

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Wolf Energy Company's Federal-Sandy Bend Unit Well #1 drilled in the SE1/4SE1/4  
(660 feet FSL, 660 feet FEL) of sec 14, T 23 N, R 108 W, Sweetwater County, Wyoming

Surface elevation 6,502 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss		Gal per ton		
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water
SBR75-8455-63	40-130						No oil			
SBR75-8464-5	130-150						Trace			
SBR75-8466-8	150-180						No oil			
SBR75-8469	180-190						Trace			
SBR75-8470-4	190-240						No oil			
SBR75-8475	240-250						Trace			
SBR75-8476-86	250-360						No oil			
SBR75-8487	410-420	2807	1.3	2.3	93.7	2.7	3.4a	5.5		None
SBR75-8488	420-430	2808	1.8	3.6	93.5	1.1	4.8a	8.6		None
SBR75-8489	430-440	2809	1.7	3.4	93.4	1.5	4.3a	8.1		None
SBR75-8490	440-450	2810	2.5	3.4	92.8	1.3	6.6	8.1	0.914	None
SBR75-8491	450-460	2811	2.3	3.2	93.1	1.4	6.1	7.7	.914	None
SBR75-8492	460-470	2812	2.3	3.4	93.0	1.3	6.0	8.1	.914	None
SBR75-8493	470-480	2813	2.3	3.6	92.8	1.3	6.0	8.6	.911	None
SBR75-8494	480-490	2814	6.6	1.6	89.8	2.0	17.3	3.8	.910	None
SBR75-8495	490-500	2815	7.2	1.7	88.8	2.3	19.1	4.1	.904	None
SBR75-8496	500-510	2816	8.4	1.8	87.3	2.5	22.4	4.3	.899	None
SBR75-8497	510-520	2817	2.4	1.8	94.4	1.4	6.2	4.3	.906	None
SBR75-8498	520-530	2818	2.3	2.2	94.2	1.3	6.0	5.3	.900	None
SBR75-8499	530-540	2819	5.5	2.1	90.3	2.1	14.7	5.0	.901	None
SBR75-8500	540-550	2820	5.2	2.0	91.3	1.5	13.7	4.8	.904	None
SBR75-8501	550-560	2821	6.7	1.0	90.6	1.7	17.7	2.4	.904	None
SBR75-8502	560-570	2822	15.5	1.2	78.8	4.5	41.4	2.9	.901	Slight
SBR75-8503	570-580	2823	6.0	.8	91.3	1.9	15.8	1.9	.910	None
SBR75-8504	580-590	2824	6.0	.9	91.4	1.7	15.7	2.3	.909	None
SBR75-8505	590-600	2825	7.7	.9	89.3	2.1	20.3	2.2	.911	None
SBR75-8506	600-610	2826	7.8	.7	89.1	2.4	20.5	1.8	.910	None
SBR75-8507	610-620	2827	3.8	.7	92.9	2.6	9.9	1.8	.919	None
SBR75-8508	620-630	2828	4.5	1.0	92.7	1.8	12.0	2.4	.909	None
SBR75-8509	630-640	2829	9.0	1.1	87.2	2.7	23.6	2.6	.910	None

See footnote at end of table.

Drill cutting samples received December 5, 1974, assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Wolf Energy Company's Federal-Sandy Bend Unit Well #1 (con.)

Surface elevation 6,502 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss		Gal per ton		
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water
SBR75-8510	640- 650	2830	9.1	1.1	86.8	3.0	23.9	2.6	0.910	None
SBR75-8511	650- 660	2831	9.0	1.1	87.0	2.9	23.9	2.6	.908	None
SBR75-8512	660- 670	2832	9.3	1.0	86.9	2.8	24.6	2.4	.908	None
SBR75-8513	670- 680	2833	12.1	1.5	83.1	3.3	32.1	3.6	.905	None
SBR75-8514	680- 690	2834	12.2	1.4	83.0	3.4	32.2	3.4	.906	None
SBR75-8515	690- 700	2835	12.1	1.4	83.3	3.2	32.0	3.4	.905	None
SBR75-8516	700- 710	2836	1.5	1.6	95.9	1.0	3.9a	3.8		None
SBR75-8517	710- 720	2837	1.6	1.2	96.0	1.2	4.2a	2.9		None
SBR75-8518	720- 730	2838	2.5	1.4	94.8	1.3	6.6	3.4	.902	None
SBR75-8519	730- 740	2839	2.1	1.5	95.1	1.3	5.6	3.6	.907	None
SBR75-8520	740- 750	2840	2.0	1.6	95.2	1.2	5.2a	3.8		None
SBR75-8521	750- 760	2841	2.0	1.5	95.2	1.3	5.2a	3.6		None
SBR75-8522-4	760- 790						b			
SBR75-8525	790- 800	2842	1.9	1.9	95.0	1.2	5.1a	4.6		None
SBR75-8526	800- 810	2843	1.4	1.4	95.7	1.5	3.6a	3.4		None
SBR75-8527-30	820- 860						Trace			
SBR75-8531-3	860- 890						No oil			
SBR75-8534	890- 900						Trace			
SBR75-8535	900- 910						No oil			
SBR75-8536-9	910- 950						b			
SBR75-8540-2	950- 980						No oil			
SBR75-8543	980- 990						Trace			
SBR75-8544	990-1000						b			
SBR75-8545-7	1000-1030						No oil			
SBR75-8548	1030-1040						b			
SBR75-8549	1040-1050						Trace			
SBR75-8550	1060-1070						b			
SBR75-8551	1070-1080						c			
SBR75-8552	1080-1090						No oil			
SBR75-8553	1090-1100						Trace			

See footnote at end of table.

Drill cutting samples received December 5, 1974; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Wolf Energy Company's Federal-Sandy Bend Unit Well #1 (con.)

Surface elevation 6,502 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 <sup>1/</sup>	Water		
SBR75-8554-5	1100-1120						No oil			
SBR75-8556	1120-1130						Trace			
SBR75-8557	1130-1140						No oil			
SBR75-8558	1140-1150						Trace			
SBR75-8559	1150-1160						No oil			
SBR75-8560	1160-1170						b			
SBR75-8561-2	1170-1190						c			
SBR75-8563	1190-1200	2844	0.7	2.0	95.4	1.9	1.8a	4.8		None
SBR75-8564	1200-1230	2845	1.9	1.1	95.3	1.7	5.0a	2.6		None
SBR75-8565	1230-1260	2846	1.8	1.0	96.1	1.1	4.8a	2.4		None
SBR75-8566-80	1260-1710						No oil			

<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 cutting samples received December 5, 1974; assays made on air-dried samples