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OIL SHALE ASSAY BY (MODIFIED) FISCHER RETORT METHOD

Core samples from U.S. Geological Survey's Asphalt Wash Corehole 1 drilled in the
SW1/4NE1/4 of sec. 7, T 11 S, R 24 E, S.L.B. & M., Uintah County, Utah.

Surface elevation (estimated): 5,250 feet

Sample numbers	Their	Run	Yield of product		Specific gravity of oil at 60°/60°F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent	Gal. per ton			
Laramie	Ther	No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/} Water
SBR82-911	307.0-308.0	74149	3.5	0.4	95.0	1.1	9.2 1.0
SBR82-912	308.0-309.0	74151	3.3	0.5	95.3	0.9	8.7 1.2
SBR82-913	309.0-310.0	74152	4.7	0.5	93.6	1.2	12.2 1.2
SBR82-914	310.0-311.0	74153	7.4	0.5	90.6	1.5	19.5 1.2
SBR82-915	311.0-312.0	74154	3.3	0.3	95.3	1.1	8.5 0.7
SBR82-916	312.0-313.0	74155	3.6	0.4	95.2	0.8	9.3 1.0
SBR82-917	313.0-314.0	74156	3.7	0.4	95.1	0.8	9.5 1.0
SBR82-918	314.0-315.0	74157	3.5	0.2	95.4	0.9	9.2 0.5
SBR82-919	315.0-316.1	74159	3.9	0.4	95.0	0.7	10.0 1.0
SBR82-920	316.1-317.2	74160	3.1	0.3	94.8	1.8	8.1 0.7
SBR82-921	317.2-318.2	74161	2.9	0.5	95.8	0.8	7.5 1.2
SBR82-922	318.2-319.2	74163	3.4	0.3	95.1	1.2	9.0 0.7
SBR82-923	319.2-320.2	74164	2.7	0.3	95.2	1.8	7.1 0.7
SBR82-924	320.2-321.2	74165	3.3	0.4	95.0	1.3	8.7 1.0
SBR82-925	321.2-322.2	74166	2.5	0.3	95.2	2.0	6.6 0.6
SBR82-926	322.2-323.2	74167	8.2	0.6	89.0	2.2	21.3 1.4
SBR82-927	323.2-324.3	74168	3.3	0.4	95.3	1.0	8.5 1.0
SBR82-928	324.3-325.4	74169	2.8	0.6	95.7	0.9	7.2 1.3
SBR82-929	325.4-326.4	74171	1.2	0.1	97.6	1.1	3.1 0.2
SBR82-930	326.4-327.6	74172	2.7	0.1	95.9	1.3	7.1 0.2
SBR82-931	327.6-328.9	74173	3.4	0.4	94.6	1.6	8.9 1.0
SBR82-932	328.9-330.0	74175	4.0	0.5	94.5	1.0	10.3 1.2
SBR82-933	330.0-331.0	74176	3.8	0.3	94.6	1.3	9.8 0.7
SBR82-934	331.0-332.0	74177	2.7	0.5	95.5	1.3	7.1 1.2
SBR82-935	332.0-333.2	74178	1.5	0.3	96.7	1.5	4.0 0.7
SBR82-936	333.2-334.2	74179	2.4	0.5	96.0	1.1	6.3 1.2
SBR82-937	334.2-335.2	74180	2.6	0.6	96.0	0.8	6.6 1.4
SBR82-938	335.2-336.3	74181	2.4	0.5	96.4	0.7	6.1 1.2
SBR82-939	337.0-337.9	74183	2.1	0.3	96.1	1.5	5.4 0.7
SBR82-940	337.9-338.9	74184	8.2	0.6	89.2	2.0	21.4 1.4

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

Sheet 1 of 30

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Gal. per ton						
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR82-941	338.9-340.0	74185	2.9	0.5	96.1	0.5	7.5	1.2	.927	None	
SBR82-942	340.0-341.0	74187	2.6	0.6	96.2	0.6	6.6	1.4	.926	None	
SBR82-943	341.0-342.0	74188	2.2	0.7	96.8	0.3	5.8	1.7	.926	None	
SBR82-944	342.0-343.0	74189	1.9	0.8	96.2	1.1	4.9 8	1.9	.920	None	
SBR82-945	343.0-344.0	74190	2.2	0.4	95.9	1.5	5.7	1.0	.930	None	
SBR82-946	344.0-345.0	74191	1.8	0.9	96.4	0.9	4.6 8	2.2	.920	None	
SBR82-947	345.0-346.0	74192	2.1	0.6	96.4	0.9	5.6	1.4	.922	None	
SBR82-948	346.0-347.0	74193	1.9	0.7	95.9	1.5	4.8 8	1.7	.920	None	
SBR82-949	347.0-348.0	74195	1.8	0.8	96.4	1.0	4.7 8	1.9	.920	None	
SBR82-950	348.0-349.0	74196	1.8	0.4	96.1	1.7	4.7 8	1.0	.920	None	
SBR82-951	349.0-350.0	74236	1.6	0.4	96.2	1.8	4.2 8	1.0	.920	None	
SBR82-952	350.0-351.0	74199	2.2	0.5	96.3	1.0	5.7	1.2	.924	None	
SBR82-953	351.0-352.0	74200	1.8	0.6	95.8	1.8	4.7 8	1.4	.920	None	
SBR82-954	352.0-353.0	74201	2.6	0.5	96.0	0.9	6.7	1.2	.929	None	
SBR82-955	353.0-354.0	74202	1.4	0.2	96.5	1.9	3.6 8	0.5	.920	None	
SBR82-956	354.0-355.1	74203	1.4	0.8	96.4	1.4	3.7 8	1.9	.920	None	
SBR82-957	355.1-356.2	74204	2.6	0.7	95.4	1.3	6.7	1.7	.925	None	
SBR82-958	356.2-357.2	74205	3.0	0.7	95.0	1.3	7.9	1.7	.923	None	
SBR82-959	357.2-358.2	74207	9.7	0.7	87.0	2.6	25.1	1.7	.928	None	
SBR82-960	358.2-359.3	74208	3.0	0.4	95.2	1.4	7.6	1.0	.926	None	
SBR82-961	359.3-360.4	74209	2.1	0.8	95.5	1.6	5.4	1.8	.932	None	
SBR82-962	360.4-361.5	74211	2.3	0.8	95.9	1.0	5.9	1.9	.925	None	
SBR82-963	361.5-362.6	74212	1.9	0.5	96.3	1.3	5.0 8	1.2	.920	None	
SBR82-964	362.6-363.6	74213	2.2	0.7	96.2	0.9	5.7	1.7	.919	None	
SBR82-965	363.6-364.6	74214	9.3	0.5	87.5	2.7	24.3	1.2	.923	None	
SBR82-966	364.6-365.7	74215	4.0	0.5	94.5	1.0	10.3	1.2	.935	None	
SBR82-967	365.7-366.8	74216	3.4	0.6	95.3	0.7	8.8	1.4	.932	None	
SBR82-968	366.8-367.9	74217	2.9	0.7	95.7	0.7	7.5	1.6	.929	None	
SBR82-969	367.9-369.0	79219	2.2	0.4	95.5	1.9	5.8	1.0	.931	None	
SBR82-960	369.0-370.0	74220	2.8	0.5	95.3	1.4	7.2	1.2	.928	None	

See footnote at end of table.

Core samples received July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - Illustration No.: SBR-5193P; September 20, 1982.

Sheet 2 of 30

OIL SHALE ASSAY BY () MODIFIED FISCHER RETORT METHOD ()

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
			Weight		percent		Gal. per ton			Tendency to coke		
Laramie	✓ Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-971	370.0-371.0	74221	3.7	0.6	94.1	1.6	9.5	1.4	.930	None		
SBR82-972	371.0-372.0	74223	4.4	0.6	93.6	1.4	11.4	1.4	.921	None		
SBR82-973	372.0-373.0	74224	3.5	0.8	94.0	1.7	8.9	1.9	.930	None		
SBR82-974	373.0-374.0	74225	2.2	1.0	96.2	0.6	5.8	2.4	.926	None		
SBR82-975	374.0-375.0	74226	1.6	0.8	95.4	1.7	4.6 8	1.9	.920	None		
SBR82-976	375.0-376.0	74227	1.8	1.0	96.5	0.7	4.7	2.4	.920	None		
SBR82-977	376.0-377.0	74228	2.4	1.0	95.9	0.7	6.4	2.4	.925	None		
SBR82-978	377.0-378.0	74229	2.9	0.7	95.1	1.3	7.5	1.7	.927	None		
SBR82-979	378.0-379.0	74231	3.2	0.7	95.0	1.1	8.2	1.7	.925	None		
SBR82-980	379.0-380.0	74232	4.6	0.5	92.5	2.4	11.8	1.2	.925	None		
SBR82-981	380.0-381.0	74233	6.4	0.7	91.5	1.4	16.6	1.7	.922	None		
SBR82-982	381.0-382.0	74235	2.7	0.5	95.4	1.4	7.0	1.2	.927	None		
SBR82-983	382.0-383.0	74237	2.3	0.7	96.3	0.7	5.8	1.7	.927	None		
SBR82-984	383.0-384.0	74238	1.2	0.4	96.5	1.9	3.1 4	1.0	.920	None		
SBR82-985	384.0-385.3	74239	3.9	0.6	94.6	0.9	10.1	1.3	.928	None		
SBR82-986	385.3-386.7	74240	3.0	0.6	95.9	0.5	7.9	1.4	.925	None		
SBR82-987	386.7-387.9	74241	5.6	0.9	92.3	1.2	14.7	2.2	.914	None		
SBR82-988	387.9-389.0	74243	3.8	0.6	94.1	1.5	9.8	1.4	.920	None		
SBR82-989	389.0-390.0	74244	2.8	0.7	94.8	1.7	7.4	1.7	.923	None		
SBR82-990	390.0-391.0	74245	1.9	0.8	95.9	1.4	4.9	1.9	.920	None		
SBR82-991	391.0-392.0	74247	3.1	0.8	94.8	1.3	8.1	1.9	.915	None		
SBR82-992	392.0-393.0	74248	11.7	0.9	84.2	3.2	30.3	2.2	.927	None		
SBR82-993	393.0-394.1	74249	3.4	0.6	94.6	1.4	8.9	1.4	.932	None		
SBR82-994	394.1-395.2	74250	1.8	0.5	95.9	1.8	4.7 8	1.2	.920	None		
SBR82-995	395.2-396.4	74251	2.5	0.8	95.5	1.2	6.4	1.9	.925	None		
SBR82-996	396.4-397.6	74252	2.8	1.0	95.1	1.1	7.3	2.4	.918	None		
SBR82-997	397.6-398.4	74253	4.9	0.6	92.9	1.6	12.7	1.4	.924	None		
SBR82-998	398.4-399.3	74255	7.4	0.6	90.4	1.6	18.9	1.4	.931	None		
SBR82-999	399.3-400.4	74256	3.7	0.8	94.8	0.7	9.6	1.9	.919	None		
SBR82-1000	400.4-401.7	74257	2.9	1.0	95.3	0.8	7.6	2.4	.916	None		

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

Sheet 3 of 30

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Gal. per ton						
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR82-1001	401.7-403.0	74259	3.7	1.0	94.2	1.1	9.6	2.4	.915	None	
SBR82-1002	403.0-404.0	74260	10.1	1.1	86.5	2.3	26.4	2.6	.918	None	
SBR82-1003	404 -405	74261	3.7	0.8	94.8	0.7	9.5	1.9	.932	None	
SBR82-1004	405 -406	74262	3.0	0.7	95.3	1.0	7.7	1.7	.931	None	
SBR82-1005	406 -407	74263	3.5	0.8	94.9	0.8	8.9	1.9	.933	None	
SBR82-1006	407 -408	74264	4.3	0.7	94.5	0.5	11.1	1.6	.933	None	
SBR82-1007	408 -409	74265	4.8	0.5	93.4	1.3	12.3	1.2	.932	None	
SBR82-1008	409 -410	74267	4.8	0.6	93.3	1.3	12.4	1.4	.924	None	
SBR82-1009	410 -411	74300	6.3	1.0	91.0	1.7	16.4	2.4	.913	None	
SBR82-1010	411 -412	74269	4.9	0.8	93.0	1.3	12.6	1.8	.926	None	
SBR82-1011	412 -413	74271	4.8	0.5	93.4	1.3	12.4	1.2	.929	None	
SBR82-1012	413 -414	74272	4.3	0.3	93.5	1.9	11.0	0.7	.928	None	
SBR82-1013	414 -415	74273	4.9	0.4	93.5	1.2	12.7	1.0	.919	None	
SBR82-1014	415 -416	74301	4.1	0.5	94.0	1.4	10.5	1.2	.927	None	
SBR82-1015	416 -417	74275	5.3	0.5	92.8	1.4	13.8	1.2	.921	None	
SBR82-1016	417 -418	74276	5.0	0.5	93.4	1.1	13.0	1.2	.922	None	
SBR82-1017	418 -418.9	74277	5.1	0.5	93.2	1.2	13.4	1.2	.916	None	
SBR82-1018	419.3-420.0	74279	4.3	0.7	92.9	2.1	11.4	1.7	.909	None	
SBR82-1019	420 -421	74280	4.8	0.6	92.8	1.8	12.5	1.4	.909	None	
SBR82-1020	421 -422	74281	4.6	1.0	92.5	1.9	12.2	2.4	.909	None	
SBR82-1021	422 -423	74283	4.4	1.2	93.1	1.3	11.6	2.9	.906	None	
SBR82-1022	423 -424	74284	4.7	0.6	92.7	2.0	12.4	1.4	.909	None	
SBR82-1023	424 -425	74285	4.8	0.7	93.2	1.3	12.5	1.7	.915	None	
SBR82-1024	425 -426	74286	4.6	0.5	92.8	2.1	12.0	1.2	.912	None	
SBR82-1025	426 -427	74287	6.2	0.9	91.3	1.6	16.3	2.2	.916	None	
SBR82-1026	427 -428	74332	5.9	1.1	91.3	1.7	15.6	2.6	.909	None	
SBR82-1027	428 -429	74289	5.9	0.7	91.9	1.5	15.4	1.7	.919	None	
SBR82-1028	429.0-430.0	74291	10.9	0.8	85.6	2.7	28.8	1.9	.905	None	
SBR82-1029	430.0-431.0	74292	7.9	0.9	89.2	2.0	20.8	2.2	.909	None	
SBR82-1030	431.0-432.0	74293	8.4	1.0	88.8	1.8	22.3	2.4	.904	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY (IFIED FISCHER RETORT METHOD)

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Surface elevation (estimated): 5,250 feet												
Sample numbers			Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
			Weight percent				Gal. per ton			Tendency to coke		
Laramie	✓ Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1030	432.0-433.0	74292	8.2	2.0	89.0	1.8	22.3	2.4	.904	None		
SBR82-1031	432.0-433.0	74295	8.2	1.1	89.0	1.7	21.7	2.6	.904	None		
SBR82-1032	433.0-434.0	74296	5.7	1.1	92.0	1.2	14.9	2.6	.919	None		
SBR82-1033	434.0-435.0	74297	4.6	1.3	92.9	1.2	12.0	3.1	.910	None		
SBR82-1034	435.0-436.0	74298	3.5	0.9	93.8	1.8	9.4	2.2	.906	None		
SBR82-1035	436.0-437.0	74299	4.6	1.0	93.3	1.1	12.1	2.4	.912	None		
SBR82-1036	437.0-438.0	74303	4.8	1.3	92.2	1.7	12.5	3.1	.914	None		
SBR82-1037	438.0-439.0	74304	3.1	1.8	93.8	1.3	8.1	4.3	.916	None		
SBR82-1038	439.0-440.0	74305	2.8	1.3	94.7	1.2	7.3	3.1	.914	None		
SBR82-1039	440.0-441.0	74307	3.6	1.0	93.8	1.6	9.6	2.4	.910	None		
SBR82-1040	441.0-442.0	74308	9.8	0.9	85.8	3.5	25.5	2.2	.917	None		
SBR82-1041	442.0-443.0	74309	4.7	1.1	92.8	1.4	12.5	2.6	.908	None		
SBR82-1042	443.0-444.0	74344	3.3	1.0	93.6	2.1	8.6	2.4	.916	None		
SBR82-1043	444.0-445.0	74311	2.6	1.3	95.1	1.0	6.7	3.1	.916	None		
SBR82-1044	445.0-446.0	74312	3.0	1.2	95.0	0.8	7.9	2.9	.920	None		
SBR82-1045	446.0-447.0	74313	6.0	1.1	91.6	1.3	15.7	2.6	.913	None		
SBR82-1046	447.0-448.0	74315	4.2	1.0	92.7	2.1	11.0	2.4	.909	None		
SBR82-1047	448.0-449.0	74316	1.9	1.5	94.7	1.9	5.0	3.6	.920	None		
SBR82-1048	449.0-450.0	74317	1.9	1.4	95.0	1.7	4.8	3.4	.920	None		
SBR82-1049	450.0-451.0	74319	3.4	2.1	93.0	1.5	8.9	5.0	.911	None		
SBR82-1050	451.0-452.0	74320	2.3	1.3	94.6	1.8	6.0	3.1	.912	None		
SBR82-1051	452.0-453.0	74321	2.8	1.2	95.4	0.6	7.3	2.9	.920	None		
SBR82-1052	453.0-454.0	74322	10.6	1.0	84.8	3.6	27.4	2.4	.926	None		
SBR82-1053	454.0-455.0	74323	3.8	1.3	93.6	1.3	9.9	3.1	.918	None		
SBR82-1054	455.0-456.0	74324	3.0	1.7	94.2	1.1	7.9	4.1	.916	None		
SBR82-1055	456.0-457.1	74325	3.3	1.4	94.2	1.1	8.7	3.4	.918	None		
SBR82-1056	457.1-458.2	74327	2.7	1.2	94.2	1.9	7.0	2.9	.918	None		
SBR82-1057	458.2-459.3	74328	2.5	1.5	94.6	1.4	6.5	3.6	.921	None		
SBR82-1058	459.3-460.3	74329	9.7	1.3	86.5	2.5	25.3	3.1	.916	None		
SBR82-1059	460.3-461.3	74331	3.4	1.8	93.5	1.3	8.9	4.3	.923	None		

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		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 coke			
Laramie	✓ Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR82-1060	461.3-462.5	74333	2.7	1.5	94.1	1.7	7.0	3.6	.922	None	
SBR82-1061	462.5-463.7	74334	2.5	1.1	94.9	1.5	6.4	2.6	.924	None	
SBR82-1062	463.7-464.9	74335	3.3	1.2	94.1	1.4	8.5	2.9	.925	None	
SBR82-1063	464.9-465.9	74336	10.7	1.9	84.9	2.5	27.8	4.6	.925	None	
SBR82-1064	465.9-466.9	74337	4.1	0.9	93.4	1.6	10.6	2.2	.927	None	
SBR82-1065	466.9-468.0	74339	3.0	1.3	94.7	1.0	7.8	3.1	.922	None	
SBR82-1066	468.0-469.1	74340	3.2	1.7	94.1	1.0	8.5	4.1	.915	None	
SBR82-1067	469.1-470.2	74341	5.2	1.6	91.8	1.4	13.7	3.8	.913	None	
SBR82-1068	470.2-471.2	74343	16.7	1.6	78.2	3.5	43.0	3.0	.929	None	
SBR82-1069	471.2-472.2	74345	4.0	1.1	94.1	0.8	10.4	2.6	.918	None	
SBR82-1070	472.2-473.4	74346	2.0	1.1	95.1	1.8	5.2	2.6	.918	None	
SBR82-1071	473.4-474.5	74347	2.3	1.6	95.2	0.9	5.9	3.8	.919	None	
SBR82-1072	474.5-475.6	74348	3.3	1.6	93.9	1.2	8.6	3.8	.922	None	
SBR82-1073	475.6-476.7	74349	4.9	1.4	92.6	1.1	12.8	3.4	.917	None	
SBR82-1074	476.7-477.8	74351	4.6	1.2	92.5	1.7	12.2	2.9	.914	None	
SBR82-1075	477.8-478.9	74352	3.6	1.4	93.3	1.7	9.5	3.2	.920	None	
SBR82-1076	478.9-479.9	74353	4.3	1.3	92.6	1.8	11.3	3.1	.920	None	
SBR82-1077	479.9-481.0	74355	12.8	1.7	82.8	2.7	33.2	4.1	.925	None	
SBR82-1078	481.0-482.0	74356	3.4	1.3	93.9	1.4	8.9	3.1	.924	None	
SBR82-1079	482.0-483.0	74357	1.8	1.4	96.3	0.5	4.6 x	3.4	.920	None	
SBR82-1080	483.0-484.0	74358	0.7	1.1	96.5	1.7	1.7 x	2.6	.920	None	
SBR82-1081	484.0-485.0	74359	3.2	1.8	93.9	1.1	8.4	4.3	.926	None	
SBR82-1082	485.0-486.0	74360	7.2	1.4	89.9	1.5	18.7	3.2	.918	None	
SBR82-1083	486.0-487.6	74361	3.8	1.5	93.6	1.1	9.9	3.6	.919	None	
SBR82-1084	487.6-488.6	74363	3.9	1.4	93.2	1.5	10.3	3.4	.913	None	
SBR82-1085	488.6-489.7	74364	4.5	1.8	91.7	2.0	11.8	4.3	.923	None	
SBR82-1086	489.7-490.4	74365	7.7	2.0	89.2	1.1	20.2	4.8	.914	None	Impregnated tuff
SBR82-1087	490.4-491.6	74367	4.7	1.4	92.9	1.0	12.2	3.4	.922	None	
SBR82-1088	491.6-492.8	74368	4.0	1.7	93.6	0.7	10.5	4.1	.919	None	
SBR82-1089	492.8-494.0	74369	3.2	1.4	94.5	0.9	8.2	3.4	.926	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Surface elevation (estimated): 5,250 feet												
Sample numbers		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 coke					
Laramie	✓ Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1090	494.0-495.0	74370	3.1	1.3	94.4	1.2	8.1	3.1	.925	None		
SBR82-1091	495.0-496.0	74371	5.4	1.8	91.5	1.3	13.9	4.3	.926	None		
SBR82-1092	496.0-496.5	74372	9.5	2.2	87.4	0.9	24.8	5.3	.915	None	Impregnated tuff	
SBR82-1093	496.5-497.5	74373	3.8	1.6	93.3	1.3	9.8	3.8	.925	None		
SBR82-1094	497.5-498.7	74375	4.1	1.6	93.1	1.2	10.7	3.8	.925	None		
SBR82-1095	498.7-499.9	74376	3.7	1.4	93.6	1.3	9.5	3.4	.930	None		
SBR82-1096	499.9-501.0	74377	4.7	1.5	92.7	1.1	12.2	3.6	.925	None		
SBR82-1097	501.0-502.0	74379	4.0	1.4	93.3	1.3	10.4	3.4	.921	None		
SBR82-1098	502.0-503.0	74380	3.4	0.8	93.5	2.3	8.8	1.9	.923	None		
SBR82-1099	503.0-504.0	74383	4.6	1.8	92.5	1.1	12.2	4.3	.914	None		
SBR82-1100	504.0-505.0	74384	4.2	1.6	93.3	0.9	11.0	3.8	.924	None		
SBR82-1101	505.0-506.0	74385	3.9	2.0	93.2	0.9	10.3	4.8	.922	None		
SBR82-1102	506.0-507.1	74387	3.0	1.5	94.2	1.3	7.9	3.6	.922	None		
SBR82-1103	507.1-508.1	74388	5.9	0.9	91.7	1.5	15.3	2.2	.919	None		
SBR82-1104	508.1-509.3	74389	2.9	1.5	94.5	1.1	7.6	3.6	.921	None		
SBR82-1105	509.3-510.5	74391	2.1	1.4	95.7	0.8	5.4	3.4	.919	None		
SBR82-1106	510.5-511.7	74392	2.5	1.1	95.3	1.1	6.4	2.6	.922	None		
SBR82-1107	511.7-512.7	74393	6.1	1.2	91.4	1.3	15.9	2.9	.917	None		
SBR82-1108	512.7-513.7	74394	3.0	1.0	93.7	2.3	7.9	2.4	.923	None		
SBR82-1109	513.7-514.7	74395	4.0	1.7	93.1	1.2	10.4	4.1	.926	None		
SBR82-1110	514.7-515.7	74396	3.6	2.3	93.0	1.1	9.3	5.4	.924	None		
SBR82-1111	515.7-516.7	74397	6.0	1.3	91.3	1.4	15.7	3.1	.921	None		
SBR82-1112	516.7-517.7	74399	6.9	1.6	89.8	1.7	18.2	3.8	.906	None	Wavy tuff	
SBR82-1113	517.7-519.0	74400	6.1	2.0	90.3	1.6	16.2	4.8	.905	None	Wavy tuff	
SBR82-1114	519.0-520.3	74401	4.6	1.4	92.8	1.2	12.2	3.4	.911	None	Rubble	
SBR82-1115	520.3-521.5	74403	5.1	0.8	92.8	1.3	13.2	1.9	.917	None		
SBR82-1116	521.9-523.0	74404	5.7	0.5	91.3	2.5	14.8	1.2	.916	None		
SBR82-1117	523.0-524.1	74405	7.7	1.1	89.7	1.5	20.1	2.6	.913	None		
SBR82-1118	524.1-525.1	74445	4.0	1.1	93.6	1.3	10.4	2.6	.916	None		
SBR82-1119	525.1-526.2	74407	2.8	1.2	94.9	1.1	7.4	2.9	.921	None		

See footnote at end of table.

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Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
			Weight percent		Spent shale		Gal. per ton			Tendency to coke		
Laramie	✓ Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1120	526.2-527.5	74408	2.6	1.4	95.3	0.7	6.7	3.4	.918	None		
SBR82-1121	527.5-528.6	74409	2.6	1.9	94.4	1.1	6.8	4.6	.920	None		
SBR82-1122	528.6-529.7	74411	3.3	1.0	94.2	1.5	8.5	2.4	.922	None	Some rubble	
SBR82-1123	529.7-530.8	74412	2.6	0.8	95.1	1.5	6.9	1.9	.917	None		
SBR82-1124	530.8-531.9	74413	5.8	0.7	91.6	1.9	15.2	1.7	.916	None		
SBR82-1125	531.9-533.0	74415	4.1	1.1	93.5	1.3	10.8	2.6	.917	None		
SBR82-1126	533.0-534.1	74416	4.5	0.7	93.1	1.7	11.8	1.7	.916	None		
SBR82-1127	534.1-535.1	74417	15.1	1.1	80.0	3.8	38.7	2.6	.936	None		
SBR82-1128	535.1-536.4	74418	4.3	0.6	92.1	3.0	11.3	1.4	.922	None		
SBR82-1129	536.4-537.6	74419	5.5	0.7	92.1	1.7	14.3	1.7	.921	None		
SBR82-1130	537.6-538.9	74420	6.0	0.8	91.6	1.6	15.8	1.9	.917	None		
SBR82-1131	538.9-539.5	74421	15.8	1.2	79.3	3.7	40.9	2.9	.927	None		
SBR82-1132	539.5-540.4	74423	6.2	0.5	90.9	2.4	16.4	1.2	.909	None		
SBR82-1133	540.4-541.3	74424	6.3	0.7	90.3	2.7	16.7	1.7	.907	None		
SBR82-1134	541.3-542.0	74425	15.4	1.3	79.6	3.7	40.3	3.0	.914	None		
SBR82-1135	542.0-542.6	74427	5.4	0.9	91.5	2.2	14.1	2.0	.912	None		
SBR82-1136	542.6-543.8	74428	2.4	1.1	95.0	1.5	6.1	2.6	.920	None	Top A-groove	
SBR82-1137	543.8-545.0	74429	1.7	1.1	96.1	1.1	4.4 2	2.6	.920	None		
SBR82-1138	545.0-546.3	74430	0.8	0.6	97.2	1.4	2.0 2	1.4	.920	None		
SBR82-1139	546.3-547.3	74431	2.6	1.0	95.3	1.1	6.8	2.4	.928	None		
SBR82-1140	547.3-548.3	74432	1.4	0.9	96.7	1.0	3.5 2	2.2	.920	None		
SBR82-1141	548.3-549.6	74433	1.3	0.8	96.7	1.2	3.5 2	1.9	.920	None		
SBR82-1142	549.6-551.0	74435	0.7	0.9	97.6	0.8	1.8 2	2.2	.920	None		
SBR82-1143	551.0-552.3	74436	0.4	0.5	97.0	2.1	1.1 2	1.2	.920	None	Bottom A-groove	
SBR82-1144	552.3-552.9	74437	1.6	1.2	96.2	1.0	4.1 2	2.9	.920	None	Top Mahogany ZN	
SBR82-1145	552.9-553.9	74439	5.4	1.3	91.3	2.0	14.2	3.1	.908	None		
SBR82-1146	553.9-555.1	74469	4.3	0.7	93.6	1.4	11.2	1.7	.910	None		
SBR82-1147	555.1-555.9	74441	12.3	1.6	83.2	2.9	32.3	3.8	.911	None		
SBR82-1148	555.9-556.6	74442	5.5	0.6	90.8	3.1	14.5	1.4	.911	None		
SBR82-1149	556.6-557.6	74443	5.2	1.0	92.0	1.8	13.7	2.4	.906	None		

See footnote at end of table.

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OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale	
			Weight percent			Gal. per ton				Tendency to coke	Remarks
Laramie	✓ Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR82-1150	557.6-558.6	74444	3.7	1.0	94.2	1.1	9.6	2.4	.909	None	
SBR82-1151	558.6-559.6	74447	7.4	0.7	90.0	1.9	19.5	1.7	.905	None	
SBR82-1152	559.6-560.6	74448	11.2	0.8	85.0	3.0	29.0	1.9	.922	None	
SBR82-1153	560.6-561.7	74449	9.8	0.8	86.7	2.7	26.2	1.9	.901	None	
SBR82-1154	561.7-562.8	74451	18.7	1.2	76.4	3.7	49.7	2.9	.901	Slight	
SBR82-1155	562.8-563.8	74452	8.0	0.6	88.9	2.5	21.2	1.4	.900	None	
SBR82-1156	563.8-564.8	74453	6.2	0.9	90.7	2.2	16.3	2.0	.905	None	
SBR82-1157	564.8-565.9	74454	3.3	0.5	94.1	2.1	8.7	1.1	.912	None	
SBR82-1158	565.9-567.3	74455	7.3	0.9	89.6	2.2	19.2	2.2	.908	None	
SBR82-1159	567.3-568.3	74456	3.5	0.8	94.8	0.9	9.2	1.8	.909	None	
SBR82-1160	568.3-569.4	74457	4.3	0.8	93.4	1.5	11.1	1.9	.917	None	
SBR82-1161	569.4-569.8	74459	6.5	0.3	91.8	1.4	17.7	0.7	.885	None	Mahogany Marker
SBR82-1162	569.8-570.9	74460	3.8	0.7	93.4	2.1	9.9	1.7	.910	None	
SBR82-1163	570.9-572.3	74461	3.5	0.5	95.5	0.5	9.3	1.2	.905	None	
SBR82-1164	572.3-573.3	74463	5.9	0.5	92.5	1.1	15.6	1.2	.901	None	
SBR82-1165	573.3-574.2	74464	18.9	1.5	75.9	3.7	49.8	3.6	.908	None	Top rich section
SBR82-1166	574.2-575.3	74465	8.3	0.8	88.4	2.5	22.1	1.9	.902	None	
SBR82-1167	575.3-576.4	74466	4.9	0.7	92.0	2.4	12.8	1.7	.920	None	
SBR82-1168	576.4-577.4	74467	9.6	1.0	87.2	2.2	25.5	2.4	.902	None	
SBR82-1169	577.4-578.4	74468	14.9	1.1	81.0	3.0	39.4	2.6	.910	None	
SBR82-1170	578.4-579.3	74471	10.9	1.5	84.1	3.5	29.0	3.6	.899	None	
SBR82-1171	579.3-580.0	74489	24.0	1.7	69.8	4.5	63.2	4.1	.912	None	
SBR82-1172	580.0-581.0	74473	21.1	2.2	71.5	5.2	56.2	5.3	.900	None	
SBR82-1173	581.0-582.0	74475	30.7	3.0	58.9	7.4	81.7	7.2	.901	Moderate	Mahogany bed
SBR82-1174	582.0-583.0	74476	26.5	2.7	63.3	7.5	70.2	6.5	.904	Moderate	Mahogany bed
SBR82-1175	583.0-584.1	74477	24.2	2.0	68.5	5.3	63.4	4.8	.916	Heavy	
SBR82-1176	584.1-584.6	74478	9.7	0.6	85.1	4.6	25.8	1.4	.901	None	
SBR82-1177	584.6-585.5	74479	24.7	1.6	67.9	5.8	64.5	3.8	.918	Heavy	
SBR82-1178	585.5-587.0	74480	8.1	0.7	89.1	2.1	21.3	1.7	.913	None	
SBR82-1179	587.0-587.7	74481	18.0	1.0	78.3	2.5	47.3	2.4	.923	Slight	

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Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Surface elevation (estimated): 5,250 feet

Sample numbers		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 coke					
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1180	587.7-588.4	74500	5.8	0.9	92.2	1.1	15.3	2.2	.911	None		
SBR82-1181	588.4-590.1	74501	24.3	1.1	70.1	4.5	63.8	2.6	.914	None		
SBR82-1182	590.1-590.8	74502	16.0	0.9	78.8	4.3	42.7	2.2	.900	None		
SBR82-1183	590.8-591.8	74503	19.7	1.0	75.1	4.2	51.6	2.4	.913	None		
SBR82-1184	591.8-593.5	74504	6.7	0.7	91.1	1.5	17.6	1.7	.910	None		
SBR82-1185	593.5-594.5	74505	15.8	0.7	80.0	3.5	41.4	1.7	.912	None		
SBR82-1186	594.5-595.9	74507	5.0	1.0	91.5	2.5	13.3	2.4	.908	None		
SBR82-1187	595.9-596.5	74587	14.0	1.0	81.1	3.9	36.6	2.4	.919	None		
SBR82-1188	596.5-597.4	74509	18.7	1.5	75.9	3.9	48.8	3.6	.921	Slight		
SBR82-1189	597.4-597.9	74511	8.3	1.0	88.4	2.3	21.9	2.4	.914	None		
SBR82-1190	597.9-599.0	74512	4.4	0.8	93.3	1.5	11.7	1.9	.912	Slight		
SBR82-1191	599.0-600.0	74513	2.7	0.5	94.9	1.9	7.1	1.2	.912	None		
SBR82-1192	600.0-601.0	74514	5.0	0.5	91.8	2.7	13.2	1.2	.905	Moderate		
SBR82-1193	601.0-602.0	74515	13.7	1.0	82.6	2.7	36.7	2.4	.899	Slight		
SBR82-1194	602.0-603.0	74516	14.0	1.0	83.0	2.0	37.1	2.4	.907	Moderate		
SBR82-1195	603.0-604.6	74517	10.3	0.9	86.9	1.9	27.6	2.2	.896	None		
SBR82-1196	604.6-605.7	74519	8.0	0.7	88.7	2.6	21.2	1.7	.910	None		
SBR82-1197	605.7-606.7	74520	13.6	0.9	82.0	3.5	35.7	2.0	.913	None	Bottom rich section	
SBR82-1198	606.7-607.3	74521	7.7	0.6	89.4	2.3	20.4	1.4	.907	None		
SBR82-1199	607.3-608.3	74523	6.7	1.0	90.2	2.1	17.6	2.3	.913	None		
SBR82-1200	608.3-609.5	74524	3.9	0.5	93.7	1.9	10.0	1.2	.924	None		
SBR82-1201	609.5-610.5	74525	3.7	0.7	93.6	2.0	9.6	1.7	.922	None		
SBR82-1202	610.5-611.5	74526	4.5	0.7	91.9	2.9	11.8	1.7	.912	None		
SBR82-1203	611.5-612.3	74527	10.6	1.0	85.1	3.3	27.6	2.4	.923	None		
SBR82-1204	612.3-613.1	74528	4.0	0.8	93.6	1.6	10.5	1.9	.917	None		
SBR82-1205	613.1-614.8	74529	2.5	0.8	95.0	1.7	6.5	1.9	.918	None	Some rubble	
SBR82-1206	616.0-617.4	74531	1.5	0.3	96.5	1.7	4.0	0.7	.920	None		
SBR82-1207	617.4-618.5	74532	5.7	0.5	91.8	2.0	15.0	1.2	.905	None		
SBR82-1208	618.5-619.9	74533	2.0	2.0	94.9	1.1	5.2	4.8	.920	None	Fred bed: 619.0-619.4	
SBR82-1209	619.9-620.9	74535	7.1	1.9	89.0	2.0	18.4	4.6	.920	None		

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale		Remarks
✓ Laramie	Their		Weight percent		Gal. per ton		Oil	Water	Tendency to coke		
			Oil	Water	Spent shale	Gas + loss					
SBR82-1210	620.9-622.7	74536	2.5	0.7	95.6	1.2	6.6	1.7	.908	None	Some rubble
SBR82-1211	623.0-624.1	74537	11.0	0.9	85.4	2.7	28.7	2.2	.916	None	
SBR82-1212	624.1-624.8	74538	2.6	0.5	95.1	1.8	6.7	1.2	.920	None	
SBR82-1213	624.8-626.2	74539	0.9	0.8	97.1	1.2	2.5	1.9	.920	None	
SBR82-1214	626.2-627.4	74540	2.1	0.7	95.8	1.4	5.6	1.7	.915	None	
SBR82-1215	627.4-628.0	74541	6.9	0.7	90.1	2.3	18.1	1.7	.922	None	
SBR82-1216	628.0-629.3	74543	1.4	1.9	96.0	0.7	3.6	4.6	.920	None	Curly tuff
SBR82-1217	629.3-630.6	74544	3.3	0.6	94.0	2.1	8.6	1.4	.924	None	
SBR82-1218	630.6-632.7	74545	1.3	0.7	97.4	0.6	3.4	1.7	.920	None	Some rubble
SBR82-1219	632.7-633.7	74547	1.6	0.7	96.8	0.9	4.2	1.7	.920	None	
SBR82-1220	633.7-634.7	74548	1.7	0.5	96.0	1.8	4.4	1.2	.920	None	
SBR82-1221	634.7-635.8	74549	0.6	0.7	97.1	1.6	1.7	1.7	.920	None	
SBR82-1222	635.8-637.0	74550	2.1	0.6	94.7	2.6	5.5	1.4	.922	None	Bottom Mahogany ZN
SBR82-1223	637.0-638.0	74551	1.1	0.8	96.9	1.2	2.8	1.9	.920	None	Top B - groove
SBR82-1224	638.0-639.3	74552	1.0	0.6	97.8	0.6	2.7	1.4	.920	None	
	639.3-648.8		Barren Rock and Tar Sand - Not assayed				0.0	0.0	.908	0.08	
SBR82-1225	648.8-649.8	74553	0.5	0.5	98.3	0.7	1.3	1.2	.920	None	
SBR82-1226	649.8-650.8	74555	0.3	0.3	98.9	0.5	0.7	0.7	.920	None	
SBR82-1227	650.8-651.8	74556	0.3	0.4	98.7	0.6	0.9	1.0	.920	None	
SBR82-1228	651.8-652.9	74557	0.3	0.3	98.7	0.7	0.8	0.7	.920	None	
SBR82-1229	652.9-653.9	74559	0.4	0.5	98.6	0.5	0.9	1.2	.920	None	
SBR82-1230	653.9-654.9	74560	0.4	0.3	98.7	0.6	0.9	0.7	.920	None	
SBR82-1231	654.9-655.9	74561	0.7	0.5	98.4	0.4	2.0	1.1	.920	None	
SBR82-1232	655.9-657.2	74562	1.3	0.4	96.7	1.6	3.4	1.0	.920	None	
SBR82-1233	657.2-658.6	74563	0.6	1.0	97.5	0.9	1.4	2.3	.920	None	Bottom B-groove
SBR82-1234	658.6-659.9	74564	4.4	1.1	93.4	1.1	11.5	2.6	.916	None	Top (1) R6
SBR82-1235	659.9-661.0	74565	13.7	1.5	81.7	3.1	35.4	3.5	.926	None	
SBR82-1236	661.0-662.2	74567	2.9	0.4	94.6	2.1	7.8	1.0	.903	None	
SBR82-1237	662.2-663.3	74568	4.1	0.7	93.5	1.7	11.0	1.6	.906	None	
SBR82-1238	663.3-664.3	74569	8.5	0.8	88.5	2.2	22.7	1.9	.894	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		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 ^{1/}			Water	
SBR82-1239	664.3-665.3	74571	2.8	0.6	95.6	1.0	7.4	1.4	.903	None	
SBR82-1240	665.3-666.5	74572	3.0	0.7	95.1	1.2	8.1	1.7	.900	None	
SBR82-1241	666.5-667.4	74573	4.0	1.0	93.3	1.7	10.6	2.4	.900	None	
SBR82-1242	667.4-668.5	74574	2.2	0.5	95.9	1.4	5.7	1.2	.908	None	
SBR82-1243	668.5-669.6	74575	1.4	0.6	96.8	1.2	3.6 2	1.4	.920	None	
SBR82-1244	669.6-670.6	74576	1.1	0.7	97.4	0.8	2.8 2	1.7	.920	None	
SBR82-1245	670.6-671.6	74577	1.6	0.5	96.5	1.4	4.3 2	1.2	.920	None	
SBR82-1246	671.6-672.6	74579	2.9	0.6	95.2	1.3	7.7	1.4	.906	None	
SBR82-1247	672.6-673.6	74580	2.3	0.3	95.6	1.8	6.1	0.7	.907	None	
SBR82-1248	673.6-674.6	74581	2.4	0.6	95.6	1.4	6.4	1.4	.913	None	
SBR82-1249	674.6-675.8	74583	3.6	0.9	93.7	1.8	9.5	2.2	.907	None	
SBR82-1250	675.8-676.9	74584	2.3	0.5	95.2	2.0	6.0	1.2	.906	None	
SBR82-1251	676.9-678.0	74585	2.0	0.7	96.5	0.8	5.2	1.6	.906	None	
SBR82-1252	678.0-679.0	74586	2.8	0.5	94.5	2.2	7.4	1.2	.896	None	
SBR82-1253	679.0-680.0	74619	2.7	1.1	95.6	0.6	7.1	2.6	.897	None	
SBR82-1254	680.0-681.0	74592	1.3	0.5	96.2	2.0	3.5 2	1.2	.920	None	
SBR82-1255	681.0-682.0	74593	2.8	0.9	95.2	1.1	7.3	2.2	.911	None	
SBR82-1256	682.0-682.9	74594	3.0	0.8	95.2	1.0	8.0	1.9	.898	None	
SBR82-1257	682.9-684.4	74595	4.5	1.2	92.9	1.4	12.1	2.9	.901	None	
SBR82-1258	684.4-685.4	74597	2.2	1.0	95.5	1.3	5.9	2.4	.907	None	
SBR82-1259	685.4-686.6	74598	1.8	0.7	95.5	2.0	4.8 2	1.7	.920	None	
SBR82-1260	686.6-687.7	74599	4.0	1.1	93.4	1.5	10.6	2.6	.904	None	
SBR82-1261	687.7-688.5	74601	12.9	2.0	82.0	3.1	34.2	4.8	.905	None	
SBR82-1262	688.5-689.2	74602	6.7	0.7	89.6	3.0	17.8	1.7	.898	None	
SBR82-1263	689.2-689.9	74603	3.8	1.0	93.7	1.5	10.2	2.4	.903	None	
SBR82-1264	689.9-690.6	74604	6.2	1.3	90.2	2.3	16.4	3.1	.906	None	
SBR82-1265	690.6-691.4	74605	13.1	2.0	81.8	3.1	34.2	4.8	.917	None	
SBR82-1266	691.4-692.2	74606	2.1	1.0	96.3	0.6	5.6	2.4	.908	None	
SBR82-1267	692.2-692.7	74607	2.6	0.5	95.6	1.3	7.0	1.2	.898	None	
SBR82-1268	692.7-694.2	74609	3.1	0.7	94.7	1.5	8.0	1.7	.920	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		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 coke		
Laramie	✓ Their		Oil	Water	Spent shale	Gas + loss	Oil 1/	Water			
SBR82-1269	694.2-695.7	74610	6.6	1.9	89.5	2.0	17.3	4.6	.921	None	
SBR82-1270	695.7-697.3	74611	3.7	2.0	93.0	1.3	9.9	4.8	.904	None	
SBR82-1271	697.3-697.8	74613	4.3	0.7	93.9	1.1	11.5	1.7	.907	None	
SBR82-1272	697.8-699.3	74614	7.0	1.4	90.1	1.5	18.2	3.4	.920	None	
SBR82-1273	699.3-700.3	74615	2.6	0.6	96.0	0.8	6.8	1.4	.910	None	
SBR82-1274	700.3-701.2	74616	5.4	1.1	90.5	3.0	13.9	2.5	.925	None	
SBR82-1275	701.2-701.7	74617	3.0	0.5	95.9	0.6	7.9	1.2	.909	None	
SBR82-1276	701.7-702.2	74618	16.8	2.0	78.0	3.2	43.9	4.8	.916	None	Bottom (L) R6
SBR82-1277	702.2-703.2	74621	0.5	0.4	98.2	0.9	1.4 2	1.0	.920	None	
SBR82-1278	703.2-704.6	74622	0.0	0.2	99.1	0.7	0.0 Trace	0.5	.920	None	
	704.6-743.0	—	0.0 8	0.0 8	Barren Rock	Not Assayed	0.0 8	0.0 8	0.0 8	0.0 8	
SBR82-1279	743.0-745.0	74623	0.0	0.8	97.8	1.4	0.0 Trace	1.9	.920	None	
SBR82-1280	745.0-746.2	74625	0.1	2.5	96.1	1.3	0.2 2	6.0	.920	None	
SBR82-1281	746.2-748.5	74626	0.0	1.6	96.5	1.9	0.0 Trace	3.9	.920	None	
SBR82-1282	748.5-749.8	74627	0.0	2.7	95.8	1.5	0.0 Trace	6.6	.920	None	
SBR82-1283	749.8-751.0	74628	0.0	1.7	95.9	2.4	0.0 Trace	4.0	.920	None	
SBR82-1284	751.0-752.7	74629	0.0	2.6	95.8	1.6	0.0 Trace	6.2	.920	None	
SBR82-1285	752.7-753.7	74630	0.1	2.6	96.3	1.0	0.4 2	6.2	.920	None	
SBR82-1286	753.7-755.0	74631	0.3	2.3	96.3	1.1	0.9 2	5.5	.920	None	
SBR82-1287	755.0-756.4	74633	0.3	1.9	96.1	1.7	0.9 2	4.6	.920	None	
SBR82-1288	756.4-758.2	74634	0.5	0.5	97.5	1.5	1.2 2	1.2	.920	None	
SBR82-1289	758.2-758.8	74635	2.7	0.9	95.4	1.0	7.1	2.0	.922	None	
SBR82-1290	758.8-760.0	74637	11.2	2.2	84.2	2.4	28.9	5.3	.924	None	
SBR82-1291	760.0-761.0	74638	4.5	1.9	92.5	1.1	11.7	4.6	.924	None	
SBR82-1292	761.0-762.0	74639	2.0	2.9	94.1	1.0	5.3	7.0	.919	None	
SBR82-1293	762.0-763.0	74640	1.3	2.3	94.8	1.6	3.5 2	5.5	.920	None	
SBR82-1294	763.0-764.0	74641	1.5	1.0	96.8	0.7	3.9 2	2.4	.920	None	
SBR82-1295	764.0-765.0	74642	1.9	1.1	96.6	0.4	4.8 2	2.6	.920	None	
SBR82-1296	765.0-766.5	74643	3.7	2.0	92.8	1.5	9.6	4.8	.918	None	
SBR82-1297	766.5-767.7	74645	6.0	3.3	89.4	1.3	15.5	7.9	.923	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale		Remarks
✓ Their	Oil		Water	Spent shale	Gas + loss	Gal. per ton	Oil ^{1/}	Water	Tendency to coke		
Laramie											
SBR82-1298	767.7-768.8	74646	12.7	2.5	80.3	4.5	33.2	6.0	.918	None	
SBR82-1299	768.8-769.9	74647	5.8	3.0	90.3	0.9	14.9	7.2	.927	None	
SBR82-1300	769.9-771.1	74649	11.7	2.0	83.6	2.7	30.4	4.8	.924	None	
SBR82-1301	771.1-772.2	74650	5.9	1.5	89.5	3.1	15.6	3.6	.908	None	
SBR82-1302	772.2-773.3	74709	4.9	2.8	91.0	1.3	12.8	6.7	.916	None	
SBR82-1303	773.3-774.1	74710	2.8	1.6	94.9	0.7	7.3	3.8	.912	None	
SBR82-1304	774.1-775.6	74711	2.4	0.4	96.6	0.6	6.4	1.0	.907	None	
SBR82-1305	775.6-776.4	74712	0.5	1.5	97.5	0.5	1.4 g	3.6	- .920	None	
SBR82-1306	776.4-777.5	74713	0.7	2.3	96.3	0.7	1.7 g	5.5	- .920	None	
SBR82-1307	777.5-778.5	74714	0.6	2.1	96.6	0.7	1.6 g	5.0	- .920	None	
SBR82-1308	778.5-780.0	74715	0.8	2.2	96.3	0.7	2.2 g	5.3	- .920	None	
SBR82-1309	780.0-782.0	74719	0.9	1.9	96.4	0.8	2.3 g	4.6	- .920	None	
SBR82-1310	782.0-784.0	74721	0.5	2.2	96.9	0.4	1.4 g	5.3	- .920	None	
SBR82-1311	784.0-786.6	74722	0.4	1.1	97.5	1.0	1.1 g	2.6	- .920	None	
SBR82-1312	786.6-789.6	74723	0.5	1.8	97.1	0.6	1.4 g	4.3	- .920	None	
SBR82-1313	789.6-791.3	74724	0.0	1.8	96.1	2.1	0.0 Trace	4.4	- .920	None	
SBR82-1314	791.3-792.3	74725	0.3	2.5	96.1	1.1	0.7 g	6.0	- .920	None	
SBR82-1315	792.3-793.6	74729	1.0	1.8	96.4	0.8	2.7 g	4.3	- .920	None	
SBR82-1316	793.6-794.7	74730	0.7	0.4	97.9	1.0	1.9 g	1.0	- .920	None	
SBR82-1317	794.7-795.7	74731	0.8	1.2	96.9	1.1	2.0 g	2.9	- .920	None	
SBR82-1318	795.7-796.7	74733	0.8	1.8	96.9	0.5	2.0 g	4.3	- .920	None	
SBR82-1319	796.7-797.8	74734	0.5	1.8	96.5	1.2	1.3 g	4.3	- .920	None	
SBR82-1320	797.8-798.8	74735	0.4	2.4	96.3	0.9	1.2 g	5.8	- .920	None	
SBR82-1321	798.8-799.8	74736	0.0	1.7	96.8	1.5	0.0 Trace	4.1	- .920	None	
SBR82-1322	799.8-801.0	74737	0.2	2.7	96.1	1.0	0.4 g	6.5	- .920	None	
SBR82-1323	801.0-803.0	74738	0.2	2.8	96.2	0.8	0.4 g	6.7	- .920	None	
SBR82-1324	803.0-805.0	74739	0.3	2.7	96.0	1.0	0.7 g	6.5	- .920	None	
SBR82-1325	805.0-806.0	74748	0.8	2.7	94.3	2.2	2.2 g	6.5	- .920	None	
SBR82-1326	806.0-807.0	74749	0.7	3.0	95.6	0.7	1.7 g	7.2	- .920	None	
SBR82-1327	807.0-808.0	74750	0.6	3.5	94.5	1.4	1.5 g	8.4	- .920	None	

See footnote at end of table.

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Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product				Specific gravity of		Properties of		Remarks
Laramie	Their		Weight percent		Gal. per ton		Oil at 60°/60°F.		spent shale		
			Oil	Water	Spent shale	Gas + loss	Oil-1/	Water	Tendency to coke		
SBR82-1328	808.0-809.0	74751	0.6	2.9	94.7	1.8	1.6 2	7.0	- .920	None	
SBR82-1329	809.0-810.0	74753	1.3	3.3	93.5	1.9	3.3 2	7.9	- .920	None	
SBR82-1330	810.0-811.0	74754	1.0	2.1	93.6	3.3	2.6 2	5.0	- .920	None	
SBR82-1331	811.0-812.0	74755	3.9	2.5	92.2	1.4	10.1	6.0	.935	None	
	812.0-813.5	—	0.08	0.08	for sand -	Not assayed	0.08	0.08	0.08	0.08	
SBR82-1332	813.5-814.5	74757	1.6	2.2	94.9	1.3	4.3 2	5.3	- .920	None	
SBR82-1333	814.5-815.6	74758	2.6	1.7	93.2	2.5	7.0	4.0	.892	None	
SBR82-1334	815.6-816.6	74759	4.1	2.6	91.7	1.6	11.0	6.2	.891	None	
SBR82-1335	816.6-817.7	74868	1.0	0.6	96.6	1.8	2.7	1.4	- .920	None	
SBR82-1336	817.7-819.0	74869	0.2	0.1	99.4	0.3	0.4	0.2	- .920	None	
SBR82-1337	819.0-820.0	74873	0.0	1.2	97.5	1.3	0.1 2	2.9	- .920	None	
	820.0-834.0	—	0.08	0.08	Barren rock -	Not assayed	0.08	0.08	0.08	0.08	
SBR82-1338	834.0-835.0	74874	0.2	2.1	94.2	3.5	0.5 2	5.0	- .920	None	
SBR82-1339	835.0-836.0	74875	0.1	2.5	94.9	2.5	0.2 2	6.0	- .920	None	
SBR82-1340	836.0-837.0	74877	0.3	2.8	94.4	2.5	0.8 2	6.7	-	None	
SBR82-1341	837.0-838.0	74879	0.2	2.5	95.3	2.0	0.5	6.0	-	None	
SBR82-1342	838.0-839.0	74880	0.3	2.0	94.4	3.3	0.8 2	4.8	-	None	
SBR82-1343	839.0-840.0	74881	0.5	2.9	94.2	2.4	1.2 2	7.0	-	None	
SBR82-1344	840.0-841.0	74882	0.7	2.5	95.3	1.5	1.9 2	6.0	-	None	
SBR82-1345	841.0-842.0	74885	0.7	2.1	94.7	2.5	1.8 2	5.0	-	None	
SBR82-1346	842.0-843.0	74933	0.9	2.5	94.5	2.1	2.3 2	6.0	-	None	
SBR82-1347	843.0-844.0	74887	0.4	2.1	95.8	1.7	1.1 2	5.0	-	None	
SBR82-1348	844.0-845.0	74889	0.5	2.4	94.7	2.4	1.2 2	5.8	-	None	
SBR82-1349	845.0-846.0	74891	0.5	2.3	95.0	2.2	1.3 2	5.5	-	None	
SBR82-1350	846.0-847.0	74892	0.3	1.8	95.6	2.3	0.8 2	4.3	-	None	
SBR82-1351	847.0-848.0	74893	0.7	2.4	95.0	1.9	1.8 2	5.8	-	None	
SBR82-1352	848.0-849.0	74894	0.7	2.2	96.0	1.1	1.9 2	5.3	-	None	
SBR82-1353	849.0-850.5	74895	0.7	2.6	94.5	2.2	1.8 2	6.2	-	None	
SBR82-1354	850.5-851.5	74897	1.7	2.8	93.7	1.8	4.5 2	6.7	-	None	
SBR82-1355	851.5-852.6	74898	1.0	1.8	96.8	0.4	2.6 2	4.3	-	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product					Specific gravity of oil at 60°/60°F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Gal. per ton					
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water		
SBR82-1356	852.6-853.7	74899	3.2	2.8	92.4	1.6	8.3	6.7	.918	None
SBR82-1357	853.7-854.6	74901	5.9	1.3	90.6	2.2	15.6	3.1	.911	None
SBR82-1358	854.6-855.5	74903	5.4	1.3	91.8	1.5	14.1	3.1	.913	None
SBR82-1359	855.5-856.6	74904	0.6	0.6	96.7	2.1	1.5 2	1.4	-.920	None
SBR82-1360	856.6-857.6	74905	4.7	2.4	91.3	1.6	12.3	5.8	.912	None
SBR82-1361	857.6-858.6	74906	3.8	2.6	92.1	1.5	10.0	6.2	.904	None
SBR82-1362	858.6-859.7	74907	3.0	2.7	92.8	1.5	7.9	6.5	.911	None
SBR82-1363	859.7-860.8	74909	2.3	2.7	92.2	2.8	6.1	6.5	.922	None
SBR82-1364	860.8-861.9	74910	3.3	2.2	91.4	3.1	8.5	5.3	.916	None
SBR82-1365	861.9-862.9	74911	3.1	2.8	91.5	2.6	8.1	6.7	.921	None
SBR82-1366	862.9-863.9	74913	4.4	2.9	90.3	2.4	11.5	7.0	.924	None
SBR82-1367	863.9-864.5	74914	3.6	2.7	91.0	2.7	9.4	6.5	.927	None
SBR82-1368	864.5-865.4	74915	6.9	2.2	89.2	1.7	17.8	5.3	.926	None
SBR82-1369	865.4-866.8	74916	2.9	2.0	92.6	2.5	7.5	4.8	.915	None
SBR82-1370	866.8-868.3	74917	2.2	2.9	93.1	1.8	5.8	7.0	.924	None
SBR82-1371	868.3-869.3	74918	1.6	3.2	94.0	1.2	4.1 2	7.6	-.920	None
SBR82-1372	869.3-870.3	74919	3.4	2.8	92.4	1.4	8.9	6.7	.927	None
SBR82-1373	870.3-871.2	74921	3.8	2.5	91.4	2.3	9.7	6.0	.933	None
SBR82-1374	871.2-872.4	74962	2.7	3.2	92.2	1.9	6.8	7.7	.948	None
SBR82-1375	872.4-873.3	74923	0.6	3.3	94.6	1.5	1.5 2	7.9	-.920	None
SBR82-1376	873.3-873.9	74925	4.8	2.4	91.3	1.5	12.5	5.8	.925	None
SBR82-1377	873.9-875.0	74926	0.6 8	0.7 8	98.3	0.4	1.5 2	1.7 8	.920	None
SBR82-1378	875.6-876.1	74927	1.9	1.0	96.6	0.5	5.1 2	2.4 8	-.920	None
SBR82-1379	876.1-877.4	74928	1.1	0.8	97.7	0.4	2.8 2	1.9	-.920	None
SBR82-1380	877.4-878.5	74929	2.3	2.0	94.9	0.8	6.0	4.8	.907	None
SBR82-1381	878.5-879.8	74930	2.3	2.4	94.4	0.9	6.2	5.8	.909	None
SBR82-1382	879.8-880.9	74031	1.9	2.0	95.4	0.7	4.8 2	4.8	-.920	None
SBR82-1383	880.9-882.0	73034	1.6	0.7	96.7	1.0	4.3 2	1.7	-.920	None
SBR82-1384	882.0-883.5	75035	3.0	0.7	94.7	1.6	8.0	1.7	.902	None
SBR82-1385	883.5-884.7	75036	1.7	0.7	95.9	1.7	4.4 2	1.7	-.920	None

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Surface elevation (estimated): 5,250 feet

Sample numbers		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		Tendency to coke		
Laramie	✓ Their		Oil	Water						Oil ^{1/}	Water
SBR82-1386	884.7-885.7	75037	4.0	1.5	92.7	1.8	10.8	3.6	.898	None	
SBR82-1387	885.7-886.6	75038	3.4	1.7	93.6	1.3	9.0	4.1	.901	None	
SBR82-1388	886.6-887.6	75039	0.4	0.6	97.8	1.2	1.0 g	1.4	- .920	None	
SBR82-1389	887.6-888.6	75041	0.7	0.5	97.6	1.2	1.8 g	1.2	- .920	None	
SBR82-1390	888.6-889.6	75042	0.0	0.2	98.5	1.3	0.0 Trace	0.5	- .920	None	
SBR82-1391	889.6-890.6	75043	3.7	0.9	94.1	1.3	9.8	2.2	.908	None	
SBR82-1392	890.6-891.6	75045	1.2	0.6	97.1	1.1	3.2 g	1.4	- .920	None	
SBR82-1393	891.6-892.6	75046	0.0	0.5	98.1	1.4	0.0 Trace	1.3	-	None	
SBR82-1394	892.6-893.6	75047	1.4	0.7	97.0	0.9	3.5 g	1.7	-	None	
SBR82-1395	893.6-894.6	75048	0.0	0.2	98.3	1.5	0.0 Trace	0.5	-	None	
SBR82-1396	894.6-896.2	75049	1.6	0.8	96.4	1.2	4.1 g	1.9	-	None	
SBR82-1397	896.2-897.3	75050	0.5	1.0	97.8	0.7	1.4 g	2.4	-	None	
SBR82-1398	897.3-898.3	75051	1.5	1.1	96.3	1.1	3.9 g	2.6	-	None	
SBR82-1399	898.3-899.3	75053	3.4	1.2	93.6	1.8	9.2	2.9	.895	None	
SBR82-1400	899.3-900.3	75054	1.9	1.1	95.1	1.9	5.0 g	2.6	- .920	None	
SBR82-1401	900.3-901.4	75055	1.8	2.1	94.5	1.6	4.8 g	5.0	-	None	
SBR82-1402	901.4-902.6	75057	0.4	0.6	98.0	1.0	1.1 g	1.4	-	None	
SBR82-1403	902.6-903.9	75058	0.8	0.5	97.2	1.5	2.1 g	1.2	-	None	
SBR82-1404	903.9-905.0	75059	0.8	0.6	98.0	0.6	2.0 g	1.4	-	None	
SBR82-1405	905.0-906.0	75060	1.0	0.5	96.8	1.7	2.5 g	1.2	-	None	
SBR82-1406	906.0-906.6	75061	2.6	1.1	94.6	1.7	7.0	2.6	.903	None	906-911: core sequence) questionable)
SBR82-1407	906.6-907.0	75094	0.0	1.3	96.4	2.3	0.0 Trace	3.0	- .920	None	
SBR82-1408	907.0-908.0	75063	2.6	0.7	95.5	1.2	6.9	1.7	.896	None	
SBR82-1409	908.0-909.0	75065	1.8	0.7	95.9	1.6	4.8 g	1.7	- .920	None	
SBR82-1410	909.0-909.6	75066	0.8	0.5	97.8	0.9	2.1 g	1.2	-	None	
SBR82-1411	909.6-910.5	75067	0.1	0.4	98.6	0.9	0.3 g	1.0	-	None	
SBR82-1412	910.5-911.0	75069	1.7	0.6	96.7	1.0	4.5 g	1.4	-	None	
SBR82-1413	911.0-911.8	75070	0.8	0.7	97.4	1.1	2.1 g	1.7	-	None	
SBR82-1414	911.8-912.8	75071	0.5	0.5	98.4	0.6	1.4 g	1.2	-	None	
SBR82-1415	912.8-913.8	75072	0.4	0.4	98.4	0.8	1.0 g	1.0	-	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		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 coke		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR82-1416	913.8-914.8	75073	1.7	0.7	96.4	1.2	4.5 g	1.7	- .920	None	
SBR82-1417	914.8-915.6	75074	1.3	0.9	97.0	0.8	3.4 g	2.0	- .920	None	
SBR82-1418	915.6-916.7	75075	4.1	0.5	94.3	1.1	10.8	1.2	.900	None	Tar sand
SBR82-1419	916.7-917.2	75077	2.5	0.7	95.8	1.0	6.5	1.7	.911	None	
SBR82-1420	917.2-918.2	75078	1.6	1.1	95.2	2.1	4.2 g	2.6	- .920	None	
SBR82-1421	918.2-919.2	75079	1.3	2.6	95.3	0.8	3.3 g	6.2	-	None	
SBR82-1422	919.2-920.0	75081	0.5	2.6	95.9	1.0	1.2 g	6.2	-	None	
SBR82-1423	920.0-920.8	75082	0.2	2.0	96.1	1.7	0.4 g	4.8	-	None	
SBR82-1424	920.8-921.9	75083	1.5	1.8	96.0	0.7	3.9 g	4.3	-	None	
SBR82-1425	921.9-923.1	75084	0.1	1.7	96.2	2.0	0.3 g	4.1	-	None	
SBR82-1426	923.1-924.4	75085	0.2	2.5	96.5	0.8	0.6 g	6.0	-	None	
SBR82-1427	924.4-925.6	75086	0.2	2.6	96.8	0.4	0.4 g	6.2	-	None	
SBR82-1428	925.6-926.6	75087	0.3	2.2	97.0	0.5	0.7 g	5.3	-	None	
SBR82-1429	926.6-927.8	75089	0.0	2.9	96.5	0.6	0.0 Trace	6.9	-	None	
SBR82-1430	927.8-928.9	75090	0.0	2.3	95.8	1.9	0.0 Trace	5.6	-	None	
SBR82-1431	928.9-929.6	75091	0.3	2.1	96.5	1.1	0.8 g	5.0	-	None	
SBR82-1432	929.6-930.6	75093	0.3	2.1	96.8	0.8	0.7 g	5.0	-	None	
SBR82-1433	930.6-931.8	75095	0.9	1.0	97.1	1.0	2.4 g	2.4	-	None	
SBR82-1434	931.8-932.8	75096	0.7	0.6	97.2	1.5	1.7 g	1.4	-	None	
SBR82-1435	932.8-933.8	75097	3.7	1.3	93.5	1.5	9.7	3.1	.907	None	
SBR82-1436	933.8-934.4	75130	0.5	0.8	97.5	1.2	1.3 g	1.9	- .920	None	
SBR82-1437	934.4-935.0	75099	0.7	1.2	97.2	0.9	1.8 g	2.9	-	None	
SBR82-1438	935.0-935.6	75101	1.4	1.5	95.7	1.4	3.6 g	3.6	-	None	
SBR82-1439	935.6-936.8	75102	1.6	2.1	95.2	1.1	4.0 g	5.0	-	None	
SBR82-1440	936.8-938.2	75103	0.7	1.5	96.5	1.3	1.8 g	3.6	-	None	
SBR82-1441	938.2-938.8	75105	1.2	2.4	95.6	0.8	3.1 g	5.8	-	None	
SBR82-1442	938.8-939.3	75106	1.3	1.4	96.2	1.1	3.3 g	3.4	-	None	
SBR82-1443	939.3-941.0	75107	3.1	1.2	93.7	2.0	8.3	2.9	.898	None	
SBR82-1444	941.0-942.2	75108	6.5	2.0	88.9	2.6	17.3	4.8	.904	None	
SBR82-1445	942.2-943.4	75109	3.4	1.2	94.2	1.2	9.0	2.9	.899	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		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 coke	
Laramie	✓ Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR82-1446	943.4-944.8	75110	8.1	2.1	87.8	2.0	21.7	5.0	.897	None	
SBR82-1447	944.8-946.5	75111	2.5	1.8	94.3	1.4	6.8	4.3	.901	None	
SBR82-1448	946.5-947.8	75113	7.5	1.6	88.6	2.3	20.3	3.8	.897	None	
SBR82-1449	947.8-949.3	75147	7.3	2.1	87.6	3.0	19.0	5.0	.918	None	
SBR82-1450	949.3-950.3	75115	5.0	2.4	90.8	1.8	13.2	5.8	.917	None	
SBR82-1451	950.3-951.3	75117	4.4	2.2	91.6	1.8	11.5	5.3	.911	None	
SBR82-1452	951.3-952.4	75118	5.6	1.5	89.9	3.0	14.9	3.6	.907	None	
SBR82-1453	952.4-952.9	75119	5.7	0.5	91.8	2.0	15.3	1.2	.900	None	
SBR82-1454	952.9-954.2	75120	3.0	1.5	93.2	2.3	8.1	3.6	.895	None	
SBR82-1455	954.2-955.2	75121	1.9	1.6	95.2	1.3	4.9 8	3.8	- .920	None	Tar sand
SBR82-1456	955.2-956.3	75122	1.8	1.4	95.7	1.1	4.8 8	3.4	- .920	None	Tar sand
SBR82-1457	956.3-957.6	75123	3.5	1.2	93.5	1.8	9.5	2.9	.892	None	
SBR82-1458	957.6-958.7	75125	2.3	2.3	93.6	1.8	6.2	5.5	.899	None	Footage correction:
SBR82-1459	958.0-959.4	75126	2.1	2.5	93.1	2.3	5.6	6.0	.904	None	958.7=958.0
SBR82-1460	959.4-960.9	75127	3.4	2.7	92.2	1.7	8.9	6.5	.907	None	
SBR82-1461	960.9-962.5	75129	4.2	2.5	92.1	1.2	11.1	6.0	.904	None	
SBR82-1462	962.5-963.3	75173	1.7	0.6	96.9	0.8	4.5 8	1.4	- .920	None	
SBR82-1463	963.3-965.2	75174	1.5	0.7	96.7	1.1	3.8 8	1.7	- .920	None	
SBR82-1464	965.2-966.2	75175	1.7	2.5	95.2	0.6	4.3 8	6.0	- .920	None	
SBR82-1465	966.2-967.2	75177	3.1	2.3	93.5	1.1	8.3	5.5	.905	None	
SBR82-1466	967.2-968.3	75185	4.2	2.7	92.0	1.1	11.1	6.5	.908	None	
SBR82-1467	968.3-969.3	75186	7.6	2.0	87.7	2.7	20.1	4.7	.905	None	
SBR82-1468	969.3-970.3	75187	7.2	2.5	88.6	1.7	19.1	6.0	.902	None	
SBR82-1469	970.3-971.7	75189	1.0	1.7	96.6	0.7	2.7 8	4.1	- .920	None	
SBR82-1470	971.7-972.2	75191	2.5	2.2	94.6	0.7	6.6	5.2	.912	None	
SBR82-1471	972.2-973.2	75192	3.7	2.4	92.0	1.9	9.7	5.8	.909	None	
SBR82-1472	973.2-974.3	75193	3.4	3.0	92.0	1.6	9.2	7.2	.897	None	
SBR82-1473	974.3-975.5	75194	4.1	2.8	91.9	1.2	10.9	6.6	.902	None	
SBR82-1474	975.5-976.7	75195	4.6	3.1	90.5	1.8	12.2	7.3	.908	None	
SBR82-1475	976.7-978.2	75197	1.0	0.3	97.6	1.1	2.7 8	0.7	- .920	None	

See footnote at end of table.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

Sheet 19 of 30

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Surface elevation (estimated): 5,230 feet

Sample numbers			Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
			Weight percent		Gas +		Gal. per ton			Tendency to coke		
Laramie	✓ Their	Run No.	Oil	Water	Spent shale	loss	Oil ^{1/}	Water				
SBR82-1476	978.2- 979.3	75198	5.0	3.3	90.3	1.4	13.3	7.9	.901	None		
SBR82-1477	979.3- 981.0	75199	1.0	0.7	97.5	0.8	2.5 x	1.6	- .920	None		
SBR82-1478	981.0- 982.5	75201	11.0	2.3	83.7	3.0	28.9	5.5	.916	None		
SBR82-1479	982.5- 983.8	75235	2.5	3.0	93.1	1.4	6.7	7.2	.895	None		
SBR82-1480	983.8- 984.5	75203	0.4	3.6	95.6	0.4	1.0 x	8.6	- .920	None		
SBR82-1481	984.5- 985.7	75204	1.2	2.6	94.0	2.2	3.1 x	6.1	-	None		
SBR82-1482	985.7- 986.9	75205	0.8	0.6	97.9	0.7	2.1 x	1.4	-	None		
SBR82-1483	986.9- 989.3	75206	0.1	0.6	99.0	0.3	0.4 x	1.3	-	None		
SBR82-1484	989.3- 990.2	75207	1.2	1.5	96.7	0.6	3.1 x	3.5	-	None		
SBR82-1485	990.2- 991.9	75209	0.7	0.3	98.6	0.4	1.8 x	0.7	-	None		
SBR82-1486	991.9- 993.7	75210	0.1	0.4	98.7	0.8	0.2 x	1.0	-	None		
SBR82-1487	993.7- 994.4	75211	2.7	1.9	94.1	1.3	7.2	4.6	.907	None		
SBR82-1488	994.4- 996.4	75213	0.0	0.6	99.0	0.4	0.1	1.4	- .920	None		
SBR82-1489	996.4- 997.4	75214	0.8	0.4	97.8	1.0	2.1 x	1.0	- .920	None		
SBR82-1490	997.4- 998.6	75215	5.4	2.5	90.2	1.9	14.1	6.0	.909	None		
SBR82-1491	998.6- 999.5	75216	0.7	0.5	97.4	1.4	1.9 x	1.1	- .920	None		
SBR82-1492	999.5-1000.5	75217	3.2	2.3	93.4	1.1	8.4	5.5	.919	None		
SBR82-1493	1000.5-1001.5	75218	1.0	1.7	95.6	1.7	2.7 x	4.0	- .920	None		
SBR82-1494	1001.5-1002.8	75219	1.4	2.2	94.9	1.5	3.7 x	5.3	-	None		
SBR82-1495	1002.8-1003.8	75233	1.7	0.9	96.7	0.7	4.5 x	2.2	-	None		
SBR82-1496	1003.8-1005.0	75234	0.0	0.6	98.8	0.6	0.0 Trace	1.4	-	None		
SBR82-1497	1005.0-1006.2	75239	0.0	1.6	98.1	0.3	0.0 Trace	3.9	-	None		
SBR82-1498	1006.2-1007.7	75240	0.0	1.2	97.9	0.9	0.0 Trace	2.8	-	None		
SBR82-1499	1007.7-1008.8	75241	0.0	2.7	96.4	0.9	0.0 Trace	6.5	-	None		
SBR82-1500	1008.8-1009.8	75242	0.0	3.0	96.0	1.0	0.0 Trace	7.1	-	None		
SBR82-1501	1009.8-1012.0	75243	0.0	1.7	97.8	0.5	0.0 Trace	4.0	-	None		
SBR82-1502	1012.0-1013.1	75245	0.0	3.3	95.0	1.7	0.0 Trace	7.8	-	None		
SBR82-1503	1013.1-1014.3	75246	0.0	2.9	94.9	2.2	0.0 Trace	7.0	-	None		
SBR82-1504	1014.3-1015.8	75247	0.0	2.7	94.8	2.5	0.0 Trace	6.5	-	None		
SBR82-1505	1015.8-1016.8	75249	0.0	3.4	96.2	0.4	0.0 Trace	8.3	-	None		

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

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OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
	✓	Run No.	Weight percent		Gal. per ton			Tendency to coke				
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1506	1016.8-1019.7	75250	0.0	1.0	97.1	1.9	0.0 Trace	2.5	.920	None	0.5 ¹ missing	
SBR82-1507	1019.7-1021.5	75251	0.0	3.9	94.9	1.2	0.0 Trace	9.2	-	None		
SBR82-1508	1021.5-1023.3	75252	0.0	1.5	97.1	1.4	0.0 Trace	3.6	-	None		
SBR82-1509	1023.3-1024.3	75253	0.1	3.3	95.2	1.4	0.3a	7.9	-	None		
SBR82-1510	1024.3-1026.2	75254	0.0	1.7	96.8	1.5	0.0 Trace	4.0	-	None		
SBR82-1511	1026.2-1027.0	75255	0.0	3.2	94.8	2.0	0.0 Trace	7.7	-	None		
SBR82-1512	1027.0-1029.2	75257	0.0	2.4	96.3	1.3	0.0 Trace	5.7	-	None		
SBR82-1513	1029.2-1031.0	75273	0.0	4.3	93.9	1.8	0.0 Trace	10.3	-	None		
SBR82-1514	1031.0-1032.2	75259	0.0	3.0	95.8	1.2	0.0 Trace	7.3	-	None		
SBR82-1515	1032.2-1033.2	75261	0.0	2.1	96.4	1.5	0.0 Trace	5.1	-	None		
SBR82-1516	1033.2-1034.7	75262	0.0	3.8	94.4	1.8	0.0 Trace	9.2	-	None		
SBR82-1517	1034.7-1036.1	75263	0.0	4.1	94.4	1.5	0.0 Trace	9.7	-	None		
SBR82-1518	1036.1-1037.1	75264	0.0	4.2	93.5	2.3	0.0 Trace	10.1	-	None		
SBR82-1519	1037.1-1038.2	75265	0.0	4.9	93.4	1.7	0.0 Trace	11.8	-	None		
SBR82-1520	1038.2-1039.3	75266	0.0	4.8	93.4	1.8	0.0 Trace	11.6	-	None		
SBR82-1521	1039.3-1040.3	75267	0.0	4.6	93.6	1.8	0.0 Trace	11.1	-	None		
SBR82-1522	1040.3-1041.4	75269	0.0	4.7	94.1	1.2	0.0 Trace	11.3	-	None		
SBR82-1523	1041.4-1042.4	75270	0.0	3.4	93.4	3.2	0.0 Trace	8.2	-	None		
SBR82-1524	1042.4-1043.6	75271	0.0	5.2	92.0	2.8	0.0 Trace	12.4	-	None		
SBR82-1525	1043.6-1044.7	75272	0.2	4.9	93.0	1.9	0.6a	11.7	-	None		
SBR82-1526	1044.7-1045.9	75275	0.1	5.0	94.3	0.6	0.2a	12.0	-	None		
SBR82-1527	1045.9-1047.0	75276	0.0	3.8	93.5	2.7	0.0 Trace	9.1	-	None		
SBR82-1528	1047.0-1048.0	75277	0.0	4.8	93.7	1.5	0.0 Trace	11.4	-	None		
SBR82-1529	1048.0-1049.0	75278	0.0	3.4	94.2	2.4	0.0 Trace	8.2	-	None		
SBR82-1530	1049.0-1050.0	75279	0.0	5.3	92.8	1.9	0.0 Trace	12.8	-	None		
SBR82-1531	1050.0-1051.0	75281	0.0	5.2	93.6	1.2	0.0 Trace	12.5	-	None		
SBR82-1532	1051.0-1052.1	75282	0.3	4.8	92.9	2.0	0.7a	11.5	-	None		
SBR82-1533	1052.1-1053.2	75283	0.3	4.5	93.8	1.4	0.7a	10.8	-	None		
SBR82-1534	1053.2-1054.3	75285	0.1	4.5	94.2	1.2	0.3a	10.9	-	None		
SBR82-1535	1054.3-1055.3	75286	2.5	3.8	92.3	1.4	6.6	9.1	.892	None		

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product						Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
Laramie	✓ Their		Weight percent		Gal. per ton					Tendency to coke		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1536	1055.3-1056.3	75287	4.2	3.7	90.4	1.7	11.3	8.9	.903	None		
SBR82-1537	1056.3-1057.3	75288	3.2	1.0	93.9	1.9	8.4	2.4	.909	None		
SBR82-1538	1057.3-1058.4	75289	11.7	2.1	83.3	2.9	30.7	5.0	.910	None		
SBR82-1539	1058.4-1059.4	75290	8.6	2.4	87.0	2.0	22.7	5.8	.907	None		
SBR82-1540	1059.4-1060.4	75291	5.7	1.5	91.6	1.2	15.1	3.6	.899	None		
SBR82-1541	1060.4-1061.6	75293	3.9	2.8	91.1	2.2	10.3	6.7	.904	None		
SBR82-1542	1061.6-1062.7	75294	6.4	3.3	88.3	2.0	16.7	7.9	.911	None		
SBR82-1543	1062.7-1063.8	75303	1.4	2.5	93.8	2.3	3.7 2	5.9	-.920	None		
SBR82-1544	1063.8-1065.0	75297	2.7	4.0	91.4	1.9	7.2	9.6	.903	None		
SBR82-1545	1065.0-1066.0	75298	0.6	0.8	97.5	1.1	1.5 2	1.9	-.920	None		
SBR82-1546	1066.0-1067.1	75299	3.1	1.9	93.8	1.2	8.3	4.6	.897	None		
SBR82-1547	1067.1-1068.2	75300	1.9	1.5	94.6	2.0	4.9	3.6	.901	None		
SBR82-1548	1068.2-1069.2	75509	2.5	2.6	93.7	1.2	6.7	6.2	.879	None		
SBR82-1549	1069.2-1070.4	75510	1.7	2.4	94.7	1.2	4.5 2	5.8	-.920	None		
SBR82-1550	1070.4-1071.7	75555	1.1	2.7	95.2	1.0	2.8 2	6.5	-.920	None		
SBR82-1551	1071.7-1072.8	75512	1.4	3.5	94.6	0.5	3.5 2	8.4	-.920	None		
SBR82-1552	1072.8-1074.0	75556	2.4	1.0	95.6	1.0	6.4	2.4	.888	None		
SBR82-1553	1074.0-1074.7	75515	4.0	3.2	91.4	1.4	10.8	7.7	.894	None		
SBR82-1554	1074.7-1075.7	75516	4.0	2.0	92.7	1.3	10.7	4.8	.891	None		
SBR82-1555	1075.7-1076.5	75517	1.8	0.8	96.7	0.7	4.6 2	1.9	-.920	None		
SBR82-1556	1076.5-1077.1	75519	5.8	3.0	90.2	1.0	15.4	7.2	.912	None		
SBR82-1557	1077.1-1078.1	75520	5.2	1.7	89.9	3.2	13.8	4.0	.898	None		
SBR82-1558	1078.1-1079.1	75521	2.7	0.9	95.8	0.6	7.3	2.2	.893	None		
SBR82-1559	1079.1-1080.2	75522	5.1	2.7	89.8	2.4	13.4	6.5	.912	None	Footages remeasured: 1079.3-1138.1	
SBR82-1560	1080.2-1081.8	75523	1.3	0.9	97.2	0.6	3.3 2	2.2	-.920	None		
SBR82-1561	1081.8-1082.7	75524	7.6	2.8	84.8	4.8	20.1	6.7	.910	None		
SBR82-1562	1082.7-1083.2	75525	4.2	2.4	91.8	1.6	10.9	5.8	.915	None		
SBR82-1563	1083.2-1084.3	75564	2.9	1.2	94.9	1.0	7.7	2.9	.913	None		
SBR82-1564	1084.3-1085.0	75528	4.5	1.4	92.2	1.9	11.8	3.4	.914	None		
SBR82-1565	1085.0-1086.0	75529	0.8	2.5	94.0	2.7	2.0 2	6.0	-.920	None		

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale Tendency to coke		Remarks	
			Weight percent		Gal. per ton							
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1566	1086.0-1087.0	75531	1.5	2.3	94.6	1.6	4.0 a	5.5	-	.920	None	
SBR82-1567	1087.0-1088.0	75565	0.4	2.7	96.0	0.9	1.0 a	6.5	-		None	
SBR82-1568	1088.0-1089.0	75533	0.2	2.2	97.1	0.5	0.4 a	5.3	-		None	
SBR82-1569	1089.0-1090.0	75534	1.0	3.0	94.8	1.2	2.5 a	7.2	-		None	
SBR82-1570	1090.0-1091.0	75535	1.5	3.2	93.6	1.7	4.0 a	7.7	-		None	
SBR82-1571	1091.0-1092.0	75536	1.9	3.3	93.9	0.9	4.8 a	7.9	-		None	
SBR82-1572	1092.0-1093.9	75537	2.2	1.2	96.2	0.4	5.8	2.9	.900		None	
SBR82-1573	1093.9-1094.9	75539	3.2	3.1	91.9	1.8	8.3	7.4	.917		None	
SBR82-1574	1094.9-1096.0	75567	1.0	0.8	97.7	0.5	2.7 a	1.9	-	.920	None	
SBR82-1575	1096.0-1098.2	75541	0.0	0.5	97.9	1.6	0.0 Trace	1.3	-		None	
SBR82-1576	1098.2-1101.8	75543	0.0	0.7	99.3	0.0	0.0 Trace	1.6	-		None	
	1101.8-1115.5	—	Barren Rock - Not Assayed				0.0 Trace	0.0 Trace	0.0 Trace	0.0 Trace	0.0 Trace	
SBR82-1577	1115.5-1118.4	75544	0.0	0.7	99.1	0.2	0.0 Trace	1.8	-	.920	None	
SBR82-1578	1118.4-1119.7	75545	0.1	2.3	95.9	1.7	0.2 a	5.5	-		None	
SBR82-1579	1119.7-1121.7	75546	0.0	1.3	98.1	0.6	0.0 Trace	3.2	-		None	
SBR82-1580	1121.7-1123.8	75547	0.0	0.8	98.4	0.8	0.0 Trace	1.8	-		None	
SBR82-1581	1123.8-1126.1	75548	0.0	1.0	98.0	1.0	0.1	2.4	-		None	
SBR82-1582	1126.1-1128.5	75549	0.0	0.8	97.7	1.5	0.0 Trace	2.0	-		None	
SBR82-1583	1128.5-1129.7	75551	0.0	1.5	98.0	0.5	0.0 Trace	3.6	-		None	
SBR82-1584	1129.7-1130.7	75552	0.0	2.6	96.5	0.9	0.1	6.2	-		None	
SBR82-1585	1130.7-1133.1	75553	0.0	2.4	96.3	1.3	0.0 Trace	5.8	-		None	
SBR82-1586	1133.1-1133.6	75557	0.7	3.0	95.0	1.3	1.9 a	7.2	-		None	
SBR82-1587	1133.6-1134.8	75558	0.2	2.5	95.6	1.7	0.4 a	6.0	-		None	
SBR82-1588	1134.8-1136.1	75559	0.0	3.1	95.5	1.4	0.0 Trace	7.5	-		None	
SBR82-1589	1136.1-1138.1	75560	0.0	2.2	96.8	1.0	0.0 Trace	5.3	-		None	
SBR82-1590	1139.1-1140.2	75561	0.3	3.4	94.2	2.1	0.9 a	8.1	-	.920	None	
SBR82-1591	1140.2-1141.2	75563	0.2	2.8	95.5	1.5	0.4 a	6.7	-		None	
SBR82-1592	1141.2-1142.8	75568	0.1	3.4	94.9	1.6	0.4 a	8.1	-		None	
SBR82-1593	1142.8-1143.5	75569	1.0	3.8	94.9	0.3	2.5 a	9.1	-		None	
SBR82-1594	1143.5-1145.0	75570	0.2	1.1	98.5	0.2	0.5 a	2.6	-		None	

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		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 coke		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1595	1145.0-1145.9	75571	6.1	1.3	91.5	1.1	15.9	3.1	.914		None	
SBR82-1596	1145.9-1146.6	75572	4.5	2.6	92.9	1.0	9.2	6.2	.903		None	
SBR82-1597	1146.6-1147.3	75573	1.0	0.7	97.3	1.0	2.6 2	1.7	- .920		None	
SBR82-1598	1147.3-1148.2	75575	4.3	1.5	92.0	2.2	11.5	3.6	.896		None	
SBR82-1599	1148.2-1148.8	75576	2.0	0.8	96.2	1.0	5.4	1.9	.907		None	
SBR82-1600	1148.8-1150.7	75577	0.2	0.8	97.1	1.9	0.6 2	1.9	- .920		None	
SBR82-1601	1150.7-1152.7	75579	0.8	0.5	96.9	1.8	2.2 2	1.2	-		None	
SBR82-1602	1152.7-1155.7	75580	0.0	0.5	97.4	2.1	0.0 Trace	1.3	-		None	
SBR82-1603	1155.7-1157.2	75581	0.0	2.5	96.9	0.6	0.0 Trace	5.9	-		None	
SBR82-1604	1157.2-1159.2	75582	0.0	1.1	98.7	0.2	0.0 Trace	2.6	-		None	
SBR82-1605	1159.2-1161.2	75583	0.0	1.4	98.3	0.3	0.0 Trace	3.3	-		None	
SBR82-1606	1161.2-1162.3	75584	0.0	2.2	97.7	0.1	0.0 Trace	5.2	-		None	
SBR82-1607	1162.3-1163.3	75585	0.0	3.3	95.4	1.3	0.0 Trace	7.9	-		None	
SBR82-1608	1163.3-1164.9	75587	0.0	3.4	95.6	1.0	0.0 Trace	8.0	-		None	
SBR82-1609	1164.9-1166.0	75588	0.0	2.1	97.4	0.5	0.0 Trace	5.1	-		None	
SBR82-1610	1166.0-1167.0	75589	0.0	2.2	96.5	1.3	0.0 Trace	5.2	-		None	
SBR82-1611	1167.0-1168.0	75591	0.0	3.0	96.2	0.8	0.0 Trace	7.3	-		None	
SBR82-1612	1168.0-1169.0	75592	0.1	3.5	95.8	0.6	0.2 2	8.4	-		None	
SBR82-1613	1169.0-1170.5	75593	0.0	2.3	97.5	0.2	0.0 Trace	5.5	-		None	
SBR82-1614	1170.5-1174.1	75594	0.0	0.6	99.0	0.4	0.0 Trace	1.4	-		None	
SBR82-1615	1174.1-1175.3	75595	0.0	3.2	96.5	0.3	0.0 Trace	7.6	-		None	
SBR82-1616	1175.3-1176.7	75596	0.0	2.9	95.7	1.4	0.0 Trace	7.0	-		None	
SBR82-1617	1176.7-1178.0	75597	0.0	2.7	96.8	0.5	0.0 Trace	6.4	-		None	
SBR82-1618	1178.0-1180.0	75599	0.0	2.7	96.2	1.1	0.0 Trace	6.6	-		None	
SBR82-1619	1180.0-1181.7	75600	0.0	3.5	95.9	0.6	0.0 Trace	8.4	-		None	
SBR82-1620	1181.7-1183.7	75601	0.2	3.5	96.2	0.1	0.5 2	8.4	-		None	
SBR82-1621	1183.7-1184.4	75603	0.9	2.1	96.7	0.3	2.3 2	5.0	-		None	
SBR82-1622	1184.4-1185.0	75604	0.0	0.7	99.0	0.3	0.0 Trace	1.7	-		None	
SBR82-1623	1184.6-1185.4	75605	0.7	1.2	97.9	0.2	1.9 2	2.9	-		None	Footage adjustment
SBR82-1624	1185.4-1186.5	75606	1.4	1.7	95.7	1.2	3.6 2	4.1	-		None	

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product					Specific gravity of oil at 60°/60°F.		Properties of spent shale		Remarks
			Weight percent		Gal. per ton			oil at 60°/60°F.	Tendency to coke			
Laramie	✓ Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR82-1625	1186.5-1187.7	75607	1.7	2.5	94.9	0.9	4.3 2	6.0	-	.920	None	
SBR82-1626	1187.7-1189.0	75608	1.0	2.2	96.5	0.3	2.7 2	5.3	-		None	
SBR82-1627	1189.0-1190.0	75609	0.7	2.5	96.3	0.5	1.8 2	6.0	-		None	
SBR82-1628	1190.0-1191.0	75611	0.9	3.0	96.0	0.1	2.3 2	7.2	-		None	
SBR82-1629	1191.0-1192.2	75612	0.6	2.3	96.6	0.5	1.4 2	5.5	-		None	
SBR82-1630	1192.2-1193.3	75613	0.8	2.4	95.4	1.4	2.1 2	5.8	-		None	
SBR82-1631	1193.3-1194.3	75615	0.5	2.1	96.6	0.8	1.4 2	5.0	-		None	
SBR82-1632	1194.3-1197.8	75616	0.0	1.7	97.5	0.8	0.0Trace	4.0	-		None	
SBR82-1633	1197.8-1199.0	75617	0.1	2.5	96.8	0.6	0.4 2	6.0	-		None	
SBR82-1634	1199.0-1200.0	75618	0.0	3.0	96.6	0.4	0.1	7.2	-		None	
SBR82-1635	1200.0-1201.4	75619	0.2	2.7	96.3	0.8	0.5 2	6.4	-		None	
SBR82-1636	1201.4-1202.0	75620	0.4	1.5	97.6	0.5	1.1 2	3.6	-		None	
SBR82-1637	1202.0-1203.0	75621	0.5	0.6	98.4	0.5	1.3 2	1.4	-		None	
SBR82-1638	1203.0-1207.9	75623	0.5	0.2	99.1	0.2	1.2 2	0.5	-		None	
SBR82-1639	1207.9-1209.5	75624	0.0	0.7	97.3	2.0	0.0Trace	1.6	-		None	
SBR82-1640	1209.5-1210.4	75625	0.7	1.0	97.8	0.5	1.8 2	2.4	-		None	
SBR82-1641	1210.4-1214.4	75627	0.0	0.3	99.5	0.2	0.0Trace	0.8	-		None	
SBR82-1642	1214.4-1215.5	75656	0.0	2.0	98.0	0.0	0.0Trace	4.7	-		None	
SBR82-1643	1215.5-1216.3	75629	0.0	2.8	96.7	0.5	0.0Trace	6.7	-		None	
SBR82-1644	1216.3-1216.8	75630	0.0	1.6	97.9	0.5	0.0Trace	3.8	-		None	
SBR82-1645	1216.8-1218.0	75631	0.0	3.0	96.0	1.0	0.0Trace	7.3	-		None	
SBR82-1646	1218.0-1219.2	75632	0.0	3.1	96.7	0.2	0.0Trace	7.3	-		None	
SBR82-1647	1219.2-1220.2	75633	0.0	2.6	97.1	0.3	0.0Trace	6.2	-		None	
SBR82-1648	1220.2-1220.9	75635	0.0	0.4	98.9	0.7	0.0Trace	0.9	-		None	
SBR82-1649	1220.9-1224.8	75636	0.0	0.3	99.1	0.6	0.0Trace	0.7	-		None	
SBR82-1650	1224.8-1228.9	75659	0.0	1.3	98.6	0.1	0.0Trace	3.1	-		None	
SBR82-1651	1228.9-1231.3	75660	0.0	2.9	97.0	0.1	0.0Trace	7.0	-		None	
SBR82-1652	1231.3-1233.4	75661	0.0	2.3	96.9	0.8	0.0Trace	5.4	-		None	
SBR82-1653	1233.4-1237.9	75663	0.0	0.3	99.5	0.2	0.0Trace	0.8	-		None	
SBR82-1654	1237.9-1243.5	75664	0.0	1.8	98.0	0.2	0.0Trace	4.4	-	✓	None	

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		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 coke			
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil 1/	Water			
SBR82-1655	1243.5-1249.5	75665	0.0	2.5	97.3	0.2	0.0 No oil	6.0	- .920	None	
SBR82-1656	1249.5-1250.5	75666	0.0	3.3	94.6	2.1	0.0 No oil	7.8	-	None	
SBR82-1657	1250.5-1252.0	75667	0.0	0.3	99.4	0.3	0.0 No oil	0.8	-	None	
	1252.0-1260.9		Barren rock - not assayed				0.0 B	0.0 B	0.0 B	0.0 B	
SBR82-1658	1260.9-1262.9	75668	0.0	0.6	99.3	0.1	0.0 No oil	1.6	- .920	None	
SBR82-1659	1262.9-1265.8	75669	0.0	3.4	95.5	1.1	No oil	8.1	-	None	
SBR82-1660	1265.8-1267.2	75671	0.0	1.3	97.2	1.5	No oil	3.2	-	None	
SBR82-1661	1267.2-1270.4	75672	0.0	0.5	99.3	0.2	No oil	1.2	-	None	
SBR82-1662	1270.4-1272.6	75673	0.0	1.6	97.9	0.5	No oil	3.8	-	None	
SBR82-1663	1272.6-1275.2	75675	0.0	2.6	95.9	1.5	No oil	6.3	-	None	
SBR82-1664	1275.2-1278.6	75676	0.0	1.6	98.0	0.4	No oil	3.8	-	None	
SBR82-1665	1278.6-1280.8	75677	0.0	2.8	96.8	0.4	No oil	6.6	-	None	
SBR82-1666	1280.8-1282.8	75678	0.0	2.7	96.5	0.8	No oil	6.6	-	None	
SBR82-1667	1282.8-1286.5	75679	0.0	1.5	97.7	0.8	No oil	3.7	-	None	
SBR82-1668	1286.5-1289.0	75680	0.0	3.3	96.3	0.4	No oil	7.9	-	None	
SBR82-1669	1289.0-1291.0	75681	0.0	3.0	96.5	0.5	No oil	7.2	-	None	
SBR82-1670	1291.0-1292.0	75683	0.0	2.9	96.5	0.6	Trace	7.0	-	None	
SBR82-1671	1292.0-1294.4	75684	0.0	2.8	96.7	0.5	Trace	6.6	-	None	
SBR82-1672	1294.4-1297.1	75685	0.1	2.4	96.5	1.0	0.3	5.8	-	None	
SBR82-1673	1297.1-1298.3	75686	0.3	1.4	97.8	0.5	0.7	3.4	-	None	
SBR82-1674	1298.3-1300.9	75687	0.2	1.0	97.6	1.2	0.5	2.4	-	None	
SBR82-1675	1300.9-1301.9	75689	0.5	1.9	96.8	0.8	1.3	4.4	-	None	
SBR82-1676	1301.9-1303.4	75690	0.0	2.0	97.4	0.6	0.0 No oil	4.8	-	None	
SBR82-1677	1303.4-1305.5	75691	0.1	2.3	96.6	1.0	0.3	5.4	-	None	
SBR82-1678	1304.6-1305.8	75693	0.0	0.5	99.1	0.4	0.0 Trace	1.1	-	None	Footage adjustment
SBR82-1679	1305.8-1307.2	75694	0.0	0.3	99.3	0.4	0.0 Trace	0.8	-	None	
SBR82-1680	1307.2-1309.2	75695	0.0	0.4	99.4	0.2	No oil	0.9	-	None	
SBR82-1681	1309.2-1309.9	75696	0.0	2.3	96.2	1.5	Trace	5.6	-	None	
SBR82-1682	1309.9-1310.9	75697	0.0	1.5	98.1	0.4	Trace	3.6	-	None	
SBR82-1683	1310.9-1312.0	75698	0.0	2.1	97.6	0.3	No oil	4.9	-	None	

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			Yield of product						Specific Properties of			
			Weight percent			Gal. per ton			gravity of	spent shale		
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	oil at 60°/60°F.	Tendency to coke	Remarks	
SBR82-1684	1312.0-1314.2	75699	0.0	0.8	98.3	0.9	No oil	1.9	-	920	None	
SBR82-1685	1314.2-1314.7	75701	0.0	2.1	96.4	1.5	No oil	5.1	-		None	
SBR82-1686	1314.7-1315.4	75702	0.0	0.9	98.8	0.3	No oil	2.2	-		None	
SBR82-1687	1315.4-1316.1	75703	0.0	3.2	96.1	0.7	No oil	7.7	-		None	
SBR82-1688	1316.1-1317.5	75705	0.0	1.8	97.2	1.0	No oil	4.3	-		None	
SBR82-1689	1317.5-1320.0	75706	0.0	0.4	97.8	1.8	No oil	0.9	-		None	
SBR82-1690	1320.0-1321.0	75707	0.0	1.4	98.4	0.2	No oil	3.3	-		None	
SBR82-1691	1321.0-1322.1	75708	0.0	2.6	96.1	1.3	No oil	6.2	-		None	
SBR82-1692	1322.1-1323.3	75709	0.0	1.6	97.7	0.7	No oil	3.8	-		None	
SBR82-1693	1323.3-1324.5	75710	0.0	2.7	97.3	0.0	No oil	6.4	-		None	
SBR82-1694	1324.5-1325.3	75711	0.0	1.7	97.9	0.4	No oil	4.1	-		None	
SBR82-1695	1325.3-1326.4	75713	0.0	3.4	96.1	0.5	No oil	8.1	-		None	
SBR82-1696	1326.4-1328.1	75714	0.0	1.7	97.6	0.7	No oil	4.0	-		None	
SBR82-1697	1328.1-1329.0	75715	0.0	3.0	96.2	0.8	No oil	7.2	-		None	
SBR82-1698	1329.0-1330.9	75717	0.0	1.9	97.5	0.6	No oil	4.6	-		None	
SBR82-1699	1330.9-1331.9	75718	0.0	0.8	99.0	0.2	No oil	2.0	-		None	
SBR82-1700	1331.9-1333.5	75719	0.0	3.5	96.3	0.2	No oil	8.3	-		None	
SBR82-1701	1333.5-1334.5	75720	0.0	3.9	95.9	0.2	No oil	9.4	-		None	
SBR82-1702	1334.5-1338.0	75721	0.0	0.7	99.0	0.3	No oil	1.6	-		None	
SBR82-1703	1338.0-1342.0	75722	0.0	1.3	98.3	0.4	No oil	3.1	-		None	
SBR82-1704	1342.0-1343.8	75723	0.0	3.5	96.1	0.4	No oil	8.3	-		None	
SBR82-1705	1343.8-1345.7	75725	0.0	2.7	97.0	0.3	No oil	6.5	-		None	
SBR82-1706	1345.7-1347.8	75726	0.0	0.3	98.9	0.8	No oil	0.6	-		None	
SBR82-1707	1347.8-1348.3	75727	0.0	3.4	96.1	0.5	No oil	8.2	-		None	
SBR82-1708	1348.3-1349.8	75729	0.0	1.2	98.5	0.3	No oil	2.8	-		None	
SBR82-1709	1349.8-1354.0	75730	0.0	0.4	99.3	0.3	No oil	0.8	-		None	
SBR82-1710	1354.0-1358.0	75731	0.0	0.7	99.1	0.2	No oil	1.7	-		None	
SBR82-1711	1358.0-1361.0	75732	0.0	0.4	98.5	1.1	No oil	0.9	-		None	
SBR82-1712	1361.0-1364.0	75733	0.0	0.3	99.4	0.3	No oil	0.7	-		None	
	1364.0-2007.0	—	0.05 No Cores	0.05	0.05	0.05	0.05	0.05	0.05	0.05		

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			Yield of product					Specific gravity of oil at 60°/60°F.		Properties of spent shale		Remarks
Laramie	11-17 ✓ Their 1977	Run No.	Weight percent	Gal. per ton	Oil	Water	Spent shale	Gas + loss	Oil	Water	Tendency to coke	
SBR82-1713	2007.0-2008.0	75734	0.5	1.9	95.8	1.8	21.2	4.6	-	-	None	
SBR82-1714	2008.0-2009.0	75735	0.1	2.3	96.3	1.3	0.3	5.5	-	-	None	
SBR82-1715	2009.0-2010.0	75737	0.0	2.8	95.7	1.5	0.0 No oil	6.7	-	-	None	
SBR82-1716	2010.0-2011.0	75738	0.0	4.1	95.5	0.4	0.0 No oil	9.8	-	-	None	
SBR82-1717	2011.0-2012.1	75739	0.2	2.9	96.0	0.9	0.5	6.8	-	-	None	
SBR82-1718	2012.1-2013.1	75741	0.0	4.6	93.9	1.5	0.0 No oil	11.1	-	-	None	
SBR82-1719	2013.1-2014.2	75742	0.0	4.0	94.3	1.7	No oil	9.6	-	-	None	
SBR82-1720	2014.2-2015.2	75743	0.0	4.0	95.6	0.4	No oil	9.7	-	-	None	
SBR82-1721	2015.2-2015.8	75744	0.0	1.6	97.5	0.9	No oil	3.9	-	-	None	
SBR82-1722	2015.8-2016.4	75745	0.0	3.4	95.8	0.8	No oil	8.1	-	-	None	
SBR82-1723	2016.4-2016.9	75746	0.0	2.2	97.3	0.5	No oil	5.3	-	-	None	
SBR82-1724	2016.9-2020.4	75825	0.0	0.8	98.4	0.8	No oil	1.9	-	-	None	
SBR82-1725	2020.4-2023.4	75973	0.0	0.6	98.4	1.0	No oil	1.5	-	-	None	
SBR82-1726	2023.4-2024.0	75975	0.0	3.9	95.6	0.5	Trace	9.4	-	-	None	
SBR82-1727	2024.0-2025.5	75976	0.0	1.0	98.6	0.4	No oil	2.5	-	-	None	
SBR82-1728	2025.5-2026.5	75977	0.0	4.6	94.6	0.8	No oil	11.0	-	-	None	
SBR82-1729	2026.5-2027.8	75978	0.0	3.0	95.4	1.6	No oil	7.3	-	-	None	
SBR82-1730	2027.8-2029.0	75979	0.0	4.3	95.0	0.7	Trace	10.2	-	-	None	
SBR82-1731	2029.0-2030.0	75980	0.0	2.2	97.4	0.4	Trace	5.2	-	-	None	
SBR82-1732	2030.0-2031.0	75981	0.0	2.1	97.0	0.9	Trace	5.0	-	-	None	
SBR82-1733	2031.0-2032.0	75983	0.0	2.3	96.3	1.4	Trace	5.4	-	-	None	
SBR82-1734	2032.0-2033.0	75984	0.0	2.8	96.3	0.9	Trace	6.7	-	-	None	
SBR82-1735	2033.0-2034.0	75985	0.0	2.4	96.8	0.8	Trace	5.7	-	-	None	
SBR82-1736	2034.0-2035.0	75987	0.0	2.3	96.5	1.2	Trace	5.5	-	-	None	
SBR82-1737	2035.0-2036.0	75988	0.0	1.5	97.2	1.3	No oil	3.6	-	-	None	
SBR82-1738	2036.0-2037.0	75989	0.0	1.7	97.9	0.4	No oil	4.1	-	-	None	
SBR82-1739	2037.0-2038.0	75990	0.0	2.9	95.2	1.9	No oil	6.9	-	-	None	
SBR82-1740	2038.0-2039.7	75991	0.0	3.1	95.4	1.5	No oil	7.4	-	-	None	Mostly rubble
SBR82-1741	2039.7-2041.5	75992	0.0	4.3	94.9	0.8	No oil	10.2	-	-	None	Mostly rubble
SBR82-1742	2041.5-2044.0	75993	0.0	3.2	95.9	0.9	No oil	7.7	-	-	None	

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY (DIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale		Remarks
Laramie	Their		Weight percent		Gal. per ton				Tendency to coke		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
* SBR82-1743	2040.0-2041.0	75995	0.0	2.1	97.2	0.7	No oil	5.0	-	- 920	None
SBR82-1744	2041.0-2042.0	75996	0.0	1.1	97.2	1.7	No oil	2.5	-		None
SBR82-1745	2042.0-2043.0	75997	0.0	4.0	94.5	1.5	No oil	9.7	-		None
SBR82-1746	2043.0-2044.0	75999	0.0	3.7	95.8	0.5	No oil	9.0	-		None
SBR82-1747	2044.0-2045.3	76000	0.0	1.3	97.0	1.7	No oil	3.1	-		None
SBR82-1748	2045.3-2046.3	76001	0.0	3.7	95.6	0.7	Trace	9.0	-		None
SBR82-1749	2046.3-2047.5	76002	0.0	2.9	95.9	1.2	No oil	6.9	-		None
SBR82-1750	2047.5-2048.5	76003	0.0	3.2	95.6	1.2	No oil	7.8	-		None
SBR82-1751	2048.5-2049.5	76004	0.0	2.5	96.8	0.7	No oil	6.1	-		None
SBR82-1752	2049.5-2050.8	76005	0.0	3.5	95.3	1.2	No oil	8.5	-		None
SBR82-1753	2050.8-2052.5	76007	0.0	1.9	97.5	0.6	No oil	4.6	-		None
SBR82-1754	2052.5-2056.9	76008	0.0	0.9	98.3	0.8	No oil	2.1	-		None
SBR82-1755	2056.9-2057.4	76009	0.0	0.8	98.2	1.0	No oil	1.8	-		None
SBR82-1756	2057.4-2058.7	76011	0.0	2.5	96.9	0.6	No oil	6.0	-		None
SBR82-1757	2058.7-2059.7	76012	0.0	1.0	97.9	1.1	No oil	2.5	-		None
SBR82-1758	2059.7-2060.8	76013	0.0	3.8	95.5	0.7	Trace	9.2	-		None
SBR82-1759	2060.8-2061.9	76014	0.0	3.2	95.6	1.2	No oil	7.6	-		None
SBR82-1760	2061.9-2063.0	76015	0.0	3.6	95.7	0.7	Trace	8.7	-		None
SBR82-1761	2063.0-2064.0	76016	0.0	3.7	95.8	0.5	Trace	8.8	-		None
SBR82-1762	2064.0-2065.0	76017	0.0	2.4	96.9	0.7	No oil	5.7	-		None
SBR82-1763	2065.0-2066.0	76019	0.0	3.2	95.5	1.3	Trace	7.6	-		None
SBR82-1764	2066.0-2067.0	76020	0.0	3.6	95.8	0.6	Trace	8.7	-		None
SBR82-1765	2067.0-2068.0	76021	0.0	3.8	94.8	1.4	Trace	9.1	-		None
SBR82-1766	2068.0-2069.0	76023	0.0	3.3	95.9	0.8	Trace	7.9	-		None
SBR82-1767	2069.0-2070.0	76024	0.0	2.3	95.8	1.9	No oil	5.6	-		None
* SBR82-1768	2070.0-2071.0	76025	0.0	3.9	95.9	0.2	Trace	9.3	-		None
SBR82-1769	2071.0-2072.0	76026	0.0	2.4	95.3	2.3	No oil	5.7	-		None
SBR82-1770	2072.0-2073.0	76027	0.0	3.8	95.0	1.2	No oil	9.1	-		None
SBR82-1771	2073.0-2074.0	76028	0.0	3.9	95.4	0.7	Trace	9.3	-		None
SBR82-1772	2074.0-2075.0	76029	0.0	3.6	95.6	0.8	No oil	8.6	-		None

See footnote at end of table

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.

OIL SHALE ASSAY BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Geological Survey's Asphalt Wash Corehole 1

Surface elevation (estimated): 5,250 feet

Sample numbers			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		Tendency to coke		
Laramie	Their	Run No.	Oil	Water			Oil ^{1/}	Water			
SBR82-1773	2075.0-2076.0	76031	0.0	3.3	95.8	0.9	Trace	7.9	.920	None	
SBR82-1774	2076.0-2077.0	76032	0.0	3.1	94.9	2.0	No oil	7.5	-	None	
SBR82-1775	2077.0-2078.0	76033	0.0	3.2	95.2	1.6	No oil	7.6	-	None	
SBR82-1776	2078.0-2079.0	76035	0.0	3.5	95.8	0.7	Trace	8.5	-	None	
SBR82-1777	2079.0-2080.0	76036	0.0	3.5	94.6	1.9	No oil	8.3	-	None	
SBR82-1778	2080.0-2081.0	76037	0.0	4.2	94.8	1.0	No oil	10.1	-	None	
SBR82-1779	2081.0-2082.0	76038	0.0	4.7	94.4	0.9	No oil	11.1	-	None	
SBR82-1780	2082.0-2083.0	76039	0.0	3.7	94.7	1.6	No oil	8.8	-	None	
SBR82-1781	2083.0-2084.0	76040	0.0	3.3	95.8	0.9	Trace	8.0	-	None	
SBR82-1782	2084.0-2085.0	76041	0.3	3.0	95.5	1.2	0.9a	7.2	-	None	
SBR82-1783	2085.0-2086.0	76043	0.3	3.3	95.5	0.9	0.8a	7.9	-	None	
SBR82-1784	2086.0-2087.0	76044	0.2	3.4	95.2	1.2	0.4a	8.1	-	None	
SBR82-1785	2087.0-2088.0	76045	0.2	3.4	94.9	1.5	0.6a	8.1	-	None	Rubble

^{1/} "a" - indicates specific gravity estimated at .920. Oil yields estimated by test tube method: "No oil"; "Trace",
 "b" - less than 1 gallon per ton; "c" - more than 1 gallon per ton and less than 3 gallons per ton.

Core samples received: July 19, 1976; Assays made on air-dried samples.

Laramie Energy Technology Center, Laramie, Wyoming - September 20, 1982; Illustration No.: SBR-5193P.