

15' of 309 UR191
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VE-1

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Chapita Wells No. 12 well drilled in NW 1/4, SE 1/4 of sec. 16, T. 9 S., R. 22 E., Uintah County, Utah

Rotary Bushing elevation 4,809 feet

Rotary boring elevation 4,007 feet

Mahogany Marker 2359

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale	Remarks
			Weight percent		Spent shale	Gas + loss	Oil	Water		Tendency to coke	
Laramie	Their		Oil	Water							
SBR61-1867-78	1500-1620						No Oil				
SBR61-1879-87	1620-1710						1.0 B				
SBR61-1888	1710-1720	71604	0.3	0.5	98.7	0.5	0.9a	1.1		None	
SBR61-1889	1720-1730	71605	1.4	.3	97.8	.5	3.6a	.7		None	
SBR61-1890	1730-1740	71606	1.5	.3	97.6	.6	3.8a	.7		None	
SBR61-1891	1740-1750	71607	1.2	.3	97.7	.8	3.0a	.8		None	
SBR61-1892	1750-1760	71608	1.2	.2	97.8	.8	3.2a	.5		None	
SBR61-1893	1760-1770	71609	1.9	.2	97.0	.9	5.0a	.5		None	
SBR61-1894	1770-1780	71610	1.7	.3	97.1	.9	4.5a	.6		None	
SBR61-1895	1780-1790	71611	2.0	.3	97.1	.6	5.2	.7	0.925	None	
SBR61-1896	1790-1800	71612	1.8	.3	97.3	.6	4.6a	.7		None	
SBR61-1897	1800-1810	71613	2.5	.2	96.7	.6	6.4	.6	.915	None	
SBR61-1898	1810-1820	71614	2.2	.3	96.4	1.1	5.7	.7	.934	None	
SBR61-1899	1820-1830	71615	2.4	.2	96.8	.6	6.1	.5	.925	None	
SBR61-1900	1830-1840	71616	2.7	.3	95.8	1.2	7.2	.6	.907	None	
SBR61-1901	1840-1850	71617	2.7	.2	96.0	1.1	7.2	.5	.913	None	
SBR61-1902	1850-1860	71618	2.8	.3	95.8	1.1	7.4	.6	.914	None	
SBR61-1903	1860-1870	71619	2.8	.3	95.8	1.1	7.4	.7	.900	None	
SBR61-1904	1870-1880	71620	2.5	.4	95.9	1.2	6.4	1.0	.924	None	
SBR61-1905	1880-1890	71621	2.4	.3	96.2	1.1	6.3	.6	.924	None	
SBR61-1906	1890-1900	71622	2.7	.2	96.1	1.0	6.9	.6	.923	None	
SBR61-1907	1900-1910	71623	2.7	.2	96.2	.9	7.0	.5	.925	None	
SBR61-1908	1910-1920	71624	2.7	.3	96.2	.8	7.1	.6	.920	None	
SBR61-1909	1920-1930	71625	2.8	.2	96.0	1.0	7.3	.6	.924	None	
SBR61-1910	1930-1940	71626	3.7	.1	95.1	1.1	9.6	.4	.921	None	
SBR61-1911	1940-1950	71627	3.4	.1	95.8	.7	8.8	.4	.918	None	
SBR61-1912	1950-1960	71628	5.8	.4	92.5	1.3	15.2	.8	.917	None	
SBR61-1913	1960-1970	71629	5.8	.3	92.7	1.2	15.1	.7	.913	None	
SBR61-1914	1970-1980	71630	3.3	.3	95.2	1.2	8.6	.7	.913	None	
SBR61-1915	1980-1990	71631	2.6	.3	96.1	1.0	6.8	.7	.919	None	

a - Specific gravity estimated due to insufficient oil; b - Less than 1.0 gallon of oil per ton of shale.

Drill cutting samples received September 1, 1960; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3463P Sheet No. 1 of 7 sheets March 10, 1961

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Chapita Wells No. 12 well (Con.)

Rotary Bushing elevation 4,809 feet

			Yield of product				Specific gravity		Properties of		
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60° F.	Tendency to coke	Remarks
Laramie	Their		Oil	Water			Oil	Water			
SBR61-1916	1990-2000	71632	2.7	0.1	96.0	1.2	7.0	0.3	0.922	None	
SBR61-1917	2010-2020	71633	3.5	.3	95.5	.7	9.0	.7	.931	None	
SBR61-1918	2020-2030	71634	3.5	.2	95.5	.8	9.1	.5	.928	None	
SBR61-1919	2030-2040	71635	3.0	.3	95.6	1.1	7.8	.7	.921	None	
SBR61-1920	2040-2050	71636	4.0	.4	94.5	1.1	10.3	1.0	.923	None	
SBR61-1921	2050-2060	71637	4.0	.1	94.9	1.0	10.4	.2	.920	None	
SBR61-1922	2060-2070	71638	5.5	.3	92.8	1.4	14.2	.7	.921	None	
SBR61-1923	2070-2080	71639	5.0	.3	93.1	1.6	12.9	.8	.923	None	
SBR61-1924	2080-2090	71640	4.0	.2	94.9	.9	10.3	.5	.921	None	
SBR61-1925	2090-2100	71641	3.4	.1	95.6	.9	8.7	.2	.923	None	
SBR61-1926	2100-2110	71642	3.1	.1	96.0	.8	8.0	.4	.921	None	
SBR61-1927	2110-2120	71643	3.1	.2	96.2	.5	8.2	.5	.917	None	
SBR61-1928	2120-2130	71644	3.1	.3	96.2	.4	8.1	.6	.915	None	
SBR61-1929	2130-2140	71645	3.6	.2	95.5	.7	9.5	.5	.915	None	
SBR61-1930	2140-2150	71646	3.7	.2	95.3	.8	9.8	.4	.917	None	
SBR61-1931	2150-2160	71647	3.8	.1	95.4	.7	9.8	.4	.919	None	
SBR61-1932	2160-2170	71648	3.7	.1	95.6	.6	9.8	.2	.917	None	
SBR61-1933	2170-2180	71649	3.8	.2	95.3	.7	9.9	.5	.921	None	
SBR61-1934	2180-2190	71650	3.8	.1	95.5	.6	10.0	.2	.919	None	
SBR61-1935	2190-2200	71651	4.3	.2	94.7	.8	11.2	.5	.920	None	
SBR61-1936	2200-2210	71652	4.2	.3	94.5	1.0	11.0	.6	.923	None	
SBR61-1937	2210-2220	71653	5.3	.2	93.5	1.0	13.8	.5	.915	None	
SBR61-1938	2220-2230	71654	5.3	.2	93.3	1.2	14.0	.5	.910	None	
SBR61-1939	2230-2240	71655	4.4	.4	94.2	1.0	11.6	.8	.911	None	
SBR61-1940	2240-2250	71656	4.1	.4	94.6	.9	10.9	1.0	.910	None	
SBR61-1941	2250-2260	71657	4.9	.3	93.8	1.0	12.9	.6	.913	None	
SBR61-1942	2260-2270	71658	4.9	.3	93.7	1.1	12.8	.7	.913	None	
SBR61-1943	2270-2280	71659	4.9	.3	94.0	.8	12.9	.7	.915	None	
SBR61-1944	2280-2290	71660	5.7	.3	93.3	.7	14.9	.7	.911	None	
SBR61-1945	2290-2300	71661	5.2	.3	93.8	.7	13.9	.6	.901	None	

Drill cutting samples received September 1, 1960; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3463P Sheet No. 2 of 7 sheets March 10, 1961

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Chapita Wells No. 12 well (Con.)

Rotary Bushing elevation 4,809 feet

			Yield of product				Specific gravity		Properties of spent shale		
Sample number		Run	Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60° F.	Tendency to coke	Remarks
Laramie	Their	No.	Oil	Water			Oil	Water			
SBR61-1946	2300-2310	71662	4.5	0.2	94.3	1.0	11.8	0.5	0.914	None	
SBR61-1947	2310-2320	71663	5.3	.3	93.6	.8	14.0	.6	.913	None	
SBR61-1948	2320-2330	71664	5.2	.2	93.5	1.1	13.6	.4	.917	None	
SBR61-1949	2330-2340	71665	5.1	.3	93.6	1.0	13.3	.7	.920	None	
SBR61-1950	2340-2350	71666	5.2	.3	93.5	1.0	13.6	.6	.922	None	
SBR61-1951	2350-2360	71667	5.2	.3	93.7	.8	13.7	.7	.913	None	
SBR61-1952	2360-2370	71668	5.4	.3	93.4	.9	14.0	.7	.917	None	
SBR61-1953	2370-2380	71669	6.7	.3	91.8	1.2	17.6	.6	.916	None	
SBR61-1954	2380-2390	71670	5.6	.2	92.9	1.3	14.8	.4	.912	None	
SBR61-1955	2390-2400	71671	4.2	.1	94.6	1.1	11.0	.4	.913	None	
SBR61-1956	2400-2410	71672	5.9	.2	92.8	1.1	15.6	.6	.909	Slight	
SBR61-1957	2410-2420	71673	8.7	.4	89.3	1.6	23.0	1.0	.905	Slight	
SBR61-1958	2420-2430	71674	5.8	.2	92.8	1.2	15.4	.5	.906	Slight	
SBR61-1959	2430-2440	71675	7.7	.3	90.6	1.4	20.3	.7	.909	Slight	
SBR61-1960	2440-2450	71676	12.2	.3	85.5	2.0	32.4	.7	.904	Slight	
SBR61-1961	2450-2460	71677	9.5	.2	88.0	2.3	24.8	.5	.917	Slight	
SBR61-1962	2460-2470	71678	10.7	.4	87.0	1.9	28.3	1.0	.904	Slight	
SBR61-1963	2470-2480	71679	8.1	.3	90.2	1.4	21.6	.6	.901	None	
SBR61-1964	2480-2490	71680	7.6	.2	91.0	1.2	20.1	.5	.903	None	
SBR61-1965	2490-2500	71681	5.5	.3	93.0	1.2	14.6	.6	.906	None	
SBR61-1966	2500-2510	71682	4.2	.2	94.9	.7	11.1	.4	.906	None	
SBR61-1967	2510-2520	71683	3.6	.2	94.7	1.5	9.7	.4	.905	None	
SBR61-1968	2520-2530	71684	4.7	.4	93.9	1.0	12.3	1.0	.914	None	
SBR61-1969	2530-2540	71685	2.8	.2	96.3	.7	7.3	.5	.914	None	
SBR61-1970	2540-2550	71686	2.9	.2	96.0	.9	7.5	.5	.922	None	
SBR61-1971	2550-2560	71687	2.2	.7	96.5	.6	5.9	1.7	.909	None	
SBR61-1972	2560-2570	71688	1.4	.6	97.1	.9	3.7a	1.4		None	
SBR61-1973	2570-2580	71689	1.3	.5	97.8	.4	3.3a	1.2		None	
SBR61-1974	2580-2590	71690	.8	.5	98.2	.5	2.1a	1.1		None	
SBR61-1975	2590-2600	71691	2.6	.5	96.3	.6	6.8	1.2	.909	None	

Drill cutting samples received September 1, 1960; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3463P Sheet No. 3 of 7 sheets March 10, 1961

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Chapita Wells No. 12 well (Con.)

Rotary Bushing elevation 4,809 feet

			Yield of product				Specific gravity		Properties of	
			Weight percent		Gal. per ton		of oil at		spent shale	
Sample number		Run			Spent	Gas +			Tendency to	
Laramie	Their	No.	Oil	Water	shale	loss	Oil	Water	60°/60° F.	coke
SBR61-1976	2600-2610	71692	2.7	0.6	96.1	0.6	7.2	1.3	0.903	None
SBR61-1977	2610-2620	71693	3.3	.4	95.6	.7	8.8	1.0	.904	None
SBR61-1978	2620-2630	71694	3.8	.4	95.0	.8	10.1	.8	.904	None
SBR61-1979	2630-2640	71695	3.6	.3	95.0	1.1	9.4	.7	.900	None
SBR61-1980	2640-2650	71696	4.1	.2	93.9	1.8	11.0	.4	.903	None
SBR61-1981	2650-2660	71697	4.5	.4	93.8	1.3	11.9	1.0	.901	None
SBR61-1982	2660-2670	71698	5.6	.7	92.4	1.3	14.7	1.8	.909	None
SBR61-1983	2670-2680	71699	5.8	.7	92.4	1.1	15.2	1.7	.909	None
SBR61-1984	2680-2690	71700	4.3	1.0	93.6	1.1	11.4	2.3	.911	None
SBR61-1985	2690-2700	71701	3.9	1.3	93.8	1.0	10.0	3.1	.923	None
SBR61-1986	2700-2710	71702	4.4	1.1	93.2	1.3	11.6	2.6	.915	None
SBR61-1987	2710-2720	71703	4.0	1.1	93.8	1.1	10.6	2.6	.910	None
SBR61-1988	2720-2730	71704	3.9	1.1	93.8	1.2	10.2	2.6	.911	None
SBR61-1989	2730-2740	71705	2.1	1.2	95.8	.9	5.5	3.0	.909	None
SBR61-1990	2740-2750	71706	2.0	1.6	95.0	1.4	5.2	4.0	.908	None
SBR61-1991	2750-2760	71707	1.4	1.4	96.6	.6	3.8a	3.4		None
SBR61-1992	2760-2770	71708	1.3	1.8	96.3	.6	3.5a	4.2		None
SBR61-1993	2770-2780	71709	1.3	1.6	96.5	.6	3.4a	4.0		None
SBR61-1994	2780-2790	71710	3.1	1.2	94.0	1.7	8.1	2.8	.925	None
SBR61-1995	2790-2800	71711	3.8	1.5	93.6	1.1	10.0	3.6	.913	None
SBR61-1996	2800-2810	71712	3.4	1.2	93.7	1.7	9.0	2.9	.915	None
SBR61-1997	2810-2820	71713	4.0	1.6	93.3	1.1	10.4	3.8	.926	None
SBR61-1998	2820-2830	71714	4.4	1.4	92.8	1.4	11.6	3.4	.917	None
SBR61-1999	2830-2840	71715	3.6	1.4	93.9	1.1	9.4	3.4	.920	None
SBR61-2000	2840-2850	71716	2.4	1.1	95.5	1.0	6.3	2.6	.902	None
SBR61-2001	2850-2860	71717	1.8	.5	96.8	.9	4.6a	1.2		Slight
SBR61-2002	2860-2870	71718	1.8	.8	96.6	.8	4.7a	1.8		Slight
SBR61-2003	2870-2880	71719	1.4	.5	97.4	.7	3.7a	1.1		None
SBR61-2004	2880-2890	71720	1.9	1.0	96.3	.8	4.9a	2.4		None
SBR61-2005	2890-2900	71721	1.7	1.0	96.7	.6	4.4a	2.4		None

a - Specific gravity estimated due to insufficient oil.

Drill cutting samples received September 1, 1960; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3463P Sheet No. 4 of 7 sheets March 10, 1961

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Chapita Wells No. 12 well (con.)

Rotary Bushing elevation 4,809 feet

Sample number			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
			Weight percent		Gal. per ton					Tendency to coke		
			Oil	Water	Spent shale	Gas + loss	Oil	Water				
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil	Water				
SBR61-2006	2900-2910	71722	1.8	1.5	96.1	0.6	4.6a	3.6		Slight		
SBR61-2007	2910-2920	71723	1.9	1.0	96.5	.6	5.0a	2.3		None		
SBR61-2008	2920-2930	71724	2.5	1.5	95.2	.8	6.7	3.6	0.904	None		
SBR61-2009	2930-2940	71725	4.5	1.6	92.5	1.4	11.9	3.8	.907	None		
SBR61-2010	2940-2950	71726	3.4	1.5	94.0	1.1	9.0	3.6	.906	None		
SBR61-2011	2950-2960	71727	5.3	1.3	92.0	1.4	14.0	3.1	.903	None		
SBR61-2012	2960-2970	71728	4.4	1.3	92.7	1.6	11.7	3.1	.907	None		
SBR61-2013	2970-2980	71729	5.3	1.6	91.4	1.7	14.1	3.7	.906	None		
SBR61-2014	2980-2990	71730	5.0	1.2	91.8	2.0	13.3	2.9	.901	None		
SBR61-2015	2990-3000	71731	4.5	1.0	92.7	1.8	12.1	2.4	.891	None		
SBR61-2016	3000-3010	71732	4.4	1.0	93.3	1.3	11.9	2.4	.894	None		
SBR61-2017	3010-3020	71733	4.2	1.1	93.1	1.6	11.2	2.6	.899	None		
SBR61-2018	3020-3030	71734	3.6	1.2	93.8	1.4	9.6	3.0	.900	None		
SBR61-2019	3030-3040	71735	3.7	1.3	93.6	1.4	10.0	3.1	.897	None		
SBR61-2020	3040-3050	71736	2.5	1.5	94.6	1.4	6.8	3.6	.898	None		
SBR61-2021	3050-3060	71737	1.4	2.0	94.9	1.7	3.6a	4.8		None		
SBR61-2022	3060-3070	71738	2.1	1.7	95.0	1.2	5.5	4.1	.903	None		
SBR61-2023	3070-3080	71739	3.9	1.4	93.6	1.1	10.3	3.4	.904	None		
SBR61-2024	3080-3090	71740	3.8	1.5	93.7	1.0	10.1	3.6	.903	None		
SBR61-2025	3090-3100	71741	2.8	1.6	94.5	1.1	7.5	3.8	.903	None		
SBR61-2026	3100-3110	71742	3.1	1.7	94.1	1.1	8.2	4.1	.903	None		
SBR61-2027	3110-3120	71743	3.1	1.3	94.3	1.3	8.4	3.0	.895	None		
SBR61-2028	3120-3130	71744	3.0	1.1	94.3	1.6	8.0	2.6	.902	None		
SBR61-2029	3130-3140	71745	4.3	1.2	93.2	1.3	11.5	2.9	.901	None		
SBR61-2030	3140-3150	71746	4.0	1.8	92.9	1.3	10.6	4.3	.904	None		
SBR61-2031	3150-3160	71747	2.6	2.0	94.6	.8	7.0	4.8	.902	None		
SBR61-2032	3160-3170	71748	2.8	2.0	94.5	.7	7.3	4.8	.900	None		
SBR61-2033	3170-3180	71749	2.3	1.9	95.0	.8	6.3	4.6	.894	None		
SBR61-2034	3180-3190	71750	1.1	2.0	96.2	.7	2.8a	4.8		None		
SBR61-2035	3190-3200	71751	.6	1.9	97.2	.3	1.7a	4.6		None		

a - Specific gravity estimated due to insufficient oil.

Drill cutting samples received September 1, 1960; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3463P Sheet No. 5 of 7 sheets, March 10, 1961

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Chapita Wells No. 12 well (Con.)

Rotary Bushing elevation 4,809 feet

Rotary Bushing elevation 4,809 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	Water		coke	
SBR61-2036	3200-3210	71752	0.9	1.5	97.0	0.6	2.2a	3.6		None	
SBR61-2037	3210-3220	71753	1.1	1.8	96.3	.8	2.7a	4.3		None'	
SBR61-2038	3220-3230	71754	.7	.8	96.5	2.0	1.8a	1.9		None	
SBR61-2039	3230-3240	71755	3.2	.8	93.4	2.6	8.4	2.0	0.905	None	
SBR61-2040	3240-3250	71756	1.7	1.2	97.0	.1	4.5a	2.9		None	
SBR61-2041-44	3250-3290						Trace				
SBR61-2045-66	3290-3510						1.0 B				
SBR61-2067-69	3510-3540						Trace				
SBR61-2070	3540-3550	71757	1.0	2.7	95.7	.6	2.5a	6.5		None	
SBR61-2071-73	3550-3580						Trace				
SBR61-2074	3580-3590	71758	.2	2.4	96.5	.9	.6a	5.8		None	
SBR61-2075-77	3590-3620						Trace				
SBR61-2078	3620-3630	71759	.9	2.2	96.3	.6	2.3a	5.3		None	
SBR61-2079	3630-3640	71760	2.5	1.7	94.8	1.0	6.8	4.1	.889	None	
SBR61-2080	3640-3650	71761	3.0	2.2	93.9	.9	8.0	5.3	.890	None	
SBR61-2081	3650-3660	71762	1.3	2.5	95.4	.8	3.4a	6.0		None	
SBR61-2082	3660-3670	71763	.7	1.7	96.8	.8	1.9a	4.1		None	
SBR61-2083	3670-3680	71764	.6	2.0	96.9	.5	1.5a	4.8		None	
SBR61-2084	3680-3690	71765	.4	1.6	97.5	.5	1.1a	3.8		None	
SBR61-2085	3690-3700	71766	.5	1.7	97.0	.8	1.3a	4.1		None	
SBR61-2086	3700-3710	71767	1.0	1.9	95.9	1.2	2.6a	4.6		None	
SBR61-2087	3710-3720	71768	.9	2.0	96.2	.9	2.3a	4.8		None	
SBR61-2088	3720-3730	71769	.7	1.6	97.2	.5	1.8a	3.8		None	
SBR61-2089-90	3730-3750						Trace				
SBR61-2091	3750-3760	71770	1.0	1.9	96.3	.8	2.7a	4.6		None	
SBR61-2092-96	3760-3810						No Oil				
SBR61-2097-2100	3810-3850						Trace				
SBR61-2101	3850-3860	71771	.4	1.8	97.7	.1	1.0a	4.3		None	
SBR61-2102-05	3860-3900						Trace				
SBR61-2106	3900-3910	71772	.0	2.3	97.6	.1	.1a	5.5		None	

a - Specific gravity estimated due to insufficient oil; b - Less than 1.0 gallon of oil per ton of shale; c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Drill cutting samples received September 1, 1960; assays made on air-dried samples.

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Chapita Wells No. 12 well (Con.)

Rotary Bushing elevation 4,809 feet

		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			Tendency to coke		
Sample number	Run	Oil	Water			Oil	Water				
Laramie	Their	No.									
SBR61-2107	3910-3920						No Oil				
SBR61-2108-09	3930-3950						Trace				
SBR61-2110-11	3950-3970						No Oil				
SBR61-2112-16	3970-4020						Trace				
SBR61-2117-26	4020-4120						No Oil				
SBR61-2127-42	4120-4280						3.0c				
SBR61-2143-45	4280-4310						Trace				
SBR61-2146	4310-4320	71773	0.9	1.9	97.0	0.2	2.3a	4.6		None	
SBR61-2147	4320-4330	71774	1.5	1.9	96.0	.6	3.9a	4.6		None	
SBR61-2148	4330-4340	71775	1.3	2.0	96.3	.4	3.4a	4.8		None	
SBR61-2149	4340-4350	71776	2.0	1.6	95.6	.8	5.2a	3.8		None	
SBR61-2150	4350-4360	71777	2.0	1.9	95.1	1.0	5.3a	4.6		None	
SBR61-2151	4360-4370	71778	1.8	1.2	95.4	1.6	4.8a	2.9		None	
SBR61-2152	4370-4380	71779	3.0	1.8	94.3	.9	8.4	4.3	0.870	None	
SBR61-2153	4380-4390	71780	2.9	1.4	95.0	.7	8.0	3.5	.871	None	
SBR61-2154	4390-4400	71781	2.7	1.6	94.9	.8	7.4	3.8	.875	None	
SBR61-2155	4400-4410	71782	3.0	1.7	94.3	1.0	8.1	4.1	.873	None	
SBR61-2156	4410-4420	71783	2.4	1.8	95.1	.7	6.4	4.4	.877	None	
SBR61-2157	4420-4430	71784	2.1	1.9	94.8	1.2	5.8	4.6	.880	None	
SBR61-2158	4430-4440	71785	1.7	1.8	95.8	.7	4.5a	4.2		None	
SBR61-2159	4440-4450	71786	3.1	1.8	94.1	1.0	8.2	4.3	.892	None	
SBR61-2160	4450-4460	71787	3.2	1.5	94.1	1.2	8.6	3.6	.889	None	
SBR61-2161	4460-4470	71788	4.9	.1	94.0	1.0	12.8a	.2		None	
SBR61-2162	4470-4480	71789	2.6	1.5	94.6	1.3	7.1	3.6	.886	None	
SBR61-2163	4480-4490	71790	2.9	.8	95.3	1.0	7.5a	1.8		None	
SBR61-2164	4490-4500	71791	1.1	1.9	95.5	1.5	2.9a	4.6		None	
SBR61-2165-66	4500-4520						1.0B				
SBR61-2167-76	4520-4620						3.0c				
SBR61-2177-94	4620-4800						1.0B				

a - Specific gravity estimated due to insufficient oil; b - Less than 1.0 gallon of oil per ton of shale; c - More than 1.0 but less than 3.0 gallons of oil per ton of shale

Drill cutting samples received September 1, 1960; assays made on air-dried samples.

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