

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Sinclair Oil and Gas Company's No. 1 Uintah-Federal 171 well drilled in SE1/4NW1/4  
1,980 feet S/N 1,900 feet E/W of sec. 14, T. 13 S., R. 22 E., Uintah County, Utah

Surface elevation 6,540 feet

Mahogany Markers 6130'

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					
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water	
SBR63-4834A	0- 40						b				
SBR63-4834B	40- 50	86883	1.3	1.6	96.7	0.4	3.3a	3.8		None	
SBR63-4835	50- 60	86884	1.0	1.3	96.9	.8	2.7a	3.1		None	
SBR63-4836	70- 80	86885	1.2	1.8	96.7	.3	3.2a	4.3		None	
SBR63-4837	80- 90	86886	2.4	1.6	95.5	.5	6.3	3.8	0.931	None	
SBR63-4838	90-100	86887	2.4	1.5	95.6	.5	6.3	3.6	.927	None	
SBR63-4839	100-110	86888	1.8	1.8	96.1	.3	4.7a	4.3		None	
SBR63-4840	110-120	86889	1.8	1.2	96.5	.5	4.7a	2.9		None	
SBR63-4841	120-130						b				
SBR63-4842-44	130-160						c				
SBR63-4845	160-170						b				
SBR63-4846	180-190	86890	1.8	1.2	96.5	.5	4.6a	2.9		None	
SBR63-4847	190-200	86891	1.7	1.2	96.9	.2	4.3a	2.9		None	
SBR63-4848	200-210	86892	1.4	1.1	97.0	.5	3.8a	2.6		None	
SBR63-4849	210-220	86893	1.3	1.1	97.1	.5	3.3a	2.6		None	
SBR63-4850	220-230	86894	1.6	1.0	96.6	.8	4.3a	2.3		None	
SBR63-4851	230-240	86895	1.9	1.0	96.7	.4	4.9a	2.4		None	
SBR63-4852	240-250	86896	2.0	1.1	96.6	.3	5.1a	2.6		None	
SBR63-4853	250-260	86897	1.9	1.2	96.3	.6	5.0a	2.9		None	
SBR63-4854	260-270	86898	2.8	1.1	95.5	.6	7.3	2.6	.921	None	
SBR63-4855	270-280	86899	2.5	1.2	95.7	.6	6.4	2.9	.922	None	
SBR63-4856	280-290	86900	2.5	1.1	95.6	.8	6.5	2.6	.926	None	
SBR63-4857	290-300	86901	1.8	1.7	95.8	.7	4.7a	4.0		None	
SBR63-4858	300-310	86902	2.6	1.3	95.2	.9	6.7	3.1	.922	None	
SBR63-4859	310-320	86903	2.5	1.2	95.6	.7	6.4	3.0	.921	None	
SBR63-4860	320-330	86904	2.4	1.2	95.4	1.0	6.1	3.0	.922	None	
SBR63-4861	330-350	86905	2.0	1.7	95.5	.8	5.1a	4.1		None	
SBR63-4862	350-360	86906	2.2	1.5	95.4	.9	5.7	3.7	.920	None	
SBR63-4863	360-370	86907	2.5	1.1	95.2	1.2	6.4	2.6	.925	None	
SBR63-4864	370-380	86908	2.0	1.2	95.8	1.0	5.2	2.9	.924	None	

See footnotes at end of table.

Drill cutting samples received August 16, 1962; assays made on air-dried samples

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Surface elevation 6,540 feet

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Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to coke		
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water		
SBR63-4865	380- 400	86909	1.9	1.3	96.0	0.8	5.1a	3.1			None	
SBR63-4866	400- 410	86910	1.7	1.2	96.4	.7	4.5a	2.9			None	
SBR63-4867	410- 420	86911	7.1	.8	90.2	1.9	18.6	2.0	0.914		None	
SBR63-4868	420- 430	86912	3.0	.8	95.5	.7	8.0	1.8	.913		None	
SBR63-4869	430- 440	86913	5.9	.5	91.7	1.9	15.4	1.1	.922		None	
SBR63-4870	440- 450	86914	3.4	.8	94.0	1.8	8.9	1.9	.922		None	
SBR63-4871	450- 470	86915	2.6	.5	95.8	1.1	6.8	1.2	.921		None	
SBR63-4872	470- 500						Trace					
SBR63-4873-76	500- 570						c					
SBR63-4877-78	570- 600						b					
SBR63-4879-82	600- 640						c					
SBR63-4883	640- 650	86916	1.7	1.9	95.7	.7	4.4a	4.6			None	
SBR63-4884	650- 660	86917	1.6	1.6	95.4	1.4	4.1a	3.8			None	
SBR63-4885	660- 670	86918	1.8	1.8	95.4	1.0	4.7a	4.4			None	
SBR63-4886-92	670- 740						c					
SBR63-4893	740- 750	86919	1.4	3.2	93.6	1.8	3.5a	7.7			None	
SBR63-4894	750- 760	86920	2.0	2.2	94.0	1.8	5.1a	5.4			None	
SBR63-4895	760- 770	86921	2.7	2.9	92.8	1.6	6.9	7.1	.921		None	
SBR63-4896	770- 780	86922	2.3	2.0	94.4	1.3	5.9	4.9	.919		None	
SBR63-4897	780- 790	86923	1.2	2.7	94.9	1.2	3.1a	6.4			None	
SBR63-4898-4903	790- 850						b					
SBR63-4904	910- 920						Trace					
SBR63-4905-06	920- 940						No Oil					
SBR63-4907-08	940- 960						Trace					
SBR63-4909-10	960- 980						No Oil					
SBR63-4911-12	1000-1030						Trace					
SBR63-4913-15	1030-1060						b					
SBR63-4916	1060-1070						Trace					
SBR63-4917-19	1070-1100						No Oil					
SBR63-4920	1110-1120						b					

See footnotes at end of table.

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			Weight percent		Spent shale	Gas + loss			
Laramie	Their		Oil	Water					Oil <sup>1</sup> / Water
SBR63-4921	1120-1130						Trace		
SBR63-4922	1130-1140						c		
SBR63-4923-24	1140-1160						b		
SBR63-4925-28	1160-1200						No Oil		
SBR63-4929-31	1200-1230						Trace		
SBR63-4932-41	1230-1330						No Oil		
SBR63-4942-43	1330-1350						b		
SBR63-4944-45	1350-1370						No Oil		
SBR63-4946-47	1370-1390						Trace		
SBR63-4948-68	1390-1600						No Oil		
SBR63-4969	1600-1700 A						Trace		Duplication  of  Samples
SBR63-4970-71	1600-1700 B-C						b		
SBR63-4972	1600-1700 D						Trace		
SBR63-4973-78	1600-1700 E to J						No Oil		
SBR63-4979-84	1700-1780 A to F						No Oil		
SBR63-4985-86	1700-1780 G-H						Trace		
SBR63-4987-88	1780-1800						Trace		
SBR63-4989-90	1800-1820						b		
SBR63-4991	1820-1830						No Oil		
SBR63-4992	1840-1850						b		
SBR63-4993	1850-1860						c		
SBR63-4994	1860-1870						Trace		
SBR63-4995-99	1870-1920						b		
SBR63-5000	1920-1930						Trace		
SBR63-5001	1930-1940						b		
SBR63-5002	1940-1950						Trace		
SBR63-5003-05	1950-1980						No Oil		
SBR63-5006	1980-1990						Trace		
SBR63-5007-09	1990-2020						c		
SBR63-5010-33	2020-2260						No Oil		

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			Weight percent		Spent shale	Gas + loss	Gal. per ton			
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water
SBR63-5034-38	2260-2310						Trace			
SBR63-5039-47	2310-2400						No Oil			

<sup>1/</sup> "a" indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil", "Trace", "b"--less than 1 gal oil/ton, "c"--1 to 3 gal oil/ton.

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