

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mines Wyoming #2A well located NW1/4SE1/4  
of sec 28, T 22 N, R 107 W, Sweetwater County, Wyoming

Surface elevation 6,722 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
SBR73-11296	100-110	87700	0.0	4.1	95.5	0.4	No oil	9.8	None	
SBR73-11297	110-120	87701	.0	4.9	94.9	.2	No oil	11.7	None	
SBR73-11298	120-130	87702	.0	4.2	95.5	.3	No oil	10.1	None	
SBR73-11299	130-140	87703	.0	4.4	95.3	.3	No oil	10.6	None	
SBR73-11300	140-150	87704	.0	4.8	95.0	.2	No oil	11.6	None	
SBR73-11301	150-160	87705	.0	3.4	96.4	.2	No oil	8.1	None	
SBR73-11302	160-170	87706	.0	3.8	96.0	.2	No oil	9.1	None	
SBR73-11303	170-180	87707	.0	4.6	95.0	.4	No oil	11.0	None	
SBR73-11304	180-190	87708	.0	3.4	96.2	.4	No oil	8.1	None	
SBR73-11305	190-200	87709	.0	3.5	96.2	.3	No oil	8.5	None	
SBR73-11306	200-210	87710	.0	2.9	97.1	.0	No oil	6.9	None	
SBR73-11307	210-220	87711	.0	5.5	94.3	.2	No oil	13.2	None	
SBR73-11308	220-230	87712	.3	5.0	95.5	.8	.9a	12.0	None	
SBR73-11309	230-240	87713	.0	3.4	96.4	.2	.1a	8.1	None	
SBR73-11310	240-250	87714	.0	5.4	94.0	.6	No oil	12.8	None	
SBR73-11311	250-260	87715	.0	3.2	96.7	.1	No oil	7.6	None	
SBR73-11312	260-270	87716	.0	2.9	97.1	.0	No oil	6.9	None	
SBR73-11313	270-280	87717	.0	3.1	96.3	.6	No oil	7.4	None	
SBR73-11314	280-290	87718	.0	3.0	96.8	.2	No oil	7.2	None	
SBR73-11315	290-300	87719	.0	2.9	96.9	.2	No oil	7.0	None	
SBR73-11316	300-310	87720	.0	1.7	98.0	.3	No oil	4.0	None	
SBR73-11317	310-320	87721	.0	3.0	96.8	.2	No oil	7.2	None	
SBR73-11318	320-330	87722	.0	2.4	96.4	1.2	No oil	5.8	None	
SBR73-11319	330-340	87723	.0	2.7	97.1	.2	No oil	6.5	None	
SBR73-11320	340-350	87724	.0	3.0	96.8	.2	No oil	7.3	None	
SBR73-11321	350-360	87725	.0	3.0	96.6	.4	No oil	7.3	None	
SBR73-11322	360-370	87726	.0	3.1	96.6	.3	No oil	7.4	None	
SBR73-11323	370-380	87727	.0	3.0	96.8	.2	No oil	7.3	None	
SBR73-11324	380-390	87728	.0	2.7	97.0	.3	No oil	6.5	None	
SBR73-11325	390-400	87729	.0	2.6	97.0	.4	No oil	6.3	None	

See footnote at end of table.

Drill cutting samples received June 9, 1972; assays made on air-dried samples

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Surface elevation 6,722 feet

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			Weight percent		Spent shale	Gas + loss		Gal per ton		
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water
SBR73-11326	400-410	87730	0.0	3.4	96.6	0.0	No oil	8.0	None	
SBR73-11327	410-420	87731	.0	2.7	97.4	.1	No oil	6.5	None	
SBR73-11328	420-430	87732	.0	2.9	97.0	.1	No oil	6.9	None	
SBR73-11329	430-440	87733	.0	1.9	98.0	.1	No oil	4.5	None	
SBR73-11330	440-450	87734	.0	2.3	97.4	.3	No oil	5.6	None	
SBR73-11331	450-460	87735	.0	1.8	98.0	.2	No oil	4.4	None	
SBR73-11332	460-470	87736	.0	1.7	97.5	.8	No oil	4.1	None	
SBR73-11333	470-480	87737	.0	2.7	97.2	.1	No oil	6.5	None	
SBR73-11334	480-490	87738	.0	2.7	96.8	.5	No oil	6.4	None	
SBR73-11335	490-500	87739	.2	2.3	96.6	.9	.5a	5.5	None	
SBR73-11336	500-510	87740	.0	3.3	94.4	2.3	No oil	7.9	None	
SBR73-11337	510-520	87741	.0	3.0	96.6	.4	No oil	7.3	None	
SBR73-11338	520-530	87742	.0	2.6	96.8	.6	No oil	6.2	None	
SBR73-11339	530-540	87743	.0	3.1	96.6	.3	No oil	7.3	None	
SBR73-11340	540-550	87744	1.9	2.3	94.9	.9	5.0a	5.5	None	
SBR73-11341	550-560	87745	1.0	2.2	96.3	.5	2.5a	5.3	None	
SBR73-11342	560-570	87746	.0	1.9	98.0	.1	No oil	4.5	None	
SBR73-11343	570-580	87747	.0	2.3	97.3	.4	No oil	5.6	None	
SBR73-11344	580-590	87748	.0	2.0	97.8	.2	No oil	4.7	None	
SBR73-11345	590-600	87749	.0	1.9	97.7	.4	No oil	4.6	None	
SBR73-11346	600-610	87750	.0	2.1	97.7	.2	No oil	4.9	None	
SBR73-11347	610-620	87751	.0	2.1	97.8	.1	No oil	5.0	None	
SBR73-11348	620-630	87752	.0	2.2	97.4	.4	.1a	5.3	None	
SBR73-11349	630-640	87753	.5	1.4	97.4	.7	1.2a	3.4	None	
SBR73-11350	640-650	87754	.0	2.0	97.6	.4	No oil	4.8	None	
SBR73-11351	650-655	87755	1.0	1.8	97.9	.7	Trace	4.3	None	
SBR73-11352	655-660	87756	.0	1.9	97.4	.7	No oil	4.5	None	
SBR73-11353	660-665	87757	.0	2.1	97.4	.5	No oil	5.1	None	
SBR73-11354	665-670	87758	.0	2.0	97.5	.5	No oil	2.0	None	
SBR73-11355	670-675	87759	.0	2.3	97.1	.6	No oil	5.6	None	

See footnote at end of table.

Drill cutting samples received June 9, 1972; assays made on air-dried samples.

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Samples from U. S. Bureau of Mines Wyoming #2A well (con.)

Surface elevation 6,722 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 <sup>1</sup> /	Water	coke	
SBR73-11356	675-680	87760	0.0	2.6	97.0	0.4	No oil	6.2	None	
SBR73-11357	680-685	87761	.0	2.7	97.0	.3	No oil	6.3	None	
SBR73-11358	685-690	87762	.0	2.2	97.2	.6	No oil	5.7	None	
SBR73-11359	690-695	87763	.0	1.9	97.7	.4	No oil	4.6	None	
SBR73-11360	695-700	87764	.0	2.3	97.1	.6	No oil	5.6	None	
SBR73-11361	700-705	87765	.0	2.0	97.4	.6	No oil	4.8	None	
SBR73-11362	705-710	87766	.0	2.1	97.5	.4	No oil	5.0	None	
SBR73-11363	710-715	87767	.0	2.0	97.6	.4	No oil	4.8	None	
SBR73-11364	715-720	87768	.0	1.8	98.0	.2	No oil	4.3	None	
SBR73-11365	720-725	87769	.0	2.0	97.8	.2	Trace	4.9	None	
SBR73-11366	725-730	87770	.0	2.0	97.7	.3	No oil	4.8	None	
SBR73-11367	730-735	87771	.2	2.0	97.5	.3	.6a	4.8	None	
SBR73-11368	735-740	87772	.0	2.4	97.3	.3	Trace	5.8	None	
SBR73-11369	740-745	87773	.0	2.1	97.9	.0	No oil	5.0	None	
SBR73-11370	745-750	87774	.0	2.3	97.6	.1	No oil	5.6	None	
SBR73-11371	750-755	87775	.0	2.2	97.7	.1	No oil	5.3	None	
SBR73-11372	755-760	87776	.0	2.4	97.6	.0	Trace	5.8	None	
SBR73-11373	760-765	87777	.0	1.9	97.9	.2	No oil	4.7	None	
SBR73-11374	765-770	87778	.0	2.4	97.6	.0	No oil	5.8	None	
SBR73-11375	770-775	87779	.0	2.3	97.5	.2	No oil	5.5	None	
SBR73-11376	775-780	87780	.0	2.2	97.4	.4	No oil	5.2	None	
SBR73-11377	780-785	87781	1.2	2.1	95.7	1.0	3.2a	5.0	None	
SBR73-11378	785-790	87782	3.7	1.9	93.0	1.4	9.8	4.6	0.899	
SBR73-11379	790-795	87783	.8	2.3	96.0	.9	2.0a	5.6	None	
SBR73-11380	795-800	87784	.3	2.0	96.6	1.1	.8a	4.8	None	
SBR73-11381	800-805	87785	.9	2.2	95.8	1.1	2.3a	5.4	None	
SBR73-11382	805-810	87786	1.6	2.3	94.8	1.3	4.1a	5.6	None	
SBR73-11383	810-815	87787	3.9	2.0	92.5	1.6	10.5	4.8	.891	
SBR73-11384	815-820	87788	1.4	2.1	94.7	1.8	3.8a	4.9	None	
SBR73-11385	820-825	87789	2.3	2.4	93.9	1.4	6.1	5.8	.911	

See footnote at end of table.

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Surface elevation 6,722 feet

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			Weight percent		Gal per ton			Tendency to		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water	coke	
SBR73-11386	825-830	87790	2.6	2.2	93.6	1.6	6.7	5.4	0.909	None
SBR73-11387	830-835	87791	5.4	1.6	91.1	1.9	14.4	3.8	.899	None
SBR73-11388	835-840	87792	5.0	1.4	91.2	2.4	13.1	3.4	.917	None
SBR73-11389	840-845	87793	5.8	1.3	90.8	2.1	15.3	3.1	.905	None
SBR73-11390	845-850	87794	5.1	1.0	91.8	2.1	15.7	2.4	.908	None
SBR73-11391	850-855	87795	6.4	1.5	89.8	2.3	16.9	3.6	.911	None
SBR73-11392	855-860	87796	9.9	1.8	85.0	3.3	25.8	4.3	.917	None
SBR73-11393	860-865	87797	4.1	1.5	92.5	1.9	10.6	3.6	.918	None
SBR73-11394	865-870	87798	1.8	2.5	94.6	1.1	4.7 <sup>a</sup>	6.0		None
SBR73-11395	870-875	87799	3.9	2.0	92.5	1.6	10.1	4.8	.914	None
SBR73-11396	875-880	87800	4.7	1.6	92.0	1.7	12.2	3.8	.915	None
SBR73-11397	880-885	87801	7.9	2.2	85.9	4.0	20.7	5.3	.917	None
SBR73-11398	885-890	87802	3.8	1.3	93.4	1.5	9.8	3.1	.920	None
SBR73-11399	890-895	87803	7.1	1.4	88.8	2.7	18.7	3.4	.915	None
SBR73-11400	895-900	87804	4.8	1.0	92.0	2.2	12.8	2.4	.908	None
SBR73-11401	900-905	87805	3.0	1.7	94.1	1.2	7.8	4.1	.908	None
SBR73-11402	905-910	87806	4.8	1.6	91.6	2.0	12.5	3.8	.917	None
SBR73-11403	910-915	87807	5.0	.8	92.1	2.1	13.0	2.0	.920	None
SBR73-11404	915-920	87808	2.6	1.3	94.8	1.3	6.8	3.1	.914	None
SBR73-11405	920-925	87809	3.6	1.1	93.9	1.4	9.5	2.6	.915	None
SBR73-11406	925-930	87810	11.7	1.1	83.7	3.5	30.7	2.6	.910	Slight
SBR73-11407	930-935	87811	2.4	.9	95.2	1.5	6.4	2.0	.917	None
SBR73-11408	935-940	87812	7.0	1.2	88.8	3.0	18.5	2.8	.910	Slight
SBR73-11409	940-945	87813	6.6	1.2	89.5	2.7	17.1	2.9	.922	Slight
SBR73-11410	945-950	87814	2.3	1.5	94.8	1.4	6.1	3.6	.920	None

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

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