

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Sands American Corporation's Federal Well #1-4, drilled in  
the SW1/4SE1/4 of sec 4, T 16 N, R 94 W, Sweetwater County, Wyoming

Surface elevation 6,882 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	Spent shale		Gas + loss	Tendency to coke	
Laramie	Their		Oil	Water						
SBR74-9512-24	0- 260									
SBR74-9525-33	1020-1200						No oil			
SBR74-9534	1200-1220						b			
SBR74-9535	1220-1240						No oil			
SBR74-9536	1240-1260						Trace			
SBR74-9537	1260-1280						No oil			
SBR74-9538	1280-1300						b			
SBR74-9539-46	1300-1460						No oil			
SBR74-9547	1660-1680	94546	1.0	4.0	94.2	0.8	2.6a	9.6	None	
SBR74-9548-9	1680-1720						Trace			
SBR74-9550	1720-1740						c			
SBR74-9551-2	1740-1780						b			
SBR74-9553	1780-1800						Trace			
SBR74-9554	1800-1820	94547	1.1	3.8	94.3	.8	2.8a	9.1	None	
SBR74-9555	1820-1840						No oil			
SBR74-9556	1840-1860						Trace			
SBR74-9557	1860-1880						b			
SBR74-9558-61	1880-1960						No oil			
SBR74-9562	1960-1980						c			
SBR74-9563	1980-2000						No oil			
SBR74-9564	2000-2020						c			
SBR74-9565	2020-2040						No oil			
SBR74-9566	2040-2060						b			
SBR74-9567-9	2060-2120						No oil			
SBR74-9570	2320-2340						b			
SBR74-9571-7	2340-2480						Trace			
SBR74-9578	2480-2500						No oil			
SBR74-9579-80	2500-2540						Trace			
SBR74-9581	2540-2560						c			
SBR74-9582-5	2580-2660						b			

See footnote at end of table.

Drill cutting samples received April 23, 1974; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Sands American Corporation's Federal Well #1-4 (con.)

Surface elevation 6,882 feet

Sample number Laramie	Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks	
		Weight percent		Gas + loss	Gal per ton		Tendency to coke			
Their		Oil	Water		Spent shale			Oil <sup>1/</sup>	Water	
SBR74-9586		2660-2680				c				
SBR74-9587		2680-2700				Trace				
SBR74-9588-92		2700-2800				No oil				
SBR74-9593-9		2820-2960				No oil				
SBR74-9600-9626		2980-3520				No oil				
SBR74-9627-8		3520-3560				Trace				
SBR74-9629		3560-3580				b				
SBR74-9630-2		3580-3640				Trace				
SBR74-9633-4		3640-3680				b				
SBR74-9635		3680-3700				Trace				
SBR74-9636		3700-3720				c				
SBR74-9637-8		3720-3760				Trace				
SBR74-9639-44		3760-3880				No oil				
SBR74-9645-7		3880-3940				Trace				
SBR74-9648-9		3940-3980				No oil				
SBR74-9650-1		3980-4020				b				
SBR74-9652-64		4020-4280				c			Some coal	
SBR74-9665	94548	4280-4300	11.8	3.5	81.3	3.4	28.5	8.4	0.995	None
SBR74-9666	94549	4300-4320	.0	3.7	95.9	.4	.0	8.9		None
SBR74-9667-9		4320-4380					c			Coal
SBR74-9670		4380-4400					b			
SBR74-9671		4400-4420					Trace			
SBR74-9672-5		4420-4500					c			
SBR74-9676		4500-4520					b			
SBR74-9677		4520-4540					c			
SBR74-9678		4540-4560					Trace			
SBR74-9679-82		4560-4640					b			
SBR74-9683-4		4640-4680					c			
SBR74-9685		4680-4700					b			
SBR74-9686		4700-4720					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 cutting samples received April 23, 1974; assays made on air-dried samples