

4-12 OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Geological Survey's core hole No. 12, located NW 1/4 Sec. 4, T. 12 S., R. 18 E.,  
U. S. Naval Oil-Shale Reserve No. 2, Uintah County, Utah

63)

Starting elevation (approximate) 5,180 feet.

			Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Oil	Water			
Laramie	Their		Oil	Water							
SBR55-445	54.75- 57.25	36067	3.0	1.8	94.6	0.6	8.0	4.2	0.905	None	
SBR55-446	57.25- 60.8	36068	2.4	2.2	94.8	.6	6.4	5.3	.909	None	
SBR55-447	60.8 - 61.5	36069	12.9	2.0	83.1	2.0	33.9	4.8	.911	None	
SBR55-448	61.5 - 62.4	36070	4.3	1.3	94.0	.4	11.2	3.2	.915	None	
SBR55-449	62.5 - 63.7	36071	3.6	1.4	93.9	1.1	9.5	3.4	.912	None	
SBR55-450	63.7 - 65.5	36072	2.8	1.7	94.8	.7	7.3	4.1	.912	None	
SBR55-451	65.5 - 68.3	36073	8.5	.8	89.3	1.4	22.3	1.9	.914	None	
SBR55-452	68.3 - 69.4	36074	7.2	.9	90.7	1.2	19.2	2.0	.902	None	
SBR55-453	69.4 - 76.8	36075	2.7	.9	95.6	.8	7.2	2.2	.917	None	
SBR55-454	76.8 - 84.7	36076	1.1	.1	98.3	.5	2.8a	.2		None	
SBR55-455	84.7 - 91.2	36077	1.1	.5	98.0	.4	2.7a	1.2		None	
SBR55-456	91.2 - 91.3	36078	33.5	1.2	59.9	5.4	88.2	2.9	.909	Heavy	
SBR55-457	91.3 - 111.2	36079	.8	1.6	97.5	.1	2.1a	3.7		None	
SBR55-458	111.2 - 112.1	36080	1.9	1.0	96.6	.5	4.8a	2.3		None	
SBR55-459	112.1 - 113.2	36081	2.9	1.3	95.6	.2	7.6	3.0	.916	None	
SBR55-460	113.2 - 115.5	36082	5.3	.5	93.8	.4	13.8	1.3	.917	None	
SBR55-461	115.5 - 117.5	36083	9.4	.8	88.2	1.6	24.7	1.9	.915	None	
SBR55-462	117.5 - 119.2	36084	6.3	.8	91.8	1.1	16.6	1.9	.903	None	
SBR55-463	119.3 - 120.7	36085	7.8	.7	90.4	1.1	20.6	1.7	.906	None	
SBR55-464	120.7 - 122.4	36086	4.8	.6	92.6	2.0	12.6	1.4	.913	None	
SBR55-465	122.4 - 123.7	36087	18.0	1.2	77.3	3.5	47.2	3.0	.911	None	
SBR55-466	123.7 - 124.3	36088	20.4	1.1	74.3	4.2	53.9	2.6	.907	None	
SBR55-467	124.3 - 124.9	36089	11.7	.6	85.5	2.2	31.1	1.6	.900	None	
SBR55-468	124.9 - 125.8	36090	20.7	1.4	74.1	3.8	54.5	3.4	.911	None	
SBR55-469	125.8 - 127.2	36091	12.0	1.4	84.0	2.6	31.8	3.2	.909	None	
SBR55-470	127.2 - 127.8	36092	12.9	1.2	83.4	2.5	33.8	2.9	.910	None	
SBR55-471	127.9 - 130.2	36093	6.3	.8	91.2	1.7	16.5	1.9	.922	None	
SBR55-472	130.2 - 131.2	36094	14.7	1.0	81.9	2.4	38.0	2.4	.924	Slight	
SBR55-473	131.2 - 134.1	36095	6.0	.5	92.1	1.4	15.6	1.2	.920	None	
SBR55-474	134.1 - 134.5	36096	17.6	1.1	78.3	3.0	46.1	2.7	.913	None	

a - Estimated

Core samples received January 13, 1955; assays made on air-dried samples.

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-1489P

February 14, 1955

## OIL-SHALE ASSAYS BY MODIFIED FISCHER ROTORT METHOD

Samples from Geological Survey's core hole No. 12, located NW 1/4 Sec. 4, T. 12 S., R. 18 E.,  
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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	Thief							
SBR55-475	134.5-135.6	36097	13.3	1.5	82.9	2.3	35.0	3.6	$1.1 \times 35.0 = 38.5$ C.	None
SBR55-476	135.6-138.6	36098	7.3	1.1	90.0	1.6	19.6	2.6	$3.0 \times 19.6 = 58.8$	None
SBR55-477	138.6-139.6	36099	3.9	1.2	93.8	1.1	10.2	2.9	$1.0 \times 10.2 = 10.2$	None
SBR55-478	139.6-140.9	36100	1.3	1.3	96.6	.8	3.2	4.2		None
SBR55-479	140.9-142.8	36101	2.5	1.7	94.9	.9	6.4	12.2		None
SBR55-480	142.8-143.3	36102	5.9	1.5	91.0	1.6	15.5	7.7		None
SBR55-481	143.3-143.7	36103	14.5	1.5	81.3	2.7	37.6	15.0		None
SBR55-482	143.7-145.5	36104	2.8	1.3	95.0	.9	7.3	13.1		None
SBR55-483	145.5-148.8	36105	1.3	.8	97.2	.7	3.3	10.9		None
SBR55-484	148.8-152.2	36106	3.0	2.3	93.5	1.2	8.0	27.2		None
SBR55-485	152.2-153.5	36107	11.0	1.7	85.2	2.1	29.4	38.2		None
SBR55-486	153.5-155.6	36108	8.4	1.1	86.9	1.6	22.3	44.8		None
SBR55-487	155.6-156.3	36109	11.1	1.5	85.2	2.2	29.8	20.9		None
SBR55-488	156.3-157.1	36110	6.7	1.0	90.9	1.4	18.0	14.1		None
SBR55-489	157.1-161.2	36111	3.5	1.3	94.0	1.2	9.1	37.3		None
SBR55-490	161.2-163.1	36112	3.8	1.1	93.9	1.2	9.9	18.8		None
SBR55-491	163.1-163.8	36113	2.0	.8	96.7	.5	4.9	3.4		None
SBR55-492	168.4-169.7	36114	4.1	.8	94.3	.8	10.9	1.9	$4.6 \times 10.9 = 50.1$	None
SBR55-493	169.7-172.8	36115	1.2	1.3	97.0	.5	3.0	a		None
SBR55-494	172.8-173.9	36116	7.9	1.1	89.2	1.8	20.6	2.6		None
SBR55-495	173.9-177.4	36117	2.1	1.1	95.9	.9	5.6	2.5		None
SBR55-496	177.4-179.0	36118	8.0	1.0	89.8	1.2	20.8	2.4		None
SBR55-497	179.0-180.5	36119	1.5	2.1	95.9	.5	3.7	a		None
SBR55-498	180.5-181.1	36120	4.0	1.4	93.5	1.1	10.4	3.4		None
SBR55-499	181.1-181.5	36121	1.2	1.6	96.5	.7	3.0	a		None

a-Estimated

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Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-1490P February 14, 1955