

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Geological Survey's No. 3 Core hole in Naval Oil-Shale Reserve No. 2, NW 1/4, SW 1/4,
Sec. 1, T. 12 S., R. 19 E., Uintah County, Utah

Sample number		Run No.	Yield of product				Specific gravity		Properties of		Remarks
			Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60° F.	spent shale Tendency to coke	
Laramie	Their		Oil	Water							Oil
SBR54-1549	502.0-503.6	33473	3.6	1.0	94.6	0.8	9.4	2.4	0.909	None	
SBR54-1550	503.6-504.1	33474	5.6	.8	92.6	1.0	14.5	1.9	.918	None	
SBR54-1551	504.1-506.4	33475	11.7	1.4	84.5	2.4	30.7	3.4	.916	None	
SBR54-1552	506.4-509.0	33476	7.2	.9	90.2	1.7	18.9	2.2	.907	None	
SBR54-1553	509.0-511.0	33477	12.1	1.0	84.4	2.5	31.5	2.4	.918	None	
SBR54-1554	511.0-513.6	33478	22.4	1.3	72.0	4.3	59.6	3.1	.902	Slight	
SBR54-1555	513.6-514.3	33479	11.5	.8	84.9	2.8	30.4	1.9	.906	None	
SBR54-1556	514.3-518.1	33482	18.6	1.1	76.4	3.9	49.5	2.6	.900	Slight	
SBR54-1557	518.1-519.0	33483	16.9	1.1	78.8	3.2	44.5	2.6	.911	Slight	
SBR54-1558	519.0-519.5	33484	6.2	1.0	90.9	1.9	16.3	2.3	.918	None	
SBR54-1559	519.5-524.0	33485	7.9	.7	89.3	2.1	20.7	1.8	.914	None	
SBR54-1560	524.0-526.0	33486	15.5	1.3	80.2	3.0	41.2	3.1	.900	None	
SBR54-1561	526.0-528.3	33487	6.5	1.0	90.9	1.6	17.8	2.4	.880	None	
SBR54-1562	528.3-529.3	33488	13.4	1.4	82.8	2.4	35.7	3.4	.899	None	
SBR54-1563	529.3-530.9	33489	5.1	1.0	92.4	1.5	13.4	2.5	.909	None	
SBR54-1564	530.9-533.0	33490	3.1	1.4	94.5	1.0	8.2	3.2	.913	None	
SBR54-1565	533.0-536.0	33491	4.9	1.8	91.8	1.5	12.8	4.3	.916	None	
SBR54-1566	536.0-537.9	33492	2.6	1.5	94.8	1.1	6.8	3.6	.916	None	
SBR54-1567	537.9-540.4	33493	1.9	1.0	96.4	.7	4.7a	2.4		None	
SBR54-1568	540.4-546.7	33494	9.6	1.8	86.5	2.1	25.7	4.2	.899	None	
SBR54-1569	546.7-549.6	33495	4.3	1.6	92.8	1.3	11.2	3.8	.910	None	
SBR55-1788	480.0-485.0	37173	9.0	1.0	88.5	1.5	23.8	2.4	.904	None	1/
SBR55-1789	485.0-490.0	37174	4.0	.8	94.1	1.1	10.4	1.9	.921	None	1/
SBR55-1790	490.0-498.0	37175	2.5	.6	96.4	.5	6.5	1.4	.911	None	1/
SBR55-1791	498.0-502.0	37176	2.0	.7	96.6	.7	4.9a	1.7		None	1/
SBR55-1792	549.6-550.7	37177	6.3	1.2	91.0	1.5	16.4	2.9	.920	None	1/
SBR55-1793	550.7-552.6	37178	3.0	.7	95.4	.9	7.9	1.6	.924	None	1/
SBR55-1794	552.7-553.7	37179	3.4	1.0	94.7	.9	8.9	2.4	.923	None	1/
SBR55-1795	553.7-557.0	37180	1.4	.4	97.6	.6	3.5a	.8		None	1/

a - Estimated

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

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.E.R. - 1394P

August 1954

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Geological Survey's No. 3 Core hole in Naval Oil-Shale Reserve No. 2, SE 1/4, 54)
Sec. 2, T. 12 S., R. 19 E., Carbon County, Utah

480.0 - 485.0
485.0 - 490.0
490.0 - 498.0

23.8
10.4
6.5

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	Their	Oil	Water							
SBR54-1549	498.0-502.8 40 33473	3.6	1.0	94.6	0.8	4.9 19.6	2.4	0.909	None	
SBR54-1550	502.0-503.6 1.6 33474	5.6	.8	92.6	1.0	9.4 15.0	1.9	.918	None	
SBR54-1551	503.6-504.1 .5 33475	11.7	1.4	84.5	2.4	14.5 7.2	3.4	.916	None	
SBR54-1552	504.1-506.4 2.3 33476	7.2	.9	90.2	1.7	30.7 70.6	2.2	.907	None	
SBR54-1553	506.4-509.0 2.6 33477	12.1	1.0	84.4	2.5	18.9 49.1	2.4	.918	None	
SBR54-1554	509.0-511.0 2.0 33478	22.4	1.3	72.0	4.3	31.5 63.0	3.1	.902	Slight	
SBR54-1555	511.0-513.6 2.6 33479	11.5	.8	84.9	2.8	59.6 155.0	1.9	.906	None	
SBR54-1556	513.6-514.3 .7 33482	18.6	1.1	76.4	3.9	30.4 21.3	2.6	.900	Slight	
SBR54-1557	514.3-518.1 3.8 33483	16.9	1.1	78.8	3.2	49.5 188.1	2.6	.911	Slight	
SBR54-1558	518.1-519.0 .9 33484	6.2	1.0	90.9	1.9	44.5 40.0	2.3	.918	None	
SBR54-1559	519.0-519.5 .5 33485	7.9	.7	89.3	2.1	16.3 8.1	1.8	.914	None	
SBR54-1560	519.5-524.0 4.5 33486	15.5	1.3	80.2	3.0	20.7 93.1	3.1	.900	None	
SBR54-1561	524.0-526.0 2.0 33487	6.5	1.0	90.9	1.6	41.2 82.4	2.4	.880	None	
SBR54-1562	526.0-528.3 2.3 33488	13.4	1.4	82.8	2.4	17.8 40.9	3.4	.899	None	
SBR54-1563	528.3-529.3 1.0 33489	5.1	1.0	92.4	1.5	35.7 35.7	2.5	.909	None	
SBR54-1564	529.3-530.9 1.6 33490	3.1	1.4	94.5	1.0	13.4 21.4	3.2	.913	None	
SBR54-1565	530.9-533.0 2.1 33491	4.9	1.8	91.8	1.5	8.2 17.2	4.3	.916	None	
SBR54-1566	533.0-536.0 3.0 33492	2.6	1.5	94.8	1.1	12.8 35.4	3.6	.916	None	
SBR54-1567	536.0-537.9 1.9 33493	1.9	1.0	96.4	.7	6.8 12.9	2.4	.899	None	
SBR54-1568	537.9-540.4 2.5 33494	9.6	1.8	86.5	2.1	4.7 11.7	4.2	.910	None	
SBR54-1569	540.4-546.7 6.3 33495	4.3	1.6	92.8	1.3	25.7 41.9	3.8			
	546.7-549.6 2.9					11.2 32.5				
	549.6-550.7 1.1					16.4 18.0				
	550.7-552.6 1.9					7.9 15.0				
	552.7-553.7 1.0					8.9 8.9				
	553.7-557.0 3.3					3.5 11.5				

a - Estimated

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

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.E.R. - 1394P

August 19, 1954