

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Amoco Production Company's Whiskey Butte Unit Well 3 drilled in the
NE1/4SW1/4 (2080 feet FSL, 1099 feet FWL) of sec. 19, T 22 N, R 111 W, Lincoln County, Wyoming

Surface elevation: 6,471 feet

Kelly Bushing elevation: 6,486 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		
SBR76-11337	500-530						Trace			
SBR76-11338-39	530-590						c			
SBR76-11340	590-620						b			
SBR76-11341	620-650	24273	0.8	2.6	95.9	0.7	2.0a	6.2		None
SBR76-11342	650-680	24274	.6	1.4	97.7	.3	1.7a	3.4		None
SBR76-11343	680-710	24275	.7	1.5	97.2	.6	1.8a	3.6		None
SBR76-11344	710-740	24276	.5	1.6	97.3	.6	1.3a	3.8		None
SBR76-11345	740-770	24277	.2	1.5	97.2	1.1	.6a	3.6		None
SBR76-11346	770-800	24278	.1	1.1	98.0	.8	.3a	2.5		None
SBR76-11347	800-830	24279	.6	1.8	95.5	2.1	1.5a	4.3		None
SBR76-11348	830-860	24280	5.8	1.2	91.2	1.8	15.2	2.9	0.911	None
SBR76-11349	860-890	24281	7.2	1.9	89.2	1.7	18.9	4.6	.908	None
SBR76-11350	890-920	24282	6.8	2.0	89.2	2.0	18.0	4.8	.907	None
SBR76-11351	920-960	24283	.9	7.7	97.6	.8	2.3a	1.8		None
SBR76-11352	1030-1060	24284	1.9	1.8	95.1	1.2	5.1a	4.2		None
SBR76-11353	1090-1120	24285	.9	1.5	96.9	.7	2.3a	3.6		None
SBR76-11354	1120-1150	24286	.6	1.6	96.8	1.0	1.7a	3.8		None
SBR76-11355	1190-1220						c			
SBR76-11356-59	1250-1360						b			
SBR76-11360	1360-1390	24287	.6	2.9	95.5	1.0	1.5a	7.0		None
SBR76-11361	1390-1420	24288	.5	2.8	95.5	1.2	1.4a	6.7		None
SBR76-11362	1420-1450						c			

^{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 cuttings received May 27, 1976; assays made on air-dried samples