

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

4-18

Samples from Federal Geological Survey's core hole No. 18, located in the SW $\frac{1}{4}$ of Sec. 7, T. 13 S., R. 19 E.,
U. S. Naval Oil-Shale Reserve No. 2 Uintah County, Utah

Starting elevation (approximate) 6,290 feet

Starting elevation (approximate) 6,290 feet			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
Sample number	Run No.	Their	Weight percent			Gal. per ton					
			Oil	Water	Spent shale	Gas + loss	Oil	Water			
Laramie											
SBR55-709	10.0-15.0	36332	0.4	1.5	97.4	0.7	0.9a	3.6		None	
SBR55-710	15.0-18.4	36333	1.2	2.6	95.3	.9	2.9a	6.2		None	
SBR55-711	18.4-19.4	36334	5.1	1.0	92.6	1.3	13.3	2.4	0.916	None	
SBR55-712	19.4-21.1	36335	1.7	2.4	94.6	1.3	4.2a	5.9		None	
SBR55-713	21.1-23.3	36336	7.6	.8	90.0	1.6	20.4	1.9	.899	None	
SBR55-714	23.3-30.6	36337	.6	1.1	97.4	.9	1.4a	2.6		None	
SBR55-715	45.0-47.3	36338	.0	2.7	96.7	.6	None	6.5		None	
SBR55-716	59.0-61.5	36339	.0	1.9	97.5	.6	None	4.6		None	
SBR55-717	102.4-105.2	36340	1.9	1.8	95.3	1.0 ^{13.4}	4.8a	4.3		None	
SBR55-718	105.2-106.8	36341	8.9	1.4	87.7	2.0 ^{37.3}	23.3	3.4 ^{16x23.3=37.3}	.916	None	
SBR55-719	106.8-108.2	36342	5.2	1.0	92.6	1.2 ^{14.5}	13.9	2.4 ^{14x13.9=23.2}	.902	None	
SBR55-720	108.2-110.7	36343	3.6	1.0	94.3	1.1 ^{24.1}	9.6	2.3	.905	None	
SBR55-721	110.7-111.9	36344	11.3	1.3	85.4	2.0 ^{35.5}	29.6	3.1	.914	None	
SBR55-722	111.9-112.7	36345	8.2	.9	89.2	1.7 ^{17.3}	21.6	2.2	.908	None	
SBR55-723	112.7-115.1	36346	22.5	1.3	72.3	3.9 ^{43.6}	59.6	3.1	.906	Slight	
SBR55-724	115.1-116.9	36347	15.5	1.3	80.4	2.8 ^{73.4}	40.9	3.1	.910	None	
SBR55-725	116.9-118.5	36348	6.3	1.1	91.2	1.4 ^{26.2}	16.4	2.6	.918	None	
SBR55-726	118.5-120.0	36349	5.2	.8	92.9	1.1 ^{20.4}	13.6	2.0	.913	None	
SBR55-727	120.0-120.6	36350	10.4	1.1	87.1	1.4 ^{14.3}	27.1	2.6	.917	None	
SBR55-728	120.6-122.2	36351	4.8	.7	93.8	.7 ^{20.3}	12.7	1.6	.909	None	
SBR55-729	122.2-123.9	36352	11.7	1.4	85.2	1.7 ^{52.4}	30.8	3.5	.905	None	
SBR55-730	123.9-126.1	36353	4.7	.7	93.8	.8 ^{27.9}	12.7	1.8	.883	None	
SBR55-731	126.1-126.6	36354	10.7	1.5	86.2	1.6 ^{44.2}	28.4	3.5	.908	None	
SBR55-732	126.6-127.1	36355	3.8	1.0	94.6	.6 ^{5.0}	10.0	2.3	.904	None	
SBR55-733	127.1-129.4	36356	2.7	.8	96.1	.4 ^{15.4}	6.7a	1.8	.915	None	
SBR55-734	129.4-130.4	36357	5.2	.9	93.3	.6 ^{13.7}	13.7	2.0	.915	None	
SBR55-735	130.4-132.8	36358	1.7	.8	96.8	.7 ^{10.1}	4.2a	2.0		None	
SBR55-736	132.8-134.8	36359	6.3	1.1	91.3	1.3 ^{33.8}	16.9	2.6	.895	None	
SBR55-737	134.8-137.1	36360	5.0	1.0	93.2	.8 ^{30.6}	13.3	2.3	.899	None	
SBR55-738	137.1-138.4	36361	6.4	1.0	91.4	1.2 ^{22.2}	17.1	2.5	.892	None	

a-Estimated

Core samples received January 25, 1955; assays made on air-dried samples.
Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-1501P February 24, 1955

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Federal Geological Survey's core hole No. 18, located in the SW $\frac{1}{4}$ of Sec. 7, T. 13 S., R. 19 E.,
U. S. Naval Oil-Shale Reserve No. 2 Uintah County, Utah

Starting elevation (approximate) 6,290 feet

6454

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					
Laramie	Thief		Oil	Water					Oil	Water	
SBR55-739	138.4-141.1 ^{2.7}	36362	2.5	1.3	95.6	0.6	6.6 ^{17.8}	3.1	0.907	None	
SBR55-1188	142.6-143.2 ⁶	36363	2.1	1.8	95.0	1.1	5.4 ^{3.2}	4.3	.911	None	
SBR55-1189	143.2-144.2 ^{1.0}	36364	7.6	1.7	89.4	1.3	19.8 ^{19.8}	4.0	.925	None	
SBR55-1190	144.2-145.7 ^{1.5}	36365	2.0	1.1	96.4	.5	5.2 ^{7.8}	2.5	.919	None	

Samples collected by Federal Geological Survey from Pacific States Cast Iron Pipe Company's
Gov't. No.1 well located in the SE $\frac{1}{4}$ of Sec. 25, T. 14 S., R. 17 E, Uintah County, Utah

Starting elevation 7,441 feet

SBR55-1191	360-370	36366	1.0	1.3	97.2	0.5	2.5a	3.1	0.917	None
SBR55-1192	370-380	36367	2.4	2.2	94.6	.8	6.4	5.2		None
SBR55-1193	380-390	36368	1.1	1.4	96.8	.7	2.8a	3.2		None
SBR55-1194	490-500	36369	.7	2.1	96.6	.6	1.8a	5.0		None
SBR55-1195	500-510	36370	.9	1.9	96.4	.8	2.2a	4.7		None
SBR55-1196	510-520	36371	1.3	2.1	95.6	1.0	3.4a	5.0		None
SBR55-1197	520-530	36372	1.5	2.2	95.3	1.0	3.8a	5.3		None
SBR55-1198	530-540	36373	1.2	2.0	95.7	1.1	3.1a	4.7		None

a-Estimated

Surface samples collected by Federal Geological Survey
(No location given)

SBR55-1199	M-1	36374	0.1	2.6	85.8	2.5	23.8	6.2	0.919	None
SBR55-1200	M-2	36375	18.9	2.8	73.6	4.7	49.7	6.7	.914	Slight
SBR55-1201	M-3	36376	10.6	1.5	85.1	2.8	27.9	3.6	.912	None
SBR55-1202	M-4	36377	1.7	2.1	95.6	.6	4.3a	5.0		None
SBR55-1203	R-1	36378	5.2	2.5	90.0	2.3	13.4	6.0	.929	None
SBR55-1204	R-2	36379	1.3	1.6	96.1	1.0	3.3a	3.8		None
SBR55-1205	R-3	36380	16.3	3.2	75.4	5.1	41.4	7.7	.943	None
SBR55-1206	R-4	36381	11.9	2.1	85.0	1.0	30.8	5.0	.928	None
SBR55-1207	R-5	36382	8.9	3.6	83.7	3.8	22.9	8.7	.924	None

a-Estimated

Surface samples received January 25, 1955; assays made on air-dried samples.

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Samples from Federal Geological Survey's core hole No. 18, located in the SW 1/4 SW 1/4 of Sec. 7, T. 13 S., R. 19 E.,
U. S. Naval Oil-Shale Reserve No. 2 Uintah County, Utah

Starting elevation (approximate) 6,200 feet

Starting elevation (approximate) 6,200 feet			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
Mahogany marker 6146.8 Sample number Their		Run No.	Weight percent		Gal. per ton						
			Oil	Water	Spent shale	Gas + loss	Oil	Water			
Laramie											
SBR55-709	10.0- 15.0	36332	0.4	1.5	97.4	0.7	0.9a	3.6		None	
SBR55-710	15.0- 18.4	36333	1.2	2.6	95.3	.9	2.9a	6.2		None	
SBR55-711	18.4- 19.4	36334	5.1	1.0	92.6	1.3	13.3	2.4	0.916	None	
SBR55-712	19.4- 21.1	36335	1.7	2.4	94.6	1.3	4.2a	5.9		None	
SBR55-713	21.1- 23.3	36336	7.6	.8	90.0	1.6	20.4	1.9	.899	None	
SBR55-714	23.3- 30.6	36337	.6	1.1	97.4	.9	1.4a	2.6		None	
SBR55-715	45.0- 47.3	36338	.0	2.7	96.7	.6	None	6.5		None	
SBR55-716	59.0- 61.5	36339	.0	1.9	97.5	.6	None	4.6		None	
SBR55-717	102.4-105.2	36340	1.9	1.8	95.3	1.0	4.8a	4.3		None	
SBR55-718	105.2-106.8	36341	8.9	1.4	87.7	2.0	23.3	3.4	.916	None	
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SBR55-721	110.7-111.9	36344	11.3	1.3	85.4	2.0	29.6	3.1	.914	None	
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SBR55-733	127.1-129.4	36356	2.7	.8	96.1	.4	6.7a	1.8		None	
SBR55-734	129.4-130.4	36357	5.2	.9	93.3	.6	13.7	2.0	.915	None	
SBR55-735	130.4-132.8	36358	1.7	.8	96.8	.7	4.2a	2.0		None	
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February 24, 1955

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			Weight percent		Spent shale	Gas + loss					
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SBR55-1188	142.6-143.2	36363	2.1	1.8	95.0	1.1	5.4	4.3	.911	None	
SBR55-1189	143.2-144.2	36364	7.6	1.7	89.4	1.3	19.8	4.0	.925	None	
SBR55-1190	144.2-145.7	36365	2.0	1.1	96.4	.5	5.2	2.5	.919	None	

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Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. SBR-1502P(A) February 24, 1955