

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Rock Springs Well No. 3A-2 drilled in SE1/4SE1/4NW1/4 sec 15, T 18 N, R 106 W,  
Sweetwater County, Wyoming

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		
		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water	coke	
14.9-16.0	17035	.5	1.8	96.3	1.4	1.3a	4.3	None	
16.0-16.6	17036	.3	1.4	96.6	1.7	.8a	3.4	None	
16.6-17.4	17037	.1	2.1	96.9	.9	.2a	5.0	None	
17.4-18.4	17038	.1	2.7	96.0	1.2	.3a	6.5	None	
18.4-19.4	17039	.1	3.1	95.8	1.0	.3a	7.3	None	
19.4-20.4	17040	.1	3.0	95.6	1.3	.3a	7.2	None	
20.4-21.4	17041	.6	1.6	97.4	.4	1.6a	3.8	None	
21.4-22.0	17042	3.7	2.5	92.4	1.4	9.6	6.0	0.923	
22.0-22.6	17043	8.3	2.7	87.4	1.6	21.3	6.5	.929	
22.6-23.6	17044	7.6	2.5	88.4	1.5	19.8	6.0	.924	
23.6-24.7	17045	9.1	2.3	85.7	2.9	23.9	5.5	.915	
24.7-25.5	17046	5.5	2.1	91.7	.7	14.3	5.0	.926	
25.5-26.5	17047	1.0	1.2	97.6	.2	2.5a	2.9		
26.5-27.5	17048	.1	1.7	98.0	.2	.1a	4.1		
27.5-28.5	17049	.0	1.7	98.1	.2	Trace	4.1		
28.5-29.5	17050	.1	1.7	97.7	.5	.2a	4.1		
29.5-30.5	17051	.1	1.5	98.1	.3	.3a	3.6		
30.5-31.5	17052	.4	.5	99.0	.1	1.2a	1.2		
31.5-32.3	17053	1.8	1.2	96.5	.5	4.7a	2.9		
32.3-33.3	17054	5.5	1.6	91.3	1.6	14.4	3.8	.919	
33.3-34.3	17055	6.2	2.0	90.4	1.4	16.2	4.8	.911	
34.3-34.8	17056	8.1	2.2	88.2	1.5	21.4	5.3	.914	
34.8-35.8	17057	11.4	3.7	83.7	1.2	29.3	8.9	.929	Slight
35.8-36.8	17058	12.3	2.6	82.2	2.9	31.6	6.2	.931	Slight
36.8-37.8	17059	10.8	2.8	84.4	2.0	27.8	6.6	.932	None
37.8-38.6									
38.6-39.6	17060	11.9	2.8	82.6	2.7	30.9	6.7	.921	Slight
39.6-40.3	17061	8.9	2.8	87.3	1.0	23.2	6.7	.917	None
40.3-41.3	17062	8.4	2.0	88.2	1.4	21.9	4.8	.921	None
41.3-42.3	17063	7.4	1.9	89.2	1.5	19.4	4.6	.917	None

See footnotes at end of table.

Core samples received September 27, 1966; Assays made on as-received basis

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Rock Springs Well No. 3A-2 (Con.)

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		
		Oil	Water		Spent shale			Oil <sup>1/</sup>	Water
42.3-42.5	17064	7.6	1.7	88.9	1.8	19.9	4.1	0.915	None
42.5-43.5	17065	4.3	1.5	92.9	1.3	11.5	3.6	.904	None
43.5-44.5	17066	7.1	2.4	89.1	1.4	18.6	5.8	.911	None
44.5-45.5	17067	6.5	2.5	89.2	1.8	17.1	6.0	.910	None
45.5-46.5	17068	4.6	2.7	90.6	2.1	11.9	6.5	.916	None
46.5-47.5	17069	6.0	2.7	90.2	1.1	15.6	6.5	.916	None
47.5-47.8	17070	7.6	2.5	87.4	2.5	19.6	6.0	.926	None
47.8-48.5	17071	7.7	2.8	86.1	3.4	19.8	6.7	.927	None
48.5-48.8	17072	6.5	2.8	88.0	2.7	16.7	6.7	.935	None
48.8-49.8	17073	8.2	2.8	86.4	2.6	21.0	6.7	.931	None
49.8-50.8	17074	5.2	2.6	89.8	2.4	13.3	6.2	.944	None
50.8-51.4	17075	5.2	2.8	89.7	2.3	13.2	6.7	.946	None
51.4-51.7	17076	2.2	5.0	91.3	1.5	5.8a	12.0		None
51.7-52.1	17077	7.8	2.3	87.6	2.3	20.0	5.5	.936	None
52.1-53.1	17078	10.9	2.2	83.8	3.1	28.4	5.2	.921	None
53.1-54.1	17079	8.4	2.6	86.7	2.3	21.6	6.2	.930	None
54.1-54.6	17080	10.2	2.8	83.8	3.2	26.4	6.7	.928	None
54.6-55.6	17081	7.8	2.7	87.5	2.0	19.9	6.4	.941	None
55.6-56.6	17082	8.1	2.9	87.9	1.1	20.6	6.8	.947	None
56.6-57.6	17083	6.5	3.0	88.9	1.6	16.3	7.2	.949	None
59.6-58.7	17084	7.8	3.0	87.5	1.7	19.9	7.3	.935	None
58.7-59.7	17085	13.6	2.4	80.3	3.7	35.7	5.8	.911	None
59.7-60.7	17086	11.4	1.7	83.6	3.3	29.8	4.1	.917	None
60.7-61.3	17087	10.8	2.0	84.0	3.2	28.7	4.8	.905	None
61.3-62.3	17088	11.0	1.7	85.2	2.1	29.0	4.1	.909	None
62.3-63.3	17089	13.4	2.3	81.9	2.4	35.3	5.5	.913	None
63.3-64.1	17090	7.7	2.7	87.6	2.0	20.1	6.5	.921	None
64.1-64.2	17091	5.6	3.3	89.8	1.3	14.7a	7.9		None
64.2-65.2	17092	10.1	2.9	84.7	2.3	26.7	7.0	.910	None
65.2-66.3	17093	6.3	3.0	89.8	.9	16.4	7.2	.916	None

See footnotes at end of table.

Core samples received September 27, 1966; Assays made on as-received basis

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-4352P Sheet No. 2 of 3 sheets September 30, 1966

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Rock Springs Well No. 3A-2 (Con.)

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				
		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water			
66.3-66.5	17094	7.8	3.8	88.1	.3	20.3a	9.0	0.927	None	
66.5-67.0	17095	7.0	2.8	88.6	1.6	18.0	6.7		None	
67.0-68.0										
68.0-68.5	17096	4.5	2.2	92.0	1.3	11.7	5.3	.931	None	
68.5-69.5	17097	10.1	2.2	86.7	1.0	26.1	5.3	.926	None	
69.5-69.8	17098	11.3	2.3	85.1	1.3	29.4	5.4	.924	None	
69.8-70.2	17099	10.9	4.3	83.3	1.5	29.1	10.3	.897	None	
70.2-70.6	17100	13.2	2.3	82.5	2.0	34.3	5.5	.918	None	
70.6-71.6	17101	5.1	2.2	91.3	1.4	13.3	5.3	.918	None	
71.6-71.8	17102	6.3	2.8	88.5	2.4	16.3	6.7	.925	None	
71.8-72.0	17103	3.9	1.1	93.9	1.1	10.3	2.6	.908	None	
72.0-72.6	17104	7.6	2.0	88.9	1.5	19.9	4.8	.921	None	
72.6-72.8	17105	4.8	3.2	90.1	1.9	12.3	7.6	.928	None	
72.8-73.9	17106	9.9	2.4	84.7	3.0	25.9	5.8	.915	None	
73.9-74.4	17107	8.3	1.7	87.8	2.2	21.7	4.1	.919	None	
74.4-75.4	17108	6.2	3.0	88.8	2.0	16.3	7.2	.914	None	
75.4-76.3	17109	4.0	2.2	92.2	1.6	10.5a	5.3		None	
76.3-76.5	17110	1.3	2.2	95.4	1.1	3.4a	5.2		None	
76.5-76.8	17111	3.0	1.8	93.8	1.4	8.1	4.3	.900	None	

<sup>1/</sup> "a"--indicates specific gravity estimated as 0.92.

Core samples received September 27, 1966; Assays made on as-received basis