

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Miami Oil Producers, Incorporated's Miami-State 1556 Well #1 located in the SE1/4S1/4 (660 feet N/S, 760 feet W/E) of sec 36, T 21 N, R 106 W, Sweetwater County, Wyoming

Surface elevation 7,172 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		shale			Oil ¹ /	Water
SBR74-3642	0- 60						No oil			
SBR74-3648-58	70-180						No oil			
SBR74-3659	190-200						No oil			
SBR74-3660-74	210-360						No oil			
SBR74-3675-6	360-380						c			
SBR74-3677	380-390						Trace			
SBR74-3678	390-400						b			
SBR74-3679-82	400-440						No oil			
SBR74-3683	440-450	91037	0.3	3.2	96.4	0.1	0.8a	7.7		None
SBR74-3684	450-460	91038	2.1	3.0	94.4	.5	5.4a	7.2		None
SBR74-3685	460-470	91039	2.1	2.5	94.6	.8	5.4a	6.0		None
SBR74-3686	470-480	91040	2.4	2.8	94.0	.8	6.4a	6.7		None
SBR74-3687	480-490	91041	1.4	2.5	95.6	.5	3.6a	6.0		None
SBR74-3688	490-500	91042	1.2	2.6	95.7	.5	3.2a	6.2		None
SBR74-3689	500-510	91043	1.8	2.2	96.6	.4	2.1a	5.3		None
SBR74-3690	510-520						c			
SBR74-3691	530-540						Trace			
SBR74-3692-3700	540-630						No oil			
SBR74-3701	630-640						b			
SBR74-3702	640-650						c			
SBR74-3703	650-660						b			
SBR74-3704	660-670	91044	1.5	5.4	92.3	.8	3.8a	12.9		None
SBR74-3705	670-680						Trace			
SBR74-3706	680-690						No oil			
SBR74-3707	690-700						b			
SBR74-3708	700-710	91045	1.1	4.8	93.5	.6	2.8a	11.6		None
SBR74-3709	710-720	91046	6.3	2.6	89.1	2.0	16.1	6.2	0.942	None
SBR74-3710	720-730	91047	4.8	2.2	91.3	1.7	12.6	5.3	.903	None
SBR74-3711	730-740	91048	4.5	1.7	91.6	2.2	11.8	4.1	.916	None
SBR74-3712	740-750	91049	6.4	2.2	89.4	2.0	16.7	5.3	.924	None

See footnote at end of table.

Drill cutting samples received January 7, 1974; assays made on air-dried samples

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Surface elevation 7,172 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 ^{1/}	Water
SBR74-3713	750- 760	91050	6.0	2.0	90.3	1.7	16.2	4.7	0.893	None
SBR74-3714	760- 770	91051	6.9	2.6	88.2	2.3	18.7	6.2	.892	None
SBR74-3715	770- 780	91052	8.7	2.8	85.7	2.8	23.2	6.7	.903	None
SBR74-3716	780- 790	91053	8.8	3.0	85.3	2.9	23.2	7.2	.912	None
SBR74-3717	790- 800	91054	6.7	3.0	87.9	2.4	17.8	7.2	.897	None
SBR74-3718	800- 810	91055	14.8	3.1	77.9	4.2	40.0	7.4	.897	None
SBR74-3719	810- 820	91056	11.6	2.6	82.7	3.1	30.6	6.4	.907	None
SBR74-3720	820- 830	91057	9.1	2.6	85.4	2.9	24.2	6.2	.902	None
SBR74-3721	830- 840	91058	5.9	4.8	87.1	2.2	15.8	11.5	.894	None
SBR74-3722	840- 850	91059	5.9	2.5	89.3	2.3	15.7	6.0	.898	None
SBR74-3723	850- 860	91060	5.6	3.0	89.5	1.9	14.9	7.2	.898	None
SBR74-3724	860- 870	91061	4.8	6.0	87.3	1.9	12.8	14.4	.898	None
SBR74-3725	870- 880	91062	6.7	3.0	87.5	2.8	17.7	7.2	.905	None
SBR74-3726	880- 890	91063	4.3	4.0	89.6	2.1	11.6	9.6	.886	None
SBR74-3727	890- 900	91064	3.5	5.0	89.7	11.8	9.5	12.0	.875	None
SBR74-3728	900- 910	91065	6.9	2.9	87.5	2.7	18.4	7.0	.899	None
SBR74-3729	910- 920	91066	3.8	3.9	90.3	2.0	10.3	9.5	.883	None
SBR74-3730	920- 930	91067	9.9	4.0	82.8	3.3	26.2	9.6	.907	None
SBR74-3731	930- 940	91068	10.2	3.6	82.7	3.5	27.2	8.6	.896	None
SBR74-3732	950- 960	91069	9.5	3.9	83.0	3.6	25.4	9.5	.892	None
SBR74-3733	960- 970	91070	1.6	2.9	93.7	1.8	4.3a	7.0		None
SBR74-3734	970- 980	91071	4.6	3.1	90.6	1.7	12.2	7.4	.904	None
SBR74-3735	980- 990	91072	1.5	3.1	94.4	1.0	3.9a	7.4		None
SBR74-3736	990-1000	91073	1.3	3.7	94.0	1.0	3.5a	8.9		None
SBR74-3737-9	1000-1030						b			
SBR74-3740	1030-1040	91074	1.5	4.0	93.1	1.4	4.0a	9.6		None
SBR74-3741	1040-1050	91075	1.0	3.6	94.4	1.0	2.6a	8.6		None
SBR74-3742	1050-1060	91076	4.0	3.7	94.8	1.1	1.1a	8.9		None
SBR74-3743	1060-1070	91077	3.9	5.0	89.2	1.9	10.3	12.0	.900	None
SBR74-3744	1070-1080	91078	1.2	4.2	92.8	1.8	3.1a	10.1		None

See footnote at end of table.

Drill cutting samples received January 7, 1974; assays made on air-dried samples

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Surface elevation 7,172 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 ^{1/}	Water
SBR74-3745-6	1080-1100						b			
SBR74-3747	1100-1110	91079	3.1	3.4	91.9	1.6	8.2	8.2	0.913	None
SBR74-3748	1110-1120	91080	2.5	4.6	91.5	1.4	6.6	11.0	.902	None
SBR74-3749	1120-1130	91081	2.8	4.6	90.8	1.8	7.3	11.0	.902	None
SBR74-3750	1130-1140	91082	1.3	3.6	93.9	1.2	3.3a	8.6		None
SBR74-3751	1140-1150	91083	.4	3.3	95.6	.7	1.0a	8.0		None
SBR74-3752	1150-1160	91084	1.0	3.5	94.3	1.2	2.7a	8.4		None
SBR74-3753	1160-1170	91085	3.1	3.0	92.7	1.2	8.1	7.2	.909	None
SBR74-3754	1170-1180	91086	2.0	3.2	93.7	1.1	5.4	7.7	.903	None
SBR74-3755	1180-1190	91087	1.5	3.0	94.0	1.5	4.0a	7.2		None
SBR74-3756	1190-1200	91088	1.7	2.5	95.0	.8	4.5a	6.0		None
SBR74-3757	1200-1210	91089	.6	3.0	95.4	1.0	1.4a	7.2		None
SBR74-3758	1210-1220	91090	1.3	2.6	95.0	1.1	3.4a	6.2		None
SBR74-3759	1220-1230	91091	.3	3.0	95.8	.9	.9a	7.2		None
SBR74-3760	1230-1240	91092	.1	3.6	95.4	.9	.3a	8.6		None
SBR74-3761	1240-1250	91093	1.7	3.1	94.1	1.1	4.5a	7.4		None
SBR74-3762	1250-1260	91094	1.3	3.4	94.2	1.1	3.3a	8.2		None
SBR74-3763	1260-1270	91095	2.7	2.4	93.6	1.3	7.1	5.8	.906	None
SBR74-3764	1270-1280	91096	1.5	3.0	94.5	1.0	4.0a	7.2		None
SBR74-3765	1280-1290	91097	4.8	3.0	90.8	1.4	12.5	7.2	.913	None
SBR74-3766	1290-1300	91098	1.7	2.8	94.2	1.3	4.4	6.7		None
SBR74-3767	1300-1310	91099	6.0	2.5	89.7	1.8	15.5	6.0	.924	None
SBR74-3768	1310-1320	91100	1.6	3.2	94.4	.8	4.2a	7.7		None
SBR74-3769	1320-1330	91101	3.3	3.0	92.4	1.3	8.5	7.2	.925	None
SBR74-3770	1330-1340	91102	4.8	3.0	90.8	1.4	12.4	7.2	.929	None
SBR74-3771	1340-1350	91103	5.2	3.5	89.6	1.7	13.4	8.4	.925	None
SBR74-3772	1350-1360	91104	6.9	3.0	89.5	.6	18.0	7.2	.921	None
SBR74-3773	1360-1370	91105	2.0	3.0	93.7	1.3	5.3	7.2	.912	None
SBR74-3774	1370-1380	91106	1.2	2.7	94.9	1.2	3.1a	6.5		None
SBR74-3775	1400-1410	91107	1.8	3.8	93.2	1.2	4.7a	9.1		None

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			Weight percent		Spent shale	Gas + loss		Gal per ton		
Laramie	Their		Oil	Water					Oil ^{1/}	Water
SBR74-3776	1410-1420	91108	2.0	3.8	93.2	1.0	5.2	9.1	0.896	None
SBR74-3777	1420-1430	91109	4.0	3.9	90.4	1.7	10.7	9.3	.899	None
SBR74-3778	1430-1440	91110	4.4	3.9	90.1	1.6	11.8	9.3	.898	None
SBR74-3779	1450-1460	91111	6.2	4.1	87.6	2.1	16.5	9.8	.894	None
SBR74-3780	1460-1470	91112	4.8	4.0	89.5	1.7	13.0	9.6	.892	None
SBR74-3781	1470-1480	91113	4.9	3.6	88.3	3.2	13.0	8.6	.898	None
SBR74-3782	1490-1500	91114	5.0	4.0	89.0	2.0	13.5	9.6	.898	None
SBR74-3783	1500-1510	91115	5.3	4.0	88.4	2.3	14.1	9.6	.900	None
SBR74-3784	1510-1520	91116	4.8	3.2	90.2	1.8	12.8	7.7	.893	None
SBR74-3785	1520-1530	91117	3.4	2.5	91.1	3.0	9.0	6.0	.888	None
SBR74-3786	1530-1540	91118	1.3	2.0	96.0	.7	3.5a	4.8		None
SBR74-3787	1540-1550	91119	1.1	2.7	95.5	.7	5.5a	4.1		None
SBR74-3788-9	1550-1570						b			

^{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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