

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Phillips Petroleum Company's Flat Rock unit well 6 drilled in SE1/4 SW1/4
(660 ft N/S 1980 ft E/W) of sec 33, T 14 S, R 20 E, Uintah County, Utah

Kelly Bushing elevation 7,498 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 ^{1/}				Water
Laramie	Their										
SBR64-6527	10- 20						Trace				
SBR64-6528	20- 30						No oil				
SBR64-6529	30- 40						Trace				
SBR64-6530	40- 50	97971	0.7	1.3	97.6	0.4	1.7a	3.1	None		
SBR64-6531	50- 60	97972	.6	.4	97.8	1.2	2.4a	1.0	None		
SBR64-6532	60- 70	97973	.1	.9	97.7	1.3	.3a	2.2	None		
SBR64-6533	70- 80	97974	.5	.9	97.9	.7	1.3a	2.2	None		
SBR64-6534	80- 90	97975	1.6	.3	97.9	.2	4.1a	.7	None		
SBR64-6535-40	100-160						No oil				
SBR64-6541	250-260	97976	.4	2.8	94.4	2.4	1.2a	6.7	None		
SBR64-6542	260-270	97977	1.5	2.3	95.8	.4	3.8a	5.5	None		
SBR64-6543	270-280	97978	1.7	2.6	95.0	.7	4.5a	6.2	None		
SBR64-6544	280-290	97979	2.2	1.2	96.2	.4	5.9a	2.9	None		
SBR64-6545	290-300	97980	1.9	2.5	94.9	.7	5.0a	6.0	None		
SBR64-6546	300-310	97981	1.0	1.5	96.8	.7	2.5a	3.6	None		
SBR64-6547	310-320	97982	1.2	1.1	97.1	.6	3.0a	2.6	None		
SBR64-6548	320-330	97983	1.1	1.5	97.0	.4	2.8a	3.6	None		
SBR64-6549	330-340	97984	1.8	2.4	95.2	.6	4.8a	5.8	None		
SBR64-6550	340-350	97986	1.2	1.7	97.0	1.0	3.2a	4.1	None		
SBR64-6551	350-360	97987	1.1	1.9	96.6	.4	2.9a	4.6	None		
SBR64-6552	360-370	97988	1.5	2.3	95.7	.5	4.0a	5.5	None		
SBR64-6553	370-380	97989	1.8	2.2	95.7	.3	4.6a	5.3	None		
SBR64-6554	380-390	97990	1.5	1.8	96.1	.6	3.9a	4.3	None		
SBR64-6555	390-400	97991	1.4	2.7	95.4	.5	3.7a	6.5	None		
SBR64-6556	400-410	97992	1.4	2.6	95.6	.4	3.7a	6.2	None		
SBR64-6557	410-420	97993	1.5	2.7	95.3	.5	3.9a	6.5	None		
SBR64-6558	420-430	97994	7.7	1.1	88.6	2.6	20.1 ¹⁵	2.6	0.918		
SBR64-6559	430-440	97995	9.0	1.5	87.6	1.9	23.6 ¹⁵	3.6	.915		
SBR64-6560	440-450	97996	2.0	2.9	94.6	.5	5.2a ¹⁵	7.0	None		
SBR64-6561	450-460	97997	1.6	2.9	94.8	.7	4.2a ¹⁵	7.0	None		

See footnotes at end of table.

Drill cutting samples received November 20, 1963; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3841P, Sheet No. 1 of 4 sheets

July 23, 1964

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Phillips Petroleum Company's Flat Rock Unit well 6 (con.)

Kelly Bushing elevation 7,498 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				
SBR64-6562	460-470	97998	1.8	3.2	94.3	0.7	4.8a	7.7		None		
SBR64-6563	470-480	97999	1.8	2.7	94.2	1.3	4.7a	6.5		None		
SBR64-6564	480-490	98000	1.6	3.2	94.8	.4	4.2a	7.7		None		
SBR64-6565	490-500	98001	1.2	3.6	94.4	.8	3.2a	8.6		None		
SBR64-6566	500-510	98002	2.6	2.2	94.6	.6	6.9	5.3	0.894	None		
SBR64-6567	510-520	98003	2.6	1.5	95.2	.7	6.9	3.6	.896	None		
SBR64-6568	520-530	98004	2.7	1.4	95.3	.6	7.2	3.4	.903	None		
SBR64-6569	530-540	98005	2.5	1.3	95.3	.9	6.6	3.1	.903	None		
SBR64-6570	540-550	98006	2.7	1.5	95.2	.6	7.2	3.6	.899	None		
SBR64-6571-72	550-570						No oil					
SBR64-6573	570-580	98007	2.1	1.1	96.3	.5	5.6	2.6	.899	None		
SBR64-6574	580-590	98008	1.8	.7	96.4	1.1	4.6a	1.8		None		
SBR64-6575	590-600	98009	1.8	.8	96.3	1.1	4.7a	1.9		None		
SBR64-6576	600-610	98010	1.8	.8	96.4	1.0	4.8a	1.9		None		
SBR64-6577	610-620	98011	2.3	1.1	96.1	.5	6.0	2.6	.897	None		
SBR64-6578	620-630	98012	.9	1.5	97.5	.1	2.2a	3.6		None		
SBR64-6579-80	630-650						No oil					
SBR64-6581	650-660						c					
SBR64-6582	670-680						c					
SBR64-6583	690-700	98013	1.3	.7	97.7	.3	3.4a	1.7		None		
SBR64-6584	700-710	98014	.9	.8	97.7	.6	2.3a	1.9		None		
SBR64-6585	710-720	98015	.6	.5	97.7	1.2	1.5a	1.3		None		
SBR64-6586	720-730	98016	.9	.9	97.7	.5	2.3a	2.2		None		
SBR64-6587	730-740	98017	1.1	.1	98.3	.5	2.9a	.2		None		
SBR64-6588	740-750	98018	1.1	.2	98.2	.5	2.9a	.5		None		
SBR64-6589	750-760	98019	.8	.4	98.5	.3	2.1a	1.0		None		
SBR64-6590	760-770	98020	.6	.3	98.2	.9	1.5a	.8		None		
SBR64-6591	770-780	98021	.8	.5	98.2	.5	2.1a	1.2		None		
SBR64-6592	780-790	98022	.7	.5	97.8	1.0	1.9a	1.2		None		
SBR64-6593	790-800	98023	.8	.5	98.0	.7	2.1a	1.2		None		

See footnotes at end of table.

Drill cutting samples received November 20, 1963; assays made on air-dried samples

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Samples from Phillips Petroleum Company's Flat Rock Unit well 6 (con.)

Kelly Bushing elevation 7,498 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		
			Oil	Water			Oil ^{1/}	Water				
Laramie	Their											
SBR64-6594	800- 810						Trace					
SBR64-6595-97	810- 840						No oil					
SBR64-6598	840- 850						Trace					
SBR64-6599	850- 860						No oil					
SBR64-6600	860- 870						b					
SBR64-6601-44	870-1310						No oil					
SBR64-6645	1310-1320						Trace					
SBR64-6646	1330-1340						No oil					
SBR64-6647	1350-1360						No oil					
SBR64-6648	1360-1370						b					
SBR64-6649	1370-1380						c					
SBR64-6650	1380-1390	98024	0.5	1.1	97.5	0.9	1.2a	2.6		None		
SBR64-6651	1390-1400	98025	.6	1.5	97.4	.5	1.5a	3.6		None		
SBR64-6652	1400-1410	98026	1.0	1.2	96.3	1.5	2.5a	2.9		None		
SBR64-6653	1410-1420	98027	1.0	1.7	96.6	.7	2.7a	4.1		None		
SBR64-6654	1420-1430	98028	.8	1.1	97.2	.9	2.1a	2.6		None		
SBR64-6655	1430-1440	98029	.7	1.2	97.5	.6	1.8a	2.9		None		
SBR64-6656	1440-1450	98030	.6	.6	97.2	1.6	1.6a	1.3		None		
SBR64-6657	1450-1460	98031	.5	1.8	96.9	.8	1.2a	4.3		None		
SBR64-6658	1460-1470	98032	.7	1.6	97.5	.2	1.7a	3.8		None		
SBR64-6659	1470-1480	98033	.6	1.5	97.5	.4	1.6a	3.6		None		
SBR64-6660	1480-1490	98034	.8	1.5	97.3	.4	2.0a	3.6		None		
SBR64-6661	1490-1500	98035	.8	1.2	97.4	.6	2.0a	2.9		None		
SBR64-6662	1500-1510	98036	.7	1.2	97.9	.2	1.7a	3.0		None		
SBR64-6663	1510-1520	98037	.8	1.1	97.8	.3	2.0a	2.6		None		
SBR64-6664	1520-1530	98038	.7	1.0	98.0	.3	1.8a	2.4		None		
SBR64-6665	1540-1550	98039	.5	1.2	97.8	.5	1.3a	2.9		None		
SBR64-6666	1550-1560	98040	.6	1.0	98.0	.4	1.6a	2.4		None		
SBR64-6667	1560-1570	98041	.6	1.4	97.4	.6	1.7a	3.4		None		
SBR64-6668	1570-1580	98042	.8	1.6	97.3	.3	2.1a	3.8		None		

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			Weight percent		Spent shale	Gas + loss	Gal per ton			
Laramie	Their		Oil	Water					Oil ^{1/}	Water
SBR64-6669	1580-1590	98043	0.7	1.6	97.5	0.2	1.8a	3.8	None	
SBR64-6670	1590-1600	98044	.7	.6	97.6	1.1	1.7a	1.5	None	
SBR64-6671	1600-1610						c			
SBR64-6672-75	1690-1730						No oil			
SBR64-6676-78	1730-1760						b			
SBR64-6679	1770-1780						c			
SBR64-6680	1780-1790	98045	.2	.4	99.0	.4	.6a	.8	None	
SBR64-6681	1790-1800	98046	.1	.7	98.6	.6	.2a	1.8	None	
SBR64-6682	1800-1810						No oil			
SBR64-6683-84	1810-1830						b			
SBR64-6685	1830-1840						No oil			
SBR64-6686	1840-1850	98047	.4	1.2	98.0	.4	1.1a	2.9	None	
SBR64-6687	1850-1860	98048	1.2	.3	97.7	.8	3.2a	.7	None	
SBR64-6688	1860-1870	98049	.6	1.2	97.9	.3	1.6a	2.9	None	
SBR64-6689	1870-1880	98050	.3	1.1	97.9	.7	.8a	2.6	None	
SBR64-6690	1880-1890						b			
SBR64-6691-6701	1890-2000						No oil			

^{1/} "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.

Drill cutting samples received November 20, 1963; assays made on air-dried samples