

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12 drilled in the  
NW1/4SE1/4 (1597 feet FSL, 2471.13 feet FEL) of sec. 19, T 12 S, R 24 E, S.L.B. & M., Uintah County, Utah

Surface elevation: 6,261 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke	Remarks
			Oil	Water			Oil <sup>1/</sup>	Water			
Laramie	Their										
SBR80-1813	91.0-92.0	63648	2.1	1.8	95.2	0.9	5.4	4.3	0.928	None	
SBR80-1814	92.0-93.0	63649	2.1	1.7	95.3	0.9	5.6	4.1	.936	None	
SBR80-1815	93.0-94.4	63650	1.4	1.2	95.8	1.6	3.7a	2.9		None	
SBR80-1816	94.4-95.0	63651	1.5	2.0	95.8	0.7	3.9a	4.8		None	
SBR80-1817	95.0-96.0	63652	1.4	1.6	96.1	0.9	3.6a	3.8		None	
SBR80-1818	96.0-97.0	63653	1.6	1.2	96.8	0.4	4.2a	2.9		None	
SBR80-1819	97.0-98.0	63654	1.0	1.5	96.6	0.9	2.6a	3.6		None	
SBR80-1820	98.0-99.4	63655	1.2	1.8	96.6	0.4	3.0a	4.3		None	
SBR80-1821	99.4-100.0	63656	0.7	1.9	97.2	0.2	1.9a	4.6		None	
SBR80-1822	100.0-100.7	63657	0.6	1.7	97.3	0.4	1.5a	4.1		None	
SBR80-1823	100.7-101.7	63658	0.9	1.6	97.3	0.2	2.2a	3.8		None	
SBR80-1824	101.7-103.0	63659	1.0	1.6	97.1	0.3	2.7a	3.8		None	
SBR80-1825	103.0-104.0	63660	0.8	1.8	97.2	0.2	2.1a	4.3		None	
SBR80-1826	104.0-105.0	63661	1.0	1.6	97.0	0.4	2.7a	3.8		None	
SBR80-1827	105.0-106.0	63662	0.9	1.4	97.0	0.7	2.5a	3.4		None	
SBR80-1828	106.0-107.0	63663	1.0	1.8	96.9	0.3	2.6a	4.3		None	
SBR80-1829	107.0-108.0	63664	0.8	1.9	97.0	0.3	2.1a	4.6		None	
SBR80-1830	108.0-109.0	63665	0.9	1.4	96.6	1.1	2.2a	3.4		None	
SBR80-1831	109.0-110.0	63666	0.8	0.9	96.4	1.9	2.0a	2.2		None	
SBR80-1832	110.0-111.0	63667	1.8	1.5	95.6	1.1	4.6a	3.6		None	
SBR80-1833	111.0-112.0	63668	2.3	1.5	95.0	1.2	6.0	3.6	.921	None	
SBR80-1834	112.0-113.0	63669	2.1	1.5	95.3	1.1	5.3	3.6	.930	None	
SBR80-1835	113.0-114.0	63670	1.6	1.5	95.9	1.0	4.2a	3.6		None	
SBR80-1836	114.0-115.0	63671	1.9	1.6	95.5	1.0	4.9a	3.8		None	
SBR80-1837	115.0-116.0	63672	2.6	1.3	94.8	1.3	6.7	3.1	.934	None	
SBR80-1838	116.0-117.0	63673	2.2	1.6	95.2	1.0	5.6	3.8	.931	None	
SBR80-1839	117.0-118.0	63674	1.3	1.8	95.7	1.2	3.5a	4.3		None	
SBR80-1840	118.0-119.0	63675	1.2	1.8	96.1	0.9	3.1a	4.3		None	
SBR80-1841	119.0-120.0	63676	1.5	1.7	96.0	0.8	3.9a	4.1		None	
SBR80-1842	120.0-121.0	63677	1.2	1.1	97.3	0.4	3.0a	2.6		None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 11

Surface elevation: 6,261 feet

Surface elevation: 6,261 feet			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil <sup>1/</sup>	Water				
Laramie	Their											
SBR80-1843	121.0-122.0	63678	1.0	1.0	97.2	0.8	2.7a	2.4			None	
SBR80-1844	122.0-123.0	63679	1.3	1.3	96.9	0.5	3.4a	3.1			None	
SBR80-1845	123.0-124.0	63680	1.5	1.5	96.5	0.5	3.8a	3.6			None	
SBR80-1846	124.0-125.0	63681	1.5	1.6	96.3	0.6	3.8a	3.8			None	
SBR80-1847	125.0-126.0	63682	1.6	1.5	96.3	0.6	4.2a	3.6			None	
SBR80-1848	126.0-127.0	63683	1.6	1.7	96.0	0.7	4.3a	4.1			None	
SBR80-1849	127.0-128.0	63684	2.2	1.6	95.6	0.6	5.6	3.8	.919		None	
SBR80-1850	128.0-129.0	63685	1.9	1.5	95.9	0.7	4.9a	3.6			None	
SBR80-1851	129.0-129.7	63686	0.9	0.9	96.6	1.6	2.3a	2.2			None	
SBR80-1852	130.0-131.7	63687	1.5	1.7	96.3	0.5	3.8a	4.1			None	
SBR80-1853	131.7-132.0	63688	2.0	1.4	95.9	0.7	5.1	3.4	.931		None	
SBR80-1854	132.0-133.6	63689	2.3	1.3	95.1	1.4	6.0	2.9	.926		None	
SBR80-1855	133.6-134.0	63690	2.1	1.3	95.4	1.2	5.4	3.1	.931		None	
SBR80-1856	134.0-135.0	63691	2.8	1.2	94.7	1.3	7.1	2.9	.933		None	
SBR80-1857	135.0-136.0	63692	2.3	1.5	95.0	1.2	6.0	3.6	.931		None	
SBR80-1858	136.0-137.0	63693	1.5	1.8	95.4	1.3	4.0a	4.3			None	
SBR80-1859	137.0-138.0	63694	1.5	1.9	95.4	1.2	4.0a	4.6			None	
SBR80-1860	138.0-139.0	63695	1.6	1.7	95.7	1.0	4.2a	4.1			None	
SBR80-1861	139.0-140.0	63696	1.3	1.5	96.4	0.8	3.3a	3.6			None	
SBR80-1862	140.0-141.0	63697	1.4	1.6	96.0	1.0	3.7a	3.8			None	
SBR80-1863	141.0-142.0	63698	1.3	1.0	95.7	2.0	3.3a	2.4			None	
SBR80-1864	142.0-143.0	63699	1.7	1.1	96.2	0.9	4.3a	2.6			None	
SBR80-1865	143.0-143.6	63700	1.8	1.3	95.2	1.7	4.7a	3.1			None	
SBR80-1866	143.6-145.0	63701	2.2	1.5	95.8	0.5	5.6	3.6	.933		None	
SBR80-1867	145.0-146.0	63702	2.4	1.2	95.2	1.2	6.2	2.9	.936		None	
SBR80-1868	146.0-147.0	63703	2.0	1.7	95.7	0.6	5.2	4.1	.934		None	
SBR80-1869	147.0-148.0	63704	1.9	1.9	95.8	0.4	4.9a	4.6			None	
SBR80-1870	148.0-149.0	63705	1.8	1.8	96.1	0.3	4.7a	4.3			None	
SBR80-1871	149.0-150.0	63706	1.9	1.5	96.3	0.3	4.9a	3.6			None	
SBR80-1872	150.0-151.0	63707	2.5	1.1	95.9	0.5	6.5	2.6	.933		None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water			Oil <sup>1/</sup>	Water				
SBR80-1873	151.0-152.0	63708	2.2	1.5	95.7	0.6	5.8	3.6	0.928	None		
SBR80-1874	152.0-153.0	63709	2.3	1.7	95.4	0.6	5.9	4.1	.928	None		
SBR80-1875	153.0-154.0	63710	1.6	1.5	95.7	1.2	4.2a	3.6		None		
SBR80-1876	154.0-155.0	63711	1.7	1.9	95.9	0.5	4.5a	4.6		None		
SBR80-1877	155.0-156.0	63712	1.7	1.9	96.0	0.4	4.5a	4.6		None		
SBR80-1878	156.0-157.0	63713	1.8	1.8	95.8	0.6	4.6a	4.3		None		
SBR80-1879	157.0-158.3	63714	1.0	0.9	96.9	1.2	2.7a	2.2		None		
SBR80-1880	160.0-161.0	63715	2.6	1.4	95.1	0.9	6.6	3.4	.927	None		
SBR80-1881	161.0-162.0	63716	2.4	1.8	95.0	0.8	6.2	4.3	.925	None		
SBR80-1882	162.0-163.0	63717	2.2	1.8	95.4	0.6	5.6	4.3	.929	None		
SBR80-1883	163.0-164.0	63718	1.7	1.8	95.9	0.6	4.4a	4.3		None		
SBR80-1884	164.0-165.0	63719	2.3	1.6	95.3	0.8	6.0	3.8	.923	None		
SBR80-1885	165.0-166.0	63720	2.2	1.4	95.7	0.7	5.8	3.4	.925	None		
SBR80-1886	166.0-167.0	63721	2.6	1.5	95.1	0.8	6.8	3.6	.927	None		
SBR80-1887	167.0-168.0	63722	2.3	1.6	95.5	0.6	6.0	3.8	.925	None		
SBR80-1888	168.0-169.0	63723	2.2	1.8	95.3	0.7	5.8	4.3	.926	None		
SBR80-1889	169.0-170.0	63724	2.2	1.7	95.4	0.7	5.6	4.1	.926	None		
SBR80-1890	170.0-171.0	63725	2.6	1.6	95.1	0.7	6.8	3.8	.931	None		
SBR80-1891	171.0-172.0	63726	2.3	1.4	95.7	0.6	6.0	3.4	.929	None		
SBR80-1892	172.0-173.0	63727	1.8	1.7	95.8	0.7	4.8a	4.1		None		
SBR80-1893	173.0-174.0	63728	1.3	1.8	96.3	0.6	3.4a	4.3		None		
SBR80-1894	174.0-175.0	63729	1.5	1.7	96.2	0.6	3.8a	4.1		None		
SBR80-1895	175.0-176.0	63730	1.0	1.5	97.1	0.4	2.7a	3.6		None		
SBR80-1896	176.0-177.2	63731	1.6	1.3	96.7	0.4	4.3a	3.1		None		
SBR80-1897	177.2-178.3	63732	5.8	1.1	91.7	1.4	15.2	2.6	.918	None		
SBR80-1898	178.3-179.5	63733	2.2	1.7	95.5	0.6	5.6	4.1	.931	None		
SBR80-1899	179.5-180.5	63734	1.3	1.4	96.0	1.3	3.4a	3.4		None		
SBR80-1900	180.5-182.0	63735	1.7	2.2	95.4	0.7	4.5a	5.3		None		
SBR80-1901	182.0-183.1	63736	2.9	1.5	94.7	0.9	7.7	3.6	.920	None		
SBR80-1902	183.1-184.2	63737	6.3	1.1	90.9	1.7	16.7	2.6	.909	None		

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

Surface elevation: 6,261 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 coke		
			Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water				
Laramie	Their											
SBR80-1903	184.2-184.8	63738	7.8	1.0	89.2	2.0	20.4	2.4	0.914		None	
SBR80-1904	184.8-185.5	63739	2.2	1.8	95.2	0.8	5.7	4.3	.917		None	
SBR80-1905	185.5-186.1	63740	2.7	1.5	94.6	1.2	7.0	3.6	.920		None	
SBR80-1906	186.1-187.0	63741	1.8	1.4	95.7	1.1	4.8a	3.4			None	
SBR80-1907	187.0-188.0	63742	2.9	1.0	95.0	1.1	7.5	2.4	.922		None	
SBR80-1908	188.0-189.2	63743	2.9	1.3	94.6	1.2	7.6	3.1	.922		None	
SBR80-1909	189.2-190.2	63744	9.8	0.8	86.3	3.1	25.7	1.9	.914		Slight	
SBR80-1910	190.2-191.0	63745	3.2	0.8	94.6	1.4	8.4	1.9	.928		None	
SBR80-1911	191.0-192.0	63746	1.6	0.8	96.2	1.4	4.1a	1.9			None	
SBR80-1912	192.0-192.8	63747	2.2	1.0	95.9	0.9	5.7	2.4	.928		None	
SBR80-1913	192.8-193.8	63748	3.0	0.7	95.4	0.9	7.9	1.7	.922		None	
SBR80-1914	193.8-195.3	63749	2.5	0.6	96.3	0.6	6.4	1.4	.929		None	
SBR80-1915	195.3-196.5	63750	2.8	0.7	89.6	1.9	20.2	1.7	.923		None	
SBR80-1916	196.5-197.5	63751	2.9	0.6	95.8	0.7	7.6	1.4	.928		None	
SBR80-1917	197.5-198.2	63752	1.9	0.5	97.1	0.5	5.0a	1.2			None	
SBR80-1918	198.2-199.3	63753	1.6	0.5	96.8	1.1	4.3a	1.2			None	
SBR80-1919	199.3-199.7	63754	3.9	0.3	95.4	0.4	10.5	0.7	.895		None	
SBR80-1920	199.7-200.2	63755	1.7	0.4	96.8	1.1	4.4a	1.0			None	
SBR80-1921	200.2-200.5	63756	8.2	0.8	88.8	2.2	21.4	1.9	.921		None	
SBR80-1923	202.0-203.0	63757	5.8	0.7	91.7	1.8	15.2	1.7	.919		None	
SBR80-1924	203.0-204.0	63758	7.2	0.8	89.9	2.1	18.8	1.9	.917		None	
SBR80-1925	204.0-205.0	63759	2.5	0.6	95.6	1.3	6.5	1.4	.933		None	
SBR80-1926	205.0-205.8	63760	2.1	0.6	96.2	1.1	5.3	1.4	.932		None	
SBR80-1927	205.8-207.0	63761	1.9	0.6	96.9	0.6	4.9a	1.4			None	
SBR80-1928	207.0-208.0	63762	0.9	0.4	97.6	1.1	2.3a	1.0			None	
SBR80-1929	208.0-209.0	63763	1.2	0.6	97.6	0.6	3.0a	1.4			None	
SBR80-1930	209.0-210.0	63764	1.1	0.6	97.9	0.4	2.9a	1.4			None	
SBR80-1931	210.0-211.0	63765	1.3	0.7	97.5	0.5	3.3a	1.7			None	
SBR80-1932	211.0-212.0	63766	1.9	0.6	97.0	0.5	4.8a	1.4			None	
SBR80-1933	212.0-212.8	63767	2.5	0.6	96.2	0.7	6.5	1.4	.925		None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

Surface elevation: 6,261 feet			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil <sup>1/</sup>	Water				
Laramie	Their											
SBR80-1934	212.8-213.4	63768	9.4	0.9	87.8	1.9	24.6	2.2	0.920	None		
SBR80-1935	213.4-214.0	63769	2.5	0.7	96.1	0.7	6.5	1.7	.931	None		
SBR80-1936	214.0-215.0	63770	1.7	0.6	97.1	0.6	4.3a	1.4		None		
SBR80-1937	215.0-216.0	63771	1.0	0.4	98.2	0.4	2.7a	1.0		None		
SBR80-1938	216.0-217.0	63772	1.1	0.5	97.9	0.5	3.0a	1.2		None		
SBR80-1939	217.0-218.0	63773	1.2	0.5	97.4	0.9	3.1a	1.2		None		
SBR80-1940	218.0-219.0	63774	1.3	0.6	97.0	1.1	3.4a	1.4		None		
SBR80-1941	219.0-220.0	63775	1.4	0.7	97.1	0.8	3.6a	1.7		None		
SBR80-1942	220.0-221.3	63776	0.8	0.6	98.1	0.5	2.0a	1.4		None		
SBR80-1943	221.3-222.5	63777	1.6	0.8	96.8	0.8	4.2a	1.9		None		
SBR80-1944	222.5-223.5	63778	2.8	1.1	95.1	1.0	7.1	2.6	.930	None		
SBR80-1945	223.5-224.2	63779	1.9	1.3	96.4	0.4	4.8a	3.1		None		
SBR80-1946	224.2-225.0	63780	1.9	1.3	96.2	0.6	4.9a	3.1		None		
SBR80-1947	225.0-226.4	63781	2.1	1.1	96.3	0.5	5.4	2.6	.916	None		
SBR80-1948	226.4-227.0	63782	1.0	0.7	97.2	1.1	2.5a	1.7		None		
SBR80-1949	227.0-228.0	63783	3.2	0.7	95.1	1.0	8.3	1.7	.919	None		
SBR80-1950	228.0-229.1	63784	12.2	1.1	84.1	2.6	32.2	2.6	.910	None		
SBR80-1951	229.1-230.0	63789	4.0	0.7	94.0	1.3	10.4	1.7	.929	None		
SBR80-1952	230.0-230.6	63790	2.9	0.9	95.1	1.1	7.6	2.2	.928	None		
SBR80-1953	230.6-232.0	63791	2.3	0.7	96.0	1.0	6.1	1.7	.920	None		
SBR80-1954	232.0-233.0	63792	2.4	0.8	95.7	1.1	6.3	1.9	.921	None		
SBR80-1955	233.0-234.0	63793	3.0	0.8	95.2	1.0	7.7	1.9	.927	None		
SBR80-1956	234.0-235.0	63794	2.4	0.7	95.3	1.6	6.2	1.7	.930	None		
SBR80-1957	235.0-236.0	63795	2.9	0.8	95.2	1.1	7.6	1.9	.930	None		
SBR80-1958	236.0-237.0	63796	2.8	1.1	95.1	1.0	7.3	2.6	.920	None		
SBR80-1959	237.0-238.0	63809	3.0	0.8	95.3	0.9	7.8	1.9	.933	None		
SBR80-1960	238.0-239.0	63810	1.7	1.0	96.9	0.4	4.5a	2.4		None		
SBR80-1961	239.0-240.0	63811	3.9	0.9	94.2	1.0	9.9	2.2	.934	None		
SBR80-1962	240.0-241.0	63812	3.6	0.8	94.9	0.7	9.2	1.9	.927	None		
SBR80-1963	241.0-242.0	63813	3.5	0.9	95.0	0.6	9.1	2.2	.932	None		

See footnote at end of table.

Core samples received October 29, 1977 ; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 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 coke		
			Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>			Water	
Laramie	Their										
SBR80-1964	242.0-243.0	63814	3.4	0.8	95.0	0.8	8.7	1.9	0.927	None	
SBR80-1965	243.0-244.0	63815	3.8	0.9	94.3	1.0	9.8	2.2	.930	None	
SBR80-1966	244.0-245.0	63816	4.0	1.0	94.3	0.7	10.2	2.4	.935	None	
SBR80-1968	246.0-247.0	63817	2.5	1.1	95.8	0.6	6.4	2.6	.922	None	
SBR80-1969	247.0-248.0	63818	2.0	1.5	96.4	0.1	5.1	3.6	.919	None	
SBR80-1970	248.0-249.0	63819	2.8	1.1	95.3	0.8	7.1	2.6	.927	None	
SBR80-1971	249.0-249.8	63820	4.0	0.7	94.3	1.0	10.4	1.7	.928	None	
SBR80-1972	249.8-250.6	63821	5.3	0.8	92.2	1.7	13.6	1.9	.933	None	
SBR80-1973	250.6-251.5	63822	2.8	1.1	93.9	2.2	7.1	2.6	.946	None	
SBR80-1974	251.5-252.6	63823	1.0	1.4	96.3	1.3	2.7 <sup>a</sup>	3.4		None	
SBR80-1975	252.6-254.0	63824	2.0	1.3	95.4	1.3	5.3	3.1	.921	None	
SBR80-1976	254.0-255.0	63825	3.0	1.1	94.6	1.3	7.8	2.6	.929	None	
SBR80-1977	255.0-256.0	63826	3.6	0.8	94.2	1.4	9.3	1.9	.932	None	
SBR80-1978	256.0-257.0	63827	3.6	0.8	94.3	1.3	9.3	1.9	.935	None	
SBR80-1979	257.0-258.0	63828	3.5	1.1	93.9	1.5	9.0	2.6	.929	None	
SBR80-1981	258.0-259.0	63829	3.6	1.0	94.2	1.2	9.2	2.4	.930	None	
SBR80-1982	259.0-260.0	63830	2.3	0.9	94.7	2.1	6.0	2.2	.928	None	
SBR80-1983	260.0-261.0	63831	3.0	1.0	94.8	1.2	7.6	2.4	.926	None	
SBR80-1984	261.0-261.9	63832	3.5	1.0	94.1	1.4	9.1	2.4	.933	None	
SBR80-1985	261.9-263.4	63856	2.3	0.9	95.6	1.2	6.0	2.2	.920	None	
SBR80-1986	263.4-265.0	63857	2.7	0.9	95.5	0.9	6.9	2.2	.931	None	
SBR80-1987	265.0-266.3	63858	2.1	1.3	94.3	2.3	5.4	3.1	.932	None	
SBR80-1988	266.3-267.0	63859	3.6	0.9	94.3	1.2	9.3	2.2	.931	None	
SBR80-1989	267.0-268.0	63860	3.1	1.2	94.6	1.1	8.0	2.9	.929	None	
SBR80-1990	268.0-269.0	63861	2.3	1.5	95.3	0.9	6.1	3.6	.924	None	
SBR80-1991	269.0-270.0	63862	2.9	1.1	95.2	0.8	7.5	2.6	.928	None	
SBR80-1992	270.0-271.0	63863	3.0	1.0	95.1	0.9	7.7	2.4	.928	None	
SBR80-1993	271.0-272.4	63864	2.8	1.3	94.9	1.0	7.3	3.1	.924	None	
SBR80-1994	272.4-273.3	63865	7.7	1.0	90.4	0.9	20.0	2.4	.926	None	
SBR80-1995	273.3-274.0	63866	2.6	1.3	95.2	0.9	6.7	3.1	.927	None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

Sample number		Run No.	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Laramie	Their		Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil <sup>1/</sup>	Water				
SBR80-1996	274.0-275.0	63867	2.3	1.3	95.6	0.8	5.9	3.1	0.925	None		
SBR80-1997	275.0-276.0	63868	1.4	1.6	96.3	0.7	3.5a	3.8		None		
SBR80-1998	276.0-277.0	63917	2.7	1.0	96.0	0.3	7.0	2.4	.925	None		
SBR80-1999	277.0-278.0	63870	3.2	1.1	94.2	1.5	8.1	2.6	.938	None		
SBR80-2000	278.0-279.0	63871	3.7	0.8	94.1	1.4	9.4	1.9	.933	None		
SBR80-2001	279.0-280.0	63872	3.6	0.7	94.5	1.2	9.3	1.7	.927	None		
SBR80-2002	280.0-281.0	63873	2.2	1.3	95.4	1.1	5.6	3.1	.924	None		
SBR80-2003	281.0-282.0	63874	1.9	1.3	95.8	1.0	4.8a	3.1		None		
SBR80-2004	282.0-283.0	63875	1.9	1.5	95.7	0.9	5.0a	3.6		None		
SBR80-2005	283.0-284.0	63876	1.9	1.6	95.4	1.1	5.0a	3.8		None		
SBR80-2006	284.0-285.0	63877	1.9	1.4	95.8	0.9	5.0a	3.4		None		
SBR80-2007	285.0-286.6	63918	7.3	0.7	90.1	1.9	18.9	1.7	.930	None		
SBR80-2008	286.6-288.0	63979	2.5	1.2	95.3	1.0	6.4	2.9	.925	None		
SBR80-2009	288.0-289.3	63880	1.9	1.5	96.6	0.0	5.0a	3.6		None		
SBR80-2010	289.3-290.0	63881	1.9	1.4	96.1	0.6	4.9a	3.4		None		
SBR80-2011	290.0-291.0	63882	2.2	1.3	95.8	0.7	5.8	3.1	.928	None		
SBR80-2012	291.0-292.0	63883	2.1	1.6	95.4	0.9	5.3	3.8	.924	None		
SBR80-2013	292.0-293.0	63884	1.8	1.6	95.8	0.8	4.7a	3.8		None		
SBR80-2014	293.0-294.0	63885	1.8	1.7	95.6	0.9	4.8a	4.1		None		
SBR80-2015	294.0-295.0	63886	1.9	1.7	95.5	0.9	4.9a	4.1		None		
SBR80-2016	295.0-296.0	63887	1.7	1.5	95.7	1.1	4.4a	3.6		None		
SBR80-2017	296.0-297.0	63888	2.1	1.5	95.6	0.8	5.6	3.6	.924	None		
SBR80-2018	297.0-298.0	63889	2.1	1.4	95.5	1.0	5.4	3.4	.927	None		
SBR80-2019	298.0-299.0	63890	0.8	1.2	96.5	1.5	2.2a	2.9		None		
SBR80-2020	299.0-300.0	63891	2.5	1.3	95.4	0.8	6.4	3.1	.927	None		
SBR80-2021	300.0-301.0	63893	2.3	1.3	95.1	1.3	5.9	3.1	.926	None		
SBR80-2022	301.0-302.0	63894	1.4	1.3	95.7	1.6	3.7a	3.1		None		
SBR80-2023	302.0-303.0	63895	2.4	1.4	95.0	1.2	6.1	3.4	.926	None		
SBR80-2024	303.0-303.9	63896	2.8	1.3	94.6	1.3	7.2	3.1	.924	None		
SBR80-2025	303.9-304.8	63897	9.3	1.1	87.3	2.3	24.0	2.6	.927	None		

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

Surface elevation: 6,261 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			Tendency to coke		
			Oil	Water			Oil <sup>1/</sup>	Water				
Laramie	Their											
SBR80-2026	304.8-306.0	63898	2.4	1.4	95.0	1.2	6.2	3.4	0.927		None	
SBR80-2027	306.0-307.0	63899	2.1	1.3	95.5	1.1	5.6	3.1	.924		None	
SBR80-2028	307.0-308.0	63900	1.9	1.5	95.4	1.2	5.1a	3.6			None	
SBR80-2029	308.0-309.0	63927	1.9	1.7	95.7	0.7	5.0	4.1			None	
SBR80-2030	309.0-310.0	63902	1.9	1.2	95.6	1.3	4.9a	2.9			None	
SBR80-2031	310.0-310.7	63903	10.3	1.0	86.5	2.2	26.6	2.4	.925		None	
SBR80-2032	310.7-312.0	63904	3.1	1.0	94.9	1.0	7.8	2.4	.935		None	
SBR80-2033	312.0-313.0	63905	2.5	1.2	95.6	0.7	6.4	2.9	.932		None	
SBR80-2034	313.0-314.0	63906	1.5	0.9	95.8	1.8	3.9a	2.2			None	
SBR80-2035	314.0-315.0	63907	3.0	1.1	95.0	0.9	7.8	2.6	.935		None	
SBR80-2036	315.0-316.0	63908	3.9	0.8	94.4	0.9	10.1	1.9	.932		None	
SBR80-2037	316.0-317.0	63909	2.9	1.3	94.8	1.0	7.5	3.1	.934		None	
SBR80-2038	317.0-318.0	63910	1.9	1.7	95.7	0.7	5.1a	4.1			None	
SBR80-2039	318.0-319.0	63919	1.6	1.7	96.2	0.5	4.2a	4.1			None	
SBR80-2040	319.0-320.0	63920	2.0	1.5	95.9	0.6	5.2	3.6	.923		None	
SBR80-2041	320.0-321.0	63921	2.5	1.5	95.3	0.7	6.5	3.6	.925		None	
SBR80-2042	321.0-322.0	63922	3.0	1.3	94.9	0.8	7.7	3.1	.932		None	
SBR80-2043	322.0-323.0	63923	6.3	1.0	91.6	1.1	16.2	2.4	.928		None	
SBR80-2044	323.0-324.0	63924	2.8	1.3	95.2	0.7	7.2	3.1	.932		None	
SBR80-2045	324.0-325.0	63925	1.9	1.4	96.1	0.6	4.9	3.4			None	
SBR80-2046	325.0-326.0	63926	1.1	0.9	96.3	1.7	2.9	2.2			None	
SBR80-2047	326.0-327.0	63929	3.4	1.0	94.3	1.3	8.9	2.4	.925		None	
SBR80-2048	327.0-328.0	63930	2.7	1.4	94.5	1.4	7.0	3.4	.935		None	
SBR80-2049	328.0-329.1	63931	4.2	1.1	93.1	1.6	11.1	2.6	.921		None	
SBR80-2050	329.1-330.0	63932	3.2	1.2	94.3	1.3	8.2	2.9	.923		None	
SBR80-2051	330.0-331.0	63933	2.5	1.3	94.9	1.3	6.6	3.1	.920		None	
SBR80-2052	331.0-332.4	63934	2.1	1.2	95.6	1.1	5.6	2.9	.907		None	
SBR80-2053	332.4-333.4	63935	11.3	1.1	85.2	2.4	29.4	2.6	.925		None	
SBR80-2054	333.4-334.4	63936	3.0	0.8	95.2	1.0	7.8	1.9	.931		None	
SBR80-2055	334.4-335.4	63937	2.1	1.1	96.0	0.8	5.3	2.6	.925		None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples



## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil <sup>1/</sup>	Water				
Laramie	Their											
SBR80-2056	335.4-336.4	63938	1.6	0.8	96.0	1.6	4.0a	1.9	0.925	None		
SBR80-2057	336.4-337.4	63939	3.1	1.2	94.8	0.9	8.1	2.9		None		
SBR80-2058	337.4-338.2	63940	7.0	1.0	90.1	1.9	18.0	2.4		None		
SBR80-2059	338.2-339.0	63941	3.5	1.0	94.4	1.1	9.1	2.4	.931	None		
SBR80-2060	339.0-340.0	63942	2.1	1.1	95.4	1.4	5.4	2.6	.917	None		
SBR80-2061	340.0-340.6	63943	2.9	1.2	94.9	1.0	7.6	2.9	.916	None		
SBR80-2062	340.6-341.6	63944	10.6	1.2	86.0	2.2	27.5	2.9	.924	None		
SBR80-2063	341.6-343.0	63945	3.3	1.1	94.7	0.9	8.6	2.6	.920	None		
SBR80-2064	343.0-344.0	63946	2.8	1.2	95.3	0.7	7.1	2.9	.930	None		
SBR80-2065	344.0-345.0	63947	3.0	0.9	95.3	0.8	7.8	2.2	.930	None		
SBR80-2066	345.0-346.0	63948	3.7	0.8	94.7	0.8	9.6	1.9	.935	None		
SBR80-2067	346.0-347.0	63949	3.9	1.1	94.1	0.9	10.0	2.6	.933	None		
SBR80-2068	347.0-348.0	63950	4.3	1.2	92.5	2.0	11.2	2.9	.925	None		
SBR80-2069	348.0-349.0	63951	3.9	1.0	94.2	0.9	10.0	2.4	.923	None		
SBR80-2070	349.0-350.0	63952	4.1	0.9	93.9	1.1	10.6	2.2	.932	None		
SBR80-2071	350.0-351.0	63953	4.1	1.0	94.1	0.8	10.6	2.4	.934	None		
SBR80-2072	351.0-352.0	63954	3.9	0.4	93.7	2.0	9.9	1.0	.935	None		
SBR80-2073	352.0-353.0	63955	4.5	1.0	93.5	1.0	11.7	2.4	.932	None		
SBR80-2074	353.2-354.0	63956	4.3	1.2	93.6	0.9	11.3	2.9	.928	None		
SBR80-2075	354.0-355.0	63957	4.3	1.3	93.3	1.1	11.3	3.1	.917	None		
SBR80-2076	355.0-356.0	63958	4.4	1.4	93.1	1.1	11.4	3.4	.918	None		
SBR80-2077	356.0-357.0	63959	4.3	1.5	93.2	1.0	11.1	3.6	.915	None		
SBR80-2078	357.0-358.0	63960	4.2	1.3	93.2	1.3	11.1	3.1	.916	None		
SBR80-2079	358.0-359.0	63961	4.6	1.4	93.0	1.0	12.0	3.4	.918	None		
SBR80-2080	359.0-360.0	63962	4.9	1.4	92.5	1.2	12.7	3.4	.919	None		
SBR80-2081	360.0-361.0	63963	5.5	1.3	91.8	1.4	14.4	3.1	.918	None		
SBR80-2082	361.0-362.0	63964	4.8	1.4	92.5	1.3	12.6	3.4	.915	None		
SBR80-2083	362.0-363.0	63966	9.1	0.9	88.5	1.5	23.6	2.2	.912	None		
SBR80-2084	363.0-364.0	63967	7.4	1.2	89.8	1.6	19.3	2.9		None		
SBR80-2085	364.0-365.0	63968	9.4	1.1	88.1	1.4	24.7	2.6		None		

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

Surface elevation: 6,261 feet			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke	Remarks
			Oil	Water			Oil <sup>1/</sup>	Water			
Laramie	Their										
SBR80-2086	365.0-366.0	63969	6.6	1.3	91.1	1.0	17.3	3.1	.910	None	
SBR80-2087	366.0-367.0	63970	4.5	1.3	93.7	0.5	11.7	3.1	.922	None	
SBR80-2088	367.0-368.0	63971	4.3	1.1	94.2	0.4	11.3	2.6	.913	None	
SBR80-2089	368.0-368.7	63972	6.0	1.1	92.0	0.9	15.8	2.6	.915	None	
SBR80-2090	368.7-370.0	63973	2.8	1.5	95.4	0.3	7.3	3.6	.912	None	
SBR80-2091	370.0-371.0	63974	2.4	0.8	95.2	1.6	6.3	1.9	.913	None	
SBR80-2092	371.0-372.0	63975	9.0	1.2	88.2	1.6	23.5	2.9	.921	None	
SBR80-2093	372.0-373.0	63976	5.3	1.4	92.5	0.8	13.8	3.4	.918	None	
SBR80-2094	373.0-374.0	63676	2.7	1.4	94.7	1.2	7.0	3.4	.916	None	
SBR80-2095	374.0-375.4	64677	2.4	1.3	95.2	1.1	6.3	3.1	.920	None	
SBR80-2096	375.4-377.0	64678	5.3	1.3	91.8	1.6	13.9	3.1	.915	None	
SBR80-2097	377.0-378.0	64679	2.4	1.9	94.5	1.2	6.3	4.6	.911	None	
SBR80-2098	378.0-379.0	64680	1.5	1.7	95.6	1.2	3.9a	4.1		None	
SBR80-2099	379.0-380.0	64681	2.8	1.9	94.1	1.2	7.3	4.6	.912	None	
SBR80-2100	380.0-381.0	64682	2.4	1.9	94.3	1.4	6.4	4.6	.913	None	
SBR80-2101	381.0-382.1	64683	2.2	1.4	95.2	1.2	5.7	3.4	.914	None	
SBR80-2102	382.1-383.2	64684	11.1	1.5	84.6	2.8	28.8	3.6	.921	None	
SBR80-2103	383.2-384.0	64685	3.3	1.4	94.2	1.1	8.5	3.4	.915	None	
SBR80-2104	384.0-385.0	64686	2.7	1.6	94.2	1.5	7.0	3.8	.912	None	
SBR80-2105	385.0-386.0	63687	2.4	1.7	95.0	0.9	6.2	4.1	.911	None	
SBR80-2106	386.0-387.0	64688	2.6	1.6	95.0	0.8	6.8	3.8	.915	None	
SBR80-2107	387.0-287.7	64689	10.7	1.4	85.5	2.4	27.8	3.4	.921	None	
SBR80-2108	387.7-389.0	63690	2.8	1.6	94.6	1.0	7.3	3.8	.922	None	
SBR80-2109	389.0-390.0	64691	1.9	1.8	95.6	0.7	4.9a	4.3		None	
SBR80-2110	390.0-391.6	64692	2.4	1.8	94.8	1.0	6.3	4.3	.924	None	
SBR80-2111	391.6-392.6	64693	8.3	1.3	88.5	1.9	21.4	3.1	.924	None	
SBR80-2112	392.6-394.0	64694	2.1	0.7	95.3	1.9	5.4	1.7	.923	None	
SBR80-2113	394.0-395.0	64695	2.6	1.5	95.0	0.9	6.8	3.6	.916	None	
SBR80-2114	395.0-396.4	64696	3.3	1.6	93.7	1.4	8.7	3.8	.915	None	
SBR80-2115	396.4-397.5	64697	14.1	1.8	81.5	2.6	36.7	4.3	.924	None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of	Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			spent shale	
			Oil	Water			Oil <sup>1/</sup>	Water		Tendency to coke	
Laramie	Their										
SBR80-2116	397.5-398.0	64698	2.6	1.5	95.2	0.7	6.9	3.6	.923	None	
SBR80-2117	398.0-399.0	64699	2.4	1.7	95.2	0.7	6.2	4.1	.921	None	
SBR80-2118	399.0-400.0	64700	2.1	2.0	95.3	0.6	5.5	4.8	.921	None	
SBR80-2119	400.0-401.0	64701	2.3	2.4	94.6	0.7	6.0	5.8	.922	None	
SBR80-2120	401.0-402.0	64702	4.2	1.9	92.8	1.1	10.9	4.6	.918	None	
SBR80-2121	402.0-403.0	64703	3.7	1.8	93.0	1.5	9.7	4.3	.922	None	
SBR80-2122	403.0-404.4	64704	3.9	1.7	93.2	1.2	10.2	4.1	.919	None	
SBR80-2123	404.4-405.4	64705	12.7	1.5	83.2	2.6	33.2	3.6	.919	None	
SBR80-2124	405.4-406.7	64706	2.3	1.0	94.7	2.0	6.0	2.4	.916	None	
SBR80-2125	406.7-407.2	64707	1.3	1.5	96.8	0.4	3.3a	3.6		None	
SBR80-2126	407.2-408.0	64708	0.5	1.7	97.0	0.8	1.2a	4.1		None	
SBR80-2127	408.0-409.0	64714	1.8	1.9	95.3	1.0	4.8a	4.6		None	
SBR80-2128	409.0-410.0	64715	4.8	2.0	91.9	1.3	12.5	4.8	.929	None	
SBR80-2129	410.0-411.0	64716	5.1	1.6	92.0	1.3	13.3	3.8	.917	None	
SBR80-2130	411.0-412.0	64717	3.6	1.6	93.7	1.1	9.3	3.8	.916	None	
SBR80-2131	412.0-413.0	64718	2.7	1.4	94.1	1.8	7.1	3.4	.922	None	
SBR80-2132	413.0-414.0	64719	6.4	1.4	91.0	1.2	17.0	3.4	.907	None	
SBR80-2133	414.0-415.0	64720	3.8	1.5	93.5	1.2	9.9	3.6	.923	None	
SBR80-2134	415.0-416.0	64721	3.2	1.2	94.6	1.0	8.1	2.9	.930	None	
SBR80-2135	416.0-417.7	64722	2.2	0.8	95.0	2.0	5.7	1.9	.925	None	
SBR80-2136	417.7-418.7	64723	3.6	1.9	93.3	1.2	9.4	4.6	.929	None	
SBR80-2137	418.7-420.0	64724	5.2	1.7	91.0	2.1	13.5	4.1	.914	None	
SBR80-2139	421.0-422.0	64725	3.6	2.2	93.1	1.1	9.2	5.3	.931	None	
SBR80-2140	422.0-423.0	64726	4.1	2.0	92.7	1.2	10.6	4.8	.929	None	
SBR80-2141	423.0-424.0	64727	3.7	1.7	93.4	1.2	9.6	4.1	.927	None	
SBR80-2142	424.0-425.0	64728	3.6	1.9	93.3	1.2	9.4	4.6	.920	None	
SBR80-2143	425.0-426.0	64729	3.5	2.2	93.2	1.1	9.0	5.3	.924	None	
SBR80-2144	426.0-427.0	64730	3.3	2.1	93.4	1.2	8.7	5.0	.924	None	
SBR80-2145	427.0-428.0	64731	2.8	1.8	94.4	1.0	7.1	4.3	.925	None	
SBR80-2146	428.0-429.0	64732	3.6	1.4	94.0	1.0	9.3	3.4	.924	None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent				Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water				
SBR80-2147	429.0-430.0	64733	2.6	1.3	95.2	0.9	6.7	3.1	0.922	None		
SBR80-2148	430.0-431.0	64734	1.3	1.3	96.3	1.1	3.3a	3.1		None		
SBR80-2149	431.0-432.0	64735	2.2	1.8	95.1	0.9	5.7	4.3	.918	None		
SBR80-2150	432.0-433.0	64736	4.0	1.4	93.4	1.2	10.6	3.4	.916	None		
SBR80-2151	433.0-434.0	64737	3.1	1.9	93.9	1.1	8.0	4.6	.924	None		
SBR80-2152	434.0-435.0	64738	3.5	2.3	93.0	1.2	9.1	5.5	.923	None		
SBR80-2153	435.0-436.0	64739	3.4	2.2	93.2	1.2	8.8	5.3	.927	None		
SBR80-2154	436.0-436.7	64740	5.6	1.6	91.7	1.1	14.6	3.8	.918	None		
SBR80-2155	436.7-438.5	64741	6.1	2.2	90.6	1.1	16.0	5.3	.908	None	Wavy bedded tuff	
SBR80-2156	438.5-439.7	64742	3.4	0.6	94.4	1.6	8.8	1.4	.921	None		
SBR80-2157	439.7-441.0	64743	4.8	1.1	92.7	1.4	12.5	2.6	.919	None		
SBR80-2158	441.0-442.0	64744	2.1	1.0	95.6	1.3	5.5	2.4	.926	None		
SBR80-2159	442.0-443.0	64745	2.7	1.1	95.1	1.1	7.1	2.6	.925	None		
SBR80-2160	443.0-444.0	64746	4.3	0.9	93.4	1.4	11.0	2.2	.923	None		
SBR80-2161	444.0-445.0	64747	2.6	1.3	94.9	1.2	6.7	3.1	.924	None		
SBR80-2162	445.0-446.0	64748	2.4	1.4	95.2	1.0	6.2	3.4	.922	None		
SBR80-2163	446.0-447.0	64749	2.8	1.4	94.7	1.1	7.3	3.4	.922	None		
SBR80-2164	447.0-448.0	64750	2.3	1.3	95.4	1.0	5.9	3.1	.919	None		
SBR80-2165	448.0-449.0	64751	4.1	1.1	93.6	1.2	10.6	2.6	.918	None		
SBR80-2166	449.0-450.0	64752	3.7	1.0	94.3	1.0	9.5	2.4	.920	None		
SBR80-2167	450.0-451.0	64753	3.1	1.0	94.7	1.2	8.1	2.4	.918	None		
SBR80-2168	451.0-452.2	64754	10.4	0.7	85.2	3.7	27.0	1.7	.924	None		
SBR80-2169	452.2-453.0	64755	4.3	0.9	93.5	1.3	11.1	2.2	.921	None		
SBR80-2170	453.0-454.0	64756	4.2	0.9	93.1	1.8	11.0	2.2	.921	None		
SBR80-2171	454.0-455.0	64757	4.5	0.9	93.3	1.3	11.9	2.2	.916	None		
SBR80-2172	455.0-455.8	64758	4.7	0.7	92.5	2.1	12.4	1.7	.910	None		
SBR80-2173	455.8-457.0	64759	10.0	1.1	86.8	2.1	26.3	2.6	.911	None		
SBR80-2174	457.0-458.0	64760	4.8	0.8	93.3	1.1	12.5	1.9	.911	None		
SBR80-2175	458.0-459.2	64761	10.9	1.0	85.7	2.4	28.6	2.4	.913	Slight		
SBR80-2176	459.2-459.8	64762	4.7	0.9	93.4	1.0	12.2	2.2	.916	None		

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 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			Tendency to coke		
			Oil	Water			Oil <sup>1/</sup>	Water				
Laramie	Their											
SBR80-2177	459.8-461.0	64763	1.8	0.8	96.5	0.9	4.8a	1.9	.922	None		
SBR80-2178	461.0-462.0	64764	1.5	0.9	96.6	1.0	3.9a	2.2		None		
SBR80-2179	462.0-463.0	64765	1.0	0.5	97.6	0.9	2.7a	1.2		None		
SBR80-2180	463.0-464.0	64766	1.2	0.4	97.1	1.3	3.1a	1.0		None		
SBR80-2181	464.0-465.0	64767	2.4	0.7	96.0	0.9	6.2	1.7		None		
SBR80-2182	465.0-466.0	64768	1.4	0.7	97.2	0.7	3.6a	1.7	None			
SBR80-2183	466.0-467.0	64769	1.0	0.8	97.5	0.7	2.7a	1.9	None			
SBR80-2184	467.0-468.0	64770	0.0	0.4	98.5	1.1	Trace	1.1	None			
SBR80-2185	468.0-469.0	64771	0.7	0.6	98.2	0.5	1.9a	1.4	None			
SBR80-2186	469.0-469.8	64772	1.2	0.7	97.6	0.5	3.1a	1.7	None			
SBR80-2187	469.8-470.9	64773	5.7	0.9	91.7	1.7	15.0	2.2	.908	None		
SBR80-2188	470.9-471.9	64774	4.3	0.9	93.6	1.2	11.2	2.2	.908	None		
SBR80-2189	471.9-473.0	64775	12.3	1.2	83.6	2.9	32.5	2.9	.910	None		
SBR80-2190	473.0-474.0	64776	5.5	0.9	92.0	1.6	14.4	2.2	.913	None		
SBR80-2191	474.0-475.1	64777	5.9	1.0	92.6	1.5	12.8	2.4	.911	None		
SBR80-2192	475.1-476.6	64778	3.4	0.7	94.9	1.0	8.9	1.7	.914	None		
SBR80-2193	476.6-477.6	64779	7.1	1.0	90.2	1.7	18.4	2.4	.921	None		
SBR80-2194	477.6-478.5	64780	12.8	1.1	83.2	2.9	33.2	2.6	.924	None		
SBR80-2195	478.5-480.0	64781	8.5	0.8	88.7	2.0	22.4	1.9	.914	None		
SBR80-2196	480.0-481.0	64782	14.1	0.7	82.0	3.2	37.7	1.7	.897	None		
SBR80-2197	481.0-482.0	64783	18.0	1.2	77.1	3.7	47.7	2.9	.904	None		
SBR80-2198	482.0-483.0	64784	11.0	0.7	86.3	2.0	29.4	1.7	.894	None		
SBR80-2199	483.0-484.0	64785	7.0	0.9	90.3	1.8	18.5	2.2	.903	None		
SBR80-2200	484.0-485.0	64786	6.4	0.9	90.9	1.8	16.8	2.2	.909	None		
SBR80-2201	485.0-486.0	64787	3.7	0.7	94.3	1.3	9.6	1.7	.919	None		
SBR80-2202	486.0-487.0	64840	6.1	0.7	91.3	1.9	15.8	1.7	.917	None		
SBR80-2203	487.0-488.0	64789	7.3	0.8	89.9	2.0	19.2	1.9	.914	None		
SBR80-2204	488.0-489.0	64790	2.6	0.4	95.0	2.0	6.9	1.0	.916	None		
SBR80-2205	489.0-490.0	64791	4.4	0.7	93.3	1.6	11.5	1.7	.914	None		
SBR80-2206	490.0-490.9	64792	3.5	0.6	94.4	1.5	9.2	1.4	.916	None		

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 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 <sup>1/</sup>	Water				
Laramie	Their	Run No.	Oil	Water	shale	loss	Oil <sup>1/</sup>	Water				
SBR80-2207	490.9-491.4	64793	4.0	1.7	93.6	0.7	10.9	4.1	0.881	None		
SBR80-2207.5	491.4-493.0	64794	3.6	0.7	94.6	1.1	9.4	1.7	.911	None		
SBR80-2208	493.0-494.0	64795	3.2	0.6	95.2	1.0	8.5	1.4	.899	None		
SBR80-2209	494.0-495.0	64796	4.4	0.6	94.0	1.0	11.7	1.4	.902	None		
SBR80-2210	495.0-496.6	64797	14.4	1.1	81.7	2.8	37.3	2.6	.924	Slight		
SBR80-2211	496.6-497.9	64798	8.7	0.7	88.5	2.1	23.2	1.7	.900	None		
SBR80-2212	497.9-499.0	64799	5.5	0.6	91.2	2.7	14.6	1.4	.909	None		
SBR80-2213	499.0-500.0	64800	13.2	0.7	82.6	3.5	34.8	1.7	.907	None		
SBR80-2214	500.0-501.0	64801	13.0	0.5	83.5	3.0	34.4	1.2	.904	Slight		
SBR80-2215	501.0-502.0	64802	25.7	0.9	66.5	6.9	68.4	2.2	.901	Heavy		
SBR80-2216	502.0-503.0	64803	24.7	0.9	69.6	4.8	66.3	2.2	.894	Heavy		
SBR80-2217	503.0-504.0	64804	28.9	1.3	61.2	8.6	76.4	3.1	.905	Heavy		
SBR80-2218	504.0-505.0	64805	29.3	1.4	63.1	6.2	77.7	3.4	.903	Heavy		
SBR80-2219	505.0-506.0	64806	21.3	1.4	71.7	5.6	56.2	3.4	.908	Moderate		
SBR80-2220	506.0-507.0	64807	19.0	0.7	76.2	4.1	50.2	1.7	.906	Slight		
SBR80-2221	507.0-508.0	64808	20.6	1.2	74.2	4.0	53.9	2.9	.917	Moderate		
SBR80-2222	508.0-509.0	64809	7.4	0.9	89.8	1.9	19.3	2.2	.919	None		
SBR80-2223	509.0-510.0	64810	10.9	0.6	86.4	2.1	28.5	1.4	.917	None		
SBR80-2224	510.0-511.0	64811	14.4	0.7	82.0	2.9	37.7	1.7	.914	None		
SBR80-2225	511.0-512.4	64812	6.6	0.5	91.5	1.4	17.4	1.2	.911	None		
SBR80-2226	512.4-513.0	64813	22.0	0.8	73.3	3.9	57.9	1.9	.910	None		
SBR80-2227	513.0-514.0	64814	14.9	0.9	79.9	4.3	39.9	2.2	.897	None		
SBR80-2228	514.0-514.9	64815	19.7	0.8	75.7	3.8	52.4	1.9	.900	None		
SBR80-2229	514.9-516.3	64816	7.2	0.6	90.6	1.6	19.3	1.4	.889	None		
SBR80-2230	516.3-517.3	64864	17.7	0.9	78.8	2.6	46.8	2.2	.908	None		
SBR80-2231	517.3-518.4	64818	5.4	0.3	91.9	2.4	14.3	0.7	.911	None		
SBR80-2232	518.4-519.4	64819	4.7	0.5	93.6	1.2	12.4	1.2	.914	None		
SBR80-2233	519.4-520.3	64820	13.4	0.8	83.4	2.4	35.3	1.9	.912	None		
SBR80-2234	520.3-521.4	64821	13.7	1.1	82.6	2.6	35.9	2.6	.917	None		
SBR80-2235	521.4-522.6	64822	5.2	0.8	92.7	1.3	13.6	1.9	.913	None		

Core samples received October 28, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 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			Tendency to coke		
Laramie	Their		Oil	Water					Oil <sup>1/</sup>		Water	
SBR80-2236	522.6-524.3	64823	5.1	0.5	92.5	1.9	13.3	1.2	0.913	None		
SBR80-2237	524.3-525.0	64824	10.6	0.8	85.8	2.8	27.9	1.9	.913	None		
SBR80-2238	525.0-526.0	64825	13.9	0.7	82.2	3.2	36.8	1.7	.904	None		
SBR80-2239	526.0-527.0	64826	9.9	0.6	87.0	2.5	26.5	1.4	.897	None		
SBR80-2240	527.0-528.0	64827	8.6	0.6	88.5	2.3	22.9	1.4	.904	None		
SBR80-2241	528.0-529.0	64828	13.2	0.8	82.8	3.2	35.1	1.9	.903	None		
SBR80-2242	529.0-530.0	64841	7.3	0.7	90.0	2.0	19.3	1.7	.905	None		
SBR80-2243	530.0-531.0	64842	5.1	0.5	92.6	1.8	13.4	1.2	.913	None		
SBR80-2244	531.0-532.0	64843	3.4	0.6	94.4	1.6	8.9	1.4	.918	None		
SBR80-2245	532.0-533.4	64844	4.9	0.6	92.9	1.6	13.0	1.4	.912	None		
SBR80-2246	533.4-534.3	64845	10.7	0.9	85.8	2.6	27.7	2.2	.926	None		
SBR80-2247	534.3-535.1	64846	3.9	0.8	93.9	1.4	10.1	1.9	.919	None		
SBR80-2248	535.1-536.0	64847	2.9	0.7	95.6	0.8	7.5	1.7	.915	None		
SBR80-2249	536.0-537.0	64848	1.0	0.5	98.1	0.4	2.7a	1.2		None		
SBR80-2250	537.0-538.0	64849	1.7	0.4	97.3	0.6	4.5a	1.0		None		
SBR80-2251	538.0-538.8	64954	3.4	0.6	94.7	1.3	9.0	1.4	.907	None		
SBR80-2252	538.8-539.6	64851	7.3	0.8	90.8	1.1	19.3	1.9	.902	None		
SBR80-2253	539.6-541.1	64852	1.7	1.7	96.0	0.6	4.3a	4.1		None		
SBR80-2254	541.1-542.4	64853	11.1	1.2	84.1	3.6	29.2	2.9	.909	None		
SBR80-2255	542.4-543.5	64854	2.6	0.5	95.6	1.3	6.9	1.2	.911	None		
SBR80-2256	543.5-544.6	64855	3.0	0.6	95.4	1.0	7.9	1.4	.905	None		
SBR80-2257	544.6-545.5	64856	9.5	1.0	87.7	1.8	24.8	2.4	.914	None		
SBR80-2258	545.5-546.9	64857	1.1	0.7	97.7	0.5	2.8a	1.7		None		
SBR80-2259	546.9-548.0	64858	4.3	0.9	93.9	0.9	11.2	1.2	.917	None		
SBR80-2260	548.0-549.3	64859	1.0	2.0	96.6	0.4	2.6a	4.8		None	Curly bedded tuff	
SBR80-2261	549.3-550.5	64860	2.5	1.2	95.6	0.7	6.7	2.9	.915	None		
SBR80-2262	550.5-552.0	64861	1.1	0.5	97.0	1.4	2.8a	1.2		None		
SBR80-2263	552.0-553.0	64862	1.2	0.4	97.2	1.2	3.1a	1.0		None		
SBR80-2264	553.0-554.0	64863	0.9	0.4	98.1	0.6	2.4a	1.0		None		
SBR80-2265	554.0-555.0	64865	0.0	0.1	98.7	1.2	Trace	0.1		None		

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

Sample number			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		
							Oil	Water				
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water				
SBR80-2266	555.0-556.0	64866	0.0	0.2	98.8	1.0	Trace	0.5			None	
SBR80-2267	556.0-557.1	64867	1.2	0.1	98.2	0.5	3.2a	0.2			None	
SBR80-2268	557.1-558.0	64868	0.5	0.5	98.6	0.4	1.2a	1.2			None	
SBR80-2269	558.0-559.1	64869	1.0	1.0	97.4	0.6	2.7a	2.4			None	
SBR80-2270	559.1-560.7	64870	5.2	0.9	92.8	1.1	13.6	2.2	0.913		None	
SBR80-2271	560.8-562.0	64871	3.0	0.6	95.6	0.8	7.8	1.4	.905		None	
SBR80-2272	562.0-563.0	64872	6.5	0.7	91.2	1.6	17.2	1.7	.905		None	
SBR80-2273	563.0-564.0	64873	2.2	0.5	96.8	0.5	5.9	1.2	.905		None	
SBR80-2274	564.0-565.0	64874	2.8	0.6	95.7	0.9	7.5	1.4	.904		None	
SBR80-2275	565.0-566.0	64875	2.4	0.5	96.3	0.8	6.4	1.2	.910		None	
SBR80-2276	566.0-567.0	64876	1.4	0.5	97.7	0.4	3.5a	1.2			None	
SBR80-2277	567.0-568.0	64877	1.9	0.3	96.8	1.0	5.0a	0.7			None	
SBR80-2278	568.0-569.0	64878	2.1	0.4	96.5	1.0	5.5	1.0	.912		None	
SBR80-2279	569.0-569.7	64879	3.2	1.1	94.6	1.1	8.3	2.6	.909		None	
SBR80-2280	569.7-571.0	64880	2.3	1.0	95.9	0.8	6.2	2.4	.901		None	
SBR80-2281	571.0-572.0	64881	2.2	1.3	95.6	0.9	5.9	3.1	.889		None	
SBR80-2282	572.0-573.3	64882	1.6	0.5	97.0	0.9	4.3a	1.2			None	
SBR80-2283	573.3-575.0	64883	1.8	0.7	96.7	0.8	4.6a	1.7			None	
SBR80-2284	575.0-576.0	64884	7.3	1.2	89.9	1.6	19.4	2.9	.906		None	
SBR80-2285	576.0-577.0	64885	5.8	1.3	91.5	1.4	15.2	3.1	.907		None	
SBR80-2286	577.0-577.9	64886	0.0	0.9	97.9	1.2	Trace	2.0			None	
SBR80-2287	577.9-579.0	64887	1.5	1.9	95.9	0.7	4.0a	4.6			None	
SBR80-2288	579.0-580.1	64889	5.4	1.3	92.1	1.2	13.9	3.1	.924		None	
SBR80-2289	580.1-581.2	64890	1.9	0.4	96.7	1.0	5.1a	1.0			None	
SBR80-2290	581.2-583.0	64891	0.0	0.9	98.4	0.7	Trace	2.1			None	
SBR80-2291	583.0-586.0	64892	0.0	0.7	98.8	0.5	Trace	1.6			None	
SBR80-2292	586.0-587.0	64893	2.1	0.2	97.2	0.5	5.6	0.5	.922		None	
SBR80-2293	587.0-589.0	64894	0.0	0.4	99.3	0.3	Trace	1.0			None	
SBR80-2294	589.0-591.0	64895	0.0	0.6	98.8	0.6	Trace	1.4			None	
SBR80-2295	591.0-594.0	64896	0.0	1.0	98.5	0.5	Trace	2.4			None	

See footnote at end of table.

Core samples received October 29, 1977; assays made on air-dried samples



## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Core samples from ERDA/LERC Southern Uinta Basin Corehole 12

Surface elevation: 6,261 feet

Sample number		Run No.	Yield of product				Gal per ton		Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent shale	Gas + loss	Oil <sup>1/</sup>	Water			
Laramie	Their		Oil	Water							
SBR80-2296	594.0-595.0	64897	1.2	0.6	98.0	0.2	3.1a	1.4		None	
SBR80-2297	595.0-596.0	64898	1.6	0.1	96.8	1.5	4.1a	0.2		None	
SBR80-2298	596.0-597.0	64899	1.7	0.1	97.8	0.4	4.4a	0.2		None	
SBR80-2299	597.0-598.0	64900	1.8	0.1	97.3	0.8	4.8a	0.2		None	
SBR80-2300	598.0-599.2	64901	1.8	0.1	96.0	2.1	4.6a	0.2		None	
SBR80-2301	599.2-621.1				BARREN ROCK - NOT ASSAYED						

<sup>1/</sup> "a"--indicates specific gravity estimated as 0.920.

Core samples received October 29, 1977; assays made on air-dried samples