

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Davis Oil Company's Nuclear Federal No. 1 well drilled in SW1/4NE1/4 (1989 feet S/N 3300 feet E/W) of sec 4, T 15 N, R 100 W, Sweetwater County, Wyoming

Kelly Bushing elevation 8,639 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		Gal per ton						
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR70-7114-33	100- 300					No Oil				
SBR70-7134	300- 320	52862	0.9	3.8	93.9	1.4	2.3a	9.1	None	
SBR70-7135	320- 330	52863	.7	3.4	94.5	1.4	1.7a	8.1	None	
SBR70-7136	330- 360	52864	5.6	4.2	88.4	1.8	14.2	10.1	0.934	None
SBR70-7137	360- 395	52865	10.3	2.6	83.1	4.0	26.9a	6.2	None	
SBR70-7138	395- 425	52866	.7	6.0	92.0	1.3	1.7a	14.3	None	
SBR70-7139	425- 430	52867	1.2	3.1	95.0	.7	3.2a	7.5	None	
SBR70-7140	430- 445	52868	.3	2.3	96.0	1.4	.8a	5.4	None	
SBR70-7141	445- 455	52869	5.8	2.0	90.0	2.2	15.2a	4.8	None	
SBR70-7142	455- 465	52870	2.6	2.1	93.4	1.9	6.7	5.0	.921	None
SBR70-7143	465- 475	52871	6.2	2.2	89.3	2.3	15.9	5.3	.926	None
SBR70-7144	475- 485	52872	8.4	2.3	86.6	2.7	21.8	5.4	.930	None
SBR70-7145	485- 500	52873	6.2	1.7	90.9	1.2	16.3	4.1	.918	None
SBR70-7146	500- 515	52874	3.6	1.5	93.2	1.7	9.4	3.6	.915	None
SBR70-7147	515- 542	52875	6.6	1.6	89.6	2.2	17.1	3.8	.918	None
SBR70-7148	542- 545	52876	3.9	1.6	92.8	1.7	10.3	3.8	.915	None
SBR70-7149	545- 555	52877	1.7	2.5	94.3	1.5	4.4a	6.0	None	
SBR70-7150	555- 565	52878	2.2	2.1	94.3	1.4	5.9	5.0	.915	None
SBR70-7151	565- 578	52879	3.7	1.8	92.2	2.3	9.7	4.3	.914	None
SBR70-7152	578- 588	52880	.5	2.0	95.8	1.7	1.3a	4.8	None	
SBR70-7153	588- 598	52881	.2	2.6	96.1	1.1	.4a	6.2	None	
SBR70-7154	598- 608	52882	.0	3.4	95.5	1.1	Trace	8.1	None	
SBR70-7155	608- 640	52883	.0	3.6	95.7	.7	Trace	8.6	None	
SBR70-7156-60	1236-1370						No Oil			
SBR70-7161	1370-1380						Trace			
SBR70-7162-66	1380-1516						No Oil			

^{1/} "a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil", "Trace".

Drill cutting samples received February 26, 1970; Assays made on air-dried samples