

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Champlin Petroleum Company's Brady No. 10 Well drilled in  
the NE1/4NW1/4 of sec 22, T 16 N, R 101 W, Sweetwater County, Wyoming

Kelly bushing elevation 7,209 feet

## Niobrara Formation Samples

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
SBR74-13722-3	8080-8100						Trace		
SBR74-13724	8100-8110						No oil		
SBR74-13725-6	8110-8130						Trace		
SBR74-13727	8130-8140						c		
SBR74-13728	8140-8150						Trace		
SBR74-13729	8150-8160						b		
SBR74-13730	8160-8170						No oil		
SBR74-13731	8170-8180						Trace		
SBR74-13732	8180-8190						b		
SBR74-13733	8190-8200						Trace		
SBR74-13734-9	8200-8260						No oil		
SBR74-13740	8260-8270						Trace		
SBR74-13741	8270-8280						No oil		
SBR74-13742	8280-8290						b		
SBR74-13743	8290-8300						Trace		
SBR74-13744-5	8300-8320						No oil		
SBR74-13746-8	8320-8350						Trace		
SBR74-13749-51	8350-8380						b		
SBR74-13752	8380-8390						Trace		
SBR74-13753-4	8390-8410						b		
SBR74-13755	8410-8420						Trace		
SBR74-13756	8430-8440						b		
SBR74-13757	8440-8450						Trace		
SBR74-13758-61	8450-8490						b		
SBR74-13762	8490-8500						Trace		
SBR74-13763-4	8500-8520						No oil		
SBR74-13765	8520-8530						Trace		
SBR74-13766-9	8530-8570						b		
SBR74-13770-1	8570-8600						Trace		
SBR74-13772	8600-8610						b		

See footnote at end of table.

Drill cutting samples received August 13, 1974; assays made on air-dried samples

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Kelly bushing elevation 7,209 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		Spent shale	Gas + loss			
Laramie	Their		Oil	Water					
SBR74-13773-6	8610-8650							c	
SBR74-13777	8650-8660							b	
SBR74-13778	8660-8670							Trace	
SBR74-13779	8670-8680							b	
SBR74-13780	8680-8690							Trace	
SBR74-13781-2	8690-8710							b	
SBR74-13783	8710-8720							c	
SBR74-13784-5	8720-8740							b	
SBR74-13786	8740-8750							Trace	
SBR74-13787-90	8750-8790							b	
SBR74-13791-5	8790-8840							No oil	
SBR74-13796	8840-8850							Trace	
SBR74-13797-8	8850-8870							b	
SBR74-13799-801	8870-8900							Trace	
SBR74-13802-6	8900-8950							No oil	
SBR74-13807-8	8950-8970							Trace	
SBR74-13809	8970-8980							No oil	
SBR74-13810-1	8980-9000							Trace	
SBR74-13812-26	9000-9150							No oil	
SBR74-13827	9150-9160							Trace	
SBR74-13828	9160-9170							No oil	
SBR74-13829-32	9170-9210							Trace	
SBR74-13833	9210-9220							b	
SBR74-13834	9220-9230	96361	0.4	2.0	97.1	0.5	1.1a	4.8	None
SBR74-13835	9230-9240	96362	4.0	2.0	93.3	.7	10.7	4.8	0.900 Slight
SBR74-13836	9240-9250	96363	1.3	2.0	96.4	.3	3.4a	4.8	None
SBR74-13837	9250-9260							c	
SBR74-13838	9260-9270							b	
SBR74-13839-40	9270-9290							Trace	
SBR74-13841	9290-9300							b	

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			Weight percent		Gas + loss	Gal per ton		Tendency to coke		
Laramie	Their		Oil	Water		Spent shale			Oil <sup>1</sup> / <sub>Water</sub>	
SBR74-13842-3	9300-9320						Trace			
SBR74-13844	9320-9330						No oil			
SBR74-13845-7	9330-9360						Trace			
SBR74-13848	9360-9370	96364	0.8	2.4	96.3	0.5	2.0a	5.8		None
SBR74-13849	9370-9380	96365	3.3	2.0	93.9	.8	8.8	4.8	0.905	Slight
SBR74-13850	9380-9390	96366	1.0	1.8	96.9	.3	2.6a	4.3		None
SBR74-13851	9390-9400	96367	.9	1.9	96.8	.4	2.4a	4.6		None
SBR74-13852	9400-9410	96368	4.9	2.2	91.9	1.0	13.2	5.3	.890	Moderate
SBR74-13853-8	9410-9470						Trace			
SBR74-13859	9470-9480						c			
SBR74-13860	9480-9490						Trace			
SBR74-13861	9490-9500						b			
SBR74-13862	9500-9510	96369	1.4	2.4	95.6	.6	3.6a	5.8		None
SBR74-13863	9510-9520	96370	.0	2.4	97.3	.3	No oil	5.8		None
SBR74-13864-6	9520-9550						Trace			
SBR74-13867-8	9550-9570						b			
SBR74-13869	9570-9580						c			
SBR74-13870	9580-9590						b			
SBR74-13871-3	9590-9620						Trace			
SBR74-13874-7	9620-9660						b			
SBR74-13878-9	9660-9680						Trace			
SBR74-13880	9680-9690	96371	1.9	1.9	95.2	1.0	5.0a	4.6		Slight
SBR74-13881	9690-9700						b			
SBR74-13882-3	9700-9720						c			
SBR74-13884-5	9720-9740						Trace			
SBR74-13886	9740-9750	96372	1.0	1.7	96.0	1.3	2.7a	4.1		None
SBR74-13887	9750-9760						b			
SBR74-13888-93	9760-9820						Trace			
SBR74-13894	9820-9830	96373	1.8	1.8	95.6	.8	4.7a	4.4		None
SBR74-13895	9830-9840	96374	3.3	1.7	94.0	1.0	8.9	4.1	.900	Moderate

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			Weight percent		Spent shale	Gas + loss			
Laramie	Their		Oil	Water					
SBR74-13896	9840- 9850	96375	0.4	2.0	97.0	0.6	1.2a	4.8	None
SBR74-13897-8	9850- 9870						b		
SBR74-13899	9870- 9880	96376	.5	2.0	96.9	.6	1.3a	4.8	None
SBR74-13900	9880- 9890	96377	4.6	1.5	92.6	1.3	12.2	3.6	0.901 Moderate
SBR74-13901	9890- 9900	96378	1.9	2.1	95.2	.8	4.9a	5.0	Slight
SBR74-13902-8	9900- 9970						Trace		
SBR74-13909	9970- 9980						b		
SBR74-13910-6	9980-10050						Trace		
SBR74-13917	10050-10060	96379	1.9	2.6	94.7	.8	4.9a	6.2	Slight
SBR74-13918	10060-10070	96380	1.1	2.2	95.8	.9	3.0a	5.3	None
SBR74-13919	10070-10080						b		
SBR74-13920-1	10080-10100						Trace		
SBR74-13922	10100-10110	96381	2.1	2.3	94.7	.9	5.6	5.5	.898 Slight
SBR74-13923	10110-10120	96382	9.8	2.0	86.0	2.2	26.0	4.8	.905 Moderate
SBR74-13924	10120-10130	96444	.5	1.4	96.9	1.2	1.3a	3.4	None
SBR74-13925	10130-10140						Trace		
SBR74-13926-9	10140-10180						b		
SBR74-13930	10180-10190	96384	8.2	2.2	87.3	2.3	21.9	5.3	.901 Moderate
SBR74-13931	10190-10200	96385	2.3	2.0	94.7	1.0	6.0	4.8	.896 Slight
SBR74-13932	10200-10210						b		
SBR74-13933	10210-10220						c		
SBR74-13934	10220-10230						b		
SBR74-13935	10230-10240						No oil		
SBR74-13936	10240-10250						Trace		
SBR74-13937	10250-10260	96386	3.9	1.8	93.0	1.3	10.4	4.2	.897 Moderate
SBR74-13938	10260-10270	96387	1.3	1.8	95.7	1.2	3.5a	4.3	None
SBR74-13939	10270-10280						b		
SBR74-13940	10280-10290						c		
SBR74-13941	10290-10300						b		
SBR74-13942	10300-10310						Trace		

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