

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Rock Springs Site 9 Well No. 1 drilled in the NW1/4SW1/4NW1/4 of sec 15, T 18 N, R 106 W, Sweetwater County, Wyoming

Surface elevation 6,339.74 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss		Gal per ton		
Laramie	Their		Oil	Water				Oil <sup>1</sup> /	Water	
SBR72-392x	115.8-117.8	74948	0.6	1.0	97.3	1.1	1.7a	2.4	None	
SBR72-393x	117.8-119.1	74949	.2	1.6	97.7	.5	.5a	3.8	None	
SBR72-394x	119.1-120.6	74950	.2	2.5	96.7	.6	.5a	6.0	None	
SBR72-395x	120.8-122.0	74951	.1	3.0	96.5	.4	.3a	7.2	None	
SBR72-396x	122.0-123.0	74952	.2	2.2	97.2	.4	.5a	5.3	None	
SBR72-397x	123.0-123.7	74953	.5	1.4	98.0	.1	1.2a	3.4	None	
SBR72-398x	123.7-124.7	74954	6.6	2.4	88.9	2.1	17.3	5.8	0.916	None
SBR72-399x	124.7-125.2	74955	8.4	2.8	86.5	2.3	21.9	6.7	.919	None
SBR72-400x	125.2-126.2	74956	7.0	2.4	88.5	2.1	18.4	5.8	.915	None
SBR72-401x	126.2-127.2	74957	9.0	2.0	86.6	2.4	23.6	4.8	.907	None
SBR72-402x	127.2-128.6	74958	4.4	2.0	92.0	1.6	11.4	4.8	.920	None
SBR72-403x	128.6-129.6	74959	.5	.7	98.5	.3	1.4a	1.6	None	None
SBR72-404x	129.6-130.7	74960	.6	.6	98.4	.4	1.4a	1.6	None	None
SBR72-405x	130.8-132.0	74961	.1	1.5	98.2	.2	.3a	3.6	None	None
SBR72-406x	132.0-133.3	75107	.6	.5	98.8	.1	1.7a	1.2	None	None
SBR72-407x	133.3-134.4	74963	2.5	1.5	95.3	.7	6.5	3.6	.907	None
SBR72-408x	134.4-135.5	74964	6.6	1.7	90.0	1.7	17.2	4.1	.914	None
SBR72-409x	135.5-136.5	74965	7.4	1.8	89.1	1.7	19.6	4.3	.905	None
SBR72-410x	136.5-137.4	74966	13.1	2.4	81.7	2.8	34.0	5.9	.923	None
SBR72-411x	137.4-138.2	74967	12.5	2.3	82.3	2.4	32.4	5.5	.924	None
SBR72-412x	138.2-139.3	74968	10.6	2.5	84.6	2.3	27.6	5.9	.925	None
SBR72-413x	139.3-140.2	74969	11.9	2.3	83.2	2.6	31.2	5.5	.914	None
SBR72-414x	140.2-141.1	74970	9.8	2.2	83.5	4.5	25.9	5.3	.912	None
SBR72-415x	141.1-142.0	74971	9.9	1.7	84.5	3.9	25.8	4.1	.916	None
SBR72-416x	142.0-142.5	74972	5.7	1.2	91.1	2.0	15.1	2.9	.912	None
SBR72-417x	142.5-143.5	74973	7.2	1.7	89.4	1.7	18.9	4.1	.913	None
SBR72-418x	143.5-144.7	74974	4.4	1.6	92.5	1.5	11.8	3.7	.900	None
SBR72-419x	144.7-146.0	74975	7.0	2.4	88.8	1.8	18.5	5.8	.903	None
SBR72-420x	146.0-147.0	74976	5.4	2.7	90.1	1.8	14.3	6.5	.905	None
SBR72-421x	147.0-148.1	74977	4.4	2.1	92.4	1.1	11.8	5.0	.904	None

See footnote at end of table.

Core samples received March 29, 1972; Assays made on air-dried samples

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Samples from U.S. Bureau of Mines Rock Springs Site 9 Well No. 1 (con.)

Surface elevation 6,339.74 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 <sup>1/</sup>	Water	coke			
SBR72-422x	148.1-149.2	74978	7.2	2.6	87.9	2.3	18.9	6.2	0.913	None	
SBR72-423x	149.2-150.5	74979	8.0	2.9	86.8	2.3	20.8	7.0	.921	None	
SBR72-424x	150.5-151.5	74980	6.8	2.8	98.6	1.8	17.7	6.7	.925	None	
SBR72-425x	151.5-152.8	74981	6.9	2.3	89.0	1.8	17.8	5.5	.931	None	
SBR72-426x	152.8-154.0	74982	6.2	1.8	90.0	2.0	15.9	4.3	.931	None	
SBR72-427x	154 -155	74983	7.1	3.0	87.4	2.5	18.4	7.2	.928	None	
SBR72-428x	155.0-156.2	74984	9.7	2.4	85.8	2.1	25.3	5.8	.919	None	
SBR72-429x	156.2-157.3	74985	10.0	2.7	84.9	2.4	25.9	6.5	.921	None	
SBR72-430x	157.3-158.5	74986	8.2	2.3	87.4	2.1	21.1	5.5	.935	None	
SBR72-431x	158.5-159.6	74987	7.9	2.5	87.5	2.1	20.3	6.0	.938	None	
SBR72-432x	159.6-161.2	74988	6.5	2.6	88.9	2.0	16.5	6.2	.936	None	
SBR72-433x	161.2-162.2	74989	12.2	2.5	82.5	2.8	32.2	6.0	.911	None	
SBR72-434x	162.2-163.5	74990	10.0	1.4	85.7	2.9	26.5	3.4	.908	None	
SBR72-435x	163.5-164.7	74991	12.3	1.8	83.0	2.9	32.4	4.3	.907	None	
SBR72-436x	164.7-165.9	74992	11.9	2.0	83.3	2.8	31.5	4.8	.908	None	
SBR72-437x	165.9-166.9	74993	7.1	2.2	88.3	2.4	18.8	5.2	.905	None	
SBR72-438x	166.9-167.9	74994	9.4	2.5	85.1	3.0	25.0	6.0	.902	None	
SBR72-439x	167.9-169.0	74995	6.2	2.4	89.8	1.6	16.4	5.8	.909	None	
SBR72-440x	169.0-170.1	74996	6.3	1.3	89.7	2.7	16.5	3.1	.922	None	
SBR72-441x	170.1-171.1	74997	10.7	1.8	85.3	2.2	28.0	4.3	.918	None	
SBR72-442x	171.1-171.5	74998	10.6	5.0	81.0	3.4	28.8	12.0	.882	None	M-Bed
SBR72-443x	171.5-172.1	74999	11.8	2.5	82.2	3.5	31.1	6.0	.907	None	
SBR72-444x	172.1-173.4	75000	4.7	2.7	91.1	1.5	12.5	6.5	.905	None	
SBR72-445x	173.4-174.7	75001	9.5	1.5	86.8	2.2	25.2	3.6	.905	None	
SBR72-446x	174.7-175.9	75002	7.1	2.6	87.9	2.4	18.8	6.2	.908	None	
SBR72-447x	175.9-177.1	75003	4.0	2.1	92.4	1.5	10.9	5.0	.886	None	
SBR72-448x	177.1-178.1	75004	2.0	1.3	95.7	1.0	5.1a	3.1		None	
SBR72-449x	178.1-179.2	75005	2.1	1.0	95.8	1.1	5.7	2.4	.880	None	Bottom of core

<sup>1/</sup> "a"--indicates specific gravity estimated as 0.92.

Core samples received March 29, 1972; Assays made on air-dried samples