

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Miami Oil Producers, Incorporated's East Peru No. 1 Locat. d SEL/4SEL/4
(580 feet N/S, 660 feet W/E) of sec 24, T 20 N, R 107 W, Sweetwater County, Wyoming

Surface elevation 6,700 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	
SBR74-4899	510-520	91905	4.8	3.2	89.7	2.3	12.7	7.7	None	
SBR74-4900	520-530	91906	1.4	4.5	92.9	1.2	3.8a	10.9	None	
SBR74-4901	530-540	91907	7.5	2.4	87.3	2.8	19.8	5.8	None	
SBR74-4902	540-550	91916	3.8	1.9	92.6	1.7	10.0	4.6	None	
SBR74-4903	550-560	91917	4.0	2.8	90.9	2.3	10.5	6.7	None	
SBR74-4904	560-570	91918	4.7	4.0	89.0	2.3	12.5	9.5	None	
SBR74-4905	570-580	91919	3.5	3.0	91.6	1.9	9.3	7.2	None	
SBR74-4906	580-590	91920	1.8	.8	96.5	.9	4.6a	1.9	None	
SBR74-4907	590-600	91921	2.4	1.3	94.9	1.4	6.4	3.1	None	
SBR74-4908	600-610	91922	2.2	1.4	95.1	1.3	5.8	3.4	None	
SBR74-4909	610-620	91923	2.7	1.5	93.8	2.0	7.1	3.6	None	
SBR74-4910	620-630	91924	5.1	1.5	91.3	2.1	13.4	3.6	None	
SBR74-4911	630-640	91925	9.4	2.2	85.5	2.9	25.2	5.3	None	
SBR74-4912	640-650	91926	7.2	1.4	89.5	1.9	19.2	3.4	None	
SBR74-4913	650-660	91927	11.9	1.7	83.1	3.3	31.7	4.1	None	
SBR74-4914	660-670	91928	5.6	2.1	90.6	1.7	15.3	5.0	None	
SBR74-4915	670-680	91929	2.8	3.0	92.9	1.3	7.6	7.2	None	
SBR74-4916	680-690	91930	2.1	3.2	93.6	1.1	5.8	7.7	None	
SBR74-4917	690-700	91931	.5	5.0	93.7	.8	1.2a	12.0	None	
SBR74-4918	700-710	91932	.0	4.9	94.5	.6	.1a	11.7	None	
SBR74-4919	710-720	91933	.7	5.4	93.0	.9	1.8a	12.9	None	
SBR74-4920	720-730	91934	2.1	4.0	92.9	1.0	5.7	9.6	None	.873
SBR74-4921	730-740	91935	1.7	5.4	91.2	1.7	4.5a	12.9	None	
SBR74-4922	740-750	91936	1.5	5.0	91.9	1.6	3.8a	12.0	None	
SBR74-4923	750-760	91937	1.9	4.1	92.7	1.3	5.0a	9.8	None	
SBR74-4924	760-770	91938	1.0	5.0	93.0	1.0	2.5a	12.0	None	
SBR74-4925	770-780	91939	2.1	4.4	92.0	1.5	5.8	10.5	None	.885
SBR74-4926	780-790	91940	.9	4.1	93.5	1.5	2.3a	9.8	None	
SBR74-4927	790-800	91941	1.2	4.0	93.6	1.2	3.0a	9.6	None	
SBR74-4928	800-810	91942	1.5	4.0	93.0	1.5	3.9a	9.6	None	

See footnote at end of table.

Drill cutting samples received December 5, 1973; assays made on air-dried samples

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Surface elevation 6,700 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	
SBR74-4929	810- 820	91943	2.4	4.6	90.0	3.0	6.4	11.0	None	
SBR74-4930	820- 830	91944	2.2	4.6	91.6	1.6	5.8	11.0	None	
SBR74-4931	830- 840	91945	.2	4.8	93.9	1.1	.4a	11.5	None	
SBR74-4932	840- 850	91946	.5	4.2	94.2	1.1	1.3a	10.1	None	
SBR74-4933	850- 860	91947	.4	3.9	94.9	.8	1.1a	9.3	None	
SBR74-4934	860- 870	91948	.8	3.7	94.6	.9	2.0a	8.9	None	
SBR74-4935	870- 880	91949	.7	4.0	94.5	.8	1.7a	9.6	None	
SBR74-4936	880- 890	91950	1.4	3.4	94.1	1.1	3.8a	8.2	None	
SBR74-4937	890- 900	91951	1.2	3.3	93.7	1.8	3.2a	7.9	None	
SBR74-4938	900- 910	91952	1.8	3.4	93.7	1.1	4.6a	8.2	None	
SBR74-4939	910- 920	91953	7.8	2.7	86.7	2.8	20.7	6.5	.906	None
SBR74-4940	920- 930	91954	6.5	2.2	89.2	2.1	17.2	5.3	.900	None
SBR74-4941	930- 940	91955	6.2	2.0	89.8	2.0	16.5	4.8	.903	None
SBR74-4942	940- 950	91956	5.7	2.6	89.7	2.0	15.2	6.2	.902	None
SBR74-4943	950- 960	91957	4.4	2.0	92.0	1.6	11.6	4.8	.903	None
SBR74-4944	960- 970	91958	4.2	2.5	91.7	1.6	11.3	6.0	.896	None
SBR74-4945	970- 980	91959	8.8	1.7	86.9	2.6	23.0	4.0	.915	None
SBR74-4946	980- 990	91960	5.5	1.5	90.0	3.0	14.4a	3.6	None	None
SBR74-4947	990-1000	91961	2.4	2.8	93.6	1.2	6.3	6.7	.898	None
SBR74-4948	1000-1010	91962	1.8	3.0	94.2	1.0	4.7a	7.2	None	None
SBR74-4949	1010-1020	91963	2.1	1.9	94.9	1.1	5.6	4.6	.901	None
SBR74-4950	1020-1030	91964	1.3	1.9	96.0	.8	3.3a	4.6	None	None
SBR74-4951	1030-1040	91965	.5	2.6	96.2	.7	1.3a	6.2	None	None
SBR74-4952	1040-1050	91966	1.5	1.7	95.9	.9	4.0a	4.1	None	None
SBR74-4953	1050-1060	91967	.7	2.5	96.1	.7	1.8a	6.0	None	None
SBR74-4954	1060-1070	91968	1.2	2.3	95.8	.7	3.1a	5.5	None	None
SBR74-4955	1070-1080	91969	3.3	2.1	93.4	1.2	8.8	5.0	.897	None
SBR74-4956	1080-1090	91970	5.2	1.9	91.3	1.6	13.9	4.6	.896	None
SBR74-4957	1090-1100	91971	2.3	2.1	94.1	1.5	6.0	5.0	.912	None
SBR74-4958	1100-1120	91972	9.3	2.0	86.2	2.5	24.2	4.8	.921	None

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Surface elevation 6,700 feet

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		Weight percent		Gal per ton			Tendency to			
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ¹ / Water	Oil ¹ / Water	coke		
SBR74-4959	1120-1130	91973	6.7	2.0	89.6	1.7	17.6	4.8	0.912	None
SBR74-4960	1130-1140	91974	4.4	2.0	92.4	1.2	11.4	4.8	.916	None
SBR74-4961	1140-1150	91975	5.1	2.0	91.5	1.4	13.4	4.8	.914	None
SBR74-4962	1150-1160	91976	8.3	2.4	87.4	1.9	21.5	5.8	.920	None
SBR74-4963	1160-1170	91977	9.3	3.0	85.1	2.6	24.0	7.2	.928	None
SBR74-4964	1170-1180	91978	8.6	2.9	86.2	2.3	22.2	7.0	.928	None
SBR74-4965	1180-1190	91979	7.8	2.9	87.0	2.3	20.3	7.1	.919	None
SBR74-4966	1190-1200	91980	5.9	2.6	89.7	1.8	15.5	6.2	.917	None
SBR74-4967	1200-1210	91981	5.5	2.9	89.9	1.7	14.0	7.1	.936	None
SBR74-4968	1210-1220	91982	4.8	3.0	90.2	2.0	12.6	7.2	.917	None
SBR74-4969	1220-1230	91983	4.0	3.2	91.0	1.8	10.5	7.7	.902	None
SBR74-4970	1230-1240	91984	2.5	3.2	92.7	1.6	6.8	7.7	.890	None
SBR74-4971	1240-1250	91985	1.9	3.2	93.8	1.1	4.9a	7.7		None
SBR74-4972	1250-1260	91986	1.8	3.0	94.3	.9	4.6a	7.2		None
SBR74-4973	1260-1270	91987	2.0	2.9	93.9	1.2	5.1a	7.1		None
SBR74-4974	1270-1280	91958	1.8	2.3	94.6	1.3	4.8a	5.5		None
SBR74-4975	1280-1290	91989	4.3	2.6	91.3	1.8	11.2	6.2	.914	None
SBR74-4976	1290-1300	91990	4.1	3.0	91.6	1.3	10.8	7.2	.915	None
SBR74-4977	1300-1310	91991	4.2	3.0	91.1	1.7	11.3	7.2	.889	None
SBR74-4978	1310-1320	91992	3.6	2.8	92.1	1.5	9.9	6.7	.885	None
SBR74-4979	1320-1330	91993	3.6	2.2	92.6	1.6	9.7	5.3	.891	None
SBR74-4980	1330-1340	91994	3.8	1.8	92.4	2.0	10.1	4.3	.891	None
SBR74-4981	1340-1350	91995	2.4	2.0	94.3	1.3	6.7	4.8	.865	None
SBR74-4982	1350-1360	91996	1.4	1.6	96.4	.6	3.5a	3.8		None
SBR74-4983	1360-1370	91997	2.0	2.1	94.9	1.0	5.4	5.0	.882	None
SBR74-4984	1370-1380						No oil			
SBR74-4985	1380-1390						b			
SBR74-4986	1390-1400						No oil			
SBR74-4987-8	1400-1420						b			
SBR74-4989	1420-1430						c			

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Surface elevation 6,700 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		shale		Oil	Water
SBR74-4990	1430-1440						Trace		
SBR74-4991	1440-1450						No oil		
SBR74-4992-5	1450-1460						Trace		
SBR74-4996-5003	1460-1570						No oil		
SBR74-5004	1570-1580						Trace		
SBR74-5005	1580-1590						No oil		
SBR74-5006	1590-1600						Trace		
SBR74-5007-8	1600-1620						No oil		

1/ "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.

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