

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Pacific Transmission Company's Federal-Fontanelle Unit II well 41-9 drilled in the NE1/4NE1/4 (800 feet FNL, 460 feet FEL) of sec 9, T 23 N, R 112 W, Lincoln County, Wyoming

Surface elevation 7,068 feet

Sample number		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		
Laramie	Their		Oil	Water		Spent shale			Oil <sup>1/</sup>	Water
SBR75-6819-20	0- 20						No Oil			
SBR75-6821	20- 30						Trace			
SBR75-6822-3	30- 50						No Oil			
SBR75-6824	50- 60						Trace			
SBR75-6825-7	60- 90						No Oil			
SBR75-6828	90-100						c			
SBR75-6829-32	100-140						No Oil			
SBR75-6833	140-150						b			
SBR75-6834-46	150-280						No Oil			
SBR75-6847	280-290	2243	3.5	1.3	94.0	1.2	9.3	3.1	0.904	None
SBR75-6848	290-300	2244	.0	.1	99.7	.2	No Oil	.2		None
SBR75-6849	300-310	2245	3.9	1.3	93.7	1.1	10.4	3.1	.905	None
SBR75-6850	310-320	2246	4.3	1.5	93.1	1.1	11.4	3.6	.901	None
SBR75-6851	320-330	2247	1.9	1.2	96.1	.8	5.1a	2.9		None
SBR75-6852	330-340	2248	2.6	1.3	95.0	1.1	6.9	3.1	.904	None
SBR75-6853	340-350	2249	2.1	1.3	95.6	1.0	5.6	3.1	.906	None
SBR75-6854	350-360	2250	2.0	1.2	95.5	1.3	5.4	2.8	.906	None
SBR75-6855	360-370	2251	2.6	1.3	95.1	1.0	6.9	3.1	.909	None
SBR75-6856	370-380	2252	3.7	1.6	92.9	1.8	9.7	3.8	.908	None
SBR75-6857	380-390	2253	3.5	1.1	93.4	2.0	9.3	2.6	.909	None
SBR75-6858	390-400	2254	3.8	1.6	93.0	1.6	9.9	3.8	.908	None
SBR75-6859	400-410	2255	2.7	1.4	94.6	1.3	7.1	3.4	.905	None
SBR75-6860	410-420	2256	2.2	1.6	95.0	1.2	5.7	3.8	.897	None
SBR75-6861-2	430-450						No Oil			
SBR75-6863	460-470						Trace			
SBR75-6864	470-480						b			
SBR75-6865	480-490						Trace			
SBR75-6866	490-500						b			
SBR75-6867-9	500-530						No Oil			
SBR75-6870	520-550						b			

See footnote at end of table.

Drill cutting samples received January 14, 1975; assays made on air-dried samples

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Samples from Pacific Transmission Company's Federal-Fontanelle Unit II well 41-9 (con.)

Surface elevation 7,068 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
SBR75-6871	550- 580						Trace		
SBR75-6872	580- 610						c		
SBR75-6873-4	610- 670						No Oil		
SBR75-6875-6	670- 730						Trace		
SBR75-6877	730- 760						c		
SBR75-6878	760- 790						b		
SBR75-6879	790- 820						c		
SBR75-6880	820- 850						Trace		
SBR75-6881	880- 910						c		
SBR75-6882	910- 940	2257	0.8	2.0	96.3	0.9	2.2a	4.8	None
SBR75-6883	940- 970	2258	1.0	2.0	96.0	1.0	2.7a	4.8	None
SBR75-6884	970-1000	2259	.9	2.0	96.3	.8	2.2a	4.8	None

<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 January 14, 1975; assays made on air-dried samples