	
SBR75-19309	954.0-955.0	12048	5.9	1.2	90.7	2.2	15.5	2.9	.903	None	
SBR75-19310	955.0-956.0	12049	5.6	1.0	91.0	2.4	14.8	2.4	.906	None	
SBR75-19311	956.0-957.0	12050	6.8	1.7	88.7	2.8	17.9	4.1	.916	None	
SBR75-19312	957.0-958.0	12051	6.7	1.4	89.5	2.4	17.6	3.4	.913	None	
SBR75-19313	958.0-959.0	12052	8.5	1.2	87.7	2.6	22.1	2.9	.919	None	
SBR75-19315	960.0-961.0	12053	12.0	1.4	82.8	3.8	31.1	3.4	.926	None	959-960: sample lost
SBR75-19316	961.0-961.8	12054	12.6	1.3	81.4	4.7	32.8	3.1	.933	None	
SBR75-19317	963.7-964.5	12055	10.4	.9	85.5	3.2	26.7	2.3	.933	None	
SBR75-19318	964.5-966.0	12056	6.0	.8	91.0	2.2	15.7	1.9	.918	None	
SBR75-19319	966.0-967.0	12057	6.9	1.1	89.4	2.6	18.3	2.6	.910	None	
SBR75-19320	967.0-968.1	12058	4.9	.7	92.2	2.2	13.0	1.5	.912	None	
SBR75-19321	968.1-969.2	12059	4.2	.9	92.8	2.1	11.0	2.2	.915	None	
SBR75-19322	969.2-970.2	12060	6.9	1.3	89.6	2.2	18.2	3.1	.911	None	
SBR75-19323	970.2-971.2	12061	6.4	1.2	90.2	2.3	16.8	2.8	.907	None	
SBR75-19324	971.2-972.4	12062	8.7	1.5	87.3	2.5	22.9	3.6	.907	None	
SBR75-19325	972.4-973.6	12063	9.0	1.5	86.8	2.7	23.6	3.6	.914	None	
SBR75-19326	973.6-974.6	12651	8.2	1.3	89.0	1.5	21.2	3.1	.921	None	

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19327	974.6- 976.3	12065	8.3	1.1	87.8	2.8	21.8	2.6	0.910	None	
SBR75-19328	976.3- 978.5	12652	5.7	1.4	91.5	1.4	14.8	3.4	.918	None	Samples combined
SBR75-19329	976.3- 978.5	12652	5.7	1.4	91.5	1.4	14.8	3.4	.918	None	Duplicate runs
SBR75-19330	978.5- 979.4	12068	5.3	.8	92.2	1.7	13.8	1.9	.914	None	
SBR75-19331	979.4- 980.6	12069	6.5	1.2	89.5	2.8	17.0	2.9	.915	None	
SBR75-19332	980.6- 981.6	12070	7.1	1.0	89.6	2.3	18.5	2.4	.919	None	
SBR75-19333	981.6- 982.6	12071	5.3	.7	92.1	1.9	14.0	1.7	.903	None	
SBR75-19334	982.6- 983.5	12072	6.6	.7	90.4	2.3	17.4	1.8	.910	None	
SBR75-19335	983.5- 984.2	12073	4.2	.4	93.7	1.7	11.1	1.0	.909	None	
SBR75-19336	984.2- 985.3	12074	5.5	.8	91.1	2.6	14.5	1.9	.902	None	
SBR75-19337	985.3- 986.5	12075	3.6	1.2	93.5	1.7	9.5	2.9	.912	None	
SBR75-19338	986.5- 987.7	12076	2.8	1.0	94.9	1.3	7.4	2.4	.909	None	
SBR75-19339	987.7- 988.7	12077	3.6	1.3	93.4	1.7	9.5	3.1	.910	None	
SBR75-19340	988.7- 990.1	12078	4.5	.7	93.1	1.7	11.9	1.7	.909	None	
SBR75-19341	990.3- 991.3	12079	3.7	1.0	93.6	1.7	9.7	2.4	.913	None	
SBR75-19342	991.3- 992.3	12080	5.8	1.4	90.6	2.2	15.5	3.4	.901	None	
SBR75-19343	992.3- 993.3	12220	3.8	1.0	93.1	2.1	10.3	2.4	.890	None	
SBR75-19344	993.3- 994.3	12082	4.4	1.0	93.0	1.6	11.6	2.4	.911	None	
SBR75-19345	994.3- 995.3	12083	4.7	.6	91.3	3.4	12.3	1.5	.917	None	
SBR75-19346	995.3- 996.3	12084	4.5	.6	93.2	1.7	11.8	1.4	.916	None	
SBR75-19347	996.3- 997.3	12085	5.4	.7	92.1	1.8	14.1	1.7	.914	None	
SBR75-19348	997.3- 998.3	12086	5.8	1.2	91.2	1.8	15.3	2.7	.916	None	
SBR75-19349	998.3- 999.3	12087	7.8	1.1	88.9	2.2	20.9	2.6	.895	None	
SBR75-19350	999.3-1000.3	12088	5.2	.9	92.1	1.8	13.8	2.1	.913	None	
SBR75-19351	1000.3-1001.3	12089	6.9	1.1	90.0	2.0	18.0	2.6	.913	None	
SBR75-19352	1001.3-1002.3	12090	8.7	.6	88.3	2.4	23.2	1.4	.902	None	
SBR75-19353	1002.3-1003.5	12091	7.5	.9	89.5	2.1	19.9	2.2	.903	None	
SBR75-19354	1003.5-1004.7	12092	5.6	.8	91.9	1.7	14.7	1.9	.906	None	
SBR75-19355	1004.7-1005.7	12093	5.6	.9	91.8	1.8	14.8	2.1	.903	None	
SBR75-19356	1005.7-1006.7	12094	3.9	.9	93.9	1.3	10.1	2.2	.912	None	

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	Remarks
SBR75-19357	1006.7-1007.8	12095	6.7	0.6	90.6	2.1	17.5	1.4	0.912	None	
SBR75-19358	1007.8-1008.8	12096	4.2	.7	92.8	2.3	11.0	1.7	.910	None	Bottom Laney Member
SBR75-19359	1008.8-1010.0	12097	2.5	.7	95.6	1.2	6.6	1.7	.912	None	Top Wilkins Peak Member
SBR75-19360	1010.0-1011.0	12098	2.3	.8	95.4	1.5	6.0	1.9	.913	None	
SBR75-19361	1011.0-1012.2	12099	.2	3.0	96.4	.4	.5a	7.2		None	
SBR75-19362	1012.2-1013.4	12100	.1	1.3	97.8	.8	.2a	3.1		None	
SBR75-19363	1013.4-1014.7	12101	.1	.6	97.7	1.6	.2a	1.4		None	
SBR75-19364	1015.4-1016.2	12102	.7	2.6	94.8	1.9	1.9a	6.2		None	
SBR75-19365	1016.2-1018.0	12103	5.5	1.4	90.7	2.4	14.3	3.4	.920	None	
SBR75-19366	1018.0-1019.4	12104	1.4	1.9	95.8	.9	3.6a	4.6		None	
SBR75-19367	1019.4-1020.4	12105	.1	2.1	96.8	1.0	.3a	5.0		None	
SBR75-19368	1020.4-1021.4	12106	.7	.5	98.1	.7	1.8a	1.3		None	
SBR75-19369	1021.4-1022.6	12107	.0	.9	98.6	.5	No Oil	2.1		None	
SBR75-19370	1022.6-1023.8	12195	.0	.4	98.4	1.2	No Oil	.9		None	
SBR75-19371	1023.9-1025.7	12109	.2	.3	99.1	.4	.4a	.7		None	
SBR75-19372	1025.7-1027.0	12110	.8	.9	97.5	.8	2.2a	2.2		None	
SBR75-19373	1027.0-1028.0	12111	1.4	.6	97.4	.6	3.5a	1.4		None	
SBR75-19374	1028.0-1029.1	12112	2.2	1.0	96.0	.8	5.8	2.4	.913	None	
SBR75-19375	1029.1-1030.8	12113	1.8	.7	96.8	.7	4.7a	1.7		None	
SBR75-19376	1030.8-1031.8	12114	1.0	.5	97.9	.6	2.7a	1.2		None	
SBR75-19377	1031.8-1032.6	12115	.5	.6	97.8	1.1	1.2a	1.4		None	
SBR75-19378	1032.6-1033.8	12116	.5	1.0	97.7	.8	1.4a	2.4		None	
SBR75-19379	1033.8-1034.8	12117	.0	.4	98.8	.8	Trace	1.0		None	
SBR75-19380	1034.8-1036.0	12118	.2	.7	98.3	.8	.6a	1.7		None	
SBR75-19381	1036.0-1037.2	12119	.0	.9	98.7	.4	No Oil	2.3		None	
SBR75-19382	1037.2-1038.4	12120	.4	.9	97.7	1.0	1.0a	2.2		None	
SBR75-19383	1038.5-1039.7	12121	.3	.3	98.2	1.2	.8a	.7		None	
SBR75-19384	1039.7-1041.0	12122	.5	.3	97.9	1.3	1.3a	.7		None	
SBR75-19385	1041.0-1042.0	12123	.5	.6	98.4	.5	1.3a	1.4		None	
SBR75-19386	1042.0-1043.0	12124	.5	.7	98.2	.6	1.3a	1.7		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19387	1043.0-1044.3	12125	0.7	1.0	97.8	0.5	1.8a	2.4		None	
SBR75-19388	1044.3-1045.3	12126	2.1	1.1	95.6	1.2	5.4	2.6	0.910	None	
SBR75-19389	1045.3-1047.1	12127	3.2	1.6	93.3	1.9	8.3	3.8	.910	None	
SBR75-19390	1047.1-1048.2	12128	3.9	2.1	92.6	1.4	10.2	5.0	.904	None	Some rubble
SBR75-19391	1048.2-1049.3	12129	3.6	1.5	93.1	1.8	9.4	3.6	.908	None	
SBR75-19392	1049.3-1050.4	12130	3.2	1.5	93.9	1.4	8.6	3.5	.909	None	
SBR75-19393	1050.4-1051.5	12131	3.9	2.0	92.0	2.1	10.4	4.8	.910	None	
SBR75-19394	1051.5-1052.7	12196	5.4	1.8	90.8	2.0	14.4	4.3	.900	None	
SBR75-19395	1052.7-1053.8	12133	4.4	1.3	92.2	2.1	11.5	3.1	.909	None	
SBR75-19396	1053.8-1054.9	12134	3.8	1.5	93.0	1.7	9.9	3.6	.911	None	
SBR75-19397	1054.9-1056.0	12135	3.7	1.6	93.0	1.7	9.6	3.8	.914	None	
SBR75-19398	1056.0-1057.0	12136	2.2	.9	94.9	2.0	5.7	2.2	.911	None	
SBR75-19399	1057.0-1058.0	12137	2.2	1.2	95.5	1.1	5.8	2.9	.916	None	
SBR75-19400	1058.0-1059.0	12138	1.7	.8	96.4	1.1	4.5a	1.9		None	
SBR75-19401	1059.0-1060.1	12139	2.2	1.5	95.3	1.0	5.7	3.6	.913	None	
SBR75-19402	1060.1-1061.3	12140	2.1	1.7	95.3	.9	5.4	4.1	.911	None	
SBR75-19403	1061.3-1062.5	12141	2.8	1.5	94.3	1.4	7.3	3.6	.915	None	
SBR75-19404	1062.5-1063.7	12142	7.2	1.7	88.7	2.4	19.0	4.1	.909	None	
SBR75-19405	1063.7-1065.2	12143	7.8	2.0	87.3	2.9	20.6	4.8	.908	None	
SBR75-19406	1065.2-1066.9	12144	1.4	1.9	95.2	1.5	3.7a	4.6		None	
SBR75-19407	1067.0-1068.0	12145	1.3	.8	97.3	.6	3.4a	1.9		None	
SBR75-19408	1068.0-1069.0	12146	1.0	1.0	96.6	1.4	2.5a	2.3		None	
SBR75-19409	1069.0-1070.3	12147	1.9	1.6	95.3	1.2	5.0a	3.8		None	
SBR75-19410	1070.3-1071.3	12148	3.2	1.7	94.1	1.0	8.4	4.0	.906	None	
SBR75-19411	1071.3-1072.4	12149	6.7	1.6	89.4	2.3	17.9	3.8	.895	None	
SBR75-19412	1072.4-1073.4	12150	10.1	1.8	85.2	2.9	26.5	4.3	.912	None	
SBR75-19413	1073.4-1074.0	12151	6.5	1.9	88.3	3.3	17.1	4.6	.915	None	
SBR75-19414	1074.0-1075.0	12152	7.6	1.8	88.1	2.5	19.9	4.3	.912	None	
SBR75-19415	1075.0-1076.0	12153	5.3	1.6	90.4	2.7	13.9	3.8	.912	None	
SBR75-19416	1076.0-1077.0	12154	2.4	1.4	94.9	1.3	6.3	3.4	.912	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19417	1077.0-1078.0	12155	3.0	1.4	94.0	1.6	7.9	3.4	0.913	None	
SBR75-19418	1078.0-1079.0	12156	3.1	1.4	93.9	1.6	8.1	3.4	.908	None	
SBR75-19419	1079.0-1080.0	12157	3.4	.7	93.9	2.0	8.9	1.7	.906	None	
SBR75-19420	1080.0-1081.0	12158	1.5	1.3	95.7	1.5	3.9a	3.1		None	
SBR75-19421	1081.0-1082.0	12159	1.1	1.3	96.4	1.2	2.8a	3.1		None	
SBR75-19422	1082.0-1083.0	12160	1.4	1.0	96.4	1.2	3.6a	2.4		None	
SBR75-19423	1083.0-1084.0	12161	1.3	1.5	96.1	1.1	3.5a	3.6		None	
SBR75-19424	1084.0-1085.0	12162	2.2	1.2	95.7	.9	5.9	2.9	.909	None	
SBR75-19425	1085.0-1086.0	12163	4.4	.7	92.5	2.4	11.7	1.7	.908	None	
SBR75-19426	1086.0-1087.0	12164	1.3	1.6	96.2	.9	3.3a	3.8		None	
SBR75-19427	1087.0-1088.0	12165	1.0	.8	96.8	1.4	2.7a	1.9		None	
SBR75-19428	1088.0-1089.0	12166	.6	1.0	97.6	.8	1.4a	2.4		None	
SBR75-19429	1089.0-1090.0	12167	.8	.4	97.8	1.0	2.1a	1.1		None	
SBR75-19430	1090.0-1091.0	12168	1.0	.8	97.1	1.1	2.6a	1.9		None	
SBR75-19431	1091.0-1092.4	12169	1.6	.9	95.8	1.7	4.2a	2.2		None	
SBR75-19432	1103.7-1105.0	12170	.0	.4	98.7	.9	.1a	1.0		None	
SBR75-19433	1105.0-1106.0	12171	.3	.4	98.8	.5	.9a	1.0		None	
SBR75-19434	1106.0-1107.0	12172	.4	.7	98.5	.4	1.0a	1.7		None	0.2 missing
SBR75-19435	1107.0-1108.3	12173	1.1	.6	97.3	1.0	3.0a	1.4		None	
SBR75-19436	1108.3-1109.6	12174	2.1	.6	96.2	1.1	5.6	1.4	.915	None	
SBR75-19437	1109.6-1110.6	12175	7.0	1.5	88.4	3.1	18.3	3.6	.912	None	
SBR75-19438	1110.6-1111.6	12176	10.4	1.5	85.0	3.1	27.3	3.6	.908	None	
SBR75-19439	1111.6-1112.9	12177	2.6	1.4	94.4	1.6	6.8	3.4	.909	None	
SBR75-19440	1112.9-1114.1	12178	2.0	.8	96.3	.9	5.1a	1.9		None	
SBR75-19441	1114.1-1115.1	12179	5.0	1.2	90.7	3.1	13.1	2.9	.916	None	
SBR75-19442	1115.1-1116.3	12219	10.6	1.6	84.1	3.7	28.1	3.8	.907	None	
SBR75-19443	1116.3-1117.5	12181	6.1	1.5	89.9	2.5	16.2	3.6	.907	None	
SBR75-19444	1117.5-1118.5	12182	1.7	.8	96.5	1.0	4.4a	1.9		None	
SBR75-19445	1118.5-1119.7	12183	.8	.7	98.0	.5	2.2a	1.7		None	
SBR75-19446	1119.7-1121.0	12184	.6	.3	98.0	1.1	1.6a	.7		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19447	1121.0-1122.2	12185	0.4	0.4	98.7	0.5	1.0a	1.0		None	
SBR75-19448	1122.2-1123.4	12186	.4	.3	98.5	.8	1.0a	.6		None	
SBR75-19449	1123.5-1124.8	12187	3.4	1.4	93.7	1.5	8.9	3.4	0.911	None	
SBR75-19450	1124.8-1125.7	12188	7.2	1.5	88.8	2.5	18.9	3.7	.909	None	
SBR75-19451	1125.7-1126.6	12189	9.2	1.3	86.4	3.1	24.4	3.1	.905	None	
SBR75-19452	1126.6-1127.2	12190	3.7	.9	93.8	1.6	9.9	2.1	.910	None	
SBR75-19453	1127.2-1128.3	12191	.2	.6	98.2	1.0	.5a	1.4		None	
SBR75-19454	1128.3-1129.5	12192	.2	.6	97.6	1.6	.4a	1.4		None	
SBR75-19455	1129.5-1130.6	12193	.4	.5	99.0	.1	.9a	1.2		None	
SBR75-19456	1130.6-1131.6	12194	1.3	.8	96.1	1.8	3.5a	1.9		None	
SBR75-19457	1131.6-1132.1	12197	12.2	1.5	82.8	3.5	32.3	3.6	.905	None	
SBR75-19458	1132.1-1133.9	12198	.2	2.2	96.5	1.1	.6a	5.4		None	
SBR75-19459	1133.9-1134.9	12199	.0	2.7	96.4	.9	Trace	6.5		None	Rubble
SBR75-19460	1135.4-1138.0	12200	.0	3.0	96.1	.9	Trace	7.2		None	Rubble
SBR75-19461	1138.0-1138.8	12201	.2	2.0	95.8	2.0	.5a	4.8		None	
SBR75-19462	1138.8-1140.1	12202	.0	1.7	97.9	.4	No Oil	4.0		None	
SBR75-19463	1140.1-1141.2	12203	.0	.5	99.0	.5	No Oil	1.2		None	
SBR75-19464	1141.2-1142.8	12292	.0	1.2	98.4	.4	No Oil	3.0		None	
SBR75-19465	1142.8-1143.8	12205	.0	1.7	97.6	.7	No Oil	4.1		None	
SBR75-19466	1143.8-1144.8	12206	.0	1.9	97.3	.8	No Oil	4.6		None	
SBR75-19467	1144.8-1146.3	12207	.0	2.4	96.9	.7	No Oil	5.8		None	
SBR75-19468	1146.3-1148.0	12208	.0	1.2	98.3	.5	No Oil	3.0		None	
SBR75-19469	1148.0-1149.6	12209	.0	.6	98.7	.7	No Oil	1.5		None	
SBR75-19470	1149.6-1150.6	12210	.6	.5	98.3	.6	1.5a	1.2		None	
SBR75-19471	1150.9-1152.4	12211	.0	.1	99.4	.5	No Oil	.3		None	
SBR75-19472	1152.4-1154.0	12212	.3	.4	98.8	.5	.9a	1.0		None	
SBR75-19473	1154.0-1155.0	12213	9.3	1.1	85.2	4.4	24.5	2.6	.913	None	
SBR75-19474	1155.0-1156.0	12214	10.3	1.4	85.4	2.9	27.0	3.4	.910	None	
SBR75-19475	1156.0-1157.0	12215	1.6	.5	97.0	.9	4.2a	1.2		None	
SBR75-19476	1157.0-1158.0	12216	1.1	.5	98.0	.4	2.8a	1.2		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19477	1158.0-1160.0	12217	.0	0.3	99.0	0.7	No Oil	0.6		None	
SBR75-19478	1160.0-1162.0	12218	.0	.4	98.7	.9	No Oil	1.0		None	
SBR75-19479	1162.0-1164.0	12221	.2	.1	99.4	.3	.5a	.2		None	
SBR75-19480	1164.0-1166.0	12222	.2	.1	99.1	.6	.6a	.2		None	
SBR75-19481	1166.0-1167.3	12223	.5	.7	98.1	.7	1.3a	1.7		None	
SBR75-19482	1167.5-1168.8	12224	1.2	1.0	96.9	.9	3.0a	2.4		None	
SBR75-19483	1168.8-1170.3	12225	3.0	1.4	94.0	1.6	7.8	3.4	0.910	None	
SBR75-19484	1170.3-1171.6	12226	2.1	1.0	95.7	1.2	5.6	2.4	.909	None	
SBR75-19485	1171.6-1172.6	12227	.3	.4	98.5	.8	.7a	1.0		None	
SBR75-19486	1172.6-1173.7	12228	.0	.9	98.8	.3	Trace	2.1		None	
SBR75-19487	1173.7-1174.7	12229	.1	1.0	98.3	.6	.4a	2.4		None	
SBR75-19488	1174.7-1175.8	12230	.9	1.6	96.9	.6	2.3a	3.8		None	
SBR75-19489	1175.8-1176.6	12231	1.3	1.6	96.3	.8	3.5a	3.8		None	
SBR75-19490	1176.6-1178.0	12232	6.0	1.3	90.1	2.6	15.8	3.1	.907	None	
SBR75-19491	1178.0-1179.0	12233	2.5	1.3	95.0	1.2	6.5	3.1	.910	None	
SBR75-19492	1179.0-1180.0	12234	1.1	.9	96.6	1.4	2.8a	2.2		None	
SBR75-19493	1180.0-1181.3	12235	.1	1.4	97.9	.6	.2a	3.4		None	
SBR75-19494	1181.3-1182.6	12236	.0	1.8	97.1	1.1	.1a	4.3		None	
SBR75-19495	1182.6-1183.6	12237	.0	.6	98.8	.6	No Oil	1.4		None	
SBR75-19496	1183.6-1184.7	12238	1.1	1.1	96.8	1.0	3.0a	2.6		None	
SBR75-19497	1184.7-1185.9	12239	1.9	1.1	95.9	1.1	4.9a	2.7		None	
SBR75-19498	1185.9-1186.9	12240	.7	.5	97.3	1.5	1.9a	1.2		None	
SBR75-19499	1186.9-1187.9	12241	.8	.7	97.7	.8	2.0a	1.7		None	
SBR75-19500	1187.9-1188.9	12242	.1	.8	98.3	.8	.2a	1.8		None	
SBR75-19501	1188.9-1189.9	12243	.0	.5	98.4	1.1	No oil	1.2		None	
SBR75-19502	1189.9-1190.9	12244	.5	.9	98.1	.5	1.4a	2.2		None	
SBR75-19503	1190.9-1191.9	12245	3.1	2.5	92.3	2.1	8.2	6.0	.908	None	
SBR75-19504	1192.0-1192.9	12246	1.5	2.0	94.8	1.7	3.9a	4.7		None	
SBR75-19505	1192.9-1193.8	12247	.0	.5	97.5	2.0	No oil	1.2		None	
SBR75-19506	1193.8-1195.0	12248	1.2	.5	97.3	1.0	3.0a	1.2		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-19507	1195.0-1196.4	12249	0.1	0.5	98.6	0.8	0.2a	1.2		None	
SBR75-19508	1196.4-1197.2	12250	1.2	.1	97.5	1.2	3.3a	.2		None	
SBR75-19509	1197.2-1198.2	12251	.5	.4	98.6	.5	1.4a	1.0		None	
SBR75-19510	1198.2-1199.2	12252	.4	.1	98.1	1.4	1.1a	.2		None	
SBR75-19511	1199.2-1200.2	12253	.2	.1	99.2	.5	.5a	.2		None	
SBR75-19512	1200.2-1202.2	12254	.4	.4	98.9	.3	1.0a	1.0		None	
SBR75-19513	1202.2-1203.2	12255	.0	.3	99.4	.3	No Oil	.8		None	
SBR75-19514	1203.2-1205.8	12256	.0	.2	99.2	.6	No Oil	.4		None	
SBR75-19515	1205.8-1206.6	12257	.0	.9	98.7	.4	No Oil	2.1		None	
SBR75-19516	1206.6-1208.3	12258	.0	.3	98.9	.8	No Oil	.7		None	
SBR75-19517	1208.3-1210.0	12259	.0	.0	98.5	1.5	No Oil	.1		None	
SBR75-19518	1210.0-1211.0	12260	.1	.4	99.0	.5	.4a	1.0		None	
SBR75-19519	1211.0-1212.0	12261	.1	.1	98.6	1.2	.4a	.2		None	
SBR75-19520	1212.0-1213.0	12262	.0	.2	99.4	.4	Trace	.5		None	
SBR75-19521	1213.0-1214.1	12263	.1	.1	99.2	.6	.4a	.2		None	
SBR75-19522	1214.1-1215.1	12264	.2	.3	98.6	.9	.5a	.7		None	
SBR75-19523	1215.1-1216.1	12265	.0	.4	98.8	.8	No Oil	1.0		None	
SBR75-19524	1216.1-1218.2	12266	.0	.1	99.4	.5	No Oil	.1		None	
SBR75-19525	1218.2-1219.5	12267	.0	.2	99.4	.4	No Oil	.5		None	
SBR75-19526	1219.5-1220.5	12268	.0	.5	99.3	.2	No Oil	1.1		None	
SBR75-19527	1220.5-1222.0	12269	.0	.5	99.2	.3	No Oil	1.1		None	
SBR75-19528	1222.0-1223.6	12270	.0	.7	97.7	1.6	No Oil	1.7		None	
SBR75-19529	1223.6-1225.3	12271	.0	.5	98.5	1.0	No Oil	1.2		None	
SBR75-19530	1225.3-1226.3	12272	.0	1.3	98.2	.5	No Oil	3.2		None	
SBR75-19531	1226.3-1227.9	12273	.0	.6	98.5	.9	No Oil	1.5		None	
SBR75-19532	1227.9-1230.0	12274	.0	.7	98.6	.7	No Oil	1.7		None	
SBR75-19533	1230.0-1232.6	12275	.1	.8	96.8	2.3	.4a	1.9		None	
SBR75-19534	1232.6-1235.0	12276	.1	.3	99.2	.4	.2a	.7		None	
SBR75-19535	1235.0-1238.0	12277	.2	.2	98.9	.7	.4a	.5		None	
SBR75-19536	1238.0-1240.0	12278	.1	.9	98.3	.7	.4a	2.2		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19537	1240.0-1242.0	12279	0.1	1.0	98.3	0.6	0.3a	2.4		None	
SBR75-19538	1242.0-1243.3	12280	.3	.6	97.9	1.2	.9a	1.4		None	
SBR75-19539	1243.3-1244.3	12281	.8	.5	98.2	.5	2.1a	1.2		None	
SBR75-19540	1244.3-1245.4	12282	.9	.4	97.4	1.3	2.2a	1.0		None	
SBR75-19541	1245.4-1246.4	12283	.8	.7	97.7	.8	2.2a	1.7		None	
SBR75-19542	1246.4-1247.7	12284	1.6	1.0	96.0	1.4	4.1a	2.4		None	
SBR75-19543	1247.7-1248.9	12285	3.3	1.0	94.3	1.4	8.7	2.4	0.901	None	
SBR75-19544	1248.9-1250.3	12286	4.4	1.2	92.7	1.7	11.7	2.9	.907	None	
SBR75-19545	1250.3-1251.4	12287	1.1	.6	97.6	.7	2.8a	1.4		None	
SBR75-19546	1251.4-1254.0	12288	.0	.1	99.4	.5	No Oil	.3		None	
SBR75-19547	1254.0-1257.0	12289	.1	.2	99.3	.4	.2a	.5		None	
SBR75-15948	1257.0-1260.0	12290	.0	.0	99.5	.5	No Oil	.0		None	
SBR75-19549	1260.0-1263.6	12291	.0	.2	99.4	.4	No Oil	.5		None	
SBR75-19550	1263.6-1265.1	12361	.4	.1	98.3	1.2	1.0a	.2		None	
SBR75-19551	1265.1-1266.1	12362	.8	.2	97.6	1.4	2.0a	.5		None	
SBR75-19552	1266.1-1267.2	12363	.9	.5	97.4	1.2	2.4a	1.2		None	
SBR75-19553	1267.2-1268.2	12364	1.0	.3	97.5	1.2	2.6a	.7		None	
SBR75-19554	1268.2-1270.3	12365	.5	.3	98.8	.4	1.3a	.7		None	
SBR75-19555	1270.3-1272.4	12366	.0	.3	97.8	1.9	No Oil	.7		None	
SBR75-19556	1272.7-1275.0	12367	.1	.3	98.8	.8	.3a	.7		None	
SBR75-19557	1275.0-1276.6	12368	.5	.4	98.8	.3	1.3a	1.0		None	
SBR75-19558	1276.6-1279.0	12369	.0	.5	99.1	.4	No Oil	1.2		None	
SBR75-19559	1279.0-1281.2	12370	.0	.4	99.5	.1	No OIl	1.0		None	
SBR75-19560	1281.2-1282.2	12371	1.2	.7	97.0	1.1	3.2a	1.7		None	
SBR75-19561	1282.2-1283.3	12372	.8	.7	97.9	.6	2.1a	1.7		None	
SBR75-19562	1283.3-1284.3	12373	1.3	.4	97.3	1.0	3.4a	1.0		None	
SBR75-19563	1284.3-1286.0	12374	.8	1.0	97.8	.4	2.0a	2.4		None	
SBR75-19564	1286.0-1287.7	12375	.4	.6	98.2	.8	1.0a	1.4		None	
SBR75-19565	1287.7-1288.7	12376	1.1	.6	97.3	1.0	2.9a	1.4		None	
SBR75-19566	1288.7-1289.7	12377	1.1	1.2	96.8	.9	3.0a	2.9		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-19567	1289.7-1290.9	12378	1.2	0.6	97.1	1.1	3.2a	1.4		None	
SBR75-19568	1290.9-1292.0	12379	1.8	1.0	96.2	1.0	4.6a	2.4		None	
SBR75-19569	1292.0-1293.0	12380	1.7	1.0	96.0	1.3	4.4a	2.4		None	
SBR75-19570	1293.0-1294.0	12381	1.6	.9	96.3	1.2	4.1a	2.2		None	
SBR75-19571	1294.0-1295.0	12382	2.5	1.2	94.9	1.4	6.6	2.9	0.909	None	
SBR75-19572	1295.0-1296.0	12383	3.3	1.3	94.0	1.4	8.7	3.1	.910	None	
SBR75-19573	1296.0-1297.0	12384	2.9	1.0	94.0	2.1	7.7	2.4	.909	None	
SBR75-19574	1297.0-1298.0	12385	1.6	1.2	96.1	1.1	4.1a	2.9		None	
SBR75-19575	1298.0-1299.0	12386	.5	.4	98.1	1.0	1.3a	1.0		None	
SBR75-19576	1299.0-1301.4	12387	.1	.2	99.0	.7	.4a	.5		None	
SBR75-19577	1301.4-1303.8	12389	.0	.4	99.3	.3	Trace	.9		None	
SBR75-19578	1304.0-1307.0	12390	.0	.2	99.3	.5	No Oil	.4		None	
SBR75-19579	1307.0-1310.0	12391	.0	.1	99.2	.7	No Oil	.3		None	
SBR75-19580	1310.0-1313.0	12392	.0	.1	99.5	.4	No Oil	.3		None	
SBR75-19581	1313.0-1316.0	19393	.0	.5	98.9	.6	Trace	1.2		None	
SBR75-19582	1316.0-1318.4	19394	.0	.5	99.0	.5	No Oil	1.2		None	
SBR75-19583	1318.4-1320.2	19395	.4	.9	98.3	.4	1.0a	2.2		None	
SBR75-19584	1320.6-1322.1	19396	.7	1.0	96.3	2.0	1.8a	2.4		None	
SBR75-19585	1322.1-1323.6	19397	.7	.4	97.9	1.0	1.9a	1.0		None	
SBR75-19586	1323.6-1325.3	19398	1.0	.8	97.7	.5	2.7a	1.9		None	
SBR75-19587	1325.3-1326.5	19399	1.6	1.0	96.7	.7	4.1a	2.3		None	
SBR75-19588	1326.5-1327.7	12400	5.6	.9	91.9	1.6	14.7	2.2	.906	None	
SBR75-19589	1327.7-1329.1	12401	2.5	.7	96.0	.8	6.5	1.7	.912	None	
SBR75-19590	1329.5-1330.5	12402	8.5	1.0	88.0	2.5	22.4	2.5	.904	None	
SBR75-19591	1330.5-1331.5	12403	6.6	.9	89.7	2.8	17.5	2.1	.902	None	
SBR75-19592	1331.5-1332.6	12404	1.8	.9	96.2	1.1	4.7a	2.2		None	
SBR75-19593	1332.6-1333.7	12405	1.0	.6	96.8	1.6	2.7a	1.4		None	
SBR75-19594	1333.7-1334.7	12406	1.5	1.0	96.7	.8	4.0a	2.4		None	
SBR75-19595	1334.7-1335.7	12407	1.3	1.0	96.6	1.1	3.4a	2.4		None	
SBR75-19596	1335.7-1337.2	12408	2.1	.9	95.8	1.2	5.6	2.2	.915	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19597	1337.2-1338.6	12409	6.0	0.7	90.5	2.8	15.8	1.7	0.911	None	
SBR75-19598	1338.6-1339.6	12410	.7	.4	97.5	1.4	1.8a	1.0		None	
SBR75-19599	1339.6-1340.6	12411	.4	.3	98.7	.6	1.1a	.7		None	
SBR75-19600	1340.6-1341.6	12412	.4	.3	98.9	.4	1.0a	.7		None	
SBR75-19601	1341.6-1342.7	12413	.2	.3	98.7	.8	.6a	.7		None	
SBR75-19602	1342.7-1343.7	12414	.8	.3	97.4	1.5	2.0a	.7		None	
SBR75-19603	1343.7-1344.8	12415	1.0	.4	97.5	1.1	2.6a	1.0		None	
SBR75-19604	1344.8-1346.0	12416	1.1	.6	97.2	1.1	2.9a	1.4		None	
SBR75-19605	1346.0-1347.3	12417	1.5	.6	96.3	1.6	4.0a	1.4		None	
SBR75-19606	1347.3-1348.3	12418	2.5	.7	95.4	1.4	6.6	1.7	.918	None	
SBR75-19607	1348.4-1349.3	12419	7.3	1.2	89.1	2.4	19.2	2.9	.907	None	
SBR75-19608	1349.3-1350.3	12420	8.0	1.0	88.5	2.5	21.3	2.4	.904	None	
SBR75-19609	1350.3-1351.3	12421	1.4	.4	97.1	1.1	3.6a	1.0		None	
SBR75-19610	1351.3-1352.6	12422	.6	.6	98.2	.6	1.6a	1.3		None	
SBR75-19611	1352.6-1353.7	12423	.6	.3	98.5	.6	1.6a	.7		None	
SBR75-19612	1353.7-1355.0	12424	.3	.3	98.3	1.1	.8a	.7		None	
SBR75-19613	1355.0-1356.0	12425	.4	.3	98.9	.4	1.0a	.7		None	
SBR75-19614	1356.0-1358.5	12426	.0	.1	98.6	1.3	No Oil	.3		None	
SBR75-19615	1358.8-1361.0	12427	.1	.5	99.0	.4	.3a	1.2		None	
SBR75-19616	1361.0-1363.1	12428	.1	.7	98.5	.7	.3a	1.7		None	
SBR75-19617	1363.1-1364.8	12429	.6	.3	97.8	1.3	1.5a	.8		None	
SBR75-19618	1364.8-1366.6	12430	1.3	.0	97.9	.8	3.4a	.1		None	
SBR75-19619	1366.6-1367.6	12431	4.6	.6	93.0	1.8	12.2	1.4	.905	None	
SBR75-19620	1367.6-1368.8	12432	7.1	.5	87.6	4.8	18.9	1.2	.905	None	
SBR75-19621	1368.8-1370.0	12433	8.6	.8	87.1	3.5	22.9	1.9	.902	None	
SBR75-19622	1370.0-1371.0	12434	8.0	.7	87.8	3.5	21.3	1.7	.904	None	
SBR75-19623	1371.4-1372.7	12435	2.5	.5	94.9	2.1	6.5	1.2	.917	None	
SBR75-19624	1372.7-1374.5	12436	1.6	.7	96.7	1.0	4.1a	1.7		None	
SBR75-19625	1374.5-1376.2	12437	1.8	.3	96.8	1.1	4.6a	.7		None	
SBR75-19626	1376.2-1377.5	12438	2.0	.3	96.1	1.6	5.1a	.7		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19627	1377.5-1378.6	12439	9.1	0.7	86.9	3.3	24.0	1.7	0.906	None	
SBR75-19628	1378.6-1380.0	12440	8.5	.9	87.2	3.4	22.5	2.2	.905	None	Rubble
SBR75-19629	1380.0-1381.7	12441	1.4	.4	95.8	2.4	3.7a	1.0		None	
SBR75-19630	1381.7-1383.5	12442	1.1	.3	96.5	2.1	2.9a	.7		None	
SBR75-19631	1383.5-1384.9	12443	2.3	.3	95.7	1.7	5.9	.7	.920	None	
SBR75-19632	1384.9-1385.9	12444	10.6	1.0	82.9	5.5	28.0	2.4	.904	None	
SBR75-19633	1385.9-1387.0	12445	2.0	1.5	92.1	4.4	5.1a	3.6		None	
SBR75-19634	1387.0-1389.0	12446	.4	2.8	95.0	1.8	1.1a	6.7		None	
SBR75-19635	1389.0-1392.0	12447	.2	4.5	93.5	1.8	.4a	10.8		None	
SBR75-19636	1392.2-1394.5	12448	.9	2.2	94.9	2.0	2.2a	5.3		None	
SBR75-19637	1394.5-1395.8	12449	1.3	1.6	95.0	2.1	3.3a	3.8		None	
SBR75-19638	1395.8-1398.3	12450	.6	1.7	95.3	2.4	1.7a	4.1		None	
SBR75-19639	1398.3-1400.8	12451	.1	1.8	95.4	2.7	.4a	4.3		None	
SBR75-19640	1400.8-1401.9	12452	1.0	4.0	92.3	2.7	2.5a	9.6		None	
SBR75-19641	1401.9-1403.7	12453	.0	17.5	71.8	10.7	Trace	42.0		None	Trona
SBR75-19642	1403.7-1404.6	12454	13.5	2.7	78.3	5.5	35.3	6.5	.915	None	
SBR75-19643	1404.6-1405.6	12455	3.2	2.5	91.0	3.3	8.5	5.8	.909	None	
SBR75-19644	1405.6-1407.0	12456	.5	1.9	95.8	1.8	1.4a	4.5		None	
SBR75-19645	1407.0-1408.3	12457	.3	2.6	94.7	2.4	.7a	6.2		None	
SBR75-19646	1408.3-1409.3	12458	.5	2.4	94.7	2.4	1.2a	5.8		None	
SBR75-19647	1409.3-1410.4	12459	2.8	1.2	94.3	1.7	7.5	2.9	.890	None	
SBR75-19648	1410.4-1411.4	12460	7.6	1.1	88.7	2.6	20.2	2.6	.900	None	
SBR75-19649	1411.4-1412.4	12461	5.5	1.3	90.0	3.2	14.5	3.1	.912	None	
SBR75-19650	1412.4-1413.8	12462	2.0	1.3	94.2	2.5	5.2a	3.1		None	
SBR75-19651	1413.8-1415.1	12463	.9	1.6	95.6	1.9	2.2a	3.8		None	
SBR75-19652	1415.1-1417.0	12464	1.2	1.6	95.4	1.8	3.0a	3.8		None	
SBR75-19653	1417.0-1418.4	12465	2.2	1.5	93.4	2.9	5.7	3.6	.913	None	
SBR75-19654	1418.4-1419.6	12466	4.7	1.9	90.3	3.1	12.5	4.6	.911	None	
SBR75-19655	1419.6-1420.8	12467	5.1	1.5	90.6	2.8	13.3	3.6	.908	None	
SBR75-19656	1420.8-1421.8	12468	3.6	1.2	93.3	1.9	9.5	2.9	.911	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-19657	1421.8-1423.0	12469	2.8	1.3	92.6	3.3	7.4	3.1	0.913	None	
SBR75-19658	1423.0-1424.0	12470	2.0	3.2	92.4	2.4	5.3	7.7	.904	None	
SBR75-19659	1424.0-1425.3	12471	.4	2.0	95.8	1.8	1.0a	4.8		None	
SBR75-19660	1425.3-1426.5	12472	.2	.8	96.8	2.2	.6a	1.9		None	
SBR75-19661	1426.5-1427.6	12473	.7	1.1	96.7	1.5	1.8a	2.8		None	
SBR75-19662	1427.6-1429.0	12474	1.8	.6	95.2	2.4	4.8a	1.4		None	
SBR75-19663	1429.0-1430.1	12475	5.4	1.2	90.8	2.6	14.1	2.9	.913	None	
SBR75-19664	1430.1-1431.3	12476	4.1	1.1	92.1	2.7	10.7	2.6	.912	None	
SBR75-19665	1431.3-1432.7	12477	2.2	1.2	94.4	2.2	5.7	2.9	.911	None	
SBR75-19666	1432.7-1433.8	12478	.7	1.5	95.9	1.9	1.9a	3.6		None	
SBR75-19667	1433.8-1435.0	12479	.8	2.1	95.7	1.4	2.2a	5.0		None	
SBR75-19668	1435.0-1436.0	12480	1.1	.6	96.1	2.2	2.8a	1.4		None	
SBR75-19669	1436.0-1437.0	12481	.9	1.0	96.2	1.9	2.2a	2.4		None	
SBR75-19670	1437.0-1438.0	12482	.0	2.5	95.5	2.0	No Oil	6.0		None	
SBR75-19671	1438.0-1439.0	12483	.0	2.0	95.9	2.1	No Oil	4.8		None	
SBR75-19672	1439.0-1442.0	12484	.0	1.1	97.6	1.3	No Oil	2.7		None	
SBR75-19673	1442.0-1444.3	12485	.0	1.8	96.7	1.5	No Oil	4.4		None	
SBR75-19674	1444.3-1446.3	12486	.0	1.8	96.3	1.9	No Oil	4.3		None	
SBR75-19675	1446.3-1447.3	12487	.0	1.9	96.1	2.0	No Oil	4.5		None	
SBR75-19676	1447.3-1450.0	12488	.0	1.4	96.9	1.7	No Oil	3.5		None	
SBR75-19677	1450.0-1452.4	12489	.0	2.1	95.6	2.3	No Oil	5.1		None	
SBR75-19678	1452.4-1454.2	12490	.0	3.1	93.9	3.0	Trace	7.3		None	
SBR75-19679	1454.2-1456.0	12491	.3	2.8	95.3	1.6	.8a	6.7		None	
SBR75-19680	1456.0-1457.0	12492	.4	1.8	96.5	1.3	1.0a	4.3		None	
SBR75-19681	1457.0-1458.8	12493	2.3	1.5	91.8	4.4	6.1	3.6	.910	None	
SBR75-19682	1458.8-1461.0	12494	.4	3.9	94.1	1.6	.9a	9.3		None	
SBR75-19683	1461.0-1463.0	12495	.1	2.5	95.8	1.6	.3a	6.0		None	
SBR75-19684	1463.0-1465.0	12496	.0	5.7	91.0	3.3	Trace	13.7		None	
SBR75-19685	1465.0-1468.0	12497	.0	4.2	94.2	1.6	Trace	10.0		None	
SBR75-19686	1468.0-1470.0	12498	.0	4.6	93.3	2.1	Trace	11.1		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-19687	1470.0-1472.0	12562	0.5	5.2	91.4	2.9	1.3a	12.5		None	
SBR75-19688	1472.0-1474.0	12500	.5	6.0	90.3	3.2	1.3a	14.4		None	
SBR75-19689A	1474.0-1476.0	12501	.0	5.8	87.1	7.1	Trace	14.0		None	
SBR75-19689B	1479.0-1480.0	12502	1.2	4.5	90.7	3.6	3.0a	10.8		None	
SBR75-19690	1480.0-1481.0	12503	4.7	3.1	88.9	3.3	12.4	7.4	0.908	None	
SBR75-19691	1481.0-1482.0	12504	6.2	3.1	86.9	3.8	16.5	7.4	.908	None	
SBR75-19692	1482.0-1483.0	12505	3.9	2.5	89.3	4.3	10.3	6.0	.914	None	
SBR75-19693	1483.0-1484.0	12506	3.1	2.2	90.8	3.9	8.1	5.3	.915	None	
SBR75-19694	1484.0-1485.0	12507	3.8	3.0	90.0	3.2	10.0	7.2	.914	None	
SBR75-19695	1485.0-1486.0	12508	3.8	3.3	90.3	2.6	10.1	7.9	.910	None	
SBR75-19696	1486.0-1487.0	12509	3.6	1.7	91.7	3.0	9.5	4.1	.914	None	
SBR75-19697	1487.0-1488.3	12510	2.8	2.0	92.7	2.5	7.3	4.8	.908	None	
SBR75-19698	1488.4-1489.4	12511	2.6	2.5	92.1	2.8	6.9	6.0	.910	None	
SBR75-19699	1489.4-1490.4	12512	1.0	2.6	94.3	2.1	2.6a	6.2		None	
SBR75-19700	1490.4-1491.4	12513	1.4	2.8	93.2	2.6	3.5a	6.7		None	
SBR75-19701	1491.4-1492.5	12514	1.0	3.0	93.2	2.8	2.6a	7.2		None	
SBR75-19702	1492.5-1493.6	12515	1.6	2.2	94.1	2.1	4.1a	5.3		None	
SBR75-19703	1493.6-1494.6	12516	2.0	2.1	93.9	2.0	5.1a	5.0		None	
SBR75-19704	1494.6-1495.9	12517	7.2	2.6	86.0	4.2	19.1	6.2	.906	None	
SBR75-19705	1495.9-1497.0	12518	8.0	1.6	86.4	4.0	21.3	3.8	.902	None	
SBR75-19706	1497.0-1498.1	12519	6.9	1.4	88.0	3.7	18.4	3.4	.905	None	
SBR75-19707	1498.1-1499.2	12520	2.8	1.4	93.0	2.8	7.4	3.4	.904	None	
SBR75-19708	1499.2-1500.4	12521	.9	3.2	93.7	2.2	2.3a	7.7		None	
SBR75-19709	1500.4-1501.5	12522	.4	2.9	94.0	2.7	1.2a	7.0		None	
SBR75-19710	1501.5-1502.6	12523	2.4	2.6	92.9	2.1	6.2	6.2	.910	None	
SBR75-19711	1502.6-1503.8	12524	2.1	2.9	92.2	2.8	5.5	7.0	.909	None	
SBR75-19712	1503.8-1504.8	12525	1.2	3.1	92.7	3.0	3.2a	7.4		None	
SBR75-19713	1504.8-1506.0	12526	.4	3.6	93.2	2.8	1.1a	8.6		None	
SBR75-19714	1506.0-1507.0	12527	.4	2.9	94.8	1.9	1.2a	6.9		None	
SBR75-19715	1507.0-1508.3	12528	.3	3.0	92.6	4.1	.7a	7.2		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-19716	1508.3-1509.9	12529	1.4	2.6	93.4	2.6	3.6a	6.3		None	
SBR75-19717	1509.9-1510.9	12530	5.1	1.9	89.7	3.3	13.5	4.6	0.909	None	
SBR75-19718	1510.9-1511.4	12531	10.0	1.2	85.7	3.1	26.7	2.9	.901	None	
SBR75-19719	1511.4-1512.4	12532	5.2	1.1	91.6	2.1	13.9	2.5	.900	None	
SBR75-19720	1512.4-1513.4	12533	2.9	.9	94.1	2.1	7.7	2.2	.914	None	
SBR75-19721	1513.4-1514.7	12534	.5	1.1	96.6	1.8	1.4a	2.6		None	
SBR75-19722	1514.7-1516.0	12535	.7	1.7	96.2	1.4	1.9a	4.1		None	
SBR75-19723	1516.0-1517.0	12536	2.4	1.3	94.0	2.3	6.3	3.1	.911	None	
SBR75-19724	1517.0-1518.2	12537	2.3	1.4	93.3	3.0	6.1	3.4	.914	None	
SBR75-19725	1518.2-1519.4	12538	1.1	.6	95.8	2.5	2.8a	1.4		None	
SBR75-19726	1519.4-1520.4	12539	.7	2.0	95.8	1.5	1.7a	4.8		None	
SBR75-19727	1520.4-1521.5	12540	.3	1.6	96.5	1.6	.9a	3.8		None	
SBR75-19728	1521.5-1522.6	12541	1.0	1.8	93.8	3.4	2.6a	4.3		None	
SBR75-19729	1522.7-1524.0	12542	.3	5.9	92.1	1.7	.7a	14.1		None	
SBR75-19730	1524.0-1225.0	12543	.0	6.8	91.7	1.5	Trace	16.2		None	
SBR75-19731	1525.0-1527.2	12544	.1	3.6	95.5	.8	.2a	8.6		None	
SBR75-19732	1527.2-1529.4	12545	.0	2.5	96.8	.7	Trace	6.1		None	
SBR75-19733	1529.4-1230.5	12546	.0	3.3	95.6	1.1	No Oil	7.9		None	
SBR75-19734	1530.5-1533.0	12547	.0	.5	97.3	2.2	No Oil	1.3		None	
SBR75-19735	1533.0-1536.0	12548	.0	1.6	97.4	1.0	No Oil	3.9		None	
SBR75-19736	1536.0-1539.0	12549	.0	.7	97.9	1.4	No Oil	1.6		None	
SBR75-19737	1539.0-1542.0	12550	.0	1.6	97.0	1.4	No Oil	3.8		None	
SBR75-19738	1542.0-1545.0	12551	.0	1.4	97.1	1.5	Trace	3.4		None	
SBR75-19739	1545.0-1547.0	12552	.0	2.0	96.5	1.5	Trace	4.8		None	
SBR75-19740	1547.0-1549.0	12553	.0	.7	97.3	2.0	Trace	1.7		None	
SBR75-19741	1549.0-1550.7	12554	.0	.2	98.4	1.4	No Oil	.4		None	
SBR75-19742	1550.7-1551.7	12555	1.0	.9	96.8	1.3	2.6a	2.2		None	
SBR75-19743	1551.7-1553.0	12556	5.8	1.4	90.1	2.7	15.4	3.4	.906	None	
SBR75-19744	1553.0-1554.4	12557	6.7	1.3	87.9	1.4	17.8	3.0	.910	None	
SBR75-19745	1554.6-1555.2	12558	6.8	1.0	89.3	2.9	18.0	2.4	.906	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19746	1555.2-1556.2	12559	2.3	1.1	94.8	1.8	6.2	2.6	0.911	None	
SBR75-19747	1556.2-1557.3	12560	1.0	1.7	95.8	1.5	2.7a	4.1		None	
SBR75-19748	1557.3-1558.4	12561	.4	1.0	97.7	.9	1.1a	2.3		None	
SBR75-19749	1558.4-1559.5	12563	.6	1.1	97.6	.7	1.6a	2.5		None	
SBR75-19750	1559.5-1560.6	12564	.8	.7	98.0	.5	2.0a	1.7		None	
SBR75-19751	1560.8-1561.4	12565	1.9	.9	95.8	1.4	4.9a	2.2		None	
SBR75-19752	1561.4-1562.6	12566	4.7	1.6	91.4	2.3	12.5	3.8	.909	None	
SBR75-19753	1562.6-1563.5	12567	5.5	1.1	91.0	2.4	14.5	2.8	.904	None	
SBR75-19754	1563.5-1564.7	12568	.7	.1	98.1	1.1	2.0a	.2		None	
SBR75-19755	1564.7-1565.7	12569	.1	.5	98.9	.5	.3a	1.2		None	
SBR75-19756	1565.7-1567.6	12570	.6	.3	98.0	1.1	1.6a	.6		None	
SBR75-19757	1567.6-1569.6	12571	1.0	1.2	96.7	1.1	2.6a	2.9		None	
SBR75-19758	1569.6-1570.6	12572	3.0	1.1	94.3	1.6	7.9	2.6	.913	None	
SBR75-19759	1570.6-1571.7	12573	3.1	1.2	93.5	2.2	8.1	2.9	.916	None	
SBR75-19760	1571.7-1572.7	12574	3.9	1.0	92.8	2.3	10.3	2.4	.913	None	
SBR75-19761	1572.7-1573.7	12575	3.6	1.2	93.6	1.6	9.5	2.7	.910	None	
SBR75-19762	1573.7-1575.5	12576	1.3	.5	95.8	2.4	3.5a	1.2		None	
SBR75-19763	1575.5-1577.3	12577	1.4	1.5	95.9	1.2	3.5a	3.6		None	
SBR75-19764	1577.3-1578.3	12578	2.2	1.1	94.8	1.9	5.7	2.6	.916	None	
SBR75-19765	1578.3-1579.1	12579	11.8	1.6	82.8	3.8	31.0	3.8	.913	None	
SBR75-19766	1579.1-1580.5	12580	9.9	1.7	85.0	3.4	26.1	4.1	.911	None	
SBR75-19767	1580.5-1581.8	12581	1.0	1.0	96.5	1.5	2.6a	2.4		None	0.2 missing
SBR75-19768	1581.8-1583.1	12582	.3	1.3	97.7	.7	.8a	3.1		None	
SBR75-19770	1583.1-1584.9	12584	.6	1.0	97.9	.5	1.7a	2.4		None	
SBR75-19771	1584.9-1585.7	12585	3.5	1.3	93.4	1.8	9.3	3.1	.913	None	
SBR75-19772	1585.7-1587.0	12586	4.0	1.4	92.1	2.5	10.5	3.4	.908	None	
SBR75-19773	1587.0-1590.5	12587	.0	2.4	97.0	.6	No Oil	5.7		None	
SBR75-19774	1590.5-1594.0	12588	.0	2.4	96.7	.9	No Oil	5.8		None	
SBR75-19775	1594.0-1597.1	12589	.0	3.4	94.2	2.4	No Oil	8.2		None	
SBR75-19776	1597.1-1599.0	12590	.0	7.3	91.6	1.1	No Oil	17.6		None	Some rubble

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19777	1599.0-1600.2	12591	1.4	3.1	94.2	1.3	3.7a	7.4		None	
SBR75-19778	1600.2-1601.6	12592	6.2	1.5	90.1	2.2	16.5	3.6	0.904	None	
SBR75-19779	1601.6-1603.0	12593	.0	1.8	97.5	.7	No Oil	4.3		None	
SBR75-19780	1603.0-1606.0	12594	.0	1.8	97.6	.6	No Oil	4.4		None	
SBR75-19781	1606.0-1609.0	12595	.0	.4	96.0	3.6	No Oil	1.1		None	
SBR75-19782	1609.0-1612.0	12596	.0	2.7	96.7	.6	No Oil	6.4		None	
SBR75-19783	1612.0-1615.0	12597	.0	2.2	95.0	2.8	No Oil	5.2		None	
SBR75-19784	1615.0-1618.0	12598	.0	3.4	95.5	1.1	No Oil	8.1		None	
SBR75-19785	1618.0-1621.0	12599	.0	2.4	96.5	1.1	Trace	5.8		None	
SBR75-19786	1621.0-1623.0	12600	.0	2.1	97.4	.5	Trace	5.1		None	
SBR75-19787	1623.0-1625.0	12601	.0	1.0	97.1	1.9	Trace	2.4		None	
SBR75-19788	1625.0-1626.4	12602	.3	.5	97.1	2.1	.8a	1.2		None	
SBR75-19789	1626.4-1627.6	12603	3.2	1.1	93.3	2.4	8.4	2.6	.914	None	
SBR75-19790	1627.6-1628.6	12604	13.2	1.1	82.2	3.5	34.7	2.6	.912	None	
SBR75-19791	1628.6-1629.9	12605	1.4	1.6	95.6	1.4	3.7a	3.8		None	
SBR75-19792	1630.0-1631.0	12606	1.0	.8	97.2	1.0	2.5a	1.9		None	
SBR75-19793	1631.0-1632.1	12607	1.5	1.3	95.7	1.5	4.0a	3.1		None	
SBR75-19794	1632.1-1633.2	12608	1.3	1.1	96.5	1.1	3.4a	2.6		None	
SBR75-19795	1633.2-1634.4	12609	2.4	1.0	94.5	2.1	6.4	2.4	.915	None	
SBR75-19796	1634.4-1635.5	12610	3.1	.7	94.5	1.7	8.2	1.7	.911	None	
SBR75-19797	1635.5-1636.5	12611	3.3	1.0	94.0	1.7	8.7	2.4	.912	None	
SBR75-19798	1636.5-1637.5	12612	1.3	.6	97.1	1.0	3.3a	1.4		None	
SBR75-19799	1637.5-1638.5	12613	.5	.8	97.3	1.4	1.4a	1.9		None	
SBR75-19800	1638.5-1639.7	12614	.7	1.4	96.9	1.0	1.9a	3.4		None	
SBR75-19801	1639.7-1640.8	12615	8.9	1.7	85.8	3.6	23.5	4.1	.906	None	
SBR75-19802	1640.8-1641.4	12616	7.6	.8	88.2	3.4	20.3	1.9	.898	None	
SBR75-19803	1641.6-1643.0	12617	1.1	1.1	96.3	1.5	2.9a	2.6		None	
SBR75-19804	1643.0-1644.3	12618	.0	.8	98.0	1.2	No Oil	1.9		None	
SBR75-19805	1644.3-1646.2	12619	.0	.4	99.1	.5	No Oil	1.1		None	
SBR75-19806	1646.2-1648.1	12620	.0	.5	98.7	.8	No Oil	1.1		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19807	1648.1-1649.0	12621	0.0	3.0	96.2	0.8	Trace	7.1		None	
SBR75-19808	1649.1-1650.3	12622	.0	2.3	96.9	.8	No Oil	5.4		None	
SBR75-19809	1650.3-1651.5	12623	.0	3.3	96.0	.7	Trace	7.9		None	
SBR75-19810	1651.5-1653.3	12624	.0	2.1	95.2	2.7	No Oil	5.1		None	
SBR75-19811	1653.3-1655.1	12625	.0	2.6	96.6	.8	Trace	6.3		None	
SBR75-19812	1655.1-1656.1	12626	.4	1.6	96.6	1.4	.9a	3.8		None	
SBR75-19813	1656.1-1657.3	12627	3.3	1.0	93.9	1.8	8.7	2.4	0.916	None	
SBR75-19814	1657.3-1658.7	12628	.0	.8	98.6	.6	No Oil	2.0		None	
SBR75-19815	1658.7-1660.0	12629	.0	.9	98.4	.7	No Oil	2.2		None	
SBR75-19816	1660.0-1661.0	12630	.0	2.4	97.0	.6	No Oil	5.7		None	
SBR75-19817	1661.0-1662.1	12631	.0	2.2	97.0	.8	No Oil	5.4		None	
SBR75-19818	1662.1-1665.5	12632	.0	.3	98.7	1.0	No Oil	.8		None	0.1 missing
SBR75-19819	1665.5-1669.0	12633	.0	1.7	97.2	1.1	No Oil	4.0		None	
SBR75-19820	1669.0-1672.0	12634	.0	2.3	95.8	1.9	No Oil	5.6		None	
SBR75-19821	1672.0-1675.0	12635	.0	1.6	97.8	.6	No Oil	3.7		None	0.2 missing
SBR75-19822	1675.0-1678.0	12636	.0	2.3	96.0	1.7	No Oil	5.6		None	
SBR75-19823	1678.0-1680.9	12637	.0	1.3	97.0	1.7	No Oil	3.1		None	
SBR75-19824	1681.1-1685.0	12638	.0	2.2	96.7	1.1	No Oil	5.3		None	
SBR75-19825	1685.0-1689.0	12639	.0	1.7	97.1	1.2	No Oil	4.1		None	
SBR75-19826	1689.0-1693.0	12640	.0	1.6	97.6	.8	No Oil	3.8		None	
SBR75-19827	1693.0-1697.0	12641	.0	1.3	97.2	1.4	.1a	3.2		None	
SBR75-19828	1697.0-1698.7	12642	.5	.7	98.1	.7	1.3a	1.7		None	
SBR75-19829	1698.7-1699.7	12643	3.9	.4	91.6	4.1	10.2	1.0	.914	None	
SBR75-19830	1699.7-1701.4	12644	2.2	2.7	93.4	1.7	5.9	6.5	.903	None	
SBR75-19831	1701.4-1705.0	12645	.1	1.9	94.1	3.9	.3a	4.6		None	
SBR75-19832	1705.0-1708.0	12646	.0	1.8	96.2	2.0	.1a	4.3		None	
SBR75-19833	1708.0-1710.0	12647	.3	2.5	96.3	.9	.7a	6.0		None	
SBR75-19834	1710.0-1711.7	12648	1.1	2.4	95.5	1.0	2.9a	5.8		None	
SBR75-19835	1711.9-1713.0	12649	1.4	1.8	94.3	2.5	3.6a	4.3		None	
SBR75-19836	1713.0-1714.3	12650	2.8	1.5	94.4	1.3	7.3	3.6	.909	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-19837	1714.3-1715.5	12653	3.2	1.8	93.1	1.9	8.4	4.3	0.908	None	
SBR75-19838	1715.5-1716.7	12654	2.3	1.1	96.0	.6	6.0	2.6	.907	None	
SBR75-19839	1716.7-1718.0	12655	1.0	1.4	95.8	1.8	2.7a	3.4		None	
SBR75-19840	1718.0-1719.0	12656	3.3	2.1	92.4	2.2	8.7	5.0	.909	None	
SBR75-19841	1719.0-1720.0	12657	3.1	1.6	93.8	1.5	8.1	3.8	.911	None	
SBR75-19842	1720.0-1721.2	12658	4.5	1.7	91.2	2.6	11.9	4.1	.905	None	
SBR75-19843	1721.2-1722.4	12659	3.5	1.8	92.7	2.0	9.3	4.2	.904	None	
SBR75-19844	1722.4-1723.6	12660	1.5	1.8	95.4	1.3	4.0a	4.3		None	
SBR75-19845	1723.6-1724.8	12661	.7	1.8	95.7	1.8	1.8a	4.3		None	
SBR75-19846	1724.8-1726.0	12662	1.2	2.1	95.4	1.3	3.0a	5.0		None	
SBR75-19847	1726.0-1727.0	12663	2.0	2.0	94.3	1.7	5.4	4.8	.901	None	
SBR75-19848	1727.0-1728.0	12664	7.0	1.4	88.1	3.5	18.7	3.4	.897	None	
SBR75-19849	1728.0-1729.5	12665	2.8	1.6	93.9	1.7	7.5	3.8	.907	None	
SBR75-19850	1729.5-1730.6	12666	.8	2.4	95.9	.9	2.0a	5.8		None	
SBR75-19851	1730.6-1731.6	12667	.4	3.2	95.1	1.3	.9a	7.7		None	
SBR75-19852	1731.6-1732.6	12668	.5	3.6	94.4	1.5	1.2a	8.6		None	
SBR75-19853	1732.6-1734.0	12669	5.3	2.6	89.5	2.6	13.9	6.2	.910	None	
SBR75-19854	1734.0-1735.3	12670	5.7	2.5	89.0	2.8	15.0	6.0	.909	None	
SBR75-19855	1735.3-1736.3	12671	1.9	3.1	93.1	1.9	4.9a	7.4		None	
SBR75-19856	1736.4-1739.0	12672	.3	1.6	96.8	1.3	.9a	3.8		None	
SBR75-19857	1739.0-1742.0	12673	.2	1.4	96.7	1.7	.4a	3.4		None	
SBR75-19858	1742.0-1745.0	12674	.4	2.3	95.4	1.9	.9a	5.5		None	
SBR75-19859	1745.0-1748.0	12675	.4	3.6	94.2	1.8	1.1a	8.6		None	
SBR75-19860	1748.0-1750.0	12676	.3	2.0	96.6	1.1	.9a	4.8		None	
SBR75-19861	1750.0-1751.9	12677	.7	2.7	94.9	1.7	1.7a	6.5		None	
SBR75-19862	1751.9-1753.4	12678	2.1	1.8	94.1	2.0	5.6	4.3	.912	None	
SBR75-19863	1753.6-1754.7	12679	5.3	.6	91.6	2.5	13.9	1.4	.906	None	
SBR75-19864	1754.7-1756.1	12680	5.5	.7	90.5	3.3	14.7	1.7	.907	None	
SBR75-19865	1756.1-1757.5	12681	3.4	.3	93.3	3.0	9.0	.7	.912	None	
SBR75-19866	1757.5-1758.5	12682	13.1	.7	80.0	6.2	34.5	1.7	.909	Slight	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-19867	1758.5-1759.5	12683	11.9	1.1	83.9	3.1	31.5	2.6	0.904	None	
SBR75-19868	1759.5-1760.2	12684	6.6	.5	90.7	2.2	17.4	1.2	.904	None	
SBR75-19869	1760.2-1761.4	12685	.8	.1	95.4	3.7	2.2a	.2		None	
SBR75-19870	1761.4-1763.0	12686	.9	.5	97.5	1.1	2.3a	1.2		None	
SBR75-19871	1763.0-1764.2	12687	.8	.3	97.5	1.4	2.2a	.7		None	
SBR75-19872	1764.2-1765.2	12688	1.0	.2	98.0	.8	2.7a	.5		None	
SBR75-19873	1765.4-1766.6	12689	1.7	.2	96.9	1.2	4.6a	.5		None	
SBR75-19874	1766.6-1767.6	12690	4.3	.4	94.2	1.1	11.3	1.0	.904	None	
SBR75-19875	1767.6-1768.2	12691	10.5	.5	85.0	4.0	27.7	1.2	.908	None	
SBR75-19876	1768.2-1768.9	12692	9.0	.9	86.2	3.9	23.8	2.2	.909	None	
SBR75-19877	1768.9-1769.6	12693	4.6	.4	90.4	4.6	12.2	1.0	.912	None	
SBR75-19878	1769.6-1770.7	12694	2.1	.5	94.6	2.8	5.5	1.2	.915	None	
SBR75-19879	1770.7-1771.8	12695	.7	.2	98.4	.7	1.7a	.5		None	
SBR75-19880	1771.8-1772.8	12696	2.4	.5	95.0	2.1	6.4	1.2	.910	None	
SBR75-19881	1772.8-1773.8	12697	3.5	.3	93.3	2.9	9.2	.7	.908	None	
SBR75-19882	1773.8-1775.4	12698	7.2	.6	88.1	4.1	19.3	1.4	.900	None	
SBR75-19883	1775.4-1776.4	12699	5.9	.5	91.0	2.6	15.6	1.2	.904	None	
SBR75-19884	1776.4-1777.5	12700	3.0	.4	95.4	1.2	8.0	1.0	.901	None	
SBR75-19885	1777.5-1778.7	12701	.9	.3	97.3	1.5	2.5a	.7		None	
SBR75-19886	1778.7-1780.7	12702	.6	.5	97.4	1.5	1.5a	1.2		None	
SBR75-19887	1780.7-1781.7	12703	1.6	7.0	84.0	7.4	4.1a	16.8		None	
SBR75-19888	1782.0-1785.9	12784	.0	10.1	75.8	14.1	Trace	24.3		None	
SBR75-19889	1785.9-1786.9	12705	7.4	1.5	86.8	4.3	19.7	3.7	.901	Slight	
SBR75-19890	1787.0-1788.7	12706	6.2	.7	89.4	3.7	16.5	1.7	.896	None	
SBR75-19891	1788.7-1789.8	12707	4.4	.5	91.9	3.2	11.7	1.2	.906	None	
SBR75-19892	1789.8-1791.2	12708	4.7	.6	92.6	2.1	12.4	1.4	.903	None	
SBR75-19893	1791.2-1792.4	12709	5.5	.4	91.6	2.5	14.7	1.0	.900	None	
SBR75-19894	1792.4-1793.7	12710	8.4	.9	87.3	3.4	22.5	2.2	.899	None	
SBR75-19895	1793.7-1795.4	12711	9.7	.9	85.8	3.6	25.8	2.2	.904	None	
SBR75-19896	1795.4-1796.5	12712	3.7	.4	93.6	2.3	10.0	1.0	.896	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-19897	1796.6-1798.0	12713	1.4	0.5	96.7	1.4	3.7a	1.2		None	
SBR75-19898	1798.0-1799.4	12714	1.4	.1	97.1	1.4	3.7a	.2		None	
SBR75-19899	1799.4-1800.3	12715	10.7	.9	85.5	2.9	28.4	2.2	0.899	None	
SBR75-19900	1800.3-1802.0	12716	.7	.7	96.6	2.0	1.9a	1.7		None	
SBR75-19901	1802.0-1804.0	12717	.0	.8	97.7	1.5	No Oil	1.9		None	
SBR75-19902	1804.0-1806.0	12718	.0	.6	97.3	2.1	No Oil	1.4		None	
SBR75-19903	1806.0-1808.0	12719	.0	1.0	98.4	.6	No Oil	2.3		None	
SBR75-19904	1808.0-1809.8	12720	.0	.4	98.2	1.4	No Oil	.9		None	
SBR75-19905	1810.0-1813.0	12721	.0	1.2	97.2	1.6	No Oil	2.8		None	
SBR75-20524	1813.0-1815.0	12722	.0	.9	97.4	1.7	No Oil	2.2		None	
SBR75-20525	1815.0-1817.0	12913	.1	.6	97.8	1.5	.3a	1.4		None	
SBR75-20526	1817.0-1818.3	12914	.8	.2	95.2	3.8	2.2a	.5		None	
SBR75-20527	1818.3-1819.6	12915	3.0	.6	94.4	2.0	7.9	1.3	.907	None	
SBR75-20528	1819.6-1820.4	12916	12.8	1.3	81.9	4.0	33.6	3.0	.912	None	
SBR75-20529	1820.4-1821.4	12917	5.1	.7	91.4	2.8	13.6	1.6	.911	None	
SBR75-20530	1821.4-1822.4	12918	4.8	.5	93.1	1.6	12.8	1.3	.906	None	
SBR75-20531	1822.4-1824.6	12919	.6	.4	97.1	1.9	1.5a	1.0		None	
SBR75-20532	1824.6-1826.8	12920	.5	.3	96.8	2.4	1.2a	.7		None	
SBR75-20533	1826.8-1828.0	12921	2.3	.4	94.4	2.9	6.1	1.0	.897	None	
SBR75-20534	1828.0-1830.0	12922	2.2	6.2	82.3	9.3	5.8	14.9	.903	None	
SBR75-20535	1830.0-1833.0	12923	1.9	6.4	74.0	17.7	5.1a	15.3		None	
SBR75-20536	1833.0-1834.2	12924	8.4	2.2	84.7	4.7	22.2	5.3	.901	None	
SBR75-20537	1834.2-1835.7	12925	2.5	.4	90.2	6.9	6.6	1.0	.898	None	
SBR75-20538	1835.7-1836.8	12926	1.4	.5	93.2	4.9	3.5a	1.2		None	
SBR75-20539	1836.8-1837.8	12927	.9	.2	97.7	1.2	2.3a	.5		None	
SBR75-20540	1837.8-1839.1	12928	1.0	.4	98.1	.5	2.5a	1.0		None	
SBR75-20541	1839.7-1842.0	12929	1.3	6.5	87.6	4.6	3.3a	15.6		None	
SBR75-20542	1843.6-1847.0	12930	.0	8.0	87.5	4.5	Trace	19.1		None	
SBR75-20543	1847.0-1848.4	13012	2.6	9.0	76.7	11.7	6.9	21.6	.901	None	
SBR75-20544	1848.9-1850.1	12932	9.6	3.7	76.1	10.6	25.4	8.9	.905	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-20545	1850.1-1851.2	12933	8.0	0.9	85.6	5.5	21.3	2.2	0.906	None	
SBR75-20546	1851.2-1852.2	12934	5.8	2.2	85.0	7.0	15.3	5.3	.904	None	
SBR75-20547	1852.3-1853.7	12935	6.5	4.0	79.0	10.5	17.2	9.6	.901	None	
SBR75-20548	1853.7-1854.7	12936	8.5	1.6	85.7	4.2	22.7	3.8	.897	None	
SBR75-20551	1854.7-1858.1	12939	10.3	3.3	76.8	9.6	27.7	7.9	.893	None	
SBR75-20552	1858.1-1859.5	12940	2.4	1.0	94.6	2.0	6.4	2.4	.902	None	
SBR75-20553	1859.5-1861.4	12941	1.1	.7	96.5	1.7	2.8a	1.7		None	
SBR75-20554	1861.4-1862.5	12942	.6	.3	98.3	.8	1.5a	.7		None	
SBR75-20555	1862.5-1863.5	12943	.7	3.1	91.5	4.7	1.8a	7.4		None	
SBR75-20556	1863.7-1864.7	12944	1.9	3.2	88.8	6.1	4.9a	7.7		None	
SBR75-20557	1864.7-1865.9	12945	7. 2	.9	87.1	4.8	19.2	2.2	.895	None	
SBR75-20558	1865.9-1866.9	12946	10.1	1.0	84.4	4.5	27.0	2.4	.900	None	
SBR75-20559	1866.9-1867.8	12947	2.8	.5	93.4	3.3	7.4	1.2	.908	None	
SBR75-20560	1867.8-1870.0	12948	.3	.3	98.8	.6	.7a	.7		None	
SBR75-20561	1870.0-1873.0	12949	.3	.3	97.9	1.5	.8a	.7		None	
SBR75-20562	1873.0-1875.2	12950	.6	.4	95.4	3.6	1.5a	1.0		None	
SBR75-20563	1875.6-1877.6	12951	5.6	4.1	84.8	5.5	14.7	9.8	.905	None	
SBR75-20564	1878.6-1881.1	12952	3.1	.9	91.8	4.2	8.2	2.2	.905	None	
SBR75-20565	1886.0-1888.5	12953	.5	.8	97.3	1.4	1.4a	1.9		None	
SBR75-20566	1913.0-1914.1	12954	1.5	5.0	89.1	4.4	3.9a	12.0		None	
SBR75-20567	1914.4-1915.4	12955	5.2	8.0	80.9	5.9	14.0	19.2	.901	None	
SBR75-20568	1915.4-1916.0	12956	8.6	1.4	86.1	3.9	22.9	3.4	.898	None	
SBR75-20569	1916.0-1917.9	12957	2.5	.6	94.0	2.9	6.7	1.4	.904	None	
SBR75-20570	1917.9-1919.3	12958	2.1	.5	94.2	3.2	5.5	1.2	.906	None	
SBR75-20571	1919.4-1920.7	12959	2.6	1.1	94.5	1.8	7.0	2.6	.898	None	
SBR75-20572	1920.7-1921.7	12960	3.4	.3	94.7	1.6	9.0	.7	.901	None	
SBR75-20573	1921.7-1922.7	12961	5.4	.7	91.6	2.3	14.4	1.7	.904	None	
SBR75-20574	1922.7-1923.7	12962	4.6	.6	88.2	6.6	12.2	1.4	.905	None	
SBR75-20575	1923.7-1925.7	12963	3.8	.7	93.0	2.5	10.0	1.7	.906	None	
SBR75-20576	1925.7-1927.7	12964	5.1	.7	92.1	2.1	13.4	1.7	.910	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR75-20577	1927.7-1929.3	12965	4.0	0.7	93.1	2.2	10.6	1.6	0.913	None	
SBR75-20578	1929.3-1930.6	12966	2.8	.4	95.5	1.3	7.3	1.0	.913	None	
SBR75-20579	1930.6-1931.7	12967	2.8	.5	95.0	1.7	7.4	1.2	.912	None	
SBR75-20580	1931.7-1933.0	12968	6.7	1.0	88.7	3.6	17.7	2.5	.907	None	
SBR75-20581	1933.0-1935.3	12969	4.3	.7	91.4	3.6	11.4	1.7	.908	None	
SBR75-20582	1935.3-1937.5	12970	1.9	.2	92.4	5.5	4.9a	.5		None	
SBR75-20583	1937.5-1938.9	12971	.5	.3	96.6	2.6	1.4a	.7		None	
SBR75-20584	1938.9-1939.9	12972	1.5	1.5	95.4	1.6	3.9a	3.6		None	
SBR75-20585	1939.9-1940.8	12973	2.1	.3	89.0	8.6	5.6	.7	.894	Slight	
SBR75-20586	1940.8-1942.5	13036	1.8	.5	96.8	.9	4.7a	1.2		None	
SBR75-20587	1942.5-1944.5	12975	1.7	.5	96.1	1.7	4.4a	1.2		Slight	
SBR75-20588	1954.9-1957.2	12976	2.6	.4	95.5	1.5	6.7	1.0	.912	None	
SBR75-20589	1957.2-1959.2	12977	.6	.3	98.2	.9	1.6a	.7		None	
SBR75-20590	1959.2-1960.2	12978	.4	5.0	86.4	8.2	1.1a	12.0		None	
SBR75-20591	1960.5-1963.0	12979	1.6	.3	95.4	2.7	4.3a	.7		None	
SBR75-20592	1963.0-1965.5	12980	1.4	.7	97.0	.9	3.6a	1.7		None	
SBR75-20593	1965.5-1968.0	12981	.9	.5	96.1	2.5	2.2a	1.2		None	
SBR75-20594	1968.0-1970.5	12982	1.3	1.0	94.2	3.5	3.4a	2.4		None	
SBR75-20595	1970.5-1973.4	13018	.6	1.4	94.9	3.1	1.6a	3.4		None	
SBR75-20596	1973.4-1975.0	12984	1.0	.5	98.0	.5	2.6a	1.2		None	
SBR75-20597	1975.0-1977.0	12985	1.0	.3	96.6	2.1	2.6a	.6		None	
SBR75-20598	1977.0-1978.7	12986	.4	.3	93.9	5.4	1.1a	.7		None	
SBR75-20599	1978.7-1981.1	12987	.4	.4	97.7	1.5	1.1a	.9		None	
SBR75-20600	1981.3-1983.8	12988	.0	7.8	87.9	4.3	Trace	18.7		None	
SBR75-20601	1983.8-1985.6	12989	.0	7.0	88.9	4.1	No Oil	16.7		None	
SBR75-20602	1985.9-1987.7	12990	1.8	1.2	95.4	1.6	4.6a	2.9		None	
SBR75-20603	1987.7-1990.0	12991	1.1	.6	96.7	1.6	3.0a	1.4		None	
SBR75-20604	1990.0-1992.6	12992	.5	.6	97.8	1.1	1.4a	1.4		None	
SBR75-20605	1992.6-1995.3	12993	.0	8.2	75.8	16.0	No Oil	19.6		None	
SBR75-20606	1995.3-1996.8	12994	1.7	7.5	79.6	11.2	4.3a	18.0		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISHCER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton		of oil at	Tendency to	
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	60°/60° F	coke	Remarks
SBR75-20607	1997.0-1998.0	12995	9.0	1.7	84.2	5.1	23.7	4.1	0.912	None	
SBR75-20608	1998.0-1999.0	12996	5.0	.8	92.2	2.0	13.3	1.9	.893	None	
SBR75-20609	1999.0-2000.3	12997	7.4	.7	88.9	3.0	19.7	1.7	.901	None	
SBR75-20610	2000.3-2003.0	12998	2.5	.6	91.1	5.8	6.7	1.4	.910	None	
SBR75-20611	2003.0-2006.0	12999	2.1	.4	95.4	2.1	5.5	1.0	.910	None	
SBR75-20612	2006.0-2009.0	13000	1.7	.4	94.4	3.5	4.5a	1.0		None	
SBR75-20613	2009.0-2012.0	13001	1.8	1.3	92.1	4.8	4.7a	3.1		None	
SBR75-20614	2012.0-2013.3	13002	3.6	.3	93.7	2.4	9.6	.7	.908	None	
SBR75-20615	2013.3-2014.4	13003	5.6	.7	91.3	2.4	14.8	1.7	.902	None	
SBR75-20616	2014.4-2015.5	13004	6.0	.7	90.6	2.7	15.9	1.7	.902	None	
SBR75-20617	2015.5-2016.5	13005	3.8	.7	93.4	2.1	10.0	1.7	.911	None	
SBR75-20618	2016.5-2017.6	13006	10.3	.9	85.4	3.4	27.3	2.2	.903	Slight	
SBR75-20619	2017.6-2018.8	13007	6.7	.7	89.4	3.2	17.8	1.7	.903	None	
SBR75-20620	2018.8-2021.3	13008	1.6	.2	97.0	1.2	4.1a	.5		None	
SBR75-20621	2021.3-2023.8	13009	2.3	1.3	92.2	4.2	6.0	3.1	.907	None	
SBR75-20622	2023.8-2025.6	13010	1.3	6.0	75.2	17.5	3.4a	14.4		None	
SBR75-20623	2025.6-2027.5	13011	.0	13.5	72.8	13.7	Trace	32.4		None	
SBR75-20624	2027.5-2029.2	13013	3.5	4.5	84.1	7.9	9.5	10.8	.898	None	
SBR75-20625	2029.2-2031.0	13014	6.0	.9	90.7	2.4	16.1	2.2	.893	None	
SBR75-20626	2031.0-2033.0	13015	1.5	.4	96.4	1.7	3.8a	1.0		None	
SBR75-20627	2033.0-2034.9	13016	1.4	.8	96.2	1.6	3.6a	1.9		None	
SBR75-20628	2034.9-2036.0	13017	1.1	7.5	77.8	13.6	2.8a	18.0		None	
SBR75-20629	2036.0-2037.4	13019	.0	8.3	84.3	7.4	Trace	20.0		None	
SBR75-20630	2037.4-2038.5	13020	5.0	.8	92.7	1.5	13.4	1.9	.891	None	
SBR75-20631	2038.5-2040.5	13021	.2	.1	96.9	2.8	.5a	.2		None	
SBR75-20632	2040.6-2043.0	13022	.6	.9	94.8	3.7	1.7a	2.2		None	
SBR75-20633	2043.0-2044.0	13023	.5	9.0	79.5	11.0	1.4a	21.6		None	
SBR75-20634	2044.0-2045.2	13024	.0	17.6	71.6	10.8	No Oil	42.3		None	
SBR75-20635	2046.0-2049.0	13025	.0	11.8	81.5	6.7	No Oil	28.2		None	
SBR75-20636	2049.0-2050.0	13026	2.0	7.4	84.6	6.0	5.2a	17.7		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-20637	2050.0-2051.1	13027	6.3	0.6	88.9	4.2	17.0	1.5	0.891	None	
SBR75-20638	2051.1-2053.0	13028	1.5	.6	96.0	1.9	4.0a	1.4		None	
SBR75-20639	2053.3-2055.8	13029	.7	.5	94.7	4.1	1.9a	1.1		None	
SBR75-20640	2055.8-2058.8	13030	.0	11.0	72.3	16.7	Trace	26.3		None	
SBR75-20641	2058.8-2061.9	13114	.0	11.2	75.7	13.1	Trace	26.9		None	
SBR75-20642	2061.9-2063.6	13032	2.9	.9	94.3	1.9	7.8	2.2	.894	None	
SBR75-20643	2063.6-2064.6	13033	4.5	.6	90.9	4.0	12.0	1.4	.892	None	
SBR75-20644	2064.6-2065.6	13034	4.1	.5	93.0	2.4	11.0	1.2	.894	None	
SBR75-20645	2065.6-2069.0	13035	3.4	.6	93.1	2.9	9.1	1.4	.896	None	
SBR75-20646	2069.0-2072.6	13037	2.5	.7	94.5	2.3	6.7	1.7	.910	None	
SBR75-20647	2072.8-2074.5	13038	1.7	.9	95.8	1.6	4.4a	2.2		None	
SBR75-20648	2074.5-2076.1	13039	3.0	.9	93.9	2.2	8.0	2.2	.907	None	
SBR75-20649	2076.1-2078.0	13040	3.6	.8	93.5	2.1	9.5	1.9	.909	None	
SBR75-20650	2078.0-2079.2	13041	7.3	.8	88.9	3.0	13.3	1.9	.902	None	
SBR75-20651	2079.2-2080.2	13042	9.5	.8	85.2	4.5	25.5	1.9	.895	None	
SBR75-20652	2080.2-2081.2	13043	9.1	.9	87.8	2.2	24.4	2.2	.895	None	
SBR75-20653	2081.2-2082.2	13044	3.1	.5	95.0	1.4	8.5	1.2	.887	None	
SBR75-20654	2082.2-2084.6	13045	1.6	.3	96.3	1.8	4.2a	.6		None	
SBR75-20655	2084.6-2087.0	13046	1.3	1.0	93.3	4.4	3.5a	2.3		None	
SBR75-20656	2087.0-2088.1	13047	.0	11.2	73.1	15.7	Trace	26.7		None	
SBR75-20657	2088.3-2091.0	13048	.0	17.9	70.7	11.4	No Oil	42.8		None	
SBR75-20658	2091.0-2094.0	13049	1.3	15.0	74.8	8.9	3.5a	36.0		None	0.2 Missing
SBR75-20659	2094.0-2096.3	13050	.0	17.4	72.4	10.2	Trace	41.8		None	
SBR75-20660	2096.3-2097.3	13051	5.2	6.3	83.7	4.8	13.7	15.1	.908	None	
SBR75-20661	2097.3-2098.5	13052	.0	5.5	70.5	24.0	Trace	13.1		None	
SBR75-20662	2098.5-2099.4	13053	13.2	5.5	73.0	8.3	35.0	13.2	.901	None	
SBR75-20663	2099.4-2100.6	13054	.0	11.2	84.1	4.7	Trace	26.9		None	
SBR75-20664	2100.6-2102.8	13055	1.1	3.8	92.3	2.8	3.0a	9.1		None	
SBR75-20665	2102.8-2105.0	13056	.0	7.2	88.0	4.8	Trace	17.2		None	
SBR75-20666	2105.0-2108.1	13057	.0	15.5	76.0	8.5	Trace	37.1		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-20667	2108.3-2111.8	13058	0.0	17.2	73.1	9.7	No Oil	41.3		None	
SBR75-20668	2111.8-2114.7	13059	3.2	2.7	91.7	2.4	8.4	6.5	0.906	None	
SBR75-20669	2114.7-2115.9	13060	.0	1.5	97.9	.6	No Oil	3.7		None	
SBR75-20670	2115.9-2117.0	13061	8.9	3.5	84.0	3.6	23.5	8.4	.904	None	
SBR75-20671	2117.0-2119.0	13062	2.7	2.8	92.0	2.5	7.2	6.6	.906	None	
SBR75-20672	2119.0-2122.0	13063	.6	3.4	93.1	2.9	1.5a	8.1		None	
SBR75-20673	2122.3-2125.0	13064	.0	8.1	87.2	4.7	Trace	19.3		None	
SBR75-20674	2125.0-2127.9	13065	.1	4.4	92.3	3.2	.2a	10.5		None	
SBR75-20675	2128.1-2129.3	13066	.0	7.6	87.3	5.1	Trace	18.2		None	
SBR75-20676	2129.3-2133.0	13067	.0	16.8	74.2	9.0	No Oil	40.2		None	
SBR75-20677	2133.0-2135.0	13068	.0	12.4	80.6	7.0	No Oil	29.8		None	
SBR75-20678	2135.0-2136.8	13069	.0	1.1	72.2	26.7	No Oil	2.6		None	
SBR75-20679	2136.8-2139.0	13070	.0	3.8	70.6	25.6	No Oil	9.1		None	
SBR75-20680	2139.0-2141.2	13071	.0	16.6	74.2	9.2	Trace	39.9		None	
SBR75-20681	2141.2-2145.0	13072	.0	18.2	71.1	10.7	No Oil	43.7		None	0.1 missing
SBR75-20682	2145.0-2148.0	13079	.0	.6	71.7	27.7	No Oil	1.6		None	
SBR75-20683	2148.0-2150.0	13080	.0	18.9	70.9	10.2	No Oil	45.4		None	
SBR75-20684	2150.0-2152.8	13081	.0	17.5	71.3	11.2	No Oil	41.9		None	
SBR75-20685	2152.8-2153.9	13141	8.8	8.0	77.2	6.0	23.2	19.2	.909	None	
SBR75-20686	2153.9-2154.7	13142	8.1	8.0	76.7	7.2	21.3	19.2	.913	None	
SBR75-20687	2154.7-2155.8	13143	16.0	2.8	74.3	6.9	42.3	6.7	.908	None	
SBR75-20688	2155.8-2158.0	13144	6.6	2.6	87.2	3.6	17.4	6.2	.907	None	
SBR75-20689	2158.0-2161.9	13121	.7	1.6	96.4	1.3	1.9a	3.8		None	
SBR75-20690	2161.9-2164.1	13122	.0	14.5	81.8	3.7	Trace	34.7		None	
SBR75-20691	2164.2-2166.0	13123	.0	15.8	80.9	3.3	Trace	37.9		None	
SBR75-20692	2166.0-2169.0	13124	.0	18.4	71.5	10.1	No Oil	44.0		None	
SBR75-20693	2169.0-2171.6	13125	.0	16.4	70.5	13.1	Trace	39.3		None	
SBR75-20694	2171.6-2173.0	13126	.0	15.6	68.7	15.7	No Oil	37.5		None	
SBR75-20695	2173.0-2175.0	13127	.0	14.4	70.7	14.9	No Oil	34.6		None	
SBR75-20696	2175.0-2176.9	13128	.0	13.1	71.1	15.8	Trace	31.5		None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-20697	2176.9-2177.9	13129	2.0	6.0	81.3	10.7	5.3a	14.4		None	
SBR75-20698	2177.9-2179.0	13130	10.6	1.1	84.9	3.4	28.3	2.6	0.901	None	
SBR75-20699	2179.0-2180.0	13131	10.6	.9	85.4	3.1	28.2	2.2	.904	None	
SBR75-20700	2180.0-2181.3	13132	6.1	3.6	81.3	9.0	16.3	8.6	.900	None	
SBR75-20701	2181.3-2182.3	13133	10.5	.8	85.6	3.1	28.0	1.9	.903	None	
SBR75-20702	2182.3-2183.3	13134	11.1	.7	84.3	3.9	29.5	1.8	.904	None	
SBR75-20703	2183.3-2184.3	13135	6.9	5.0	74.0	14.1	18.5	12.0	.901	None	
SBR75-20704	2184.5-2185.5	13136	5.5	6.0	73.0	15.5	14.5	14.4	.906	None	
SBR75-20705	2185.5-2186.5	13137	9.9	.9	85.2	4.0	26.4	2.2	.902	None	
SBR75-20706	2186.5-2187.4	13138	3.7	7.0	74.1	15.2	9.8	16.8	.909	None	
SBR75-20707	2187.4-2188.4	13139	8.7	2.6	80.8	7.9	23.1	6.2	.904	None	
SBR75-20708	2188.4-2189.4	13450	12.0	.7	82.5	4.8	31.7	1.7	.910	None	
SBR75-20709	2189.4-2190.4	13145	10.4	.3	84.8	4.5	27.5	.7	.909	None	
SBR75-20710	2190.4-2191.4	13146	8.2	.4	85.0	6.4	21.6	1.0	.910	None	
SBR75-20711	2191.4-2192.4	13147	10.7	.5	81.8	7.0	28.3	1.2	.908	None	Bottom Wilkins Peak
SBR75-20712	2192.4-2193.4	13148	8.3	.6	88.5	2.6	22.3	1.4	.887	None	Top Tipton Shale
SBR75-20713	2193.4-2194.6	13149	6.2	.5	91.2	2.1	16.7	1.2	.894	None	
SBR75-20714	2194.6-2195.8	13150	7.7	.3	90.1	1.9	20.7	.7	.888	None	
SBR75-20715	2195.8-2197.0	13151	6.6	.4	91.7	1.3	17.8	1.1	.889	None	
SBR75-20716	2197.0-2198.0	13152	6.3	.5	91.1	2.1	17.2	1.2	.883	None	
SBR75-20717	2198.0-2199.0	13153	6.8	.5	90.8	1.9	18.4	1.3	.887	None	
SBR75-20718	2199.0-2200.0	13154	9.5	.7	86.8	3.0	25.4	1.7	.901	None	
SBR75-20719	2200.0-2201.0	13155	14.2	.8	80.0	5.0	37.5	1.9	.908	None	
SBR75-20720	2201.0-2202.0	13156	10.8	.8	85.1	3.3	28.4	1.8	.913	None	
SBR75-20721	2202.0-2203.0	13157	7.0	.6	87.9	4.5	18.3	1.4	.922	None	
SBR75-20722	2203.0-2204.2	13158	7.2	1.2	88.6	3.0	18.9	2.9	.921	None	
SBR75-20723	2204.2-2205.2	13159	16.4	.8	76.3	6.5	42.9	1.9	.918	None	
SBR75-20724	2205.2-2206.2	13160	18.6	1.1	75.7	4.6	48.6	2.6	.915	Slight	
SBR75-20725	2206.2-2207.2	13161	14.2	.8	80.3	4.7	37.2	1.9	.919	Slight	
SBR75-20726	2207.2-2208.2	13162	16.4	1.3	77.4	4.9	42.6	3.1	.925	Slight	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-20727	2208.2-2209.3	13379	22.2	1.2	70.0	6.6	58.8	2.9	0.906	Heavy	
SBR75-20728	2209.3-2210.5	13380	20.5	1.2	74.0	4.3	54.4	2.9	.902	Heavy	
SBR75-20729	2210.5-2211.6	13381	9.1	1.2	86.5	3.2	24.4	2.9	.899	None	
SBR75-20730	2211.6-2212.8	13382	5.6	1.9	89.7	2.8	14.8	4.6	.912	None	
SBR75-20731	2212.8-2213.8	13383	10.0	2.4	84.1	3.5	26.8	5.8	.898	None	
SBR75-20732	2213.8-2214.8	13384	7.7	2.2	87.3	2.8	20.5	5.3	.901	None	
SBR75-20733	2215.0-2216.2	13391	8.2	2.0	86.6	3.2	21.5	4.8	.912	None	
SBR75-20734	2216.2-2217.4	13392	10.9	2.4	82.5	4.2	28.3	5.8	.923	None	
SBR75-20735	2217.4-2218.0	13393	10.7	3.2	82.8	3.3	28.5	7.7	.902	None	
SBR75-20736	2218.0-2219.0	13394	10.9	2.3	82.4	4.4	28.6	5.5	.914	None	
SBR75-20737	2219.0-2220.0	13395	8.9	1.0	86.8	3.3	23.6	2.4	.903	None	
SBR75-20738	2220.0-2221.0	13396	8.6	.8	86.9	3.7	22.9	1.9	.905	None	
SBR75-20739	2221.0-2222.1	13397	10.0	.7	85.6	3.7	26.5	1.7	.907	None	
SBR75-20740	2222.1-2223.3	13398	11.6	.9	83.6	3.9	30.5	2.2	.909	None	
SBR75-20741	2223.3-2224.3	13399	5.6	1.6	89.7	3.1	14.8	3.8	.901	None	
SBR75-20742	2224.3-2225.4	13400	4.7	2.9	90.4	2.0	12.6	7.0	.901	None	
SBR75-20743	2225.4-2226.5	13401	4.0	1.6	92.1	2.3	10.7	3.8	.895	None	
SBR75-20744	2226.5-2228.0	13403	2.8	1.2	93.6	2.4	7.3a	2.9		None	
SBR75-20745	2228.0-2229.4	13404	3.6	.7	92.8	2.9	9.6	1.7	.907	None	
SBR75-20746	2229.4-2230.5	13405	7.6	1.6	88.3	2.5	19.7	3.8	.923	None	
SBR75-20747	2230.5-2231.6	13406	8.2	1.6	86.4	3.8	21.1	3.8	.932	None	
SBR75-20748	2231.6-2232.7	13407	8.3	1.7	87.1	2.9	21.7	4.1	.923	None	
SBR75-20749	2232.7-2233.7	13408	7.3	2.1	87.6	3.0	19.0	5.0	.920	None	
SBR75-20750	2233.7-2234.7	13409	4.5	1.9	91.4	2.2	12.0	4.6	.905	None	
SBR75-20751	2234.7-2235.7	13410	6.1	1.5	89.8	2.6	16.4	3.6	.897	None	
SBR75-20752	2235.7-2236.8	13411	5.8	2.0	89.8	2.4	15.3	4.8	.901	None	
SBR75-20753	2236.8-2237.8	13412	6.4	1.8	88.6	3.2	17.0	4.3	.895	None	
SBR75-20754	2237.8-2238.8	13413	3.9	1.4	92.7	2.0	10.4	3.4	.893	None	
SBR75-20755	2238.8-2240.1	13414	4.6	1.4	92.0	2.0	12.5	3.4	.890	None	
SBR75-20756	2240.1-2241.0	13474	4.3	2.4	91.4	1.9	11.7	5.8	.888	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-20757	2241.0-2242.0	13416	4.2	1.8	91.5	2.5	11.3	4.3	0.892	None	
SBR75-20758	2242.0-2243.7	13417	4.0	1.4	90.4	4.2	10.6	3.4	.892	None	
SBR75-20759	2243.7-2244.7	13418	4.7	1.9	91.6	1.8	12.7	4.6	.891	None	
SBR75-20760	2244.7-2245.8	13419	3.5	2.4	92.2	1.9	9.5	5.8	.900	None	
SBR75-20761	2245.8-2246.8	13420	6.4	1.7	89.5	2.4	17.1	4.1	.894	None	
SBR75-20762	2246.8-2247.8	13421	5.2	2.3	90.6	1.9	14.2	5.5	.885	None	
SBR75-20763	2247.8-2248.6	13422	.9	2.9	94.7	1.5	2.5a	7.0		None	
SBR75-20764	2248.6-2250.6	13423	.5	2.1	96.5	.9	1.3a	5.0		None	
SBR75-20765	2250.6-2251.9	13424	.5	2.8	95.4	1.3	1.4a	6.7		None	
SBR75-20766	2251.9-2253.2	13425	1.2	3.3	94.0	1.5	3.0a	7.9		None	
SBR75-20767	2253.2-2254.5	13426	1.9	3.1	93.2	1.8	5.1a	7.4		None	
SBR75-20768	2254.5-2255.5	13427	2.7	2.4	91.2	3.7	7.4	5.8	.883	None	
SBR75-20769	2255.5-2256.5	13428	6.2	1.5	89.6	2.7	16.5	3.6	.897	None	
SBR75-20770	2256.6-2257.9	13429	2.8	1.0	94.0	2.2	7.6	2.4	.894	None	
SBR75-20771	2257.9-2259.4	13430	2.4	1.4	94.7	1.5	6.3	3.4	.893	None	
SBR75-20772	2259.4-2260.4	13431	3.8	.9	92.8	2.5	9.9	2.2		None	
SBR75-20773	2260.4-2262.0	13432	3.1	1.6	92.9	2.4	8.3	3.8	.892	None	
SBR75-20774	2262.0-2263.3	13433	3.5	2.1	92.7	1.7	9.3	5.0	.906	None	
SBR75-20775	2263.3-2264.3	13434	2.0	1.2	95.0	1.8	5.4	2.9	.901	None	
SBR75-20776	2264.3-2265.4	13435	1.8	.7	95.5	2.0	4.8	1.7	.895	None	
SBR75-20777	2265.4-2266.6	13436	2.5	.9	94.0	2.6	6.7	2.2	.893	None	
SBR75-20778	2266.6-2267.8	13437	2.5	2.0	93.4	2.1	6.8	4.8	.890	None	
SBR75-20779	2267.8-2269.0	13438	2.3	1.5	94.5	1.7	6.2	3.6	.893	None	
SBR75-20780	2269.0-2270.0	13439	2.8	1.5	93.7	2.0	7.5	3.6	.893	None	
SBR75-20781	2270.0-2271.0	13440	4.5	1.7	91.9	1.9	12.1	4.1	.886	None	
SBR75-20782	2271.0-2272.0	13441	3.9	2.0	91.1	3.0	10.6	4.8	.885	None	
SBR75-20783	2272.0-2273.1	13442	3.9	2.1	91.0	3.0	10.4	5.0	.894	None	
SBR75-20784	2273.1-2274.4	13443	4.7	2.2	91.0	2.1	12.1	5.3	.925	None	
SBR75-20785	2274.4-2275.7	13444	4.6	1.3	90.9	3.2	12.0	3.1	.913	None	
SBR75-20786	2275.7-2277.2	13445	5.0	2.4	90.0	2.6	13.1	5.8	.919	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Comapny's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-20787	2277.2-2278.2	13446	9.6	1.9	87.8	0.7	25.2	4.6	0.912	None	
SBR75-20788	2278.2-2279.8	13447	1.0	.8	96.8	1.4	2.7a	1.9		None	
SBR75-20789	2279.8-2281.6	13448	1.0	.9	98.1	.0	2.7a	2.2		None	
SBR75-20790	2281.8-2282.9	13449	1.4	.9	98.1	.5	3.6a	2.2		None	
SBR75-20791	2282.9-2283.9	13451	3.0	1.6	94.4	1.0	7.8	3.8	.922	None	
SBR75-20792	2283.9-2284.9	13452	2.7	1.2	93.7	2.4	6.9	2.9	.917	None	
SBR75-20793	2284.9-2286.7	13453	3.1	1.9	93.7	1.3	8.1	4.5	.920	None	
SBR75-20794	2286.7-2288.1	13454	10.9	1.9	84.3	2.9	28.1	4.6	.928	None	
SBR75-20795	2288.1-2289.1	13455	8.3	1.3	88.6	1.8	21.8	3.1	.915	None	
SBR75-20796	2289.1-2290.1	13456	10.1	1.4	85.8	2.7	26.5	3.4	.914	None	
SBR75-20797	2290.1-2291.1	13457	10.4	1.1	85.4	3.1	27.3	2.6	.912	None	
SBR75-20798	2291.1-2291.7	13458	8.8	1.2	87.8	2.2	23.0	2.9	.920	None	
SBR75-20799	2291.7-2292.8	13459	12.0	1.8	83.6	2.6	30.9	4.3	.930	None	
SBR75-20800	2292.8-2293.9	13460	9.7	1.4	86.4	2.5	24.9	3.4	.930	None	
SBR75-20801	2293.9-2295.0	13461	7.9	1.1	88.6	2.4	21.2	2.6	.899	None	
SBR75-20802	2295.0-2296.0	13462	9.6	.9	86.8	2.7	25.7	2.2	.895	None	
SBR75-20803	2296.0-2297.0	13504	8.7	1.5	86.7	3.1	22.7	3.6	.897	None	
SBR75-20804	2297.0-2298.0	13464	11.5	1.9	83.5	3.1	30.0	4.6	.920	None	
SBR75-20805	2298.0-2299.0	13465	14.8	1.6	78.3	5.3	39.2	3.8	.905	None	
SBR75-20806	2299.0-2300.0	13466	11.3	1.7	84.7	2.3	29.4	4.1	.922	None	
SBR75-20807	2300.0-2301.0	13467	8.4	1.3	87.0	3.3	21.7	3.1	.928	None	
SBR75-20808	2301.0-2302.0	13468	7.4	1.5	88.2	2.9	19.3	3.6	.923	None	
SBR75-20809	2302.0-2303.0	13469	7.0	1.8	88.4	2.8	18.8	4.3	.894	None	
SBR75-20810	2303.0-2304.0	13470	7.6	2.3	87.5	2.6	20.2	5.5	.898	None	
SBR75-20811	2304.0-2305.0	13471	9.2	1.1	87.2	2.5	24.6	2.6	.897	None	
SBR75-20812	2305.5-2306.8	13472	6.9	1.1	89.3	2.7	18.6	2.6	.894	None	
SBR75-20813	2306.8-2308.0	13473	12.1	1.1	83.6	3.2	32.6	2.6	.889	None	
SBR75-20814	2308.0-2309.3	13475	12.9	1.4	80.8	4.9	34.8	3.4	.889	None	
SBR75-20815	2309.3-2310.3	13476	12.3	1.0	83.2	3.5	33.2	2.4	.891	None	
SBR75-20816	2310.3-2311.6	13477	10.1	1.3	84.0	4.6	26.7	3.1	.904	None	

See footnote at end of table.

Core samples received June 26, 1970; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED RETORT METHOD

Samples from Union Pacific Railroad Comapny's El Paso No. 44-3 Corehole (con.)

Kelly Bushing elevation 6,297 feet

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR75-20817	2311.6-2312.7	13478	7.0	1.8	88.3	2.9	18.8	4.3	0.900	None	
SBR75-20818	2312.7-2314.0	13479	4.4	2.1	90.2	3.3	11.8	5.0	.899	None	
SBR75-20819	2314.0-2315.2	13480	6.0	2.7	88.3	3.0	16.1	6.5	.900	None	
SBR75-20820	2315.2-2316.5	13481	8.0	2.5	86.9	2.6	21.4	6.0	.895	None	
SBR75-20821	2316.5-2317.5	13482	5.5	2.6	89.9	2.0	15.0	6.2	.886	None	
SBR75-20822	2317.5-2318.5	13483	5.5	1.8	90.3	2.4	14.7	4.3	.896	None	
SBR75-20823	2318.5-2319.5	13484	4.5	1.4	91.4	2.7	12.1	3.4	.890	None	
SBR75-20824	2319.5-2320.5	13485	10.7	1.8	84.9	2.6	28.9	4.3	.886	None	
SBR75-20825	2320.5-2321.6	13486	10.7	1.9	84.8	2.6	29.2	4.6	.882	None	
SBR75-20826	2321.6-2322.6	13487	6.9	3.0	87.9	2.2	18.4	7.2	.901	None	
SBR75-20827	2322.6-2324.1	13488	3.3	2.6	91.7	2.4	8.8	6.2	.896	None	
SBR75-20828	2324.1-2325.5	13489	3.3	1.2	93.4	2.1	8.8	2.9	.895	None	
SBR75-20829	2325.5-2326.5	13490	7.7	2.1	88.2	2.0	20.6	5.0	.898	None	
SBR75-20830	2326.5-2327.7	13491	5.2	2.4	89.2	3.2	14.2	5.8	.888	None	
SBR75-20831	2327.7-2328.7	13492	4.1	1.8	92.0	2.1	11.0	4.3	.891	None	
SBR75-20832	2328.8-2330.6	13493	2.5	1.3	94.5	1.7	6.8	3.1	.889	None	
SBR75-20833	2330.6-2331.7	13494	6.2	2.2	89.2	2.4	16.8	5.3	.885	None	
SBR75-20834	2331.7-2332.8	13495	.8	.4	97.7	1.1	2.1a	1.0		None	Bottom Green River Fm.
SBR75-20835	2332.8-2334.0	13496	.0	1.8	97.8	.4	No Oil	4.2		None	Top Wasatch Fm.
SBR75-20836	2334.0-2338.0	13497	.0	.8	98.6	.6	No Oil	2.0		None	
SBR75-20837	2338.0-2342.5	13498	.0	.3	98.6	1.1	No Oil	.7		None	
SBR75-20838	2342.5-2347.0	13499	.0	.8	99.1	.1	Trace	1.9		None	
SBR75-20839	2347.0-2351.0	13500	.0	1.1	97.0	1.9	Trace	2.8		None	
SBR75-20840	2351.0-2354.5	13501	.0	.9	98.5	.6	Trace	2.2		None	
SBR75-20841	2354.5-2357.0	13502	.0	1.2	98.7	.1	No Oil	2.9		None	
SBR75-20842	2357.0-2359.5	13503	.0	.5	98.8	.7	No Oil	1.3		None	

1/ "a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No Oil," "Trace."

Core samples received June 26, 1970; assays made on air-dried samples