

11-13 OIL-SHALE ASSAYS BY MODIFIED FRIEDLER RETORT METHOD

Samples from Geological Survey's core hole No. 13, located NW 1/4 Sec. 2, T. 12 S., R. 18 E.,
U. S. Naval Oil-Shale Reserve No. 2, Uintah County, Utah

(64)

Starting elevation (approximate) 5,040 feet.

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale		Remarks	
			Weight percent		Gal. per ton		Tendency to					
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water	coke			
SER55-500	52.0- 64.0	36122	0.6	1.6	97.3	12.0	0.5	1.5a	4.0	18.4	None	
SER55-501	64.0- 65.2	36123	4.6	2.1	92.0	1.2	1.3	12.2	5.0	14.6	0.904	None
SER55-502	65.2- 67.9	36124	2.9	2.7	93.5	2.7	.9	7.6	6.5	20.5	.906	None
SER55-503	67.9- 68.4	36125	16.8	2.1	78.0	.5	3.1	44.3	5.0	22.1	.907	Slight
SER55-504	68.4- 69.3	36126	5.9	1.2	91.4	.9	1.5	15.3	2.9	13.8	.920	None
SER55-505	69.3- 70.7	36127	4.9	1.4	93.4	1.4	.3	12.8	3.4	17.9	.919	None
SER55-506	70.7- 72.6	36128	4.7	1.6	93.2	1.9	.5	12.2	3.8	23.2	.915	None
SER55-507	72.6- 75.8	36129	9.9	1.3	86.8	3.2	2.0	26.0	3.1	23.2	.911	None
SER55-508	75.8- 76.9	36130	7.4	.8	90.1	1.1	1.7	19.5	1.9	21.4	.904	None
SER55-509	76.9- 82.5	36131	3.0	1.0	94.9	5.6	1.1	7.7	2.4	43.1	.919	None
SER55-510	82.5- 85.7	36132	3.9	1.0	93.9	3.2	1.2	10.1	2.4	32.3	.923	None
SER55-511	85.7- 89.5	36133	1.6	.2	97.6	3.8	.6	4.0a	.5	15.2		None
SER55-512	89.5- 91.1	36134	1.8	.5	96.9	1.6	.8	4.4a	1.2	7.0		None
SER55-513	91.1-106.2	36135	1.0	1.2	97.1	15.1	.7	2.6a	2.8	39.3		None
SER55-514	106.2-107.9	36136	3.4	.9	94.7		1.0	8.9	2.3	1.7x8.4=15.2	.904	None
SER55-515	107.9-109.0	36137	13.5	1.1	82.7		2.7	35.3	2.6	1.1x35.3=38.8	.917	None
SER55-516	109.0-110.3	36138	8.1	1.2	88.9		1.8	21.4	2.8	1.3x21.4=27.7	.908	None
SER55-517	110.3-111.5	36139	7.0	.9	90.3		1.8	18.5	2.2	1.2x18.5=22.1	.903	None
SER55-518	111.5-113.2	36140	14.5	1.0	81.3		3.2	38.3	2.5	1.7x38.3=65.1	.907	None
SER55-519	113.2-114.8	36141	13.2	.9	82.8		3.1	35.0	2.2	1.6x35.0=56.0	.906	None
SER55-520	114.8-116.2	36142	22.2	1.0	73.6		3.2	58.8	2.4	1.4x58.8=82.5	.903	Slight
SER55-521	116.2-117.9	36143	23.5	1.0	71.9		3.6	62.2	2.4	1.7x62.2=105.8	.905	Slight
SER55-522	117.9-118.4	36144	14.5	.6	82.8		2.1	38.6	1.4	0.5x38.6=19.3	.900	None
SER55-523	118.4-119.5	36145	18.2	1.0	78.1		2.7	48.2	2.5	1.1x48.2=53.1	.902	Slight
SER55-524	119.5-121.0	36146	7.3	.7	91.1		.9	19.0	1.6	1.5x19.0=28.5	.920	None
SER55-525	121.0-122.4	36147	10.1	.8	87.8		1.3	26.2	1.9	1.4x26.2=36.7	.920	None
SER55-526	122.4-122.7	36148	2.0	.7	96.9		.4	5.1a	1.6	0.3x5.1=1.5		None
SER55-527	122.7-125.1	36149	5.6	.4	93.7		.3	14.7	.8	2.4x14.7=35.4	.919	None
SER55-528	125.1-126.7	36150	14.4	1.0	82.1		2.5	38.2	2.4	1.6x38.2=61.0	.903	None
SER55-529	126.7-129.0	36151	6.0	.8	92.1		1.1	16.1	2.0	2.3x16.1=37.0	.887	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.-1491P February 14, 1955

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U. S. Naval Oil-Shale Reserve No.2, Uintah County, Utah

Starting elevation (approximate) 5,040 feet.

Starting elevation (approximate) 2,000 feet.			Yield of product				Specific gravity		Properties of		
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Cal. per ton		of oil at 60°/60° F.	spent shale Tendency to coke	Remarks
			Oil	Water			Oil	Water			
Laramie	Their										
SER55-530	129.0-129.9	36152	10.3	1.4	86.9	1.4	27.4	3.4	0.895	None	
SER55-531	129.9-131.2	36153	4.5	1.1	93.4	1.0	11.9	2.5	0.911	None	
SER55-532	131.2-132.9	36154	1.9	1.4	96.0	.7	4.7	3.4	0.914	None	
SER55-533	132.9-134.7	36155	7.6	1.2	89.8	1.4	19.8	3.0	0.914	None	
SER55-534	134.7-136.7	36156	2.8	1.3	95.0	.9	7.4	3.1	0.916	None	
SER55-535	136.7-137.8	36157	2.6	1.2	95.3	.9	6.8	2.9	0.921	None	
SER55-536	137.8-141.0	36158	.9	.7	97.5	.9	2.2	1.8	0.920	None	
SER55-537	141.0-142.8	36159	2.6	2.1	95.3	.0	6.7	5.0	0.920	None	
SER55-538	142.8-144.1	36160	13.7	1.6	82.7	2.0	36.6	3.8	0.899	None	
SER55-539	144.1-147.9	36161	9.7	1.0	87.8	1.5	25.9	2.4	0.897	None	
SER55-540	147.9-152.6	36162	4.2	1.0	94.3	.5	11.1	2.4	0.910	None	
SER55-541	152.6-153.3	36163	3.2	.6	96.0	.2	8.3	1.6	0.917	None	
SER55-542	153.3-154.4	36164	8.9	1.2	88.7	1.2	23.0	2.9	0.925	None	

a-Estimated

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