

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well drilled in
NW 1/4 NW 1/4 of sec. 14, T. 10 S., R. 18 E., Uintah County, Utah

0 81 30
0' of 25 ✓
20± of 15

Surface elevation 5,138 feet

mahogany marker 3438'		Yield of product					Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss				Tendency to coke		
Laramie	Their		Oil	Water			Oil	Water				
SBR61-7114-34	330-540						No Oil					
SBR61-7135-37	540-570						b					
SBR61-7138	570-580						Trace					
SBR61-7139-40	580-600						c					
SBR61-7141-42	600-620						b					
SBR61-7143	620-630	74626	2.3	1.9	95.0	0.8	6.1	4.6	0.907	None		
SBR61-7144	630-640	74627	.3	1.1	98.1	.5	.9a	2.6		None		
SBR61-7145-46	640-660						b					
SBR61-7147	660-670						c					
SBR61-7148	670-680						b					
SBR61-7149	680-690						c					
SBR61-7150-51	690-710						b					
SBR61-7152	710-720						c					
SBR61-7153	720-730						b					
SBR61-7154	730-740	74628	.8	1.8	96.9	.5	2.2a	4.3		None		
SBR61-7155	740-750	74629	.9	1.8	96.9	.4	2.4a	4.3		None		
SBR61-7156	750-760	74630	1.0	2.0	96.8	.2	2.5a	4.8		None		
SBR61-7157	760-770	74631	1.3	1.7	96.3	.7	3.3a	4.1		None		
SBR61-7158	770-780	74632	.4	1.7	97.6	.3	1.0a	4.1		None		
SBR61-7159	780-790	74633	1.2	1.9	96.5	.4	3.0a	4.6		None		
SBR61-7160	790-800	74634	.8	1.7	97.1	.4	2.1a	4.1		None		
SBR61-7161	800-810	74635	1.0	2.3	96.0	.7	2.5a	5.5		None		
SBR61-7162	810-820	74636	.8	2.4	96.6	.2	2.2a	5.8		None		
SBR61-7163	820-830	74637	1.3	2.2	95.7	.8	3.3a	5.3		None		
SBR61-7164	830-840	74638	1.1	1.8	96.4	.7	2.8a	4.3		None		
SBR61-7165	840-850	74639	1.9	2.1	95.7	.3	5.0a	5.0		None		
SBR61-7166	850-860	74640	.9	1.7	97.1	.3	2.3a	4.1		None		
SBR61-7167	860-870	74641	1.6	2.1	95.9	.4	4.3a	5.0		None		
SBR61-7168	870-880	74642	1.3	1.6	96.7	.4	3.3a	3.8		None		
SBR61-7169	880-890	74643	1.4	2.2	95.8	.6	3.6a	5.3		None		

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Sample number			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss	Gal. per ton			Tendency to coke		
			Oil	Water			Oil	Water				
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil	Water				
SR61-7170	890-900	74644	1.6	2.0	95.8	0.6	4.2a	4.8			None	
SR61-7171	900-910	74645	1.6	1.9	95.7	.8	4.1a	4.6			None	
SR61-7172	910-920	74646	1.9	2.0	95.3	.8	5.0a	4.8			None	
SR61-7173	920-930	74647	1.8	2.2	95.0	1.0	4.8a	5.3			None	
SR61-7174	930-940	74648	2.5	1.8	94.9	.8	6.6	4.3	0.908		None	
SR61-7175	940-950	74649	3.4	1.9	93.8	.9	8.9	4.6	.909		None	
SR61-7176	950-960	74650	2.8	2.1	94.3	.8	7.5	5.0	.909		None	
SR61-7177	960-970	74651	2.2	2.4	94.8	.6	6.0	5.8	.905		None	
SR61-7178	970-980	74652	1.7	2.9	94.8	.6	4.3a	7.0			None	
SR61-7179	980-990	74653	1.8	2.6	94.9	.7	4.7a	6.2			None	
SR61-7180	990-1000	74654	1.1	2.0	96.6	.3	2.9a	4.8			None	
SR61-7181	1000-1010	74655	1.2	2.7	95.7	.4	3.1a	6.4			None	
SR61-7182	1010-1020	74656	1.2	2.6	95.8	.4	3.2a	6.2			None	
SR61-7183	1020-1030	74657	1.2	2.4	96.0	.4	3.3a	5.8			None	
SR61-7184	1030-1040	74658	1.0	2.4	96.1	.5	2.7a	5.8			None	
SR61-7185	1040-1050	74659	.8	1.9	96.9	.4	2.2a	4.6			None	
SR61-7186	1050-1060	74660	1.9	3.0	94.6	.5	5.0a	7.2			None	
SR61-7187	1060-1070	74661	1.4	2.5	95.5	.6	3.7a	6.0			None	
SR61-7188	1070-1080	74662	1.1	1.8	96.7	.4	2.9a	4.2			None	
SR61-7189	1080-1090	74663	2.5	1.8	94.8	.9	6.8	4.3	.891		None	
SR61-7190	1090-1100	74664	1.5	1.5	96.4	.6	4.0a	3.6			None	
SR61-7191	1100-1110	74665	2.0	1.5	96.0	.5	5.2a	3.6			None	
SR61-7192	1110-1120	74666	2.0	2.1	95.1	.8	5.2a	5.0			None	
SR61-7193	1120-1130	74667	2.0	2.3	95.0	.7	5.3a	5.4			None	
SR61-7194	1130-1140	74668	1.9	1.2	96.6	.3	4.9a	3.0			None	
SR61-7195	1140-1150	74669	2.1	2.0	95.2	.7	5.6	4.7	.910		None	
SR61-7196	1150-1160	74670	1.5	1.8	96.1	.6	3.8a	4.4			None	
SR61-7197	1160-1170	74671	2.0	1.9	95.2	.9	5.1a	4.6			None	
SR61-7198	1170-1180	74672	1.9	2.0	95.3	.8	4.9a	4.8			None	
SR61-7199	1180-1190	74673	1.6	1.8	95.8	.8	4.0a	4.3			None	

a - Specific gravity estimated due to insufficient oil.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con)

Surface elevation 5,138 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale Tendency to coke		Remarks
			Weight percent		Spent shale	Gas + loss					
Laramie	Their		Oil	Water					Oil	Water	
SBR61-7200	1190-1200	74674	1.6	1.8	95.7	0.9	4.2a	4.3		None	
SBR61-7201	1200-1210	74675	1.6	1.6	96.4	.4	4.0a	3.8		None	
SBR61-7202	1210-1220	74676	1.4	1.4	96.9	.3	3.5a	3.4		None	
SBR61-7203	1220-1230	74677	1.1	1.5	97.1	.3	2.8a	3.6		None	
SBR61-7204	1230-1240	74678	1.5	1.7	96.5	.3	3.9a	4.1		None	
SBR61-7205	1240-1250	74679	1.9	1.8	95.7	.6	4.8a	4.4		None	
SBR61-7206	1250-1260	74680	2.0	1.6	95.7	.7	5.2a	3.8		None	
SBR61-7207	1260-1270	74681	1.4	1.2	96.8	.6	3.6a	3.0		None	
SBR61-7208	1270-1280	74682	2.0	1.4	95.8	.8	5.2a	3.5		None	
SBR61-7209	1280-1290	74683	1.7	1.6	96.0	.7	4.5a	3.8		None	
SBR61-7210	1290-1300	74684	1.5	1.5	96.5	.5	4.0a	3.5		None	
SBR61-7211	1300-1310	74685	1.9	1.4	96.1	.6	4.9a	3.3		None	
SBR61-7212	1310-1320	74686	2.1	1.4	95.9	.6	5.5	3.5	0.914	None	
SBR61-7213	1320-1330	74687	2.0	1.4	95.9	.7	5.1a	3.5		None	
SBR61-7214	1330-1340	74688	3.2	1.4	94.8	.6	8.3	3.4	.918	None	
SBR61-7215	1340-1350	74689	4.2	1.0	93.2	1.6	10.8a	2.4		None	
SBR61-7216	1350-1360	74690	2.1	1.9	95.5	.5	5.5	4.4	.921	None	
SBR61-7217	1360-1370	74691	2.1	1.7	95.5	.7	5.5	4.1	.914	None	
SBR61-7218	1370-1380	74692	1.4	1.3	96.9	.4	3.6a	3.1		None	
SBR61-7219	1380-1390	74693	.9	1.1	97.7	.3	2.3a	2.6		None	
SBR61-7220	1390-1400						Trace				
SBR61-7221	1400-1410						b				
SBR61-7222-23	1410-1430						Trace				
SBR61-7224-27	1430-1470						b				
SBR61-7228	1470-1480						Trace				
SBR61-7229	1480-1490						b				
SBR61-7230	1490-1500	74694	1.8	1.9	95.4	.9	4.7a	4.6		None	
SBR61-7231	1500-1510	74695	2.2	1.5	95.2	1.1	5.7	3.6	.915	None	
SBR61-7232	1510-1520	74696	2.5	1.2	95.5	.8	6.6	2.9	.919	None	
SBR61-7233	1520-1530	74697	2.4	1.1	95.4	1.1	6.1	2.6	.925	None	

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Surface elevation 5,158 feet			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton			Tendency to coke		
			Oil	Water			Oil	Water				
Laramie	Thair		Oil	Water	shale	loss	Oil	Water				
SBR61-7234	1530-1540	74698	2.7	1.0	95.2	1.1	7.1	2.3	0.924	None		
SBR61-7235	1540-1550	74699	2.4	.8	96.1	.7	6.3	1.9	.919	None		
SBR61-7236	1550-1560	74700	2.1	.7	96.5	.7	5.4	1.8	.915	None		
SBR61-7237	1560-1570	74701	3.0	.7	95.3	1.0	7.8	1.7	.924	None		
SBR61-7238	1570-1580	74702	3.1	.6	95.3	1.0	8.1	1.4	.924	None		
SBR61-7239	1580-1590	74703	3.2	.8	95.1	.9	8.4	1.8	.915	None		
SBR61-7240	1590-1600	74704	3.1	.8	95.4	.7	8.2	1.9	.915	None		
SBR61-7241	1600-1610	74705	2.8	.9	95.4	.9	7.4	2.2	.915	None		
SBR61-7242	1610-1620	74706	2.4	1.1	95.8	.7	6.3	2.6	.916	None		
SBR61-7243	1620-1630	74707	2.9	.9	95.4	.8	7.5	2.2	.917	None		
SBR61-7244	1630-1640	74708	3.0	1.0	95.4	.6	7.8	2.4	.917	None		
SBR61-7245	1640-1650	74709	3.3	.8	95.2	.7	8.7	1.9	.917	None		
SBR61-7246	1650-1660	74710	3.6	.9	94.7	.8	9.5	2.2	.917	None		
SBR61-7247	1660-1670	74711	3.0	1.2	94.8	1.0	7.8	2.9	.916	None		
SBR61-7248	1670-1680	74712	3.9	1.4	93.5	1.2	10.3	3.4	.916	None		
SBR61-7249	1680-1690	74713	4.5	1.3	93.9	.3	11.9	3.1	.915	None		
SBR61-7250	1690-1700	74714	5.1	1.8	92.9	.2	13.4	4.3	.916	None		
SBR61-7251	1700-1710	74715	5.6	1.5	91.2	1.7	14.6	3.6	.916	None		
SBR61-7252	1710-1720	74716	4.5	1.2	93.1	1.2	11.8	2.9	.915	None		
SBR61-7253	1720-1730	74717	4.1	1.4	93.4	1.1	10.8	3.4	.909	None		
SBR61-7254	1730-1740	74718	4.0	1.4	93.4	1.2	10.4	3.4	.914	None		
SBR61-7255	1740-1750	74719	3.5	1.9	93.6	1.0	9.3	4.6	.914	None		
SBR61-7256	1750-1760	74720	3.3	2.0	93.5	1.2	8.6	4.8	.918	None		
SBR61-7257	1760-1770	74721	2.9	2.0	94.1	1.0	7.7	4.8	.912	None		
SBR61-7258	1770-1780	74722	2.4	2.4	94.6	.6	6.3a	5.7		None		
SBR61-7259	1780-1790	74723	2.8	2.1	94.4	.7	7.2	5.0	.913	None		
SBR61-7260	1790-1800	74724	3.4	1.7	94.4	.5	8.9	4.1	.917	None		
SBR61-7261	1800-1810	74725	3.7	1.5	94.0	.8	9.6	3.6	.920	None		
SBR61-7262	1810-1820	74726	3.7	1.5	94.3	.5	9.6	3.6	.918	None		
SBR61-7263	1820-1830	74727	4.0	1.1	94.1	.8	10.5	2.6	.918	None		

a - Specific gravity estimated due to insufficient oil.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to coke		
Laramie	Their		Oil	Water					Oil	Water		
SBR61-7264	1830-1840	74728	3.4	1.1	94.9	0.6	8.9	2.6	0.917	None		
SBR61-7265	1840-1850	74729	4.8	.9	93.5	.8	12.6	2.0	.916	None		
SBR61-7266	1820-1930	74730	3.4	1.3	94.7	.6	8.8	3.1	.909	None		
SBR61-7267	1940-1950	74731	3.8	1.2	94.1	.9	10.0	2.9	.909	None		
SBR61-7268	1950-1960	74732	2.2	1.3	95.9	.6	5.8	3.1	.909	None		
SBR61-7269	1960-1970	74733	2.1	1.4	95.7	.8	5.5	3.4	.905	None		
SBR61-7270	1970-1980	74734	1.2	1.7	96.8	.3	3.2a	4.1		None		
SBR61-7271	1980-1990	74735	1.2	1.6	96.7	.5	3.2a	3.8		None		
SBR61-7272	1990-2000	74736	1.2	1.2	97.1	.5	3.1a	2.9		None		
SBR61-7273	2000-2010	74737	.9	1.0	97.5	.6	2.3a	2.5		None		
SBR61-7274	2010-2020	74738	.9	1.0	97.5	.6	2.2a	2.4		None		
SBR61-7275-78	2020-2060						c					
SBR61-7279-82	2060-2100						b					
SBR61-7283	2130-2140						b					
SBR61-7284-86	2140-2170						c					
SBR61-7287	2170-2180	74739	1.2	1.2	97.1	.5	3.0a	3.0		None		
SBR61-7288	2180-2190	74740	1.0	1.3	97.1	.6	2.5a	3.1		None		
SBR61-7289	2190-2200						No Oil					
SBR61-7290	2200-2210						b					
SBR61-7291	2210-2220	74741	.9	1.3	96.9	.9	2.3a	3.2		None		
SBR61-7292	2220-2230	74742	1.0	1.2	96.7	1.1	2.6a	2.9		None		
SBR61-7293	2230-2240	74743	.8	1.6	96.9	.7	2.1a	3.9		None		
SBR61-7294	2240-2250	74744	1.2	1.9	96.0	.9	3.0a	4.6		None		
SBR61-7295	2250-2260	74745	1.6	2.1	95.3	1.0	4.1a	5.0		None		
SBR61-7296	2260-2270	74746	1.6	2.1	95.3	1.0	4.3a	5.0		None		
SBR61-7297	2270-2280	74747	1.4	1.7	96.3	.6	3.7a	4.1		None		
SBR61-7298-7303	2280-2340						c					
SBR61-7304-09	2340-2400						b					
SBR61-7310	2400-2410						No Oil					
SBR61-7311-13	2410-2440						b					

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent shale	Gas + loss					
			Laramie	Their			Oil	Water			
SBR61-7314	2440-2450	74748	0.7	1.3	97.7	0.3	1.8a	3.1		None	
SBR61-7315	2450-2460	74749	.4	1.5	97.8	.3	1.0a	3.6		None	
SBR61-7316	2460-2470	74750	.5	1.4	97.7	.4	1.2a	3.4		None	
SBR61-7317	2470-2480	74751	.3	1.6	97.8	.3	.7a	3.8		None	
SBR61-7318	2480-2490	74752	.4	1.3	98.0	.3	1.1a	3.1		None	
SBR61-7319	2490-2500	74753	.3	1.2	98.0	.5	.7a	2.9		None	
SBR61-7320	2500-2510	74754	.3	1.2	98.1	.4	.8a	2.9		None	
SBR61-7321	2510-2520	74755	.5	1.6	97.6	.3	1.3a	3.8		None	
SBR61-7322	2520-2530	74756	.3	1.8	97.5	.4	.7a	4.3		None	
SBR61-7323	2530-2540	74757	.3	2.2	96.7	.8	.7a	5.3		None	
SBR61-7324	2540-2550	74758	.5	1.8	97.1	.6	1.3a	4.3		None	
SBR61-7325	2550-2560	74759	.7	1.5	97.2	.6	1.9a	3.6		None	
SBR61-7326	2560-2570	74760	.9	1.3	97.5	.3	2.3a	3.1		None	
SBR61-7327	2570-2580	74761	.6	1.6	97.3	.5	1.6a	3.8		None	
SBR61-7328	2580-2590	74762	.9	1.4	97.4	.3	2.3a	3.4		None	
SBR61-7329	2590-2600	74763	.4	1.3	97.7	.6	1.0a	3.1		None	
SBR61-7330	2600-2610	74764	.2	1.8	97.4	.6	.5a	4.3		None	
SBR61-7331	2610-2620	74765	.5	3.1	95.1	1.3	1.4a	7.4		None	
SBR61-7332	2620-2630	74766	1.9	1.6	95.8	.7	5.0a	3.8		None	
SBR61-7333	2630-2640	74767	2.6	2.1	94.5	.8	6.9	5.0	0.917	None	
SBR61-7334	2640-2650	74768	3.4	2.5	93.0	1.1	8.7	6.0	.927	None	
SBR61-7335	2650-2660	74769	2.3	1.9	94.7	1.1	5.9a	4.6		None	
SBR61-7336	2660-2670	76770	1.2	2.6	95.1	1.1	3.0a	6.2		None	
SBR61-7337	2670-2680	74771	.6	3.6	94.6	1.2	1.5a	8.6		None	
SBR61-7338	2680-2690	74772	.3	2.7	96.1	.9	.8a	6.5		None	
SBR61-7339	2690-2700	74773	.4	2.9	95.7	1.0	1.0a	7.0		None	
SBR61-7340	2700-2710	74774	.5	2.5	96.2	.8	1.4a	6.0		None	
SBR61-7341	2710-2720	74775	.8	1.1	97.7	.4	2.0a	2.6		None	
SBR61-7342	2720-2730	74776	.8	1.9	96.2	1.1	2.2a	4.6		None	
SBR61-7343	2730-2740	74777	.6	2.1	96.5	.8	1.4a	5.0		None	

a - Specific gravity estimated due to insufficient oil.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss			Gal. per ton		
Laramie	Their		Oil	Water					Oil	Water	
SBR61-7344	2740-2750	74778	0.1	2.4	97.0	0.5	0.1a	5.8		None	
SBR61-7345	2750-2760	74779	.2	2.6	96.5	.7	.4a	6.2		None	
SBR61-7346	2760-2770	74780	.1	2.6	96.6	.7	.2a	6.1		None	
SBR61-7347	2770-2780	74781	.1	2.4	96.7	.8	.2a	5.8		None	
SBR61-7348	2780-2790	74782	.1	1.9	97.2	.8	.2a	4.6		None	
SBR61-7349	2790-2800	74783	.2	1.6	97.6	.6	.4a	3.8		None	
SBR61-7350	2800-2810	74784	.1	1.1	98.7	.1	.3a	2.6		None	
SBR61-7351	2810-2820	74785	.1	.7	98.8	.4	.3a	1.7		None	
SBR61-7352	2820-2830	74786	.4	1.6	97.8	.2	.9a	3.8		None	
SBR61-7353	2830-2840	74787	.3	1.2	98.3	.2	.7a	2.9		None	
SBR61-7354	2840-2850	74788	.5	1.8	97.2	.5	1.4a	4.3		None	
SBR61-7355	2850-2860						b				
SBR61-7356-57	2860-2880						No Oil				
SBR61-7358	2880-2890						b				
SBR61-7359	2890-2900						Trace				
SBR61-7360-66	2900-2970						No Oil				
SBR61-7367-68	2970-2990						b				
SBR61-7369	2990-3000						No Oil				
SBR61-7370	3000-3010						b				
SBR61-7371-72	3010-3030						No Oil				
SBR61-7373-79	3030-3100						b				
SBR61-7380-81	3100-3120						No Oil				
SBR61-7382-84	3120-3150						b				
SBR61-7385-87	3150-3180						No Oil				
SBR61-7388	3180-3190						Trace				
SBR61-7389	3190-3200						No Oil				
SBR61-7390-92	3200-3230						b				
SBR61-7393	3230-3240						c				
SBR61-7394	3240-3250						Trace				
SBR61-7395-96	3250-3270						b				

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent shale	Gas + loss					
			Oil	Water			Oil	Water			
Laramie	Thair										
SBR61-7397	3270-3280						Trace				
SBR61-7398	3280-3290						No Oil				
SBR61-7399-7400	3290-3310						b				
SBR61-7401-02	3310-3330						No Oil				
SBR61-7403-06	3330-3370						Trace				
SBR61-7407-11	3370-3420						No Oil				
SBR61-7412-14	3420-3450						Trace				
SBR61-7415	3450-3460						b				
SBR61-7416	3460-3470						Trace				
SBR61-7417-18	3470-3490						No Oil				
SBR61-7419	3490-3500						Trace				
SBR61-7420-21	3500-3520						b				
SBR61-7422-23	3520-3540						No Oil				
SBR61-7424-26	3540-3570						Trace				
SBR61-7427-38	3570-3690						No Oil				
SBR61-7439-41	3690-3720						b				
SBR61-7442	3720-3730						c				
SBR61-7443	3730-3740	74789	0.7	1.7	97.2	0.4	1.8a	4.1		None	
SBR61-7444	3740-3750	74790	.9	1.7	96.9	.5	2.3a	4.1		None	
SBR61-7445	3750-3760	74791	.6	2.2	96.8	.4	1.4a	5.3		None	
SBR61-7446-52	3760-3830						b				
SBR61-7453	3830-3840						Trace				
SBR61-7454	3840-3850						c				
SBR61-7455	3850-3860						b				
SBR61-7456	3860-3870	74792	.6	1.7	97.4	.3	1.5a	4.1		None	
SBR61-7457	3870-3880	74793	.4	2.1	97.0	.5	1.1a	5.0		None	
SBR61-7458	3880-3890	74794	.7	1.1	97.5	.7	1.9a	2.6		None	
SBR61-7459	3890-3900	74795	.7	.7	98.1	.5	1.9a	1.6		None	
SBR61-7460-62	3900-3930						b				
SBR61-7463-70	3930-4010						Trace				

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent shale	Gas + loss					
			Oil	Water			Oil	Water			
Laramie	Thair										
SBR61-7471-72	4020-4040						b				
SBR61-7473	4040-4050						c				
SBR61-7474	4050-4060						b				
SBR61-7475	4070-4080	74796	2.7	1.8	94.4	1.1	7.1a	4.4	None		
SBR61-7476	4080-4090	74797	3.5	2.1	93.3	1.1	9.0a	5.0	None		
SBR61-7477	4090-4100	74798	2.0	2.3	94.8	.9	5.1a	5.5	None		
SBR61-7478	4100-4110	74799	1.2	2.0	95.9	.9	3.2a	4.8	None		
SBR61-7479	4110-4120	74800	.8	2.0	96.5	.7	2.0a	4.8	None		
SBR61-7480	4120-4130						c				
SBR61-7481	4130-4140						b				
SBR61-7482	4140-4150	74801	.9	2.1	96.6	.4	2.2a	5.0	None		
SBR61-7483	4150-4160	74802	1.3	2.0	95.8	.9	3.3a	4.8	None		
SBR61-7484	4160-4170	74803	1.0	1.6	96.6	.8	2.6a	3.8	None		
SBR61-7485-89	4170-4220						c				
SBR61-7490	4220-4230	74804	1.2	1.7	96.6	.5	3.0a	4.1	None		
SBR61-7491	4230-4240	74805	2.0	1.9	95.3	.8	5.2a	4.6	None		
SBR61-7492	4240-4250	74806	1.4	1.7	96.3	.6	3.5a	4.1	None		
SBR61-7493-96	4250-4290						c				
SBR61-7497	4290-4300						b				
SBR61-7498-7501	4300-4340						c				
SBR61-7502-06	4340-4390						b				
SBR61-7507	4390-4400	74807	.2	1.6	97.5	.7	.6a	3.8	None		
SBR61-7508-11	4400-4440						b				
SBR61-7512	4440-4450						Trace				
SBR61-7513	4450-4460						No Oil				
SBR61-7514-15	4460-4480						Trace				
SBR61-7516-22	4480-4550						b				
SBR61-7523	4550-4560						No Oil				
SBR61-7524-25	4560-4580						c				
SBR61-7526	4580-4590						b				

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Drill cutting samples received April 17, 1961; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Island Unit No. 2 well (Con.)

Surface elevation 5,138 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale	Remarks
			Weight percent		Gal. per ton				Tendency to coke	
Laramie	Thier		Oil	Water	Spent shale	Gas + loss	Oil	Water		
SBR61-7527	4590-4600						c			
SBR61-7528	4600-4610						Trace			
SBR61-7529	4610-4620						b			
SBR61-7530	4620-4630	74808	0.1	2.5	96.8	0.6	.2a	6.0	None	
SBR61-7531	4630-4640	74809	.0	2.2	97.0	.8	No Oil	5.3	None	
SBR61-7532	4640-4650	74810	.0	2.6	97.0	.4	No Oil	6.2	None	
SBR61-7533	4650-4660						Trace			
SBR61-7534-35	4660-4680						b			
SBR61-7536	4680-4690						Trace			
SBR61-7537-38	4690-4710						b			
SBR61-7539	4710-4720						Trace			
SBR61-7540-43	4720-4760						b			
SBR61-7544-67	4760-5000						No Oil			

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Drill cutting samples received April) 1961; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3503P, Sheet No. 10 of 10 sheets

August 30, 1961