

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

NE

Samples from Mintech Corporation and Marathon Oil Company's E. Tomich No. 1 drilled in NE1/4SE1/4 (530 feet South and 105 feet West of E1/4 corner) of sec 29, T 24 N, R 106 W, Sweetwater County, Wyoming

Collar elevation 6,591 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		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke	
SBR71-7162	340-345	60764	1.3	1.9	96.6	.2	3.5a	4.5	None	
SBR71-7163	345-350	60765	2.7	2.4	93.5	1.4	7.0a	5.8	None	
SBR71-7164	350-355	60766	1.8	2.0	94.0	2.2	4.7a	4.8	None	
SBR71-7165	355-360	60767	.6	2.3	88.8	8.3	1.6a	5.4	None	
SBR71-7166	360-365	60768	1.9	2.0	94.8	1.3	4.8a	4.8	None	
SBR71-7167	365-370	60769	3.0	2.3	92.9	1.8	7.9	5.4	0.910	
SBR71-7168	370-375	60770	3.7	2.3	92.0	2.0	9.9	5.6	.897	
SBR71-7169	375-380	60771	3.2	2.3	92.6	1.9	8.3	5.6	.914	
SBR71-7170	380-385	60772	4.8	2.0	91.3	1.9	12.5	4.8	.918	
SBR71-7171	385-390	60773	4.5	1.3	91.1	3.1	11.8	3.0	.918	
SBR71-7172	390-395	60774	7.2	1.7	87.7	3.4	19.1	4.1	.906	
SBR71-7173	395-400	60775	7.2	1.7	88.8	2.3	18.7	4.1	.914	
SBR71-7174	400-405	60776	6.6	2.1	89.1	2.2	17.1	5.1	.917	
SBR71-7175	405-410	60777	10.6	2.4	83.4	3.6	27.7	5.8	.915	
SBR71-7176	410-415	60778	2.8	1.5	94.6	1.1	7.3	3.5	.922	
SBR71-7177	415-420	60779	3.1	1.8	94.2	.9	8.1	4.3	.926	
SBR71-7178	420-425	60780	6.7	2.3	89.2	1.8	17.5	5.4	.914	
SBR71-7179	425-430	60781	10.0	2.1	85.1	2.8	26.1	5.1	.918	
SBR71-7180	430-435	60782	4.2	1.9	92.3	1.6	10.9	4.6	.921	
SBR71-7181	435-440	60783	8.4	1.2	87.9	2.5	21.9	2.9	.922	
SBR71-7182	440-445	60784	6.4	1.4	90.4	1.8	16.9	3.4	.913	
SBR71-7183	445-450	60785	4.6	1.0	92.5	1.9	11.9	2.5	.913	
SBR71-7184	450-455	60786	4.6	1.3	91.3	2.8	12.1	3.2	.916	
SBR71-7185	455-460	60787	7.2	1.3	89.1	2.4	18.7	3.2	.918	
SBR71-7186	460-465	60788	7.4	1.2	88.9	2.5	19.3	3.0	.914	
SBR71-7187	465-470	60789	6.7	1.2	89.5	2.6	17.5	2.9	.914	
SBR71-7188	470-475	60790	3.1	1.0	93.3	2.6	8.2	2.4	.922	
SBR71-7189	475-480	60791	7.5	1.1	87.0	4.4	19.4	2.6	.925	
SBR71-7190	480-485	60792	4.9	1.1	90.6	3.4	12.8	2.7	.917	
SBR71-7191	485-490	60793	3.5	1.0	93.1	2.4	9.0	2.4	.924	

See footnote at end of table.

Drill cutting samples received August 4, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Mintech Corporation and Marathon Oil Company's E. Tomich No. 1 (con.)

at elevation 6,591 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			
Time	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke		
L-7192	490-495	60794	8.5	1.5	87.0	3.0	22.0	3.6	0.922	None
L-7193	495-500	60795	3.3	1.7	92.7	2.3	8.6	4.1	.924	None
L-7194	500-505	60796	2.1	1.1	94.6	2.2	5.6a	2.6		None
L-7195	505-510	60797	4.0	1.6	91.3	3.1	10.4	3.8	.921	None
L-7196	510-515	60798	3.9	1.5	92.5	2.1	10.1	3.6	.919	None
L-7197	515-520	60799	8.5	1.5	87.1	2.9	22.6	3.6	.904	None
L-7198	520-525	60800	5.6	1.4	90.1	2.9	14.6	3.4	.915	None
L-7199	525-530	60801	4.7	1.7	90.4	3.2	12.4	4.1	.916	None
L-7200	530-535	60802	2.8	1.7	93.9	1.6	7.4	4.0	.922	None
L-7201	535-540	60803	4.9	1.1	91.3	2.7	12.7	2.7	.924	None

"a"--indicates specific gravity estimated as 0.92.

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at Energy Research Center, Laramie, Wyoming, Illustration No. SBR-4321P Sheet No. 2 of 2 sheets

August 12, 1971