

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Geological Survey's core hole No. 14, located in NE 1/4, NE 1/4, Sec. 14, T. 12 S., R. 18 E.,
U. S. Naval Oil-Shale Reserve No. 2 Uintah County, Utah

Starting elevation (approximate) 5,440 feet.

Mahogany Marker 5323.1		Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
Sample number	Run	Weight percent		Spent	Gas +				Tendency to		
Laramie	Thier	No.	Oil	Water	shale	loss	Oil	Water		coke	
SER55-543	51.7- 57.6	36165	0.6	1.2	98.1	0.1	1.4a	2.9		None	
SER55-544	57.6- 63.5	36166	2.8	1.8	95.0	.4	7.3	4.3	0.902	None	
SER55-545	63.5- 64.3	36167	13.3	2.1	81.9	2.7	35.3	5.0	.905	None	
SER55-546	64.3- 66.8	36168	4.2	1.4	93.1	1.3	11.1	3.4	.911	None	
SER55-547	66.8- 68.9	36169	2.9	1.9	94.1	1.1	7.6	4.6	.912	None	
SER55-548	68.9- 71.3	36170	7.7	1.3	89.5	1.5	20.1	3.1	.912	None	
SER55-549	71.5- 72.4	36171	12.7	1.0	84.3	2.0	33.6	2.5	.902	None	
SER55-550	72.4- 73.5	36172	6.5	.8	91.2	1.5	17.3	2.0	.900	None	
SER55-551	73.5- 80.4	36173	2.3	.9	96.0	.8	6.0	2.3	.920	None	
SER55-552	80.4- 82.9	36174	3.7	.6	95.4	.3	9.7	1.4	.922	None	
SER55-553	82.9- 89.1	36175	.9	.4	98.7	.0	2.2a	1.0		None	
SER55-554	89.1-104.6	36176	.8	1.1	97.5	.6	2.0	2.6		None	
SER55-555	104.6-106.3	36177	3.2	1.0	95.0	.8	8.5	2.4	.907	None	
SER55-556	106.3-107.5	36178	12.9	1.3	84.0	1.8	33.7	3.1	.919	None	
SER55-557	107.5-110.3	36179	6.9	1.1	90.5	1.5	18.3	2.6	.908	None	
SER55-558	110.3-114.0	36180	4.8	1.3	92.8	1.1	12.7	3.1	.914	None	
SER55-559	114.0-116.9	36181	11.0	1.5	85.7	1.8	28.9	3.6	.915	None	
SER55-560	116.9-119.2	36182	14.9	1.1	81.1	2.9	39.1	2.8	.912	None	
SER55-561	119.2-122.2	36183	5.6	1.0	91.9	1.5	14.7	2.4	.920	None	
SER55-562	122.2-123.6	36184	8.2	1.1	88.9	1.8	21.4	2.6	.922	None	
SER55-563	123.6-125.5	36185	4.9	.8	93.1	1.2	12.7	1.9	.921	None	
SER55-564	125.5-126.3	36186	6.5	.5	91.6	1.4	17.0	1.2	.913	None	
SER55-565	126.3-128.1	36187	12.9	1.1	83.2	2.8	34.1	2.8	.906	None	
SER55-566	128.1-130.8	36188	5.6	.9	92.0	1.5	15.2	2.2	.887	None	
SER55-567	130.8-131.5	36189	11.4	1.6	84.6	2.4	30.3	3.7	.903	None	
SER55-568	131.5-132.5	36190	4.3	1.0	93.8	.9	11.3	2.4	.915	None	
SER55-569	132.5-134.5	36191	1.7	.8	96.6	.9	4.3a	1.9		None	
SER55-570	134.5-136.4	36192	7.6	1.0	89.6	1.8	19.9	2.4	.922	None	
SER55-571	136.4-138.5	36193	2.2	1.2	95.7	.9	5.7	2.9	.913	None	
SER55-572	138.5-142.0	36194	1.2	.6	97.3	.9	3.0a	1.4		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.-1493P February 14, 1955

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Starting elevation (approximate) 5,440 feet.

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale		Remarks
Laramie	Their		Weight percent		Spent shale	Gas + loss	Gal. per ton		Tendency to coke		
			Oil	Water				Oil		Water	
SBR55-573	142.0-144.4	36195	2.7	1.8	94.4	1.1	7.1	4.3	0.910	None	
SBR55-574	144.4-147.4	36196	8.5	1.2	88.4	1.9	22.7	2.9	.900	None	
SBR55-575	147.4-150.2	36197	8.0	1.1	88.9	2.0	21.1	2.6	.903	None	
SBR55-576	150.2-155.2	36198	3.3	1.0	94.6	1.1	8.8	2.4	.912	None	
SBR55-577	155.2-157.0	36199	4.5	1.1	93.4	1.0	11.8	2.5	.924	None	
SBR55-578	157.0-158.1	36200	1.7	.4	97.5	.4	4.3a	.8		None	
SBR55-579	159.8-161.5	36201	3.9	.7	94.7	.7	10.4	1.6	.904	None	
SBR55-580	161.5-164.9	36202	1.0	1.2	97.3	.5	2.6a	2.9		None	
SBR55-581	164.9-165.8	36203	8.9	.8	88.7	1.6	23.0	2.0	.921	None	
SBR55-582	165.8-169.6	36204	2.6	.8	95.9	.7	6.8	2.0	.914	None	
SBR55-583	169.6-171.0	36206	7.9	.8	88.3	3.0	20.4	2.0	.922	None	
SBR55-584	171.9-173.2	36207	2.6	.7	96.1	.6	6.7	1.8	.923	None	
SBR55-1813	106.3-107.5	37198	13.4	1.2	83.2	2.2	34.8	2.9	.920	None	1/
SBR55-1814	107.5-110.3	37199	6.9	1.1	90.8	1.2	18.1	2.8	.907	None	1/
SBR55-1815	110.3-114.0	37200	4.9	1.2	92.9	1.0	12.8	2.9	.911	None	1/
SBR55-1816	114.0-116.9	37201	11.1	1.5	85.3	2.1	29.2	3.6	.911	None	1/
SBR55-1817	116.9-119.2	37202	15.3	1.5	80.4	2.8	40.6	3.5	.904	None	1/
SBR55-1818	119.2-122.2	37203	5.6	1.1	92.0	1.3	14.7	2.5	.917	None	1/
SBR55-1819	122.2-123.6	37204	8.0	1.2	89.3	1.5	21.0	2.9	.918	None	1/
SBR55-1820	123.6-125.5	37205	5.0	.9	93.1	1.0	13.0	2.2	.921	None	1/
SBR55-1821	125.5-126.3	37206	6.3	.5	92.1	1.1	16.7	1.1	.909	None	1/
SBR55-1822	126.3-128.1	37207	13.4	1.2	83.0	2.4	35.5	2.9	.906	None	1/
SBR55-1823	128.1-130.8	37208	5.3	.9	92.7	1.1	14.5	2.0	.881	None	1/
SBR55-1824	130.8-131.5	37209	12.4	1.8	83.6	2.2	33.0	4.2	.903	None	1/

a - Estimated

Core samples received January 13, 1955; assays made on air-dried samples.
1/ Samples received April 8, 1955.

P Petroleum and Oil-Shale Experiment Station, Laramie Wyoming, Illustration No. SBR-1494P February 14, 1955