

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USEM Rock Springs Project well No. 7-4 drilled in SW1/4  
SW1/4 NE1/4 sec 15, T 18 N, R 106 W, Sweetwater County, Wyoming

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			
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water	coke		
SBR68-8790	50.0-51.0	33260	6.5	1.5	89.8	2.2	17.0	3.6	0.915	None	
SBR68-8791	51.0-51.8	33261	7.4	1.3	89.3	2.0	19.4	3.1	.916	None	
SBR68-8792	51.8-52.8	33262	4.0	1.2	91.9	2.9	10.4	2.9	.915	None	
SBR68-8793	52.8-53.8	33263	5.4	1.9	89.6	3.1	14.2	4.6	.911	None	
SBR68-8794	53.8-54.8	33264	6.8	2.2	87.5	3.5	17.9	5.3	.913	None	
SBR68-8795	54.8-55.8	33265	4.8	1.7	89.4	4.1	12.5	4.1	.915	None	
SBR68-8796	55.8-56.4	33266	4.3	2.5	90.8	2.4	11.2	6.0	.915	None	
SBR68-8797	56.4-57.4	33267	6.4	2.2	88.8	2.6	16.7	5.3	.926	None	
SBR68-8798	57.4-58.5	33268	8.5	3.0	86.2	2.3	22.1	7.2	.924	None	
SBR68-8799	58.5-59.5	33269	7.4	3.0	86.8	2.8	19.0	7.2	.932	None	
SBR68-8800	59.5-60.4	33270	7.1	1.8	86.7	4.4	18.2	4.3	.938	None	
SBR68-8801	60.4-60.8	33271	7.2	3.9	86.7	2.2	18.5	9.3	.934	None	
SBR68-8802	60.8-61.3	33272	5.3	2.8	89.2	2.7	13.6	6.7	.942	None	
SBR68-8803	61.3-61.7	33273	5.2	4.2	84.9	5.7	13.4	10.1	.934	None	
SBR68-8804	61.7-62.7	33274	8.8	2.4	84.1	4.7	22.7	5.8	.931	None	
SBR68-8805	62.7-63.3	33275	9.8	2.4	83.7	4.1	25.3	5.8	.928	None	
SBR68-8806	63.3-64.3	33276	9.9	2.5	83.7	3.9	25.6	6.0	.928	None	
SBR68-8807	64.3-65.3	33277	9.3	2.8	83.5	4.4	23.8	6.7	.936	None	
SBR68-8808	65.3-66.3	33278	7.8	2.5	87.2	2.5	19.7	6.0	.946	None	
SBR68-8809	66.3-67.3	33279	7.1	2.8	88.4	1.7	17.8	6.7	.953	None	
SBR68-8810	67.3-68.3	33280	6.3	2.7	89.7	1.3	16.0	6.5	.951	None	
SBR68-8811	68.3-69.3	33281	6.4	2.8	87.8	3.0	16.2	6.7	.946	None	
SBR68-8812	69.3-69.6	33282	9.1	2.5	84.2	4.2	23.2	6.0	.936	None	
SBR68-8813	69.6-70.6	33283	12.4	2.3	82.3	3.0	32.3	5.5	.919	None	
SBR68-8814	70.6-71.1	33284	10.7	1.5	85.2	2.6	28.1	3.6	.913	None	
SBR68-8815	71.1-71.2	33285	7.2	.5	89.0	3.3	18.8	1.2	.916	None	
SBR68-8816	71.2-72.2	33286	10.7	1.5	84.9	2.9	28.1	3.6	.915	None	
SBR68-8817	72.2-72.7	33287	12.4	1.2	82.9	3.5	32.6	2.9	.909	None	
SBR68-8818	72.7-73.7	33288	11.8	1.9	82.6	3.7	31.1	4.6	.911	None	
SBR68-8819	73.7-74.7	33289	12.6	1.6	80.2	5.6	32.9	3.8	.919	None	

Core samples received July 15, 1968; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Rock Springs Project well No. 7-4 (con.)

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	
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water	
SBR68-8820	74.7-75.0	33290	8.2	2.6	86.9	2.3	21.5	6.2	0.915	None	
SBR68-8821	75.0-75.2	33291	8.4	2.8	87.0	1.8	22.0	6.7	.915	None	
SBR68-8822	75.2-76.2	33292	8.2	2.8	87.2	1.8	21.7	6.7	.908	None	
SBR68-8823	76.2-77.2	33293	6.3	2.2	89.0	2.5	16.5	5.3	.920	None	
SBR68-8824	77.2-77.3	33294	8.5	3.0	86.7	1.8	22.2	7.3	.913	None	
SBR68-8825	77.13-78.2	33295	8.3	2.3	87.2	2.2	21.8	5.5	.917	None	
SBR68-8826	78.2-78.5	33296	5.0	1.8	81.0	2.2	13.0	4.3	.929	None	
SBR68-8827	78.5-79.2	33298	9.6	1.7	84.9	3.8	24.9	4.1	.927	None	
SBR68-8828	79.2-79.6	33299	10.1	3.6	81.4	4.9	27.0	8.6	.898	None	
SBR68-8829	79.6-79.9	33300	9.4	2.8	83.4	4.4	24.8	6.7	.911	None	
SBR68-8830	79.9-80.9	33301	5.0	1.8	88.3	4.9	13.2	4.3	.916	None	
SBR68-8831	80.9-81.9	33302	5.7	2.0	89.4	2.9	14.7	4.8	.923	None	
SBR68-8832	81.9-82.6	33303	10.5	1.3	84.7	3.5	27.5	3.1	.915	None	
SBR68-8833	82.6-83.3	33304	9.7	1.7	85.0	3.6	25.5	4.1	.915	None	
SBR68-8834	83.3-83.4	33305	7.5	3.2	86.3	3.0	19.7	7.6	.915	None	
SBR68-8835	83.4-84.6	33306	4.7	2.0	89.8	3.5	12.3	4.8	.913	None	
SBR68-8836	84.6-84.7	33307	2.9	1.7	93.5	1.9	7.9	4.1	.890	None	
SBR68-8837	84.7-85.7	33308	2.1	2.3	94.5	1.1	5.6	5.5	.894	None	
SBR68-8838	85.7-86.7	33309	2.4	1.4	95.5	.7	6.4	3.4	.890	None	
SBR68-8839	86.7-87.7	33310	1.3	1.6	95.4	1.7	3.3a	3.8		None	
SBR68-8840	87.7-88.7	33311	1.6	2.0	94.9	1.5	4.2a	4.8		None	
SBR68-8841	88.7-90.0	33312	1.6	2.0	95.1	1.3	4.2a	4.8		None	

<sup>1/</sup> "a"--indicates specific gravity estimated as 0.92

Core samples received July 15, 1968; Assays made on air-dried samples