

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Gremo Hill Federal No. 1 well drilled in NE1/4SE1/4
(1955 feet N/S 814 feet W/E) of sec 16, T 10 S, R 8 E, Wasatch County, Utah

Surface elevation 7,622 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	Thier		Oil	Water					Oil ^{1/}		Water	
SBR70-3757	520-530						b					
SBR70-3758	530-540						c					
SBR70-3759-65	540-610						b					
SBR70-3766	610-620	50305	2.2	1.5	95.1	1.2	5.8	3.6	0.920		None	
SBR70-3767	620-630	50306	2.7	2.0	93.8	1.5	7.1	4.8	.916		None	
SBR70-3768	630-640	50307	2.0	2.5	94.2	1.3	5.3	6.0	.902		None	
SBR70-3769	640-650	50308	.6	2.2	96.3	.9	1.5a	5.3			None	
SBR70-3770	650-660	50309	.9	2.4	95.5	1.2	2.3a	5.8			None	
SBR70-3771	660-670						b					
SBR70-3772-73	670-690						Trace					
SBR70-3774	690-700	50310	.7	1.5	97.0	.8	1.8a	3.6			None	
SBR70-3775	700-710	50311	.6	1.7	96.2	1.5	1.6a	4.1			None	
SBR70-3776	710-720	50312	.6	1.4	96.8	1.2	1.5a	3.4			None	
SBR70-3777	720-730	50313	.7	1.1	96.6	1.6	1.8a	2.6			None	
SBR70-3778	730-740	50314	.5	1.6	96.7	1.2	1.2a	3.8			None	
SBR70-3779	740-750	50315	1.0	1.6	96.7	.7	2.7a	3.8			None	
SBR70-3780	750-760	50316	.6	1.4	97.1	.9	1.6a	3.4			None	
SBR70-3781	760-770	50317	.7	1.7	96.4	1.2	1.7a	4.1			None	
SBR70-3782	770-780	50318	.5	1.5	97.0	1.0	1.4a	3.6			None	
SBR70-3783	780-790						b					
SBR70-3784	790-800						Trace					
SBR70-3785	800-810						No Oil					
SBR70-3786-87	810-830						b					
SBR70-3788	830-840	50319	1.0	1.0	96.5	1.5	2.6a	2.4			None	
SBR70-3789	840-850	50320	3.5	1.1	93.9	1.5	9.2a	2.6			None	
SBR70-3790	850-860	50321	2.1	1.6	94.4	1.9	5.7	3.8	.891		None	
SBR70-3791	860-870	50322	2.4	2.1	94.0	1.5	6.4	5.0	.881		None	
SBR70-3792	870-880	50323	2.5	2.0	94.0	1.5	6.7	4.8	.883		None	
SBR70-3793	880-890	50324	2.7	.7	94.5	2.1	7.2	1.8	.892		None	
SBR70-3794	890-900	50325	3.5	1.3	93.3	1.9	9.3	3.1	.897		None	

See footnote at end of table.

Drill cutting samples received January 12, 1970; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Grems Hill Federal No. 1 well (con.)

Surface elevation 7,622 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		
SBR70-3795	900- 910	50326	4.2	1.6	92.9	1.3	11.0a	3.8			None	
SBR70-3796	910- 920	50327	2.3	1.5	95.3	.9	5.0a	3.6			None	
SBR70-3797	920- 930	50328	3.3	1.0	94.1	1.6	8.6a	2.3			None	
SBR70-3798	930- 940	50329	2.7	.8	95.2	1.3	6.9a	1.9			None	
SBR70-3799	940- 950	50330	4.4	1.2	92.9	1.5	11.5a	2.9			None	
SBR70-3800	950- 960	50331	1.3	1.0	96.0	1.7	3.4a	2.4			None	
SBR70-3801	960- 970	50332	2.1	1.3	95.6	1.0	5.5a	3.1			None	
SBR70-3802	970- 980	50333	2.0	1.3	95.8	.9	5.2a	3.1			None	
SBR70-3803	980- 990	50334	1.5	1.5	95.5	1.5	3.9a	3.6			None	
SBR70-3804	990-1000	50335	1.8	1.4	96.0	.8	4.7a	3.4			None	
SBR70-3805	1000-1010	50336	2.0	1.3	94.1	2.6	5.1a	3.2			None	
SBR70-3806	1010-1020	50337	2.7	1.0	94.6	1.7	7.1a	2.4			None	
SBR70-3807	1020-1030	50338	3.3	1.8	93.5	1.4	8.9	4.3	0.889		None	
SBR70-3808	1040-1050	50339	2.2	1.5	95.0	1.3	5.8a	3.6			None	
SBR70-3809	1050-1060	50340	2.0	1.2	95.2	1.6	5.6	2.8	.884		None	
SBR70-3810	1060-1070	50341	2.2	.9	96.1	.8	5.8	2.2	.886		None	
SBR70-3811	1070-1080	50342	2.4	1.3	95.5	.8	6.5	3.1	.882		None	
SBR70-3812	1080-1090	50343	3.6	1.2	94.1	1.1	9.5	2.9	.896		None	
SBR70-3813	1090-1100	50344	1.8	.8	96.7	.7	4.6a	2.0			None	
SBR70-3814	1100-1110	50345	1.1	1.3	96.9	.7	2.9a	3.1			None	
SBR70-3815	1110-1120	50346	1.3	1.3	96.6	.8	3.5a	3.1			None	
SBR70-3816	1120-1130	50347	.7	1.5	96.9	.9	1.8a	3.6			None	
SBR70-3817-19	1130-1160						b					
SBR70-3820-22	1160-1190						Trace					
SBR70-3823	1190-1200						No Oil					
SBR70-3824	1200-1210						c					
SBR70-3825	1210-1220						b					
SBR70-3826-53	1220-1500						No Oil					
SBR70-3854-71	1510-1690						No Oil					
SBR70-3872	1700-1710						No Oil					

See footnote at end of table.

Drill cutting samples received January 12, 1970; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Grano Hill Federal No. 1 well (con.)

Surface elevation 7,622 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	Gal per ton				
			Oil	Water			Oil ^{1/}				Water
Laramie	Their										
SBR70-3873-84	1720-1840						No Oil				
SBR70-3885-88	1840-1880						b				
SBR70-3889-90	1880-1900						No Oil				
SBR70-3891	1900-1910						Trace				
SBR70-3892-3926	1910-2260						No Oil				
SBR70-3927-47	2270-2480						No Oil				
SBR70-3948	2490-2500						No Oil				

^{1/} "a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil", "Trace", "b"--less than 1 gal oil/ton, "c"--1 to 3 gal oil/ton.

Drill cutting samples received January 12, 1970; Assays made on air-dried samples