

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 4 drilled in the
NE1/4SW1/4NE1/4 (1734 feet FNL, 1707 feet FEL) of sec. 35, T 13 S, R 22 E, S.L.M., Uintah County, Utah

Surface elevation: 6,700 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/}	
SBR76-149	12.4-13.7	14803	1.9	2.4	94.5	1.2	5.1a	5.8	.920	None
SBR76-150	13.7-14.8	14804	1.9	2.5	94.1	1.5	5.0a	6.0	.920	None
SBR76-151	14.8-15.8	14806	5.6	1.8	89.8	2.8	14.7	4.3	0.913	None
SBR76-152	15.8-17.4	14807	1.6	.8	95.8	1.8	4.1a	1.9	.920	None
SBR76-153	17.4-19.0	14808	.9	2.1	96.2	.8	2.4a	5.0	.920	None
SBR76-154	19.0-20.6	14809	.0	.6	97.3	2.1	Trace	1.5		None
SBR76-155	20.6-21.8	14810	1.4	2.5	95.2	.9	3.7a	6.0	.920	None
SBR76-156	21.8-23.0	14811	2.0	2.6	95.0	.4	5.4	6.2	.903	None
SBR76-157	23.0-24.3	14812	3.4	1.5	94.1	1.0	8.8	3.6	.911	None
SBR76-158	24.3-25.4	14865	2.3	2.2	94.4	1.1	6.1	5.3	.902	None
SBR76-159	25.4-26.5	14814	2.4	.9	94.4	2.3	6.3	2.2	.908	None
SBR76-160	26.5-28.3	14815	2.4	3.3	93.0	1.3	6.2	7.9	.906	None
SBR76-161	28.3-30.2	14816	5.2	1.3	91.8	1.7	13.6	3.1	.911	None
SBR76-162	30.2-31.2	14817	3.2	1.5	94.9	.4	8.4	3.6	.914	None
SBR76-163	31.2-32.5	14818	4.4	1.4	93.4	.8	11.5	3.4	.918	None
SBR76-164	32.5-33.7	14819	4.3	.9	92.2	2.6	11.1	2.2	.922	None
SBR76-165	33.7-35.6	14820	2.1	1.3	95.9	.7	5.4	3.1	.923	None
SBR76-166	35.6-36.8	14821	1.9	1.4	95.6	1.1	5.1a	3.4	.920	None
SBR76-167	36.8-38.4	14822	3.1	.5	94.8	1.6	8.1	1.2	.921	None
SBR76-168	38.4-40.1	14823	1.8	1.4	96.1	.7	4.6a	3.4	.920	None
SBR76-169	40.1-41.5	14824	2.5	1.5	95.1	.9	6.5	3.6	.923	None
SBR76-170	41.5-43.0	14825	1.1	1.3	96.5	1.1	2.8a	3.1	.920	None
SBR76-171	43.0-44.0	14826	1.9	1.5	95.7	.9	5.0a	3.6	.920	None
SBR76-172	44.0-45.3	14827	4.2	1.1	93.3	1.4	10.9	2.6	.921	None
SBR76-173	45.3-46.6	14828	2.0	1.1	96.0	.9	5.2a	2.6	.920	None
SBR76-174	46.6-47.8	14829	2.3	.9	95.8	1.0	5.9	2.3	.920	None
SBR76-175	47.8-49.0	14830	6.6	1.2	90.4	1.8	17.2	2.9	.918	None
SBR76-176	49.0-50.8	14831	3.1	1.1	94.7	1.1	8.2	2.6	.909	None
SBR76-177	50.8-51.9	14832	3.0	.8	94.8	1.4	7.7	1.9	.925	None
SBR76-178	51.9-53.7	14833	3.9	1.4	93.0	1.7	10.3	3.4	.921	None

See footnote at end of table.

Core samples received October 2, 1975; assays made on air-dried samples

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 4

Surface elevation: 6,700 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/}		Water	
SBR76-179	53.7-55.0	14834	9.6	1.1	87.1	2.2	25.2	2.6	0.913	None		
SBR76-180	55.0-56.0	14835	6.3	1.1	91.0	1.6	16.5	2.6	.912	None		
SBR76-181	56.0-57.8	14836	4.1	.8	93.6	1.5	10.8	1.8	.911	None		
SBR76-182	57.8-59.2	14837	10.7	1.2	85.9	2.2	28.0	2.9	.912	None		
SBR76-183	59.2-60.2	14838	4.4	1.0	92.7	1.9	11.4	2.4	.922	None		
SBR76-184	60.2-61.7	14839	.9	.6	96.5	2.0	2.4a	1.4	.920	None		
SBR76-185	61.7-63.1	14840	1.2	1.2	97.1	.5	3.2a	2.9		None		
SBR76-186	63.1-64.5	14841	.7	.6	98.1	.6	1.9a	1.4		None		
SBR76-187	64.5-65.3	14842	1.2	1.7	96.5	.6	3.2a	4.1		None		
SBR76-188	65.3-67.0	14843	1.2	.6	97.0	1.2	3.2a	1.4		None		
SBR76-189	67.0-68.1	14844	.6	.7	97.9	.8	1.7a	1.7		None		
SBR76-190	68.1-69.2	14845	1.9	1.6	95.8	.7	5.0a	3.8		None		
SBR76-191	69.2-70.3	14846	.7	.8	97.8	.7	1.7a	1.9		None		
SBR76-192	70.3-72.3	14847	.6	.7	97.7	1.0	1.4a	1.7		None		
SBR76-193	72.3-74.3	14848	.5	.5	97.5	1.5	1.4a	1.2		None		
SBR76-194	74.3-76.3	14849	.5	.7	98.5	.3	1.4a	1.7		None		
SBR76-195	76.3-77.3	14850	.8	.6	97.9	.7	2.0a	1.4		None		
SBR76-196	77.3-78.7	14851	3.9	1.6	93.4	1.1	10.2	3.8	.909	None		
SBR76-197	78.7-80.1	14852	2.1	1.3	95.7	.9	5.5	3.1	.908	None		
SBR76-198	80.1-81.1	14853	3.0	1.5	94.0	1.5	8.0	3.6	.911	None		
SBR76-199	81.1-82.0	14854	6.8	2.0	88.4	2.8	17.9	4.8	.903	None		
SBR76-200	82.0-82.9	14855	12.6	1.2	81.6	4.6	33.4	2.9	.904	None		
SBR76-201	82.9-84.0	14856	4.8	1.2	91.5	2.5	12.3	2.9	.925	None		
SBR76-202	84.0-85.0	14857	2.0	2.1	93.6	2.3	5.2a	5.0	.920	None		
SBR76-203	85.0-86.0	14858	3.0	1.7	94.3	1.0	8.0	4.1	.911	None		
SBR76-204	86.0-87.5	14859	2.9	1.2	95.1	.8	7.8	2.9	.908	None		
SBR76-205	87.5-88.7	14860	3.7	1.5	93.1	1.7	9.6	3.6	.917	None		
SBR76-206	88.7-90.1	14861	7.4	1.6	89.0	2.0	19.2	3.8	.920	None		
SBR76-207	90.1-91.3	14862	7.8	.5	88.9	2.8	20.4	1.2	.912	None		
SBR76-208	91.3-93.0	14863	8.2	1.2	88.4	2.2	21.6	2.9	.910	None		

See footnote at end of table.

Core samples received October 2, 1975; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 4

Surface elevation: 6,700 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of		Remarks
			Weight percent			Gal per ton				spent shale		
Sample number		Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water		Tendency to coke		
Laramie	Their											
SBR76-209	93.0-94.1	14864	14.0	0.7	81.7	3.6	37.7	1.7	0.894		None	
SBR76-210	94.1-95.0	14937	15.9	1.2	79.7	3.2	42.1	2.7	.908		None	
SBR76-211	95.0-96.1	14867	7.8	.7	88.9	2.6	20.9	1.6	.894		None	
SBR76-212	96.1-97.0	14868	6.1	1.3	90.7	1.9	16.1	3.1	.904		None	
SBR76-213	97.0-98.0	14869	4.7	1.1	92.1	2.1	12.5	2.6	.911		None	
SBR76-214	98.0-99.3	14870	3.2	.9	94.5	1.4	8.3	2.2	.917		None	
SBR76-215	99.3-100.4	14871	2.2	.9	95.7	1.2	5.9	2.2	.919		None	
SBR76-216	100.4-101.5	14872	2.6	1.0	95.5	.9	6.8	2.4	.927		None	
SBR76-217	101.5-102.7	14873	6.0	.9	91.3	1.8	15.7	2.2	.917		None	
SBR76-218	102.7-104.4	14874	4.1	.7	94.1	1.1	10.7	1.7	.921		None	
SBR76-219	104.4-106.0	14875	1.7	.8	96.4	1.1	4.4a	1.9	.920		None	
SBR76-220	106.0-107.5	14876	2.2	1.0	96.0	.8	5.8	2.4	.918		None	
SBR76-221	107.5-109.0	14877	2.8	.8	96.2	.8	5.7	1.9	.916		None	
SBR76-222	109.0-110.5	14878	3.0	1.5	94.7	.8	7.8	3.6	.914		None	
SBR76-223	110.5-112.0	14879	2.4	.7	95.9	1.0	6.2	1.7	.912		None	
SBR76-224	112.0-113.0	14880	1.2	.5	96.7	1.6	3.1a	1.2	.920		None	
SBR76-225	113.0-114.0	14881	2.7	1.0	95.5	.8	7.1	2.4	.906		None	
SBR76-226	114.0-115.0	14882	4.2	.9	94.0	.9	11.0	2.2	.907		None	
SBR76-227	115.0-116.0	14883	15.8	1.2	80.0	3.0	41.3	2.9	.914		None	
SBR76-228	116.0-117.0	14884	7.5	.7	89.5	2.3	20.0	1.7	.904		None	
SBR76-229	117.0-118.0	14885	14.1	.8	82.0	3.1	37.3	2.0	.908		None	
SBR76-230	118.0-119.0	14886	14.7	.9	81.4	3.0	38.5	2.2	.916		None	
SBR76-231	119.0-120.0	14887	13.5	.5	81.6	4.4	35.5	1.2	.915		None	
SBR76-232	120.0-121.4	14888	23.5	1.2	70.5	4.8	62.0	2.9	.907		None	
SBR76-233	121.4-122.8	14889	18.1	.9	77.0	4.0	47.9	2.2	.908		None	
SBR76-234	122.8-124.2	14890	19.3	1.0	75.5	4.2	50.8	2.3	.910		None	
SBR76-235	124.2-125.9	14891	6.2	.6	90.6	2.6	16.3	1.4	.921		None	
SBR76-236	125.9-127.0	14892	12.4	.6	84.0	3.0	32.3	1.4	.919		None	
SBR76-237	127.0-128.0	14893	5.1	.4	93.0	1.5	13.3	1.0	.922		None	
SBR76-238	128.0-129.2	14894	7.0	.5	90.2	2.3	18.4	1.2	.910		None	

See footnote at end of table.

Core samples received October 2, 1975; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 4

Surface elevation: 6,700 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		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
Laramie	Their											
SBR76-239	129.2-130.6	14895	18.3	1.1	77.2	3.4	48.4	2.6	0.906	None		
SBR76-240	130.6-132.0	14896	5.4	1.3	90.7	2.6	14.6	3.2	.891	None		
SBR76-241	132.0-133.5	14897	9.9	1.1	87.1	1.9	26.5	2.6	.897	None		
SBR76-242	133.5-134.9	14898	3.5	.5	94.2	1.8	9.1	1.2	.915	None		
SBR76-243	134.9-136.0	14899	12.7	1.4	83.1	2.8	32.9	3.5	.929	None		
SBR76-244	136.0-136.9	14900	4.0	1.3	93.3	1.4	10.4	3.1	.919	None		
SBR76-246	136.9-137.3	14901	2.6	1.2	94.6	1.6	6.7	2.9	.919	None		
SBR76-247	138.0-139.3	14902	1.9	.7	96.2	1.2	5.0a	1.7	.920	None		
SBR76-248	139.3-140.3	14903	4.7	.7	93.0	1.6	12.4	1.7	.905	None		
SBR76-249	140.3-141.3	14904	9.3	.9	87.8	2.0	24.8	2.2	.897	None		
SBR76-250	141.3-143.3	14961	6.8	1.0	90.8	1.4	18.0	2.4	.905	None		
SBR76-251	143.3-144.3	14906	8.9	1.2	87.7	2.2	23.8	2.9	.901	None		
SBR76-252	144.3-146.4	14907	4.2	1.1	93.5	1.2	11.2	2.6	.909	None		
SBR76-253	146.4-148.0	14908	1.6	.2	97.0	1.2	4.1a	.5	.920	None		
SBR76-254	148.0-149.2	14909	2.8	.8	95.4	1.0	7.2	1.9	.916	None		
SBR76-255	149.2-150.3	14910	3.1	.7	95.0	1.2	8.1	1.7	.916	None		
SBR76-256	150.3-151.3	14911	4.7	1.2	92.8	1.3	12.2	2.9	.921	None		
SBR76-257	151.3-152.5	14912	1.9	.8	96.2	1.1	5.0a	1.9	.920	None		
SBR76-258	152.5-154.6	14913	1.6	.1	97.9	.4	4.2a	.2		None		
SBR76-259	154.6-155.6	14914	1.3	.3	97.9	.5	3.5a	.6		None		
SBR76-260	155.6-156.8	14915	.9	.3	98.1	.7	2.4a	.7		None		
SBR76-261	156.8-157.8	14916	2.0	.5	96.9	.6	5.2	1.2	.908	None		
SBR76-262	157.8-158.8	14917	3.2	.7	94.9	1.2	8.4	1.7	.896	None		
SBR76-263	158.8-159.6	14918	7.5	1.1	89.9	1.5	19.9	2.5	.900	None		
SBR76-264	159.6-160.6	14919	3.8	.6	94.9	.7	10.4	1.4	.885	None		
SBR76-265	160.6-162.5	14920	.9	.9	97.2	1.0	2.4a	2.2	.920	None		
SBR76-266	162.5-164.1	14921	.6	1.7	97.1	.6	1.6a	4.1		None		
SBR76-267	164.1-165.5	14922	1.2	1.4	96.5	.9	3.2a	3.4		None		
SBR76-268	165.5-166.7	14923	2.7	.9	95.6	.8	7.3	2.2	.905	None		
SBR76-269	166.7-168.4	14924	8.8	1.1	88.3	1.8	23.0	2.6	.920	None		

See footnote at end of table.

Core samples received October 2, 1975; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 4

Surface elevation: 6,700 feet

Sample number			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent				Gal per ton			Tendency to coke		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
Laramie	Their	Run No.										
SBR76-270	168.4-169.4	14925	1.3	1.2	95.5	2.0	3.4a	2.9	.920	None		
SBR76-271	169.4-170.4	14926	1.9	1.5	97.0	.6	2.4a	3.6		None		
SBR76-272	170.4-171.4	14927	.7	2.1	96.5	.7	1.9a	5.0		None		
SBR76-273	171.4-172.7	14928	.9	.8	96.5	1.8	2.4a	1.9		None		
SBR76-274	172.7-174.3	14929	1.9	1.3	96.1	.7	4.9a	3.1		None		
SBR76-275	174.3-175.5	14930	5.1	1.3	92.2	1.4	13.4	3.1	0.916	None		
SBR76-276	175.5-176.5	14931	7.3	1.3	90.1	1.3	19.0	3.1	.918	None		
SBR76-277	176.5-178.3	14932	2.3	1.3	95.4	1.0	5.9	3.1	.916	None		
SBR76-278	178.3-180.1	14933	3.1	2.9	93.1	.9	8.2	7.0	.924	None		
SBR76-279	180.1-181.2	14934	1.9	1.6	96.1	.4	4.8a	3.8	.920	None		
SBR76-280	181.2-182.4	14935	.2	.2	98.4	1.2	.4a	.5		None		
SBR76-281	182.4-183.5	14936	1.3	.6	97.5	.6	3.4a	1.4		None		
SBR76-282	183.5-185.5	14938	.6	.5	98.5	.4	1.5a	1.2		None		
SBR76-283	185.5-187.0	14939	3.4	1.2	94.4	1.0	8.9	2.9	.920	None	Tar sand	
SBR76-284	187.0-188.0	14940	4.9	.1	94.1	.8	13.0	.2	.916	None	Tar sand	
SBR76-285	188.0-189.0	14941	4.9	.3	94.3	.5	12.8	.7	.915	None	Tar sand	
SBR76-286	189.0-190.6	14942	5.1	.9	92.6	1.4	13.4	2.2	.914	None		
SBR76-287	190.6-192.0	14943	3.2	.9	95.1	.8	8.6	2.2	.903	None		
SBR76-288	192.0-193.2	14944	2.8	.6	95.2	1.4	7.5	1.4	.904	None		
SBR76-289	193.2-194.6	14945	7.9	1.1	89.2	1.8	21.1	2.6	.893	None		
SBR76-290	194.6-196.5	14946	2.3	.9	95.8	1.0	6.0	2.2	.902	None		
SBR76-291	196.5-197.6	14947	2.6	1.2	95.5	.7	7.0	2.9	.902	None		
SBR76-292	197.6-198.7	14948	.4	1.0	97.7	.9	1.1a	2.4	.920	None		
SBR76-293	198.7-200.0	14949	1.8	.5	96.6	1.1	4.8a	1.2		None		
SBR76-294	200.0-201.6	14950	1.9	1.2	94.9	2.0	4.9a	2.9		None		
SBR76-295	201.6-203.0	14951	1.6	1.2	96.6	.6	4.3a	2.9		None		
SBR76-296	203.0-204.8	14952	1.5	1.4	96.5	.6	3.8a	3.4		None		
SBR76-297	204.8-206.1	14953	1.3	.4	97.6	.7	3.4a	1.0		None		
SBR76-298	206.1-207.4	14954	4.3	1.9	92.4	1.4	11.5	4.6	.900	None		
SBR76-299	207.4-208.3	14955	.0	2.0	97.4	.6	Trace	4.7		None		

See footnote at end of table.

Core samples received October 2, 1975; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 4

Surface elevation: 6,700 feet

Sample number			Yield of product							Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent				Gal per ton				Tendency to coke		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water					
Laramie	Their	Run No.											
SBR76-300	208.3-209.3	14956	2.7	2.2	94.0	1.1	6.9	5.3	0.924	None			
SBR76-301	209.3-210.3	14957	.2	1.1	98.2	.5	.5a	2.6	.920	None			
SBR76-302	210.3-211.3	14958	3.1	.7	95.2	1.0	8.1	1.7	.912	None	Tar sand		
SBR76-303	211.3-212.3	14959	3.4	.7	96.2	.7	6.1	1.7	.930	None			
SBR76-304	212.3-213.4	14960	5.1	.2	93.9	.8	13.4	.5	.913	None	Tar sand		
SBR76-305	213.4-214.5	14962	7.8	.1	91.2	.9	20.5	.2	.908	None	Tar sand		
SBR76-306	214.5-215.6	14963	8.1	.1	90.2	1.6	21.4	.2	.909	Slight	Tar sand		
SBR76-307	215.6-217.4	14964	5.9	.1	92.7	1.3	15.4	.2	.910	None	Part tar sand		

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

Core samples received October 2, 1975; assays made on air-dried samples