

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 8 drilled in the  
NE1/4NE1/4SW1/4 (1773 feet FSL, 2079 feet FWL) of sec. 26, T 13 S, R 23 E, Uintah County, Utah

Surface elevation: 6,419 feet

Surface elevation: 6,419 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		
			Oil	Water			Oil <sup>1/</sup>	Water				
Laramie	Their											
SBR76-2560	5.0-6.6	17156	2.6	1.1	94.7	1.6	6.9	2.6	0.906	None		
SBR76-2561	6.6-7.6	17157	7.2	2.2	89.0	1.6	18.9	5.3	.913	None		
SBR76-2562	7.6-9.0	17158	12.5	1.7	83.2	2.6	32.7	4.1	.915	None		
SBR76-2563	9.0-10.2	17159	8.2	1.0	88.8	2.0	21.5	2.4	.911	None		
SBR76-2564	10.2-11.3	17160	9.2	1.3	87.2	2.3	24.3	3.1	.908	None		
SBR76-2565	11.3-12.3	17161	16.1	1.1	79.4	3.4	43.2	2.6	.896	None		
SBR76-2566	12.3-13.4	17162	18.9	1.5	76.1	3.5	50.2	3.6	.901	None		
SBR76-2567	13.4-14.6	17163	9.0	.5	87.9	2.6	24.1	1.2	.899	None		
SBR76-2568	14.6-15.7	17164	6.0	.9	91.2	1.9	15.9	2.2	.906	None		
SBR76-2569	15.7-16.8	17165	4.5	.8	93.1	1.6	11.9	1.9	.916	None		
SBR76-2570	16.8-17.9	17166	3.3	1.0	94.9	.8	8.5	2.4	.919	None		
SBR76-2571	17.9-19.0	17167	6.4	.8	91.0	1.8	16.8	1.8	.915	None		
SBR76-2572	19.0-20.0	17168	6.1	.7	92.1	1.1	16.0	1.7	.912	None		
SBR76-2573	20.0-21.0	17169	2.8	.5	96.0	.7	7.5	1.1	.910	None		
SBR76-2574	21.0-22.0	17170	3.5	.5	94.2	1.8	9.3	1.1	.910	None		
SBR76-2575	22.0-22.9	17171	2.9	.5	95.6	1.0	7.5	1.1	.924	None		
SBR76-2576	22.9-23.3	17172	3.6	2.1	93.1	1.2	9.4a	5.0	.920	None	Mahogany marker	
SBR76-2577	23.3-24.3	17173	3.5	.7	94.8	1.0	9.1	1.7	.912	None		
SBR76-2578	24.3-25.3	17174	3.0	.7	95.6	.7	8.0	1.7	.907	None		
SBR76-2579	25.3-26.3	17175	5.0	.7	93.6	.7	13.1	1.7	.907	None		
SBR76-2580	26.3-27.3	17176	17.7	1.7	77.5	3.1	46.0	4.1	.922	Slight		
SBR76-2581	27.3-28.3	17177	10.6	1.0	85.8	2.6	27.8	2.4	.911	None		
SBR76-2582	28.3-29.5	17178	8.1	.6	89.6	1.7	21.5	1.4	.899	None		
SBR76-2583	29.5-30.6	17179	5.5	.9	91.8	1.8	14.7	2.2	.906	None		
SBR76-2584	30.6-31.8	17180	10.4	.7	86.7	2.2	27.5	1.7	.909	None		
SBR76-2585	31.8-33.3	17181	25.2	2.4	67.2	5.2	67.0	5.8	.903	Heavy	Mahogany bed	
SBR76-2586	33.3-34.3	17182	14.8	1.0	81.1	3.1	39.1	2.4	.908	None		
SBR76-2587	34.3-35.3	17183	12.4	1.3	83.8	2.5	32.9	3.0	.899	None		
SBR76-2588	35.3-36.3	17184	13.3	.7	83.6	2.4	35.1	1.8	.906	None		
SBR76-2589	36.3-37.4	17185	18.8	1.5	76.1	3.6	49.0	3.5	.920	None		

See footnote at end of table.

Core samples received October 15, 1975; assays made on air-dried samples

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Samples from ERDA/LERC's Southern Uinta Basin Corehole 8

Surface elevation: 6,419 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				
			Oil	Water			Oil <sup>1/</sup>	Water			
Laramie	Their										
SBR76-2590	37.4-38.4	17186	7.5	0.9	89.7	1.9	19.5	2.2	0.921	None	
SBR76-2591	38.4-39.4	17187	6.0	.4	90.9	2.7	15.5	1.0	.919	None	
SBR76-2592	39.4-40.4	17188	14.1	.9	82.3	2.7	36.6	2.2	.926	None	
SBR76-2593	40.4-41.6	17189	5.6	.3	92.6	1.5	14.6	.7	.923	None	
SBR76-2594	41.6-42.8	17190	4.9	.3	92.1	2.7	12.9	.7	.916	None	
SBR76-2595	42.8-43.9	17191	16.2	1.2	79.3	3.3	42.6	2.9	.912	None	
SBR76-2596	43.9-44.7	17192	19.6	1.1	75.6	3.7	51.2	2.6	.917	None	
SBR76-2597	44.7-46.3	17193	6.7	.9	91.4	1.0	18.2	2.2	.888	None	
SBR76-2598	46.3-47.0	17194	16.4	.9	79.3	3.4	43.3	2.2	.907	None	
SBR76-2599	47.0-48.3	17195	4.6	.2	93.6	1.6	12.0	.5	.914	None	
SBR76-2600	48.3-49.5	17196	5.1	.8	93.0	1.1	13.4	1.9	.912	None	
SBR76-2601	49.5-50.5	17197	11.8	1.3	84.3	2.6	30.8	3.1	.916	None	
SBR76-2602	50.5-51.2	17198	4.9	1.2	92.5	1.4	12.8	2.9	.917	None	
SBR76-2603	51.2-51.9	17199	2.7	.8	94.5	2.0	7.1	1.9	.918	None	
SBR76-2604	51.9-52.6	17200	2.8	.3	96.1	.8	7.4	.6	.915	None	
SBR76-2605	52.6-53.4	17201	4.7	.3	93.7	1.3	12.6	.7	.907	None	
SBR76-2606	53.4-54.4	17202	11.9	1.2	84.7	2.2	31.4	2.8	.910	None	
SBR76-2607	54.4-55.4	17203	10.0	.4	87.7	1.9	26.9	1.0	.891	None	
SBR76-2608	55.4-56.4	17204	7.5	.5	89.7	2.3	19.8	1.2	.903	None	
SBR76-2609	56.4-57.4	17205	9.8	.8	87.4	2.0	26.1	1.9	.900	None	
SBR76-2610	57.4-58.6	17206	7.7	1.0	89.9	1.4	20.4	2.4	.902	None	
SBR76-2611	58.6-59.8	17207	4.5	.7	93.7	1.1	11.8	1.7	.915	None	
SBR76-2612	59.8-61.2	17208	2.3	.4	96.7	.6	6.1	.9	.921	None	
SBR76-2613	61.2-62.6	17209	4.3	.7	94.1	.9	11.2	1.6	.917	None	
SBR76-2614	62.6-63.4	17210	10.1	.7	87.1	2.1	26.3	1.7	.923	None	
SBR76-2615	63.4-64.4	17211	3.6	.5	95.1	.8	9.4	1.2	.919	None	
SBR76-2616	64.4-65.5	17212	2.1	.5	96.5	.9	5.6a	1.2		None	
SBR76-2617	65.5-66.5	17213	.6	.1	98.3	1.0	1.4a	.2		None	
SBR76-2618	66.5-67.5	17214	1.3	.3	97.6	.8	3.5a	.7		None	
SBR76-2619	67.5-68.5	17215	1.9	.3	96.0	1.8	5.0a	.7		None	

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Surface elevation: 6,419 feet

Sample number			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		
			Oil	Water			Oil <sup>1/</sup>	Water				
Laramie	Their	Run No.	Oil	Water	shale	loss	Oil <sup>1/</sup>	Water				
SBR76-2620	68.5-69.7	17216	4.7	0.4	94.2	0.7	12.5	1.0	0.896	None		
SBR76-2621	69.7-70.9	17217	3.6	.4	95.3	.7	9.5	1.0	.900	None		
SBR76-2622	70.9-72.8	17218	1.6	1.0	96.4	1.0	4.3a	2.4	.920	None		
SBR76-2623	72.8-73.8	17219	3.0	.6	95.9	.5	7.9	1.4	.901	None		
SBR76-2624	73.8-75.2	17220	10.0	.7	86.7	2.6	26.3	1.7	.915	None		
SBR76-2625	75.2-76.6	17221	2.6	.8	95.8	.8	6.8	1.9	.912	None		
SBR76-2626	76.6-77.9	17222	2.0	.7	96.8	.5	5.2a	1.7	.920	None		
SBR76-2627	77.9-79.1	17223	3.1	.7	95.0	1.2	8.1	1.7	.903	None		
SBR76-2628	79.1-80.1	17224	10.0	1.0	86.0	3.0	26.3	2.5	.916	None		
SBR76-2629	80.1-81.1	17225	.8	.4	98.2	.6	2.1a	1.0	.920	None		
SBR76-2630	81.1-82.4	17226	4.6	1.1	93.1	1.2	12.0	2.6	.914	None		
SBR76-2631	82.4-83.8	17227	1.2	2.7	95.9	.2	3.2a	6.4	.920	None		
SBR76-2632	83.8-84.9	17228	4.2	1.0	94.0	.8	11.0	2.4	.914	None		
SBR76-2633	84.9-86.4	17229	1.3	.4	97.6	.7	3.4a	1.0	.920	None		
SBR76-2634	86.4-87.5	17230	.6	.6	98.0	.8	1.5a	1.4	.920	None		
SBR76-2635	87.5-90.2-91.0 <sup>90.2</sup>	17231	.6	1.0	98.1	.3	1.5a <sup>1.0</sup>	2.4	.920	None		
SBR76-2636	91.0-92.5	17232	5.5	.6	92.7	1.2	14.4	1.4	.912	None		
SBR76-2637	92.5-93.8	17233	2.1	.6	96.4	.9	5.6	1.5	.899	None		
SBR76-2638	93.8-94.8	17234	3.3	.4	95.2	1.1	8.9	1.0	.900	None		
SBR76-2639	94.8-96.2	17235	6.5	.3	91.1	2.1	17.3	.7	.898	None		
SBR76-2640	96.2-97.5	17236	1.9	.4	97.1	.6	4.8a	1.0	.920	None		
SBR76-2641	97.5-98.4	17237	3.6	.5	94.9	1.0	9.6	1.2	.904	None		
SBR76-2642	98.4-99.5	17238	.3	.2	97.7	1.8	.9a	.5	.920	None		
SBR76-2643	99.5-100.6	17239	1.7	.4	97.3	.6	4.5a	1.0	.920	None		
SBR76-2644	100.6-102.4	17240	2.6	.9	95.6	.9	7.0	2.2	.904	None		
SBR76-2645	102.4-103.6	17241	1.8	1.1	96.5	.6	4.6a	2.6	.920	None		
SBR76-2646	103.6-104.7	17242	1.3	.3	97.2	1.2	3.4a	.7	.920	None		
SBR76-2647	104.7-106.1	17243	2.8	.4	95.4	1.4	7.6	1.0	.896	None		
SBR76-2648	106.1-107.5	17244	4.2	2.6	92.0	1.2	11.1	6.2	.899	None		
SBR76-2649	107.5-109.4	17245	1.8	2.3	95.2	.7	4.6a	5.5	.920	None		

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Core samples received October 15, 1975; assays made on air-dried samples

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Surface elevation: 6,419 feet

Sample number		Run No.	Yield of product				Gal per ton		Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent shale	Gas + loss	Oil <sup>1/</sup>	Water			
Laramie	Their		Oil	Water							
SBR76-2650	109.4-110.9	17246	0.8	0.6	98.1	0.5	2.2a	1.4	.920	None	
SBR76-2651	110.9-111.5	17247	9.0	.1	88.7	2.2	23.2	.2	0.932	None	
	<u>111.5-117.7</u>		<u>BARREN ROCK AND TAR SAND - NOT SAMPLED</u>								

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

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