

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A drilled in the NE1/4SE1/4NE1/4 (1,775.6 feet S/N, 407.3 feet W/E) of sec 24, T 22 N, R 109 W, Sweetwater County, Wyoming

Surface elevation 6,298.9 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Gas + Spent shale	Gal per ton		Tendency to coke		
Laramie	Their		Oil	Water			loss		Oil <sup>1/</sup>	Water
SBR75-11487	545.0-546.3	5114	0.0	3.7	95.5	0.8	Trace	8.7		None
SBR75-11488	546.3-547.5	5115	.1	3.5	95.6	.8	0.2a	8.4		None
SBR75-11489	547.5-548.6	5116	.0	3.4	96.2	.4	Trace	8.0		None
SBR75-11490	548.6-550.0	5117	.0	3.5	95.9	.5	Trace	8.4		None
SBR75-11491	550.0-552.6	5118	.0	4.5	95.1	.4	Trace	10.8		None
SBR75-11492	552.6-554.2	5119	.0	4.4	95.1	.5	Trace	10.5		None
SBR75-11493	554.2-558.1	5165	.0	2.2	97.4	.4	No Oil	5.2		None
SBR75-11494	558.1-560.0	5121	.0	2.1	97.4	.5	Trace	5.0		None
SBR75-11495	560.0-561.0	5122	.0	3.2	96.0	.7	Trace	7.7		None
SBR75-11496	561.0-562.0	5123	.1	4.2	94.7	1.0	.1a	10.1		None
SBR75-11497	562.0-563.3	5124	.1	2.9	96.8	.2	.2a	7.0		None
SBR75-11498	563.3-564.5	5125	.1	4.0	95.4	.5	.2a	9.6		None
SBR75-11499	564.5-565.8	5126	.5	2.2	96.6	.7	1.2a	5.3		None
SBR75-11500	565.8-567.1	5127	.1	2.1	97.2	.6	.2a	5.0		None Rubble
SBR75-11501	568.0-569.0	5128	1.2	4.0	93.8	1.0	3.0a	9.6		None
SBR75-11502	569.0-570.0	5129	.9	4.0	93.6	1.5	2.3a	9.6		None
SBR75-11503	570.0-572.5	5130	1.1	3.9	93.5	1.5	3.0a	9.3		None Rubble
SBR75-11504	572.5-574.8	5131	1.7	3.0	93.0	2.3	4.4a	7.2		None
SBR75-11505	574.8-576.0	5132	2.3	3.0	93.1	1.6	6.0a	7.2		None
SBR75-11506	576.0-577.0	5133	2.4	3.0	92.9	1.7	6.4	7.2	0.895	None
SBR75-11507	577.0-578.0	5134	2.2	3.5	92.6	1.7	5.8	8.4	.896	None
SBR75-11508	578.0-579.0	5135	3.5	3.3	91.6	1.6	9.0a	7.9		None
SBR75-11509	579.0-580.0	5136	2.8	4.0	91.8	1.4	7.8	9.6	.877	None
SBR75-11510	580.0-581.0	5137	4.0	3.3	91.0	1.7	10.7	7.9	.891	None
SBR75-11511	581.0-582.0	5138	2.3	3.5	93.0	1.2	6.3	8.4	.892	None
SBR75-11512	582.0-583.0	5139	2.4	3.9	92.4	1.3	6.5	9.3	.896	None
SBR75-11513	583.0-584.0	5140	2.8	3.8	92.1	1.3	7.3	9.1	.905	None
SBR75-11514	584.0-584.9	5141	4.0	3.5	90.5	2.0	10.6	8.4	.917	None
SBR75-11515	585.3-586.0	5142	3.5	3.8	90.9	1.8	9.2	9.1	.919	None
SBR75-11516	586.0-586.9	5143	1.9	2.7	94.0	1.4	4.9a	6.5		None

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 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			Tendency to coke
Laramie	Their		Oil	Water				Oil <sup>1/</sup>	Water		
SBR75-11517	586.9-588.0	5144	1.9	4.4	92.1	1.6	4.8a	10.5		None	
SBR75-11518	588.0-589.0	5145	1.5	4.0	93.1	1.4	3.9a	9.6		None	
SBR75-11519	589.0-590.0	5146	1.9	4.3	92.2	1.6	5.1a	10.3		None	
SBR75-11520	590.0-591.0	5147	1.9	4.0	92.6	1.5	4.9a	9.6		None	
SBR75-11521	591.0-592.0	5148	1.6	3.3	93.4	1.7	4.2a	7.9		None	
SBR75-11522	592.0-593.0	5149	1.7	3.5	93.5	1.3	4.4a	8.4		None	
SBR75-11523	593.0-594.0	5150	1.8	2.5	94.5	1.2	4.8a	6.0		None	
SBR75-11524	594.0-595.0	5151	2.8	3.0	92.9	1.3	7.3	7.2	0.911	None	
SBR75-11525	595.0-596.0	5152	3.3	3.4	91.7	1.6	8.6	8.1	.918	None	
SBR75-11526	596.0-597.2	5153	3.1	3.2	92.5	1.2	8.2	7.7	.910	None	
SBR75-11527	597.2-598.6	5154	3.0	2.4	93.3	1.3	7.9	5.8	.917	None	
SBR75-11528	598.6-599.6	5155	2.9	3.0	92.9	1.2	10.3	4.8	.917	None	
SBR75-11529	599.6-600.8	5156	2.3	3.0	93.6	1.1	6.0	7.2	.924	None	
SBR75-11530	600.8-602.7	5157	2.2	2.9	93.9	1.0	5.6	7.0	.926	None	
SBR75-11531	602.7-604.3	5158	1.9	2.5	94.2	1.4	4.9a	6.0		None	
SBR75-11532	604.3-605.5	5159	3.2	2.2	93.6	1.0	8.3	5.3	.917	None	
SBR75-11533	605.5-606.8	5160	4.2	2.0	90.5	3.3	10.9	4.8	.918	None	
SBR75-11534	606.8-608.0	5161	4.5	2.8	90.6	2.1	11.7	6.7	.925	None	
SBR75-11535	608.0-609.0	5162	5.4	1.9	90.5	2.2	14.2	4.6	.912	None	
SBR75-11536	609.0-610.0	5163	6.8	2.1	88.8	2.3	18.1	5.0	.901	None	
SBR75-11537	610.0-611.0	5164	6.3	2.2	89.1	2.4	16.3	5.3	.921	None	
SBR75-11538	611.0-612.0	5166	6.7	1.9	88.5	2.9	17.4	4.6	.925	None	
SBR75-11539	612.0-613.0	5167	8.8	1.4	86.8	3.0	23.0	3.4	.911	None	
SBR75-11540	613.0-613.6	5172	6.0	1.2	90.9	1.9	15.7	2.9	.916	None	
SBR75-11541	613.6-614.4	5173	9.1	2.3	86.0	2.6	24.1	5.5	.909	None	
SBR75-11542	614.4-614.9	5174	1.3	2.9	94.2	1.6	3.5a	7.0		None	
SBR75-11543	614.9-615.8	5175	4.6	1.2	92.4	1.8	12.2	2.9	.914	None	
SBR75-11544	615.8-616.9	5176	11.4	1.7	84.0	2.9	30.4	4.1	.901	None	Bottom-Laney Member
SBR75-11545	616.9-618.1	5177	8.2	1.1	87.4	3.3	21.5	2.6	.911	None	Top-Wilkins Peak
SBR75-11546	618.1-619.3	5222	7.1	1.7	88.4	2.8	18.6	4.1	.914	None	Member

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 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 <sub>1</sub> /	Water
SBR75-11547	619.3-620.4	5223	6.2	1.7	90.1	2.0	16.3	4.1	0.912	None
SBR75-11548	620.4-621.4	5224	5.5	1.8	91.0	1.7	14.4	4.3	.918	None
SBR75-11549	621.4-622.4	5181	3.0	1.0	95.0	1.2	7.8	2.0	.919	None
SBR75-11550	622.4-623.8	5225	.5	.5	97.7	1.3	1.3a	1.2		None
SBR75-11551	623.8-625.6	5183	.1	3.2	96.2	.5	.3a	7.7		None
SBR75-11552	625.6-626.7	5184	10.4	1.9	85.0	2.7	27.2	4.6	.914	None
SBR75-11553	626.7-627.9	5185	10.7	2.1	84.0	3.2	28.1	5.0	.913	None
SBR75-11554	627.9-629.0	5186	4.5	2.7	91.5	1.3	11.7	6.5	.915	None
SBR75-11555	629.0-630.0	5187	1.0	2.1	96.6	.3	2.0a	5.0		None
SBR75-11556	630.0-631.0	5188	1.2	1.7	96.7	.4	3.2a	4.1		None
SBR75-11557	631.0-632.0	5189	2.2	.5	96.2	1.1	5.8a	1.2		None
SBR75-11558	632.0-633.0	5190	3.4	.9	94.3	1.4	8.8	2.2	.915	None
SBR75-11559	633.0-634.0	5191	2.2	1.1	95.6	1.1	5.8	2.6	.916	None
SBR75-11560	634.0-635.4	5192	1.4	1.3	96.5	.8	3.6a	3.1		None
SBR75-11561	635.4-636.5	5193	1.0	.9	97.4	.7	2.5a	2.2		None
SBR75-11562	636.5-637.9	5194	.9	1.0	97.4	.7	2.3a	2.4		None
SBR75-11563	637.9-639.5	5195	2.2	.9	95.9	1.0	5.7	2.2	.918	None
SBR75-11564	639.5-640.6	5196	1.4	1.1	96.4	1.1	3.7a	2.6		None
SBR75-11565	640.6-641.8	5197	.5	1.4	97.3	.8	1.4a	3.4		None
SBR75-11566	641.8-643.0	5198	3.0	1.0	94.2	1.8	7.8	2.4	.916	None
SBR75-11567	643.0-644.0	5199	2.3	1.1	95.3	1.3	5.9	2.6	.917	None
SBR75-11568	644.0-645.4	5200	3.9	1.6	92.7	1.8	10.2	3.8	.915	None
SBR75-11569	645.4-646.8	5201	6.3	1.8	89.6	2.3	16.5	4.3	.910	None
SBR75-11570	646.8-468.2	5202	4.2	1.5	92.2	2.1	11.0	3.6	.913	None
SBR75-11571	648.2-649.6	5203	1.7	1.3	95.6	1.4	4.5a	3.1		None
SBR75-11572	649.6-650.9	5204	.5	.7	98.0	.8	1.3a	1.7		None
SBR75-11573	650.9-652.0	5205	.6	1.8	96.6	1.0	1.5a	4.3		None
SBR75-11574	652.0-653.4	5206	1.4	.8	96.1	1.7	3.8a	1.9		None
SBR75-11575	653.4-654.8	5207	1.9	1.8	95.0	1.3	4.8a	4.3		None
SBR75-11576	654.8-655.8	5208	4.3	1.3	92.3	2.1	11.4	3.1	.910	None

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 feet

Sample number	Run No.	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks	
		Weight percent		Spent shale	Gas + loss	Gal per ton					
Laramie	Their	Oil	Water					Oil <sup>1/</sup>	Water		
SBR75-11577	655.8-676.9	5209	7.0	2.3	88.2	2.5	18.3	5.5	0.912	None	
SBR75-11578	656.9-667.9	5210	5.5	1.8	90.4	2.3	14.5	4.3	.912	None	
SBR75-11579	657.9-660.0	5211	.1	1.0	98.5	.4	.2a	2.4		None	
SBR75-11580	660.0-663.0	5212	.0	1.0	98.3	.7	.1a	2.4		None	
SBR75-11581	663.0-666.0	5213	.1	1.0	98.4	.5	.3a	2.3		None	
SBR75-11582	666.0-667.0	5214	.0	5.0	94.0	1.0	Trace	12.1		None	
SBR75-11583	667.0-668.7	5215	.0	4.3	95.0	.7	Trace	10.2		None	
SBR75-11584	668.7-669.7	5216	2.0	1.1	94.9	2.0	5.3a	2.6		None	
SBR75-11585	669.7-670.7	5217	2.7	1.2	94.3	1.8	7.1	2.9	.920	None	
SBR75-11586	670.7-671.7	5218	3.6	1.2	93.2	2.0	9.3	2.9	.922	None	
SBR75-11587	671.7-672.8	5219	8.2	1.8	86.6	3.4	21.6	4.3	.914	None	
SBR75-11588	672.8-673.8	5220	10.2	2.1	84.3	3.4	26.9	5.0	.910	None	
SBR75-11589	673.8-675.2	5221	6.6	1.6	89.2	2.6	17.4	3.8	.909	None	
SBR75-11590	675.2-676.4	5226	3.0	1.9	93.4	1.7	7.8	4.6	.922	None	
SBR75-11591	676.4-677.6	5227	4.6	1.9	91.2	2.3	11.9	4.6	.913	None	
SBR75-11592	677.6-678.8	5228	4.9	.9	91.8	2.4	13.0	2.2	.911	None	
SBR75-11593	678.8-680.4	5229	2.8	.9	94.7	1.6	7.2	2.2	.915	None	
SBR75-11594	680.4-682.0	5230	2.7	.7	94.9	1.7	7.1	1.7	.916	None	
SBR75-11595	682.0-683.0	5231	7.0	1.0	89.4	2.6	18.5	2.4	.913	None	
SBR75-11596	683.0-684.1	5232	3.1	1.6	94.1	1.2	8.2	3.8	.911	None	
SBR75-11597	684.1-685.3	5233	3.0	.8	95.2	1.0	7.8	1.9	.909	None	
SBR75-11598	685.3-686.5	5234	17.4	1.8	76.0	4.8	45.8	4.3	.908	Slight	
SBR75-11599	686.5-688.2	5235	13.3	1.5	81.0	4.2	35.2	3.6	.910	Slight	
SBR75-11600	688.2-689.7	5236	4.1	1.8	92.3	1.8	10.8	4.3	.910	None	
SBR75-11601	689.7-691.2	5237	3.6	.7	93.8	1.9	9.3	1.7	.939	None	
SBR75-11602	691.2-692.6	5238	4.5	.7	93.1	1.7	11.7	1.7	.929	None	
SBR75-11603	692.6-693.6	5239	3.2	.6	95.2	1.0	8.3	1.4	.920	None	
SBR75-11604	693.6-695.0	5240	1.5	.5	97.0	1.0	3.8a	1.2		None	
SBR75-11605	695.0-696.3	5241	1.7	.5	96.9	.9	4.5a	1.2		None	
SBR75-11606	696.3-697.3	5242	2.9	.5	95.7	.9	7.5	1.2	.922	None	

See footnote at end of table.

Core samples received July 18, 1975; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 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			Tendency to coke
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water	
SBR75-11607	697.3-698.3	5243	8.4	0.7	87.7	3.2	22.0	1.7	0.917	None	
SBR75-11608	698.3-699.5	5244	12.5	1.5	82.7	3.3	32.9	3.6	.909	None	
SBR75-11609	699.5-700.7	5245	4.1	.4	94.6	.9	11.0	1.0	.901	None	
SBR75-11610	700.7-701.9	5246	3.5	.4	94.9	1.2	9.2	1.0	.909	None	
SBR75-11611	701.9-702.9	5247	10.7	.5	85.8	3.0	28.0	1.2	.917	None	
SBR75-11612	702.9-703.9	5297	11.0	1.2	84.5	3.3	28.9	2.9	.909	None	
SBR75-11613	703.9-704.9	5249	7.7	1.5	89.0	1.8	20.4	3.6	.902	None	layered tuff:
SBR75-11614	704.9-705.9	5250	5.2	1.4	91.1	2.3	13.6	3.4	.915	None	703.9-704.2
SBR75-11615	705.9-707.2	5251	1.8	.6	96.4	1.2	4.7a	1.4		None	
SBR75-11616	707.2-708.5	5252	2.3	.6	95.6	1.5	6.0	1.4	.916	None	
SBR75-11617	708.5-709.6	5253	3.2	.5	94.6	1.7	8.5	1.2	.913	None	
SBR75-11618	709.6-710.4	5254	15.5	1.6	77.5	5.4	40.8	3.8	.908	Slight	
SBR75-11619	710.4-711.4	5255	10.3	3.0	82.7	4.0	27.3	7.2	.909	None	
SBR75-11620	711.4-712.6	5256	3.0	.2	95.1	1.7	8.0	.5	.908	None	
SBR75-11621	712.6-713.7	5257	1.1	.5	97.1	1.3	2.9a	1.2		None	
SBR75-11622	713.7-714.7	5258	3.9	.5	93.8	1.8	10.2	1.2	.915	None	
SBR75-11623	714.7-715.7	5259	19.9	1.6	71.5	7.0	52.4	3.8	.909	Moderate	
SBR75-11624	715.7-716.7	5260	12.5	.9	82.4	4.2	32.9	2.2	.909	Slight	
SBR75-11625	716.7-717.8	5261	3.2	.5	94.1	2.2	8.5	1.2	.913	None	
SBR75-11626	717.8-718.9	5262	1.5	.6	96.9	1.0	3.8a	1.4		None	
SBR75-11627	718.9-719.9	5263	2.6	.5	95.8	1.1	6.8	1.2	.921	None	
SBR75-11628	719.9-720.9	5264	1.4	.3	97.0	1.3	3.5a	.7		None	
SBR75-11629	720.9-722.5	5265	.8	.6	97.5	1.1	2.1a	1.4		None	
SBR75-11630	722.5-723.5	5266	16.5	1.5	76.2	5.8	43.5	3.6	.910	Slight	
SBR75-11631	723.5-724.7	5267	20.5	1.8	71.1	6.6	54.1	4.3	.909	Moderate	
SBR75-11632	724.7-725.7	5268	21.7	1.8	70.1	6.4	57.3	4.3	.907	Moderate	
SBR75-11633	725.7-726.8	5269	6.0	.7	90.5	2.8	15.8	1.8	.910	None	
SBR75-11634	726.8-728.0	5270	1.7	.4	96.6	1.3	4.5a	1.0		None	
SBR75-11635	728.0-729.0	5271	2.1	.6	95.9	1.4	5.6	1.4	.911	None	
SBR75-11636	729.0-730.0	5272	2.7	1.1	94.7	1.5	7.1	2.6	.915	None	

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 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			Tendency to coke
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water	
SBR75-11637	730.0-731.0	5273	3.5	0.5	93.6	2.4	9.1	1.2	0.914	None	
SBR75-11638	731.0-732.0	5274	6.6	.8	89.4	3.2	17.3	1.9	.908	None	
SBR75-11639	732.0-733.0	5275	9.5	1.0	85.4	4.1	25.1	2.4	.904	None	
SBR75-11640	733.0-734.1	5276	7.5	.9	88.4	3.2	19.6	2.2	.910	None	
SBR75-11641	734.1-735.2	5277	3.0	.5	94.4	2.1	7.8	1.3	.912	None	
SBR75-11642	735.2-736.2	5278	1.7	.3	96.5	1.5	4.3a	.7		None	
SBR75-11643	736.2-737.3	5279	12.9	1.0	81.4	4.7	34.3	2.4	.904	Slight	
SBR75-11644	737.3-738.4	5280	18.5	1.4	75.6	4.5	49.2	3.4	.903	Slight	
SBR75-11645	738.4-739.5	5281	5.0	.9	91.7	2.4	13.3	2.0	.911	None	
SBR75-11646	739.5-740.5	5282	1.5	.6	97.1	.8	4.0a	1.4		None	
SBR75-11647	740.5-741.5	5283	6.6	1.0	88.8	3.6	17.3	2.4	.910	None	
SBR75-11648	741.5-742.5	5284	8.2	1.0	88.1	2.7	21.8	2.4	.902	None	
SBR75-11649	742.5-743.6	5285	9.6	1.0	85.4	4.0	25.8	2.4	.897	None	
SBR75-11650	743.6-745.4	5286	2.9	.7	94.9	1.5	7.5a	1.7		None	
SBR75-11651	745.4-746.5	5287	3.9	1.5	92.9	1.7	10.3	2.6	.909	None	
SBR75-11652	746.5-747.7	5288	6.2	.9	90.3	2.6	16.2	2.2	.914	None	
SBR75-11653	747.7-748.7	5289	.7	.8	97.5	1.0	1.9a	1.9		None	main tuff
SBR75-11654	748.7-749.7	5290	3.6	.6	93.6	2.2	9.3	1.4	.918	None	
SBR75-11655	749.7-750.7	5291	1.8	.5	96.5	1.2	4.7a	1.2		None	
SBR75-11656	750.7-751.7	5292	1.8	.5	97.0	.7	4.8a	1.2		None	
SBR75-11657	751.7-752.7	5345	2.8	.6	95.2	1.4	7.3	1.6	.904	None	
SBR75-11658	752.7-753.7	5294	5.3	.7	91.9	2.1	14.1	1.7	.907	None	
SBR75-11659	753.7-754.7	5295	5.8	.8	90.0	3.4	15.4	1.9	.902	None	
SBR75-11660	754.7-756.0	5296	4.5	.7	92.8	2.0	11.9	1.7	.903	None	
SBR75-11661	756.0-757.0	5298	4.9	.8	92.0	2.3	12.9	1.9	.911	None	
SBR75-11662	757.0-758.0	5299	3.6	.9	93.8	1.7	9.5	2.2	.915	None	
SBR75-11663	758.0-759.0	5300	3.0	1.0	94.0	2.0	8.0	2.4	.916	None	
SBR75-11664	759.0-760.9	5301	2.2	.8	95.5	1.5	5.7	1.9	.912	None	
SBR75-11665	760.9-762.6	5302	1.3	.8	94.3	3.6	3.4a	1.9		None	
SBR75-11666	762.6-764.0	5303	2.0	.7	95.6	1.7	5.1a	1.7		None	

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 feet

Sample number	Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks
		Weight percent		Spent shale	Gas + loss	Gal per ton				
Laramie	Their	No.	Oil			Water			Oil <sup>1/</sup>	Water
SBR75-11667	764.0-765.0	5304	2.1	0.5	95.9	1.5	5.6a	1.2		None
SBR75-11668	765.0-766.5	5305	.8	1.8	96.1	1.3	2.2a	4.3		None
SBR75-11669	766.5-767.5	5306	2.8	.6	95.1	1.5	7.4a	1.4		None
SBR75-11670	767.5-768.5	5307	4.6	.7	92.6	2.1	12.3	1.7	0.905	None
SBR75-11671	768.5-769.5	5308	6.3	1.0	90.6	2.1	16.9	2.4	.897	None
SBR75-11672	769.5-770.5	5309	9.0	1.1	86.8	3.1	24.2	2.6	.898	None
SBR75-11673	770.5-771.5	5310	7.3	1.2	88.8	2.7	19.4	2.9	.905	None
SBR75-11674	771.5-772.5	5311	6.3	1.2	89.6	2.9	16.6	2.9	.911	None
SBR75-11675	772.5-773.5	5312	1.3	.7	95.8	2.2	3.5a	1.7		None
SBR75-11676	773.5-774.5	5313	1.2	.4	96.6	1.8	3.2a	1.0		None
SBR75-11677	774.5-775.9	5314	1.8	.7	95.9	1.6	4.8a	1.7		None
SBR75-11678	775.9-777.0	5315	2.3	.5	95.5	1.7	5.9	1.2	.922	None
SBR75-11679	777.0-778.4	5316	5.6	1.0	91.0	2.4	14.8	2.4	.904	None
SBR75-11680	778.4-779.9	5317	7.7	1.3	87.8	3.2	20.5	3.1	.903	None
SBR75-11681	779.9-781.0	5318	3.3	.7	94.3	1.7	8.6	1.7	.910	None
SBR75-11682	781.0-782.0	5319	4.2	.9	92.4	2.5	11.0	2.2	.913	None
SBR75-11683	782.0-783.1	5320	3.6	.6	94.1	1.7	9.4	1.4	.912	None
SBR75-11684	783.1-784.1	5321	3.1	.4	94.3	2.2	8.1	1.0	.916	None
SBR75-11685	784.1-785.1	5322	3.3	.6	94.5	1.6	8.5	1.4	.916	None
SBR75-11686	785.1-786.1	5323	3.5	.7	93.6	2.2	9.2	1.7	.908	None
SBR75-11687	786.1-787.2	5324	2.2	.6	95.6	1.6	5.8	1.4	.915	None
SBR75-11688	787.2-788.2	5325	2.2	.5	95.8	1.5	5.9	1.2	.917	None
SBR75-11689	788.2-789.4	5326	1.1	.4	97.0	1.5	2.8a	1.0		None
SBR75-11690	789.4-790.6	5327	1.3	.7	96.6	1.4	3.4a	1.7		None
SBR75-11691	790.6-791.8	5328	1.9	.4	96.6	1.1	5.0a	1.0		None
SBR75-11692	791.8-792.8	5329	1.6	.4	96.4	1.6	4.2a	1.0		None
SBR75-11693	792.8-793.9	5330	2.7	1.7	94.3	1.3	7.2	4.1	.909	None
SBR75-11694	793.9-794.9	5331	7.9	.8	88.4	2.9	20.9	1.9	.903	None
SBR75-11695	794.9-796.0	5332	12.8	1.1	82.4	3.7	34.3	2.6	.897	None
SBR75-11696	796.0-797.1	5333	15.0	1.8	78.9	4.3	40.1	4.3	.898	None

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 feet

Sample number	Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks		
		Weight percent		Gas + loss	Gal per ton		Tendency to coke				
Laramie	Their	Oil	Water		Spent shale	Oil <sup>1/</sup>		Water			
SBR75-11697	797.1-798.9	5334	8.8	1.0	87.1	3.1	23.4	2.4	0.903	None	Rubble
SBR75-11698	798.9-800.0	5335	2.3	.6	95.5	1.6	6.2	1.4	.903	None	
SBR75-11699	800.0-801.4	5336	2.8	.5	95.0	1.7	7.5	1.2	.905	None	
SBR75-11700	801.4-802.5	5337	10.5	1.1	84.4	4.0	27.7	2.6	.908	None	
SBR75-11701	802.5-803.5	5338	13.1	1.1	81.9	3.9	34.7	2.6	.908	None	
SBR75-11702	803.5-804.6	5339	12.2	1.0	82.8	4.0	32.2	2.4	.907	None	
SBR75-11703	804.6-805.6	5340	9.0	1.0	87.1	2.9	23.9	2.4	.903	Slight	
SBR75-11704	805.6-806.7	5341	1.7	.5	95.8	2.0	4.5a	1.2		None	
SBR75-11705	806.7-807.7	5342	1.4	.3	96.8	1.5	3.6a	.7		None	
SBR75-11706	807.7-808.4	5343	4.6	.6	92.4	2.4	12.0	1.4	.911	None	
SBR75-11707	808.4-809.5	5344	11.3	.8	83.0	4.9	29.6	1.9	.912	Slight	
SBR75-11708	809.5-810.8	5346	12.6	1.1	82.0	4.3	33.4	2.6	.903	Slight	
SBR75-11709	810.8-812.0	5347	13.4	.9	82.5	3.2	35.5	2.2	.905	Slight	
SBR75-11710	812.0-812.7	5348	5.9	.7	90.8	2.6	15.6	1.7	.908	None	
SBR75-11711	812.7-814.2	5349	1.6	.3	97.1	1.0	4.3a	.7		None	
SBR75-11712	814.2-815.6	5350	1.6	.7	95.7	2.0	4.1a	1.7		None	
SBR75-11713	815.6-816.9	5351	10.7	1.0	83.5	4.8	28.5	2.4	.905	None	
SBR75-11714	816.9-818.0	5352	13.0	.9	82.3	3.8	34.3	2.2	.905	None	
SBR75-11715	818.0-819.0	5353	12.4	1.1	82.8	3.7	32.8	2.6	.908	None	
SBR75-11716	819.0-820.1	5354	13.4	1.0	81.8	3.8	35.4	2.4	.906	None	
SBR75-11717	820.1-821.1	5355	7.1	.9	87.3	4.7	18.9	2.2	.907	None	
SBR75-11718	821.1-822.5	5356	1.9	.4	96.2	1.5	5.0a	1.0		None	
SBR75-11719	822.5-824.0	5357	2.2	.5	95.4	1.9	5.6	1.2	.918	None	
SBR75-11720	824.0-824.6	5358	11.6	1.2	83.8	3.4	30.7	2.9	.906	None	
SBR75-11721	824.6-825.7	5359	17.6	1.5	76.5	4.4	46.5	3.6	.906	None	
SBR75-11722	825.7-826.8	5360	13.8	1.2	80.7	4.3	36.4	2.9	.906	None	
SBR75-11723	826.8-827.3	5361	8.5	.9	87.0	3.6	22.5	2.2	.906	None	
SBR75-11724	827.3-828.4	5362	4.7	.8	91.3	3.2	12.4	1.9	.906	None	
SBR75-11725	828.4-829.9	5363	1.0	.9	96.1	2.0	2.6a	2.2		None	
SBR75-11726	829.9-831.3	5364	.8	1.0	97.2	1.0	2.0a	2.4		None	

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples



OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 feet

Sample number	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 <sup>1/</sup>			
SBR75-11727	5365	831.3-832.6	13.4	1.0	81.7	3.9	35.1	2.5	0.913	None	
SBR75-11728	5366	832.6-833.6	7.2	1.9	88.5	2.4	19.0	4.6	.912	None	
SBR75-11729	5367	833.6-835.2	4.7	1.2	91.0	3.1	12.2	2.9	.915	None	
SBR75-11730	5429	835.2-836.5	1.0	.8	97.0	1.2	2.6a	1.8		None	
SBR75-11731	5369	836.5-837.8	.2	1.1	97.5	1.2	.6a	2.6		None	
SBR75-11732	5370	837.8-839.1	.4	1.0	97.2	1.4	.9a	2.4		None	
SBR75-11733	5371	839.1-840.1	1.4	.7	96.1	1.8	3.7a	1.7		None	
SBR75-11734	5372	840.1-841.5	.4	.8	97.0	1.8	1.2a	1.9		None	
SBR75-11735	5373	841.5-842.8	.5	.5	96.9	2.1	1.4a	1.2		None	
SBR75-11736	5374	842.8-843.8	2.2	.7	95.6	1.5	5.7a	1.7		None	
SBR75-11737	5375	843.8-845.0	13.3	1.4	80.3	5.0	34.8	3.4	.914	None	
SBR75-11738	5376	845.0-845.7	4.0	.9	93.0	2.1	10.5	2.2	.912	None	
SBR75-11739	5377	845.7-847.0	.7	1.0	96.8	1.5	1.9a	2.4		None	
SBR75-11740	5378	847.0-848.1	1.6	1.5	95.7	1.2	4.1a	3.6		None	
SBR75-11741	5379	848.1-849.9	11.8	1.2	82.1	4.9	31.5	2.9	.899	None	
SBR75-11742	5380	849.9-850.9	5.6	2.3	89.0	3.1	14.9	5.5	.901	None	
SBR75-11743	5381	850.9-851.9	5.4	3.8	88.1	2.7	14.3	9.1	.906	None	
SBR75-11744	5382	851.9-853.0	2.4	1.7	93.9	2.0	6.4	4.1	.910	None	
SBR75-11745	5383	853.0-854.2	1.1	1.7	95.8	1.4	2.9a	4.1		None	
SBR75-11746	5384	854.2-855.5	7.7	1.3	87.7	3.3	20.4	3.1	.905	None	
SBR75-11747	5385	855.5-856.7	6.7	1.3	88.9	3.1	17.8	3.1	.903	None	
SBR75-11748	5386	856.9-858.0	6.1	2.0	88.9	3.0	16.2	4.8	.905	None	
SBR75-11749	5387	858.0-859.4	4.9	3.5	89.7	1.9	13.0	8.3	.911	None	
SBR75-11750	5388	859.4-861.2	.5	3.4	94.6	1.5	1.4a	8.1		None	
SBR75-11751	5389	861.2-862.5	7.1	1.2	88.8	2.9	18.7	2.9	.910	None	
SBR75-11752	5390	862.5-863.7	7.7	.7	86.7	4.9	20.2	1.7	.911	None	
SBR75-11753	5391	863.7-864.7	6.2	1.3	88.1	4.4	16.2	3.1	.912	None	
SBR75-11754	5392	864.7-865.7	4.4	1.2	90.6	3.8	11.4	2.9	.918	None	
SBR75-11755	5393	865.7-866.7	2.8	2.1	92.6	2.5	7.3	5.0	.914	None	
SBR75-11756	5394	866.7-868.4	.1	4.5	93.8	1.6	.3a	10.8		None	

See footnote at end of table.

Core samples received July 18, 1974; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines' Wyoming Corehole 9A (con.)

Surface elevation 6,298.9 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks	
			Weight percent		Spent shale	Gas + loss				Gal per ton
Laramie	Their		Oil	Water						
SBR75-11757	868.4-869.6	5395	2.5	2.1	93.5	1.9	6.5	5.0	0.912	None
SBR75-11758	869.6-870.8	5396	1.6	1.4	95.1	1.9	4.2a	3.4		None
SBR75-11759	870.8-871.8	5397	.8	1.6	96.0	1.6	2.2a	3.8		None
SBR75-11760	871.8-872.8	5398	.2	1.8	95.9	2.1	.6a	4.3		None
SBR75-11761	872.8-874.5	5399	4.1	2.3	90.6	3.3	10.1	5.5	.914	None
SBR75-11762	874.5-876.0	5400	.0	6.1	92.2	1.7	.1	14.6		None
SBR75-11763	876.0-878.0	5401	.0	5.6	93.3	1.1	.1	13.4		None
SBR75-11764	878.0-880.0	5402	.0	8.9	89.2	1.9	Trace	21.3		None
SBR75-11765	880.0-881.3	5403	.2	2.7	95.6	1.5	.5a	6.5		None
SBR75-11766	881.3-882.8	5404	7.0	1.4	88.1	3.5	18.4	3.4	.907	None
SBR75-11767	882.8-884.0	5405	4.9	1.2	91.1	2.8	12.8	2.9	.912	None
SBR75-11768	884.0-885.0	5406	4.2	1.5	91.8	2.5	11.2	3.6	.911	None
SBR75-11769	885.0-886.0	5407	7.1	2.2	87.3	3.4	18.7	5.3	.908	None
SBR75-11770	886.0-887.3	5408	4.6	1.9	89.7	3.8	12.2	4.6	.914	None
SBR75-11771	887.3-888.4	5409	4.0	1.7	90.8	3.5	10.5	4.1	.919	None
SBR75-11772	888.4-889.5	5410	1.2	1.5	95.2	2.1	3.1a	3.6		None
SBR75-11773	889.5-890.3	5411	5.8	4.9	84.3	5.0	15.4	11.7	.909	None
SBR75-11774	890.3-891.4	5412	11.9	1.8	82.4	3.9	31.6	4.3	.900	None
SBR75-11775	891.4-892.5	5413	8.7	1.5	86.5	3.3	23.1	3.6	.899	None
SBR75-11776	892.5-894.1	5414	7.1	1.8	88.1	3.0	18.8	4.3	.903	None
SBR75-11777	894.1-895.4	5415	4.1	2.0	89.5	4.4	10.7	4.8	.911	None
SBR75-11778	895.4-896.8	5416	1.9	3.5	92.3	2.3	4.9a	8.4		None

1/ "a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil," "Trace".

Core samples received July 18, 1974; assays made on air-dried samples