

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

U007

Samples from U. S. Geological Survey's Core hole No. 9 in Naval Reserve No. 2, NE 1/4, NW 1/4, Sec. 27,  
T. 12 S., R. 19 E., Uintah County, Utah

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			
Laramie	Thier	Oil	Water							
SBR54-1591	475.0-478.2	33525	9.9	1.6	86.6	1.9	26.1	3.8	.908	None
SBR54-1592	478.2-479.2	33526	6.4	.7	91.7	1.2	17.0	1.8	.899	None
SBR54-1593	479.2-484.3	33527	2.6	1.1	95.7	.6	6.7	2.6	.913	None
SBR54-1594	484.3-486.2	33528	2.0	1.1	96.3	.6	5.3	2.6	.920	None
SBR54-1595	486.2-487.5	33529	4.6	1.1	92.8	1.5	12.1	2.6	.915	None
SBR54-1596	487.5-488.9	33530	2.1	.4	96.8	.7	5.4	1.1	.916	None
SBR54-1597	488.9-493.9	33531	1.4	.3	97.9	.4	3.5a	.7		None
SBR54-1598	493.9-503.4	33532	.7	1.3	97.5	.5	1.8a	3.1		None
SBR54-1599	503.4-509.9	33533	1.6	1.3	96.6	.5	4.0a	3.1		None
SBR54-1600	509.9-510.8	33534	11.1	1.4	85.7	1.8	29.1	3.4	.916	None
SBR54-1601	510.8-512.5	33535	7.0	1.4	89.9	1.7	18.5	3.4	.911	None
SBR54-1602	512.5-514.0	33536	6.5	1.0	91.1	1.4	17.4	2.3	.900	None
SBR54-1603	515.9-518.5	33537	13.0	1.2	83.3	2.5	34.2	2.9	.908	None
SBR54-1604	518.5-520.4	33538	21.4	1.7	72.3	4.6	56.8	4.1	.905	Slight
SBR54-1605	520.4-521.6	33539	14.3	1.1	81.9	2.7	37.9	2.6	.904	None
SBR54-1606	521.6-522.8	33540	13.8	1.6	81.6	3.0	36.1	3.8	.918	None
SBR54-1607	523.0-525.9	33541	5.5	1.3	91.5	1.7	14.2	3.1	.923	None
SBR54-1608	525.9-528.7	33542	7.3	.7	90.8	1.2	19.0	1.8	.921	None
SBR54-1609	528.7-529.7	33543	7.3	.6	91.0	1.1	19.2	1.6	.910	None
SBR54-1610	529.7-531.6	33544	12.3	1.3	84.4	2.0	32.7	3.1	.903	None
SBR54-1611	531.6-536.0	33545	5.8	1.3	91.9	1.0	15.5	3.1	.892	None
SBR54-1612	536.0-538.6	33546	2.2	1.0	96.5	.3	5.7	2.4	.903	None
SBR54-1613	538.6-540.7	33547	10.5	1.6	85.9	2.0	27.4	3.8	.921	None
SBR54-1614	540.7-543.0	33548	2.1	1.7	95.8	.4	5.6	4.1	.916	None
SBR55-1806	544.0-545.9	37191	2.6	.9	96.2	.3	7.0	2.0	.891	None
SBR55-1807	522.8-523.0	37192	2.0	.8	96.9	.3	5.2	2.0	.912	None

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a - Estimated

Core samples received July 29, 1954; Assays made on air-dried samples.  
1/ Samples received April 8, 1955.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Geological Survey's Core hole No. 9 in Naval Reserve No. 2, SW 1/4, Sec. 22,  
T. 12 S., R. 19 E., Carbon County, Utah

W-1  
NE 1/4 NW 1/4

(60.)

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					Oil	Water	
SBR54-1591	475.0-478.2 <sup>3.2</sup>	33525	9.9	1.6	86.6	1.9	26.1 <sup>83.5</sup>	3.8	.908	None	
SBR54-1592	478.2-479.2 <sup>1.1</sup>	33526	6.4	.7	91.7	1.2	17.0 <sup>17.0</sup>	1.8	.899	None	
SBR54-1593	479.2-484.3 <sup>5.1</sup>	33527	2.6	1.1	95.7	.6	6.7 <sup>34.2</sup>	2.6	.913	None	
SBR54-1594	484.3-486.2 <sup>1.9</sup>	33528	2.0	1.1	96.3	.6	5.3 <sup>10.1</sup>	2.6	.920	None	
SBR54-1595	486.2-487.5 <sup>1.3</sup>	33529	4.6	1.1	92.8	1.5	12.1 <sup>15.7</sup>	2.6	.915	None	
SBR54-1596	487.5-488.9 <sup>1.4</sup>	33530	2.1	.4	96.8	.7	5.4 <sup>7.6</sup>	1.1	.916	None	
SBR54-1597	488.9-493.9 <sup>5.0</sup>	33531	1.4	.3	97.9	.4	3.5 <sup>17.5</sup>	.7		None	
SBR54-1598	493.9-503.4 <sup>9.5</sup>	33532	.7	1.3	97.5	.5	1.8 <sup>17.1</sup>	3.1		None	
SBR54-1599	503.4-509.9 <sup>6.5</sup>	33533	1.6	1.3	96.6	.5	4.0 <sup>24.0</sup>	3.1		None	
SBR54-1600	509.9-510.8 <sup>.9</sup>	33534	11.1	1.4	85.7	1.8	29.1 <sup>26.2</sup>	3.4	.916	None	
SBR54-1601	510.8-512.5 <sup>1.7</sup>	33535	7.0	1.4	89.9	1.7	18.5 <sup>31.4</sup>	3.4	.911	None	
SBR54-1602	512.5-514.0 <sup>1.5</sup>	33536	6.5	1.0	91.1	1.4	17.4 <sup>26.1</sup>	2.3	.900	None	
SBR54-1603	514.0-518.5 <sup>4.5</sup>	33537	13.0	1.2	83.3	2.5	34.2 <sup>88.9</sup>	2.9	.908	None	
SBR54-1604	518.5-520.4 <sup>1.9</sup>	33538	21.4	1.7	72.3	4.6	56.8 <sup>107.9</sup>	4.1	.905	Slight	
SBR54-1605	520.4-521.6 <sup>1.2</sup>	33539	14.3	1.1	81.9	2.7	37.9 <sup>45.5</sup>	2.6	.904	None	
SBR54-1606	521.6-522.8 <sup>1.2</sup>	33540	13.8	1.6	81.6	3.0	36.1 <sup>43.3</sup>	3.8	.918	None	
SBR54-1607	522.8-525.9 <sup>3.1</sup>	33541	5.5	1.3	91.5	1.7	14.2 <sup>41.2</sup>	3.1	.923	None	
SBR54-1608	525.9-528.7 <sup>2.8</sup>	33542	7.3	.7	90.8	1.2	19.0 <sup>53.2</sup>	1.8	.921	None	
SBR54-1609	528.7-529.7 <sup>1.0</sup>	33543	7.3	.6	91.0	1.1	19.2 <sup>19.2</sup>	1.6	.910	None	
SBR54-1610	529.7-531.6 <sup>1.9</sup>	33544	12.3	1.3	84.4	2.0	32.7 <sup>42.1</sup>	3.1	.903	None	
SBR54-1611	531.6-536.0 <sup>4.4</sup>	33545	5.8	1.3	91.9	1.0	15.5 <sup>68.2</sup>	3.1	.892	None	
SBR54-1612	536.0-538.6 <sup>2.4</sup>	33546	2.2	1.0	96.5	.3	5.7 <sup>14.8</sup>	2.4	.903	None	
SBR54-1613	538.6-540.7 <sup>2.1</sup>	33547	10.5	1.6	85.9	2.0	27.4 <sup>57.5</sup>	3.8	.921	None	
SBR54-1614	540.7-543.0 <sup>2.3</sup>	33548	2.1	1.7	95.8	.4	5.6 <sup>12.9</sup>	4.1	.916	None	

a - Estimated

Core samples received July 29, 1954; Assays made on air-dried samples.