

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Texaco, Incorporated's Leo Unit No. 1 Well drilled in the SE1/4SW1/4
(660 feet N/S, 1,854 feet E/W) of sec 20, T 15 N, R 111 W, Sweetwater County, Wyoming

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		
SBR73-11508-11	900-1020						No oil			
SBR73-11512	1080-1110						b			
SBR73-11513	1110-1140						No oil			
SBR73-11514-5	1140-1200						Trace			
SBR73-11516	1200-1230	87913	1.1	2.3	95.5	1.1	2.8a	5.5		None
SBR73-11517	1230-1260	87914	.2	2.8	96.2	.8	.6a	6.7		None
SBR73-11518	1260-1290	87915	.2	2.0	97.3	.5	.4a	4.8		None
SBR73-11519	1290-1320	87916	.9	2.3	95.8	1.0	2.3a	5.5		None
SBR73-11520	1320-1350	87917	.6	2.5	96.0	.9	1.6a	6.0		None
SBR73-11521	1350-1380	87918	1.8	3.0	94.2	1.0	4.5a	7.2		None
SBR73-11522	1380-1420	87919	2.9	2.7	93.0	1.4	7.6	6.5	0.910	None
SBR73-11523	1470-1500	87920	.5	1.7	97.2	.6	1.3a	4.1		None
SBR73-11524	1500-1530						Trace			
SBR73-11525	1530-1560						No oil			
SBR73-11526	1560-1590						Trace			
SRR73-11527	1590-1620						No oil			
SBR73-11528	1680-1710						b			
SBR73-11529	1710-1740						Trace			
SBR73-11530	1740-1770						No oil			
SBR73-	1770-1800						Trace			
SBR73-11531	1800-1830						No oil			
SBR73-11532	1830-1860						Trace			
SBR73-11533-4	1860-1920						No oil			
SBR73-11535-6	1920-1980						Trace			
SBR73-11537	1980-2010	87921	.0	1.2	98.3	.5	Trace	2.9		None
SBR73-11538	2010-2040	87922	.0	1.0	98.9	.1	Trace	2.3		None
SBR73-11539	2040-2070	87923	.8	.7	98.2	.3	2.1a	1.6		None
SBR73-11540	2070-2100	87924	.6	1.1	97.6	.7	1.5a	2.6		None
SBR73-11541	2100-2130	87925	.2	2.0	97.5	.3	.4a	4.8		None
SBR73-11542	2130-2160	87926	1.7	1.4	95.9	1.0	4.4a	3.4		None

See footnote at end of table.

Drill cutting samples received July 27, 1973; assays made on air-dried samples

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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			Gal per ton					
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR73-11543	2160-2190	87927	0.2	1.2	98.1	0.5	0.5a	2.9		None	
SBR73-11544	2190-2220	87928	.0	.6	98.7	.7	No oil	1.5		None	
SBR73-11545	2220-2250	87929	.1	1.3	98.7	.2	.2a	3.1		None	
SBR73-11546	2250-2280	87930	.0	1.1	98.4	.5	Trace	2.6		None	
SBR73-11547	2280-2300	87931	1.1	1.0	97.1	.8	2.9a	2.3		None	
SBR73-11548	2300-2310	87932	.7	.7	96.9	1.7	1.9a	1.6		None	
SBR73-11549	2310-2320	87933	1.4	2.2	95.3	1.1	3.7a	5.3		None	
SBR73-11550	2330-2340	87934	.1	1.8	97.2	.9	.1a	4.3		None	
SBR73-11551	2340-2350	87935	.2	1.7	97.6	.5	.5a	4.1		None	
SBR73-11552	2350-2360	87936	.2	2.9	96.7	.2	.4a	7.0		None	
SBR73-11553	2360-2370	87937	.0	.8	99.0	.2	No oil	1.9		None	
SBR73-11554	2370-2380	87938	.2	.9	98.6	.3	.5a	2.2		None	
SBR73-11555	2380-2390	87939	.2	.9	98.7	.2	.5a	2.2		None	
SBR73-11556	2390-2400	87940	.3	.8	98.8	.1	.7a	1.9		None	
SBR73-11557	2400-2410	87941	.2	.4	99.1	.3	.5a	1.0		None	
SBR73-11558	2410-2420	87942	.2	.8	98.7	.3	.4a	2.0		None	
SBR73-11559	2420-2430	87943	1.6	1.0	96.7	.7	4.1a	2.4		None	
SBR73-11560	2430-2440	87944	1.3	1.6	96.2	.9	3.4a	3.8		None	
SBR73-11561	2440-2450	87945	.3	1.5	97.6	.6	3.6a	.7		None	
SBR73-11562	2450-2460	87946	.1	2.3	97.2	.4	.3a	5.5		None	
SBR73-11563	2460-2470	87947	1.3	1.2	97.1	.4	3.3a	2.8		None	
SBR73-11564	2470-2480	87948	1.2	.7	97.4	.7	3.0a	1.8		None	
SBR73-11565	2480-2490	87982	2.0	.5	96.5	1.0	5.1a	1.2		None	
SBR73-11566	2490-2500	87950	2.1	.8	96.1	1.0	5.5	1.9	0.914	None	
SBR73-11567	2500-2510	87951	1.7	1.0	96.3	1.0	4.5a	2.4		None	
SBR73-11568	2510-2520	87952	1.6	1.0	96.7	.7	4.2a	2.4		None	
SBR73-11569	2520-2530	87953	1.9	1.5	95.5	1.1	5.0	3.6	.913	None	
SBR73-11570	2530-2540	87954	2.3	1.5	94.9	1.3	6.1	3.6	.917	None	
SBR73-11571	2540-2550	87955	3.5	.9	94.3	1.3	9.2	2.2	.911	None	
SBR73-11572	2550-2560	87956	1.2	1.0	96.6	1.2	3.2a	2.4		None	

See footnote at end of table.

Drill cutting samples received July 27, 1973; assays made on air-dried samples

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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		
SBR73-11573	2570-2585	87957	4.4	0.7	92.7	2.2	11.7	1.7	0.907	None		
SBR73-11574	2585-2600	87958	1.4	.8	96.8	1.0	3.6a	1.9		None		
SBR73-11575	2600-2620	87959	4.5	1.3	92.4	1.8	11.9	3.1	.906	None		
SBR73-11576	2620-2640	87960	4.3	1.2	91.9	2.6	11.4	2.9	.908	None		
SBR73-11577	2640-2660	88007	8.1	1.2	87.6	3.1	21.5	2.9	.908	None		
SBR73-11578	2700-2720	87961	3.9	1.5	92.1	2.5	10.3	3.6	.907	None		
SBR73-11579	2720-2740	87963	4.0	1.1	92.4	2.5	10.4	2.6	.911	None		
SBR73-11580	2740-2760	87964	2.8	1.7	93.4	2.1	7.4	4.1	.901	None		
SBR73-11581	2760-2780	87965	3.0	.6	94.6	1.8	8.0	1.4	.904	None		
SBR73-11582	2790-2800	87966	3.3	1.0	93.1	2.6	8.7	2.4	.918	None		
SBR73-11583	2800-2820	87967	2.0	1.4	94.9	1.7	5.2a	3.4		None		
SBR73-11584	2820-2840	87968	3.4	1.3	92.9	2.4	8.9	3.1	.907	None		
SBR73-11585	2840-2860	87969	3.6	.9	93.5	2.0	9.4	2.2	.907	None		
SBR73-11586	2860-2880	87970	3.3	1.0	93.9	1.9	8.6	2.4	.904	None		
SBR73-11587	2880-2900	87971	3.3	1.2	93.7	1.8	8.7	2.9	.904	None		
SBR73-11588	2900-2920	87972	2.9	1.1	93.6	2.4	7.6	2.6	.906	None		
SBR73-11589	2920-2940	87973	3.0	1.2	94.2	1.6	8.0	2.9	.914	None		
SBR73-11590	2940-2960	87974	1.0	1.0	95.4	2.6	2.6	2.4	.917	None		
SBR73-11591	2960-2980	87975	7.3	.7	90.0	2.0	19.0	1.8	.913	None		
SBR73-11592	2980-3000	87976	6.9	.8	90.2	2.1	18.2	1.9	.912	None		
SBR73-11593	3000-3020	87977	5.4	1.3	92.0	1.3	14.2	3.1	.909	None		
SBR73-11594	3020-3040		Sample destroyed									
SBR73-11595	3040-3060	87979	5.4	1.5	91.2	1.9	14.1	3.6	.910	None		
SBR73-11596	3060-3085	87980	5.0	.9	91.5	2.6	13.0	2.2	.919	None		
SBR73-11597	3090-3100	87981	6.0	1.9	90.4	1.7	15.7	4.4	.916	None		

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 July 27, 1973; assays made on air-dried samples