

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Davis Oil Company's Grady Federal Well No. 1-Z drilled in
SE1/4NW1/4 of sec 22, T 24 N, R 105 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		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke	
SBR71-1807-48	35-245						No Oil			
SBR71-1849	245-250						b			
SBR71-1850	250-255	56218	0.7	2.8	95.4	1.1	1.8a	6.7	None	
SBR71-1851	255-260	56219	.7	2.7	95.8	.8	1.7a	6.5	None	
SBR71-1852	260-265	56220	.3	1.9	96.1	1.7	.8a	4.6	None	
SBR71-1853	265-270	56221	.4	2.8	96.2	.6	1.0a	6.7	None	
SBR71-1854	270-275	56222	.2	2.4	97.1	.3	.5a	5.8	None	
SBR71-1855	275-280	56223	.1	2.0	97.7	.2	.2a	4.9	None	
SBR71-1856-57	280-290						b			
SBR71-1858-59	290-300						Trace			
SBR71-1860-61	300-310						No Oil			
SBR71-1862	310-315						b			
SBR71-1863	315-320						Trace			
SBR71-1864-70	320-355						No Oil			
SBR71-1871	355-360						Trace			
SBR71-1872-82	360-415						No Oil			
SBR71-1883	415-420						Trace			
SBR71-1884-86	420-435						b			
SBR71-1887	435-440						Trace			
SBR71-1888-99	440-500						No Oil			
SBR71-1900	500-505						Trace			
SBR71-1901-02	505-515						b			
SBR71-1903	515-520	56224	1.1	2.8	95.3	.8	2.8a	6.7	None	
SBR71-1904	520-525	56225	1.1	1.4	95.6	1.9	2.9a	3.4	None	
SBR71-1905	525-530	56226	1.1	2.0	95.8	1.1	2.8a	4.8	None	
SBR71-1906	530-535	56227	2.4	3.0	93.2	1.4	6.6	7.2	0.895	None
SBR71-1907	535-540	56228	2.2	2.9	93.8	1.1	6.0	7.0	.897	None
SBR71-1908	540-545	56229	3.1	2.7	93.0	1.2	8.2	6.5	.898	None
SBR71-1909	545-550	56230	3.2	2.2	93.6	1.0	8.3	5.3	.911	None
SBR71-1910	550-555	56231	4.9	2.1	92.0	1.0	12.7	5.0	.916	None

See footnote at end of table.

Drill cutting samples received December 31, 1970; Assays made on air-dried samples

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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	
SBR71-1911	555-560	56232	5.1	2.0	92.0	0.9	13.3	4.8	0.916	None
SBR71-1912	560-565	56233	5.6	1.7	92.0	.7	14.6	4.1	.915	None
SBR71-1913	565-570	56234	7.0	1.1	90.8	1.1	18.3	2.6	.915	None
SBR71-1914	570-580	56235	5.6	1.8	92.0	.6	14.8	4.2	.912	None
SBR71-1915	580-585	56236	6.0	1.9	91.5	.6	15.7	4.6	.910	None
SBR71-1916	585-590	56237	1.7	.5	94.5	3.3	4.4a	1.2		None
SBR71-1917	590-595	56238	4.1	1.7	93.9	.3	10.8	4.0	.916	None
SBR71-1918	595-600	56239	4.1	1.9	93.9	.1	10.8	4.4	.915	None
SBR71-1919	600-605	56240	5.4	1.9	92.1	.6	14.2	4.4	.910	None
SBR71-1920	605-610	56241	5.7	1.8	91.9	.6	14.9	4.3	.914	None
SBR71-1921	610-615	56242	4.6	1.3	92.2	1.9	12.0	3.2	.916	None
SBR71-1922	615-620	56243	4.1	1.3	92.6	2.0	10.6	3.1	.916	None
SBR71-1923	620-625	56244	4.3	1.7	92.5	1.5	11.4	4.0	.912	None
SBR71-1924	625-630	56245	3.9	2.0	92.4	1.7	10.4	4.7	.909	None
SBR71-1925	630-635	56246	4.2	2.1	92.1	1.6	11.0	5.0	.906	None
SBR71-1926	635-640	56247	3.9	1.7	92.4	2.0	10.3	4.2	.906	None
SBR71-1927	640-645	56248	2.7	1.8	93.9	1.6	7.2	4.3	.907	None
SBR71-1928	645-650	56249	3.2	1.3	92.6	2.9	8.3	3.2	.913	None
SBR71-1929	650-655	56250	3.3	1.8	93.1	1.8	8.8	4.3	.906	None
SBR71-1930	655-660	56251	2.4	2.2	94.1	1.3	6.4	5.2	.902	None
SBR71-1931	660-665	56252	2.6	2.0	94.1	1.3	6.9	4.9	.902	None
SBR71-1932	665-670	56253	2.4	1.8	94.2	1.6	6.2	4.4	.906	None
SBR71-1933	670-675	56254	2.1	2.2	94.9	.8	5.5	5.4	.906	None
SBR71-1934	675-680	56255	2.5	2.2	94.6	.7	6.6	5.4	.908	None
SBR71-1935	680-685	56256	2.3	1.8	94.9	1.0	6.1	4.3	.910	None
SBR71-1936	685-690	56257	2.8	2.2	94.6	.4	7.3	5.3	.905	None
SBR71-1937	690-695	56258	1.7	2.1	95.9	.3	4.4a	5.2		None
SBR71-1938	695-700	56259	1.5	2.3	95.6	.6	4.0a	5.5		None
SBR71-1939	700-705	56260	1.8	2.2	95.8	.2	4.6a	5.3		None
SBR71-1940	705-710	56261	1.5	1.5	95.9	1.1	4.0a	3.6		None

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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	Water	coke	
SBR71-1941	710-715	56262	1.7	1.8	95.9	0.6	4.5a	4.3	None	
SBR71-1942	715-720	56263	2.4	2.4	94.5	.7	6.3	5.6	0.917	None
SBR71-1943	720-725	56264	1.7	2.2	95.6	.5	4.4a	5.3	None	
SBR71-1944	725-730	56265	1.8	2.4	95.2	.6	4.7a	5.8	None	
SBR71-1945	730-735	56266	1.5	1.9	93.2	3.4	4.0a	4.6	None	
SBR71-1946	735-740	56267	1.3	2.2	95.6	.9	3.3a	5.3	None	
SBR71-1947	740-745	56268	1.4	2.2	93.0	3.4	3.8a	5.3	None	
SBR71-1948	745-750	56269	1.4	2.3	93.2	3.1	3.5a	5.5	None	
SBR71-1949	750-755	56270	.6	2.0	94.1	3.3	1.6a	4.8	None	
SBR71-1950	755-760	56271	.8	2.5	94.1	2.6	2.1a	6.0	None	
SBR71-1951	760-765	56272	.4	2.5	94.1	3.0	1.2a	6.0	None	
SBR71-1952	765-770	56273	.0	.4	94.2	5.4	No Oil	.9	None	
SBR71-1953	770-775	56274	.5	2.2	94.5	2.8	1.4a	5.3	None	
SBR71-1954	775-780	56275	.7	2.0	94.6	2.7	1.8a	4.8	None	
SBR71-1955	780-785	56276	1.3	2.2	94.0	2.5	3.3a	5.3	None	
SBR71-1956	785-790	56277	1.5	2.0	93.6	2.9	3.9a	4.8	None	
SBR71-1957	790-795	56278	1.6	2.0	95.2	1.2	4.3a	4.8	None	
SBR71-1958	795-800	56279	1.5	2.0	95.7	.8	4.0a	4.7	None	
SBR71-1959	800-805	56280	1.2	2.1	96.1	.6	3.2a	4.9	None	
SBR71-1960	805-810	56281	1.3	2.1	95.8	.8	3.5a	4.9	None	
SBR71-1961	810-815	56282	1.1	2.2	96.4	.3	2.9a	5.3	None	
SBR71-1962	815-820	56283	1.3	2.1	96.2	.4	3.3a	5.0	None	
SBR71-1963	820-825	56284	1.5	1.8	95.9	.8	3.8a	4.4	None	
SBR71-1964	825-830	56285	.9	1.2	95.7	2.2	2.3a	3.0	None	
SBR71-1965	830-835	56286	1.4	2.0	95.8	.8	3.5a	4.8	None	
SBR71-1966	835-840	56287	1.3	2.2	95.8	.7	3.3a	5.3	None	
SBR71-1967	840-845	56288	1.2	2.2	96.0	.6	3.2a	5.3	None	
SBR71-1968	845-850	56289	1.7	1.8	95.1	1.4	4.3a	4.3	None	
SBR71-1969	850-855	56290	3.3	1.8	93.9	1.0	8.7	4.3	.910	None
SBR71-1970	855-860	56291	2.6	1.7	93.3	2.4	6.8	4.1	.914	None

See footnote at end of table.

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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		
SBR71-1971	860-865	56292	3.2	1.6	93.6	1.6	8.5	3.8	0.911	None	
SBR71-1972	865-870	56293	2.9	2.0	94.1	1.0	7.6	4.9	.905	None	
SBR71-1973	870-875	56294	3.0	2.0	94.0	1.0	8.1	4.8	.905	None	
SBR71-1974	875-880	56295	4.0	1.8	93.0	1.2	10.6	4.2	.910	None	
SBR71-1975	880-885	56296	5.2	2.2	91.3	1.3	13.8	5.2	.912	None	
SBR71-1976	885-890	56297	4.8	1.4	91.3	2.5	12.6	3.4	.914	None	
SBR71-1977	890-895	56298	3.3	1.7	93.4	1.6	8.7	4.0	.911	None	
SBR71-1978	895-900	56299	3.2	2.3	93.3	1.2	8.5	5.4	.907	None	

^{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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