

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Energetics Incorporated's Federal Well 32-22 drilled in the  
SW1/4NE1/4 (1980 feet FNL, 1980 feet FEL) of sec. 22, T 25 N, R 111 W, Sweetwater County, Wyoming

Surface elevation: 6,879 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		Gas + loss	Gal per ton				
Laramie	Their		Oil	Water		Spent shale		Oil <sup>1/</sup>	Water	
SBR76-11178-90	0-130						No oil			
SBR76-11191	130-140						b			
SBR76-11192-99	140-220						No oil			
SBR76-11200	220-230						Trace			
SBR76-11201	230-240						c			
SBR76-11202	240-250						Trace			
SBR76-11203	250-260						c			
SBR76-11204	260-270						Trace			
SBR76-11205	270-280						b			
SBR76-11206-07	280-300						No oil			
SBR76-11208	300-310						Trace			
SBR76-11209	310-320	24243	4.4	2.1	90.8	2.7	11.5	5.0	0.908	None
SBR76-11210	320-330	24244	1.0	2.4	95.9	.7	2.6a	5.8		None
SBR76-11211	330-340	24245	.8	2.2	96.4	.6	2.2a	5.3		None
SBR76-11212	340-350	24246	.2	2.2	96.6	1.0	.5a	5.3		None
SBR76-11213	350-360						c			
SBR76-11214	360-370						b			
SBR76-11215	370-380	24247	.3	1.7	97.2	.8	.7a	4.1		None
SBR76-11216	380-390	24248	.2	1.7	98.0	.1	.5a	4.1		None
SBR76-11217	390-400	24249	.4	1.9	97.3	.4	.9a	4.6		None
SBR76-11218	400-410	24250	.3	1.3	97.3	1.1	.8a	3.1		None
SBR76-11220	420-430	24252	1.9	1.9	95.5	.7	5.0a	4.6		None
SBR76-11221	430-440	24253	5.0	1.3	92.2	1.5	13.3	3.1	.900	None
SBR76-11222	440-450	24254	5.1	.8	92.7	1.4	13.6	1.9	.907	None
SBR76-11223	460-470	24255	4.7	1.1	92.5	1.7	12.3	2.6	.914	None
SBR76-11224	470-480	24256	2.6	1.5	94.6	1.3	6.9	3.6	.904	None
SBR76-11225	480-490	24257	2.5	1.4	94.9	1.2	6.6	3.4	.903	None
SBR76-11226	490-500	24258	1.7	2.3	95.6	.4	4.4a	5.5		None
SBR76-11227	500-510	24259	4.0	2.0	92.8	1.2	10.5	4.8	.903	None
SBR76-11228	510-520	24260	1.8	1.6	95.9	.7	4.8a	3.8		None

See footnote at end of table.

Drill cuttings received August 10, 1976; 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 <sup>1/</sup>	Water	coke
SBR76-11229	520-530	24261	1.6	1.6	95.6	1.2	4.2a	3.8	None	
SBR76-11230	530-540	24262	1.9	1.6	95.4	1.1	5.0a	3.8	None	
SBR76-11231	540-550	24263	2.0	1.6	95.2	1.2	5.4	3.8	0.899	None
SBR76-11232	550-560	24264	1.2	1.6	95.7	1.5	3.2a	3.8	None	
SBR76-11233	560-570	24265	1.2	1.7	96.1	1.0	3.2a	4.1	None	
SBR76-11234	570-580	24266	.6	1.1	97.2	1.1	1.6a	2.6	None	
SBR76-11235	580-590	24267	1.0	1.5	96.4	1.1	2.6a	3.6	None	
SBR76-11236	590-600	24268	.9	1.5	96.8	.8	2.4a	3.6	None	
SBR76-11237	600-610	24269	.5	1.2	97.8	.5	1.4a	2.9	None	
SBR76-11238-40	610-640						c			

<sup>1/</sup> "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 August 10, 1976; assays made on air-dried samples