

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Canyon Creek Unit Well No. 25 drilled in NW1/4NE1/4 (660 feet S/N 2,180 feet W/E) of sec 2, T 12 N, R 101 W, Sweetwater County, Wyoming

Surface elevation 7,172.0 feet

Sample number	Run	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks			
		Weight percent		Gal per ton							
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water			
SBR71-4850-53	0- 60						b				
SBR71-4854	60- 75	58636	0.6	3.8	93.7	1.9	1.6a	9.1		None	
SBR71-4855	75- 90	58637	.7	2.0	95.1	2.2	1.7a	4.8		None	
SBR71-4856	90- 100	58638	.4	2.5	95.5	1.6	1.0a	6.0		None	
SBR71-4857	100- 115	58639	2.3	2.3	93.8	1.6	5.9	5.5	0.909	None	
SBR71-4858	115- 130	58640	1.8	2.4	93.1	2.7	4.6a	5.8		None	
SBR71-4859	130- 145	58641	2.6	2.0	93.3	2.1	6.8	4.8	.918	None	
SBR71-4860	145- 160	58642	2.2	2.9	92.7	2.2	5.6a	7.1		None	
SBR71-4861	160- 175	58643	2.0	3.1	92.2	2.7	5.2	7.4	.928	None	
SBR71-4862	175- 190	58644	2.3	3.3	92.8	1.6	5.8	7.9	.935	None	
SBR71-4863	190- 205	58645	1.2	2.4	94.5	1.9	3.1a	5.8		None	
SBR71-4864	205- 220	58646	1.3	2.1	93.9	2.7	3.5a	5.0		None	
SBR71-4865	220- 235	58647	2.0	2.4	93.9	1.7	5.2a	5.8		None	
SBR71-4866	235- 250	58648	2.1	3.1	92.5	2.3	5.5	7.4	.934	None	
SBR71-4867	250- 265	58649	2.0	3.5	91.0	3.5	5.1a	8.4		None	
SBR71-4868	265- 280	58650	1.5	2.4	93.9	2.2	4.0a	5.8		None	
SBR71-4869	280- 295	58651	1.3	2.4	94.1	2.2	3.5a	5.8		None	
SBR71-4870	295- 310	58652	1.4	2.4	94.2	2.0	3.5a	5.8		None	
SBR71-4871	310- 325	58653	1.5	2.9	94.0	1.6	3.9a	7.0		None	
SBR71-4872	325- 340	58654	1.7	2.6	93.6	2.1	4.4a	6.4		None	
SBR71-4873-74	340- 370						No Oil				
SBR71-4875	370- 385	58655	7.9	8.0	74.9	9.2	20.7a	19.2		None	Coal
SBR71-4876	385- 400	58656	9.5	5.2	76.8	8.5	24.7a	12.6		None	Coal
SBR71-4877	400- 415	58657	12.1	6.3	63.9	17.7	31.5a	15.0		None	Coal
SBR71-4878	415- 430	58658	11.4	5.3	71.3	12.0	29.7a	12.6		None	Coal
SBR71-4879	430- 445	58659	9.5	3.7	80.8	6.0	24.7a	9.0		None	Coal
SBR71-4880	445- 460	58660	7.6	8.5	78.8	5.1	19.9a	20.4		None	Coal
SBR71-4881	460- 475	58661	10.0	2.5	84.8	2.7	26.1a	6.0		None	Coal
SBR71-4882	475- 490	58662	9.4	6.1	80.6	3.9	24.5a	14.6		None	Coal
SBR71-4883	490- 505	58663	7.4	3.8	84.7	4.1	19.2a	9.2		None	Coal

See footnote at end of table.

Drill cutting samples received April 29, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mountain Fuel Supply Company's Canyon Creek Unit Well No. 25 (con.)

Surface elevation 7,172.0 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 <sup>1/</sup>	Water	Tendency to coke		
SBR71-4884	505- 520	58664	5.3	3.5	86.5	4.7	13.0	8.4	0.973	None	Coal
SBR71-4885	520- 535	58665	7.2	3.3	82.8	6.7	18.6a	7.9		None	Coal
SBR71-4886	535- 550	58666	3.1	3.0	90.9	3.0	7.5	7.2	.968	None	Coal
SBR71-4887	550- 565	58667	6.8	3.5	85.6	4.1	17.5	8.4	.934	None	Coal
SBR71-4888	565- 580	58668	.9	1.6	95.7	1.8	2.3a	3.7		None	
SBR71-4889	580- 595	58669	.9	1.5	95.8	1.8	2.4a	3.6		None	
SBR71-4890	595- 610	58670	.8	1.7	95.0	2.5	2.1a	4.2		None	
SBR71-4891	610- 625	58671	2.3	2.7	92.6	2.4	5.5	6.6	.984	None	
SBR71-4892	625- 640	58672	1.8	1.5	94.8	1.9	4.7a	3.6		None	
SBR71-4893	640- 655	58673	1.4	1.3	95.0	2.3	3.7a	3.0		None	
SBR71-4894	655- 670	58674	3.6	2.0	92.6	1.8	9.3a	4.8		None	
SBR71-4895	670- 685	58675	3.3	1.4	93.4	1.9	8.5a	3.5		None	
SBR71-4896	685- 700	58676	2.4	1.8	93.7	2.1	5.9	4.3	.960	None	
SBR71-4897	700- 715	58677	7.2	2.1	88.0	2.7	18.7a	5.2		None	
SBR71-4898	715- 730	58678	2.0	1.5	94.9	1.6	5.3	3.6	.914	None	
SBR71-4899	730- 745	58679	2.2	1.4	94.9	1.5	5.8	3.4	.889	None	
SBR71-4900	745- 760	58680	1.0	2.0	95.4	1.6	2.7a	4.8		None	
SBR71-4901	760- 775	58681	1.2	1.8	95.4	1.6	3.2a	4.3		None	
SBR71-4902	775- 790	58682	.1	2.2	96.7	1.0	.4a	5.3		None	
SBR71-4903	790- 805	58683	.1	2.2	96.8	.9	.3a	5.3		None	
SBR71-4904	805- 820	58684	.4	2.1	97.0	.5	.9a	5.0		None	
SBR71-4905	820- 835						No Oil				
SBR71-4906	835- 850	58685	.6	1.7	94.9	2.8	1.5a	4.1		None	
SBR71-4907	850- 865	58686	.2	3.4	94.7	1.7	.6a	8.1		None	
SBR71-4908	865- 880	58687	1.2	3.1	94.0	1.7	3.1a	7.4		None	
SBR71-4909	880- 895	58688	.1	3.3	95.2	1.4	.2a	7.9		None	
SBR71-4910	895- 910	58689	.0	2.4	96.8	.8	Trace	5.8		None	
SBR71-4911	910- 925	58690	.0	2.4	96.8	.8	No Oil	5.8		None	
SBR71-4912	925- 940	58691	.0	2.5	96.2	1.3	Trace	6.0		None	
SBR71-4913	940- 955	58692	1.7	2.8	93.9	1.6	4.5a	6.7		None	

See footnote at end of table.

Drill cutting samples received April 29, 1971; Assays made on air-dried samples

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Samples from Mountain Fuel Supply Company's Canyon Creek Unit Well No. 25 (con.)

Surface elevation 7,172.0 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		Gal per ton		Spent shale	Gas + loss			
Laramie	Their		Oil	Water							
SBR71-4914	955- 970	58693	0.8	3.9	94.0	1.3	2.0a	9.3		None	
SBR71-4915	970- 985	58694	.1	2.5	96.4	1.0	.3a	6.0		None	
SBR71-4916	985-1000	58695	6.8	2.7	87.5	3.0	17.1	6.5	0.952	None	
SBR71-4917	1000-1015	58696	2.3	2.8	93.1	1.8	5.6	6.7	.969	None	
SBR71-4918	1015-1030	58697	.9	2.4	94.2	2.5	2.3a	5.8		None	
SBR71-4919	1030-1045	58698	.7	1.7	96.1	1.5	1.7a	4.1		None	
SBR71-4920	1045-1060	58699	.0	1.8	97.5	.7	Trace	4.2		None	
SBR71-4921	1060-1075	58700	1.1	2.5	95.1	1.3	2.8a	6.0		None	
SBR71-4922	1075-1090	58701	.8	2.0	95.8	1.4	2.1a	4.8		None	
SBR71-4923	1090-1105	58702	.8	2.1	95.6	1.5	2.0a	5.0		None	
SBR71-4924	1105-1120	58703	1.6	2.5	93.9	2.0	4.2a	6.0		None	
SBR71-4925	1120-1135	58704	.2	2.4	95.8	1.6	.6a	5.8		None	
SBR71-4926	1135-1150	58705	.6	2.4	95.7	1.3	1.4a	5.8		None	
SBR71-4927	1150-1165	58706	1.1	2.3	95.6	1.0	2.8a	5.6		None	
SBR71-4928	1165-1180	58707	.1	2.0	95.7	1.2	2.9a	4.8		None	
SBR71-4929	1180-1195	58708	1.1	2.0	95.1	1.8	2.9a	4.7		None	
SBR71-4930	1195-1210	58709	1.3	2.2	95.3	1.2	3.5a	5.2		None	
SBR71-4931	1210-1225	58710	2.1	2.8	93.5	1.6	5.5a	6.6		None	
SBR71-4932	1225-1240	58711	1.3	2.9	94.3	1.5	3.5a	7.0		None	
SBR71-4933	1240-1255	58712	.4	3.4	94.9	1.3	.9a	8.1		None	
SBR71-4934	1255-1270	58713	.4	2.8	95.6	1.2	1.0a	6.7		None	
SBR71-4935	1270-1285	58720	.1	3.0	95.7	1.2	.2a	7.2		None	
SBR71-4936	1285-1300	58721	.1	3.0	95.5	1.4	.3a	7.2		None	
SBR71-4937	1300-1315	58722	.4	2.6	95.6	1.4	.9a	6.4		None	
SBR71-4938	1315-1330	58723	.8	3.1	93.8	2.3	2.0a	7.4		None	
SBR71-4939	1330-1345	58724	3.5	4.4	89.1	3.0	8.5	10.5	.987	None	
SBR71-4940	1345-1360	58725	.3	3.8	94.7	1.2	.8a	9.1		None	
SBR71-4941	1360-1375	58726	2.6	.7	94.3	2.4	6.7a	1.8		None	
SBR71-4942	1375-1390	58727	2.4	3.5	89.2	4.9	6.2a	8.4		None	
SBR71-4943	1405-1420	58728	3.1	5.0	88.0	3.9	8.1a	12.0		None	

See footnote at end of table.

Drill cutting samples received April 29, 1971; Assays made on air-dried samples

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Samples from Mountain Fuel Supply Company's Canyon Creek Unit Well No. 25 (con.)

Surface elevation 7,172.0 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		Gal per ton				
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water	
SBR71-4944	1420-1435	58729	1.9	3.3	92.4	2.4	5.1a	7.9	None
SBR71-4945	1435-1450	58730	3.5	2.4	91.3	2.8	9.0a	5.9	None
SBR71-4946	1450-1465	58731	2.8	4.0	90.9	2.3	7.0	9.6	0.974 None
SBR71-4947	1465-1480	58732	.6	3.6	94.7	1.1	1.5a	8.6	None
SBR71-4948	1480-1495	58733	.8	1.6	93.9	3.7	2.0a	3.8	None
SBR71-4949	1495-1510	58734	.9	3.2	93.8	2.1	2.4a	7.7	None

<sup>1/</sup> "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.

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