

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

~
Samples from U. S. Geological Survey's core hole No. 1 in Naval Reserve No. 2, SE 1/4, SE 1/4, Sec. 36.,
T. 12 S., R. 19 E., Uintah County, Utah

Sample number		Run	Yield of product					Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks
			Weight percent		Gal. per ton		Percent of orig. shale					
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil	Water	Ignition loss	Ash	Tendency to coke	
SBR54-1642	72.3-73.5	33576	2.8	1.5	94.9	0.8	7.5	3.6	0.903		None	
SBR54-1643	73.5-75.3	33577	13.0	1.8	82.7	2.5	34.1	4.3	.914		"	
SBR54-1644	75.3-79.2	33578	5.4	1.5	91.7	1.4	14.3	3.7	.906		"	
SBR54-1645	79.2-86.4	33579	18.9	1.4	76.4	3.3	49.8	3.4	.907		Slight	
SBR54-1646	86.4-87.3	33580	7.2	1.5	89.4	1.9	18.8	3.6	.925		None	
SBR54-1647	87.3-93.3	33581	5.7	.8	92.2	1.3	14.7	1.0	.921		"	
SBR54-1648	93.3-99.5	33582	8.8	1.3	89.1	.8	23.6	3.1	.895		"	
SBR54-1649	99.5-101.4	33583	2.1	.8	97.0	.1	5.5	1.8	.899		"	
SBR54-1650	101.4-103.3	33584	8.3	1.6	88.9	1.2	21.7	3.8	.914		"	
SBR54-1651	103.3-105.9	33585	2.3	1.6	95.4	.7	6.1	3.8	.909		"	
SBR54-1652	110.3-111.1	33586	6.9	2.8	89.2	1.1	18.4	6.7	.897		"	
SBR54-1653	111.1-116.5	33587	8.0	1.4	89.3	1.3	21.4	3.4	.894		"	
SBR54-1654	116.5-119.0	33588	3.9	1.8	93.5	.8	10.3	4.4	.905		"	
SBR54-1655	123.0-125.6	33589	4.4	1.6	93.0	1.0	11.5	4.0	.917		"	
SBR55-1784	65.0-71.3	37169	.7	.6	98.3	.4	1.8a	1.4			"	1/
SBR55-1785	105.9-110.3	37170	1.5	1.0	97.2	.3	3.9a	2.3			"	1/
SBR55-1786	119.0-123.0	37171	1.6	.6	97.4	.4	4.2a	1.3			"	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.B.R.-1399P August 19, 1954

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

U-1 52.

Samples from U. S. Geological Survey's core hole No. 1 in Naval Reserve No. 2, SE 1/4, Sec. 36.,
T. 12 S., R. 19 E., Carbon County, Utah

Sample number	Run	Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks
		Weight percent		Gal. per ton					Percent of orig. shale		Tendency to coke	
		Oil	Water	Spent shale	Gas + loss	Oil	Water		Ignition loss	Ash		
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil	Water				
SBR54-1642	72.3-73.5	33576	2.8	1.5	94.9	0.8	7.5	9.0	3.6	0.903		None
SBR54-1643	73.5-75.3	33577	13.0	1.8	82.7	2.5	34.1	4.4	4.3	.914		"
SBR54-1644	75.3-79.2	33578	5.4	1.5	91.7	1.4	14.3	55.8	3.7	.906		"
SBR54-1645	79.2-86.4	33579	18.9	1.4	76.4	3.3	49.8	356.4	3.4	.907		Slight
SBR54-1646	86.4-87.3	33580	7.2	1.5	89.4	1.9	18.8	16.9	3.6	.925		None
SBR54-1647	87.3-93.3	33581	5.7	.8	92.2	1.3	14.7	88.2	1.0	.921		"
SBR54-1648	93.3-99.5	33582	8.8	1.3	89.1	.8	23.6	146.3	3.1	.895		"
SBR54-1649	99.5-101.4	33583	2.1	.8	97.0	.1	5.5	10.4	1.8	.899		"
SBR54-1650	101.4-103.3	33584	8.3	1.6	88.9	1.2	21.7	41.2	3.8	.914		"
SBR54-1651	103.3-105.9	33585	2.3	1.6	95.4	.7	6.1	15.9	3.8	.909		"
SBR54-1652	110.3-111.1	33586	6.9	2.8	89.2	1.1	18.4	14.7	6.7	.897		"
SBR54-1653	111.1-116.5	33587	8.0	1.4	89.3	1.3	21.4	115.6	3.4	.894		"
SBR54-1654	116.5-119.0	33588	3.9	1.8	93.5	.8	10.3	25.7	4.4	.905		"
SBR54-1655	123.0-125.6	33589	4.4	1.6	93.0	1.0	11.5	29.9	4.0	.917		"

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

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-1399P August 19, 1954