

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 3 drilled in the
SE1/4NW1/4NW1/4 (718 feet FNL, 804 feet FWL) of sec. 17, T 13 S, R 22E, S.L.M., Uintah County, Utah

Surface elevation: 6,183 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 ^{1/}
SBR76-2234	20.7-22.0	16826	2.5	1.6	95.1	0.8	6.7	3.8	0.910	None	
SBR76-2235	22.0-23.2	16827	3.2	1.3	94.6	.9	8.5	3.1	.916	None	
SBR76-2236	23.2-24.3	16828	2.8	1.3	95.1	.8	7.2	3.1	.919	None	
SBR76-2237	24.3-25.7	16829	3.3	1.7	94.1	.9	8.7	4.1	.913	None	
SBR76-2238	25.7-27.0	16830	3.4	1.7	94.1	.8	8.8	4.1	.912	None	
SBR76-2239	27.0-27.9	16831	4.3	1.3	93.0	1.4	11.4	3.1	.908	None	
SBR76-2240	27.9-29.0	16832	9.0	1.6	87.8	1.6	23.8	3.8	.908	None	
SBR76-2241	29.0-30.2	16833	4.1	1.3	93.6	1.0	10.7	3.0	.913	None	
SBR76-2242	30.2-31.4	16834	3.6	.9	94.0	1.5	9.5	2.1	.913	None	
SBR76-2243	31.4-32.7	16835	9.0	1.4	87.9	1.7	23.6	3.3	.909	None	
SBR76-2244	32.7-33.8	16836	4.2	1.0	93.6	1.2	10.9	2.4	.916	None	
SBR76-2245	33.8-35.2	16837	1.4	1.1	96.4	1.1	3.7a	2.6	.920	None	
SBR76-2246	35.2-36.7	16838	1.0	1.1	97.1	.8	2.7a	2.6		None	
SBR76-2247	36.7-38.0	16839	1.4	.5	96.9	1.2	3.7a	1.2		None	
SBR76-2248	38.0-39.8	16840	.6	.7	98.2	.5	1.5a	1.7		None	
SBR76-2249	39.8-41.6	16841	2.5	2.0	95.0	.5	6.5	4.7	.913	None	
SBR76-2250	41.6-43.0	16842	.6	1.2	97.8	.4	1.5a	2.9	.920	None	
SBR76-2251	43.0-44.4	16843	.6	.8	98.0	.6	1.5a	1.9		None	
SBR76-2252	44.4-45.4	16844	.5	.9	97.8	.8	1.4a	2.2		None	
SBR76-2253	45.4-46.5	16845	.6	.5	98.2	.7	1.6a	1.2		None	
SBR76-2254	46.5-48.0	16846	1.0	.6	97.8	.6	2.6a	1.4		None	
SBR76-2255	48.0-49.5	16847	.4	.9	98.0	.7	1.0a	2.2		None	
SBR76-2256	49.5-51.0	16848	.3	1.0	97.2	1.5	.8a	2.4		None	
SBR76-2257	51.0-52.5	16849	.3	1.0	98.2	.5	.8a	2.4		None	
SBR76-2258	52.5-54.0	16850	.5	.5	98.5	.5	1.3a	1.2		None	
SBR76-2259	54.0-55.0	16851	.3	.6	98.6	.5	.9a	1.4		None	
SBR76-2260	55.0-56.4	16852	.8	1.1	97.7	.4	2.0a	2.6		None	
SBR76-2261	56.4-58.0	16853	4.2	1.6	93.1	1.1	11.0	3.8	.906	None	
SBR76-2262	58.0-59.0	16854	1.5	.9	95.5	2.1	3.8a	2.2	.920	None	
SBR76-2263	59.0-60.0	16855	1.9	2.1	95.4	.6	4.9a	5.0	.920	None	

See footnote at end of table.

Core samples received October 30, 1975; assays made on air-dried samples

4103
471

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 3

Surface elevation: 6,183 feet

Sample number		Run No.	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent			Gal per ton				Tendency to coke	
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR76-2264	60.0-61.0	16856	5.5	2.4	90.7	1.4	14.5	5.8	0.904	None	
SBR76-2265	61.0-62.3	16857	9.6	1.8	86.4	2.2	25.6	4.3	.902	None	
SBR76-2266	62.3-63.9	16858	3.1	1.3	94.0	1.6	8.1	3.1	.913	None	
SBR76-2267	63.9-65.0	16859	2.6	1.0	94.9	1.5	6.9	2.4	.910	None	
SBR76-2268	65.0-66.4	16860	2.8	1.2	95.2	.8	7.4	2.9	.909	None	
SBR76-2269	66.4-67.8	16861	4.4	1.7	93.0	.9	11.4	4.1	.916	None	
SBR76-2270	67.8-69.2	16862	8.3	.5	89.9	1.3	21.8	1.2	.913	None	
SBR76-2271	69.2-70.2	16863	7.4	1.0	89.4	2.2	19.4	2.4	.907	None	
SBR76-2272	70.2-71.5	16864	15.5	1.5	80.6	2.4	41.3	3.6	.899	None	
SBR76-2273	71.5-72.9	16865	7.3	1.0	90.1	1.6	19.5	2.4	.896	None	
SBR76-2274	72.9-74.5	16866	4.2	1.6	93.0	1.2	11.2	3.8	.903	None	
SBR76-2275	74.5-75.8	16867	3.5	1.2	94.4	.9	9.1	2.9	.913	None	
SBR76-2276	75.8-77.0	16868	1.7	.7	96.4	1.2	4.5a	1.7	.920	None	
SBR76-2277	77.0-78.3	16869	2.4	.6	96.2	.8	6.3	1.4	.918	None	
SBR76-2278	78.3-79.8	16870	5.6	1.0	92.2	1.2	14.6	2.4	.913	None	
SBR76-2279	79.8-81.2	16871	4.2	.6	94.3	.9	11.1	1.4	.915	None	
SBR76-2280	81.2-82.7	16872	2.0	.7	96.8	.5	5.2a	1.7	.920	None	
SBR76-2281	82.7-84.2	16916	1.6	.5	96.8	1.1	4.2a	1.2		None	
SBR76-2282	84.2-85.4	16874	2.0	.8	96.6	.6	5.2a	1.8		None	
SBR76-2283	85.4-86.4	16875	2.0	.8	95.9	1.3	5.2a	1.9		None	
SBR76-2284	86.4-87.5	16876	2.2	.6	96.2	1.0	5.7	1.4	.915	None	
SBR76-2285	87.5-88.5	16877	2.7	1.2	94.9	1.2	7.2	2.9	.912	None	
SBR76-2286	88.5-90.0	16878	1.8	.7	96.8	.7	4.8a	1.7	.920	None	
SBR76-2287	90.0-91.5	16879	1.9	.8	96.3	1.0	4.9a	1.9	.920	None	
SBR76-2288	91.5-92.8	16880	3.5	1.1	94.4	1.0	9.3	2.6	.904	None	
SBR76-2289	92.8-94.0	16881	4.6	.6	93.6	1.2	12.2	1.4	.909	None	
SBR76-2290	94.0-95.0	16882	15.1	.9	80.6	3.4	39.4	2.2	.921	None	
SBR76-2291	95.0-96.7	16883	7.6	.9	88.9	2.6	20.2	2.2	.904	None	
SBR76-2292	96.7-97.5	16884	6.7	.3	91.0	2.0	17.9	.7	.905	None	
SBR76-2293	97.5-98.4	16885	10.7	.8	85.8	2.7	28.2	1.9	.911	None	

See footnote at end of table.

Core samples received October 30, 1975; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 3

Surface elevation: 6,183 feet

Sample number		Run No.	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Gal per ton					Tendency to		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water		coke		
SBR76-2294	98.4-100.0	16886	11.0	0.8	86.1	2.1	29.0	1.9	0.908	None		
SBR76-2295	100.0-101.2	16887	18.8	1.1	75.4	4.7	49.7	2.6	.909	None		
SBR76-2296	101.2-102.9	16888	23.4	1.3	70.4	4.9	61.5	3.1	.910	Moderate		
SBR76-2297	102.9-104.3	16889	16.6	.9	79.4	3.1	43.8	2.2	.908	None		
SBR76-2298	104.3-105.3	16890	7.8	.7	88.9	2.6	20.3	1.8	.919	None		
SBR76-2299	105.3-106.3	16891	5.8	.6	92.0	1.6	15.1	1.4	.915	None		
SBR76-2300	106.3-107.2	16892	13.5	.7	82.8	3.0	35.0	1.7	.924	None		
SBR76-2301	107.2-108.4	16893	5.0	.3	93.4	1.3	13.0	.7	.916	None		
SBR76-2302	108.4-109.6	16894	6.0	.3	92.3	1.4	15.8	.7	.910	None		
SBR76-2303	109.6-111.3	16895	14.3	1.0	82.2	2.5	37.7	2.4	.906	None		
SBR76-2304	111.3-112.6	16896	5.1	1.0	92.5	1.4	13.7	2.4	.889	None		
SBR76-2305	112.6-114.2	16897	10.0	1.2	84.6	4.2	26.6	2.9	.905	None		
SBR76-2306	114.2-115.5	16898	4.0	.7	93.9	1.4	10.6	1.7	.908	None		
SBR76-2307	115.5-117.2	16899	10.4	1.1	86.1	2.4	27.1	2.6	.916	None		
SBR76-2308	117.2-118.8	16900	2.9	1.6	94.6	.9	7.7	3.8	.913	None		
SBR76-2309	118.8-119.7	16901	2.8	.5	95.7	1.0	7.4	1.2	.915	None		
SBR76-2310	119.7-121.6	16902	1.3	.2	97.0	1.5	3.3a	.5	.920	None		
SBR76-2311	121.6-122.7	16903	3.8	1.1	94.1	1.0	10.1	2.7	.906	None		
SBR76-2312	122.7-124.5	16904	9.1	1.4	87.7	1.8	24.3	3.4	.897	None		
SBR76-2313	124.5-125.5	16905	7.3	1.0	90.4	1.3	19.5	2.4	.897	None		
SBR76-2314	125.5-126.5	16906	6.3	.8	90.9	2.0	16.8	1.9	.901	None		
SBR76-2315	126.5-127.8	16907	8.9	1.0	88.1	2.0	23.6	2.4	.899	None		
SBR76-2316	127.8-128.8	16908	5.3	1.5	91.8	1.4	14.3	3.6	.896	None		
SBR76-2317	128.8-130.4	16909	3.7	1.1	93.5	1.7	9.7	2.6	.916	None		
SBR76-2318	130.4-131.7	16910	1.7	1.0	96.6	.7	4.6a	2.4	.920	None		
SBR76-2319	131.7-133.0	16911	2.2	.5	95.9	1.4	5.8	1.2	.918	None		
SBR76-2320	133.0-134.0	16912	3.9	1.4	93.8	.9	10.2	3.4	.913	None		
SBR76-2321	134.0-135.0	16913	8.6	1.4	88.2	1.8	22.3	3.3	.921	None		
SBR76-2322	135.0-136.0	16914	2.9	1.3	94.5	1.3	7.6	3.0	.915	None		
SBR76-2323	136.0-137.6	16915	1.7	.6	96.7	1.0	4.4a	1.4	.920	None		

See footnote at end of table.

Core samples received October 30, 1975; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 3

Surface elevation: 6,183 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water			Oil ^{1/}	Water				
SBR76-2324	137.6-138.7	16917	1.6	0.1	97.6	0.7	4.2a	0.1	.920	None		
SBR76-2325	138.7-139.7	16918	2.1	.1	96.8	1.0	5.5a	.2	.920	None		
SBR76-2326	139.7-140.7	16919	1.7	.3	97.1	.9	4.5a	.7	.920	None		
SBR76-2327	140.7-141.6	16920	1.5	.3	97.4	.8	4.0a	.6	.920	None		
SBR76-2328	141.6-142.7	16921	2.2	.7	95.9	1.2	5.8	1.7	0.894	None		
SBR76-2329	142.7-144.8	16922	5.2	1.0	92.6	1.2	14.2	2.3	.889	None		
SBR76-2330	144.8-145.8	16923	1.5	.7	96.6	1.2	4.0a	1.7	.920	None		
SBR76-2331	145.8-147.2	16924	.8	1.3	96.9	1.0	2.0a	3.1	↓	None		
SBR76-2332	147.2-148.4	16925	1.8	2.1	94.9	1.2	4.8a	5.0	↓	None		
SBR76-2333	148.4-149.4	16926	1.1	1.7	96.5	.7	2.9a	4.1	↓	None		
SBR76-2334	149.4-150.9	16927	3.0	1.0	94.6	1.4	8.1	2.4	.903	None		
SBR76-2335	150.9-152.5	16928	8.7	1.1	88.0	2.2	22.9	2.6	.912	None		
SBR76-2336	152.5-153.6	16929	1.5	1.1	96.5	.9	4.0a	2.6	.920	None		
SBR76-2337	153.6-154.9	16930	1.2	.9	95.9	2.0	3.1a	2.2	↓	None		
SBR76-2338	154.9-155.8	16931	1.3	1.0	96.9	.8	3.4a	2.4	↓	None		
SBR76-2339	155.8-156.8	16932	1.6	.9	96.2	1.3	4.3a	2.2	↓	None		
SBR76-2340	156.8-158.4	16933	7.9	1.4	87.6	3.1	20.5	3.4	.918	None		
SBR76-2341	158.4-159.8	16934	1.7	.6	97.2	.5	4.4a	1.4	.920	None		
SBR76-2342	159.8-161.6	16935	2.9	1.4	94.5	1.2	7.8	3.4	.910	None		
SBR76-2344	162.7-163.5	16936	4.4	2.0	92.1	1.5	11.7	4.8	.898	None		
SBR76-2345	163.5-164.9	16937	.5	1.0	97.7	.8	1.4a	2.4	.920	None		
SBR76-2346	164.9-166.2	16938	1.3	.6	97.7	.4	3.4a	1.3	↓	None		
SBR76-2347	166.2-167.8	16939	.5	.4	97.8	1.3	1.4a	.9	↓	None		
SBR76-2348	167.8-168.9	16940	.3	.3	99.1	.3	.8a	.8	↓	None		
SBR76-2349	168.9-170.6	16941	.7	.1	98.7	.5	1.9a	.2	↓	None	Tar sand in part	
SBR76-2350	170.6-171.5	16942	.4	.2	98.4	1.0	1.0a	.5	↓	None		
SBR76-2352	174.6-176.6	16943	4.3	.9	93.9	.9	11.4	2.2	.908	None		
SBR76-2353	176.6-177.8	16944	2.3	.8	95.6	1.3	6.1	1.9	.901	None		
SBR76-2354	177.8-179.2	16945	3.2	.8	94.9	1.1	8.6	1.9	.899	None		
SBR76-2355	179.2-180.5	16946	8.3	1.0	88.7	1.9	22.3	2.5	.894	None		

See footnote at end of table.

Core samples received October 30, 1976; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 3

Surface elevation: 6,183 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 ^{1/}	Water	
SBR76-2356	180.5-181.6	16947	2.8	0.5	95.5	1.2	7.6	1.2	0.900	None	
SBR76-2357	181.6-182.8	16948	2.6	.8	95.7	.9	6.9	1.9	.898	None	
SBR76-2358	182.8-183.7	16949	3.8	1.3	93.6	1.3	10.2	3.1	.900	None	
SBR76-2359	183.7-184.9	16950	.0	.5	97.9	1.6	No Oil	1.1		None	
SBR76-2360	184.9-186.4	16951	1.5	.5	97.3	.7	4.0a	1.2	.920	None	
SBR76-2361	186.4-187.7	16952	3.3	1.5	93.9	1.3	8.7	3.6	.903	None	
SBR76-2362	187.7-188.8	16953	1.8	1.2	96.4	.6	4.8a	2.8	.920	None	
SBR76-2363	188.8-190.2	16954	1.6	.8	96.4	1.2	4.2a	1.9		None	
SBR76-2364	190.2-191.6	16955	1.7	.6	96.8	.9	4.4a	1.4	↓	None	
SBR76-2365	191.6-192.8	16956	3.6	1.6	93.8	1.0	9.6	3.8	.889	None	
SBR76-2366	192.8-193.5	16957	2.2	.1	96.9	.8	5.7a	.2	.920	None	
SBR76-2367	193.5-194.6	16958	9.6	1.6	86.8	2.0	25.7	3.8	.898	None	
SBR76-2368	194.6-196.4	16959	2.8	1.3	94.4	1.5	7.4	3.1	.907	None	
SBR76-2369	196.4-197.4	16960	.0	.6	99.1	.3	No Oil	1.5		None	
SBR76-2370	197.4-198.4	16961	.2	.9	98.3	.6	.5a	2.2	.920	None	
SBR76-2371	198.4-199.9	16962	5.4	1.7	91.8	1.1	14.2	4.1	.916	None	
SBR76-2372	199.9-201.2	16963	4.3	1.6	93.1	1.0	11.3	3.8	.921	None	
201.2-247.2			BARREN ROCK AND TAR SANDS - NOT SAMPLED								

^{1/} "a"--indicates specific gravity estimated as 0.92.

Core samples received October 30, 1975; assays made on air-dried samples