

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Miami Oil Producers, Incorporated's West White Mountain Well 1 drilled in the NW1/4NW1/4 (660 feet S/N, 660 feet E/W) of sec 16, T 19 N, R 106 W, Sweetwater County, Wyoming

Surface elevation 7,372 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
SBR74-9059-65	40-110						No oil			
SBR74-9066	110-120	94228	2.5	3.0	93.3	1.2	6.4	7.2	0.938	None
SBR74-9067	120-130	94229	5.7	3.0	88.7	2.6	14.5	7.2	.935	None
SBR74-9068	130-140	94230	5.9	3.1	88.6	2.4	15.3	7.4	.923	None
SBR74-9069	140-150	94231	5.7	2.2	89.9	2.2	15.0	5.3	.912	None
SBR74-9070	150-160	94232	8.0	2.6	86.7	2.7	20.9	6.2	.913	None
SBR74-9071	160-170	94233	1.3	2.0	95.9	.8	3.3a	4.8		None
SBR74-9072	170-180	94234	1.3	1.8	95.2	1.7	3.5a	4.3		None
SBR74-9073	190-200	94235	4.7	2.0	91.4	1.9	12.4	4.8	.913	None
SBR74-9074	200-210	94236	3.9	1.8	92.5	1.8	10.3	4.3	.916	None
SBR74-9075	210-220	94237	6.5	1.7	89.9	1.9	16.8	4.1	.921	None
SBR74-9076	220-230	94238	4.9	1.8	91.0	2.3	12.6	4.3	.937	None
SBR74-9077	230-240	94239	2.9	2.0	93.6	1.5	7.6	4.8	.910	None
SBR74-9078	240-250	94240	2.9	2.2	93.4	1.5	7.5	5.3	.912	None
SBR74-9079	250-260	94241	2.5	2.1	93.9	1.5	6.6	5.0	.912	None
SBR74-9080	260-270	94242	1.7	1.6	95.8	.9	4.4a	3.8		None
SBR74-9081	280-290	94243	3.1	1.7	93.8	1.4	8.1	4.1	.910	None
SBR74-9082	290-300	94244	1.7	2.3	94.8	1.2	4.5a	5.5		None
SBR74-9083	300-310	94245	1.6	3.2	94.0	1.2	4.2a	7.7		None
SBR74-9084	310-320	94246	.2	3.8	94.9	1.1	.6a	9.1		None
SBR74-9085	320-330	94247	2.8	3.2	92.4	1.6	7.5	7.7	.903	None
SBR74-9086	330-340	94248	1.4	3.4	93.4	1.8	3.7a	8.0		None
SBR74-9087	340-350	94249	1.6	2.8	94.3	1.3	4.2a	6.7		None
SBR74-9088	350-360	94250	1.5	.7	94.4	3.4	3.9a	1.7		None
SBR74-9089	360-370	94251	1.0	2.3	95.8	.9	2.5a	5.5		None
SBR74-9090	370-380	94252	1.2	2.5	95.1	1.2	3.1a	6.0		None
SBR74-9091	380-390	94253	1.0	2.5	95.5	1.0	2.6a	6.0		None
SBR74-9092	390-400	94254	.8	2.2	96.2	.8	2.0a	5.3		None
SBR74-9093	400-410	94255	.1	4.6	94.5	.8	.3a	11.0		None
SBR74-9094	410-420	94256	4.2	2.6	91.2	2.0	11.1	6.2		None

See footnote at end of table.

Drill cutting samples received April 19, 1974; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Miami Oil Producers, Incorporated's West White Mountain Well 1 (con.)

Surface elevation 7,372 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
SBR74-9095	420-430	94257	1.3	3.0	94.6	1.1	3.5a	7.2		None
SBR74-9096	430-440	94258	1.5	3.0	94.4	1.1	4.0a	7.2		None
SBR74-9097	440-450	94259	2.5	2.9	93.3	1.3	6.6	7.0	0.907	None
SBR74-9098	450-460	94260	2.5	2.3	93.5	1.7	6.6	5.5	.899	None
SBR74-9099	460-470	94261	1.1	2.3	95.2	1.4	2.9a	5.5		None
SBR74-9100	470-480						Trace			
SBR74-9101	480-490						b			
SBR74-9102	490-500						Trace			
SBR74-9103	500-510						No oil			
SBR74-9104	510-520	94262	1.6	2.7	94.8	.9	4.1	6.5		None
SBR74-9105	520-530	94263	2.7	2.5	93.7	1.1	7.0	6.0		None
SBR74-9106	530-540						b			
SBR74-9107	540-550						Trace			
SBR74-9108	550-560						c			
SBR74-9109	570-580						Trace			
SBR74-9110-1	580-600						No oil			
SBR74-9112	610-620						c			
SBR74-9113-4	620-640						Trace			
SBR74-9115	640-650	94264	1.0	4.8	93.1	1.1	2.5a	11.5		None
SBR74-9116	650-660	94265	2.5	3.4	92.9	1.2	6.5a	8.1		None
SBR74-9117	660-670	94266	2.7	3.6	92.6	1.1	7.1a	8.6		None
SBR74-9118	670-680	94267	.6	5.0	93.6	.8	1.6a	12.0		None
SBR74-9119	680-690	94268	1.1	3.6	94.6	.7	2.8a	8.6		None
SBR74-9120	690-700	94269	3.0	3.6	92.3	1.1	8.0	8.6	.911	None
SBR74-9121	700-710	94270	.6	4.2	94.7	.5	1.6a	10.1		None
SBR74-9122	710-720	94271	1.4	3.4	94.1	1.1	3.8a	8.1		None
SBR74-9123	720-730	94272	.1	4.8	94.3	.8	.2a	11.5		None
SBR74-9124	730-740	94309	.7	4.7	93.7	.9	1.6a	11.3		None
SBR74-9125	740-750	94274	1.7	2.6	94.5	1.2	4.3a	6.2		None
SBR74-9126	750-760	94275	1.3	3.6	93.9	1.2	3.3a	8.6		None

See footnote at end of table.

Drill cutting samples received April 19, 1974; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Miami Oil Producers, Incorporated's West White Mountain Well 1 (con.)

Surface elevation 7,372 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		Gal per ton					
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water		
SBR74-9127	760- 770	94276	0.6	3.4	94.9	1.1	1.7a	8.1	None	
SBR74-9128	770- 780	94277	1.2	3.0	94.8	1.0	3.1a	7.2	None	
SBR74-9129	780- 790	94278	.5	4.0	94.3	1.2	1.3a	9.6	None	
SBR74-9130	790- 800	94279	.3	4.0	94.9	.8	.7a	9.6	None	
SBR74-9131	800- 810	94280	1.4	2.8	94.0	1.8	3.5a	6.7	None	
SBR74-9132	810- 820	94281	2.4	3.0	93.2	1.4	6.3	7.2	None	
SBR74-9133	820- 830	94282	5.6	2.7	89.5	2.2	14.5	6.5	None	
SBR74-9134	830- 840	94283	7.1	2.9	87.7	2.3	18.6	7.0	None	
SBR74-9135	840- 850	94284	5.9	2.5	89.5	2.1	15.3	6.0	None	
SBR74-9136	850- 860	94285	5.4	2.6	90.0	2.0	14.2	6.2	0.914	None
SBR74-9137	860- 870	94286	5.1	3.0	90.0	1.9	13.3	7.2	.911	None
SBR74-9138	870- 880	94287	5.2	3.0	89.9	1.9	13.7	7.2	.910	None
SBR74-9139	880- 890	94288	5.1	3.4	89.4	2.1	13.6	8.1	.909	None
SBR74-9140	890- 900	94289	4.7	3.0	90.5	1.8	12.5	7.2	.905	None
SBR74-9141	900- 910	94290	4.5	3.0	90.6	1.9	11.8	7.2	.912	None
SBR74-9142	910- 920	94291	5.6	3.0	89.2	2.2	14.9	7.2	.908	None
SBR74-9143	920- 930	94292	4.9	3.4	89.8	1.9	12.9	8.1	.910	None
SBR74-9144	930- 940	94293	4.5	3.0	90.9	1.6	11.7	7.2	.911	None
SBR74-9145	940- 950	94294	4.4	3.0	91.1	1.5	11.6a	7.1	None	None
SBR74-9146	950- 960	94295	3.8	2.8	92.5	.9	9.8a	6.7	None	None
SBR74-9147	960- 970	94296	2.9	2.4	93.0	1.7	7.8	5.8	.901	None
SBR74-9148	970- 980	94297	3.0	3.6	92.2	1.2	8.1	8.6	.900	None
SBR74-9149	980- 990	94298	3.8	2.8	91.6	1.8	10.0	6.7	.906	None
SBR74-9150	990-1000	94299	2.6	3.5	92.7	1.2	6.8	8.4	.904	None
SBR74-9151	1000-1010	94300	3.3	2.9	92.3	1.5	8.8	7.0	.903	None
SBR74-9152	1010-1020	94301	3.2	2.7	93.1	1.0	8.4	6.6	.905	None
SBR74-9153	1040-1050	94302	2.7	2.9	93.4	1.0	7.1	6.9	.905	None
SBR74-9154	1070-1080	94303	1.0	2.2	95.9	.9	2.6a	5.3	None	None
SBR74-9155-6	1080-1100						c			
SBR74-9157	1160-1170						Trace			

See footnote at end of table.

Drill cutting samples received April 19, 1974; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISHCER RETORT METHOD

Samples from Miami Oil Producers, Incorporated's West White Mountain Well 1 (con.)

Surface elevation 7,372 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
SBR74-9158-9	1190-1210						Trace			
SBR74-9160	1220-1230						No oil			
SBR74-9161	1230-1240						Trace			
SBR74-9162	1240-1250	94304	1.4	1.3	96.6	0.7	3.6a	3.2	None	
SBR74-9163	1250-1260	94305	.2	1.1	98.4	.3	.6a	2.6	None	
SBR74-9164	1260-1270						No oil			
SBR74-9165	1270-1280						b			
SBR74-9166	1280-1290						No oil			
SBR74-9167	1290-1300						b			
SBR74-9168-78	1300-1410						No oil			
SBR74-9179-97	1420-1610						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 April 19, 1974; assays made on air-dried samples